



**Shaheed Major Sanjeev Lather Government College Julana(Jind)**

(Affiliated to C.R.S.University, Jind)

Address: Karsola Road, Julana-126101 Ph. 01683275800

Website: [gcjulana.ac.in](http://gcjulana.ac.in)

Email id: [gcjulana2009@gmail.com](mailto:gcjulana2009@gmail.com)

Email id: [smslgcjulana@gmail.com](mailto:smslgcjulana@gmail.com)

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# Supporting Document

## 3.4.1





## **Shaheed Major Sanjeev Lather Government College Julana(Jind)**

(Affiliated to C.R.S.University, Jind)

Address: Karsola Road, Julana-126101 Ph. 01683275800

Website: [gcjulana.ac.in](http://gcjulana.ac.in)

Email id: [gcjulana2009@gmail.com](mailto:gcjulana2009@gmail.com)

Email id: [smslgjulana@gmail.com](mailto:smslgjulana@gmail.com)

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### **Certificate**

#### **Response: 3.4.1**

It is certified that information about the institution has several collaboration/ linkages for faculty exchange, student exchange, internship, field trip, on the job training, research etc. during the year 2023-24 is attached here with.

It is further submitted that information is compiled as per record available and is true to best our knowledge.

YEAR	2023-24
NUMBER	14

  
Principal  
SMSL Govt. College  
Julana



**Department of Higher Education, Haryana  
(Panchkula)**

**CERTIFICATE  
OF PARTICIPATION**

The certificate is accorded to

**Dr. Surender Kumar**

This certificate is given to the individual from **Government College Julana (Jind)** for his/her participation in workshop regarding National Institutional Ranking Framework (NIRF) on 26th of December, 2023, Organized by Haryana Statistical Cell, Directorate Higher Education, Panchkula -Haryana



**Dr. Veena Rani**  
Deputy Director  
(Co-Ordinator)



**Rajiv Rattan -IAS**  
Director Higher Education  
HARYANA (Panchkula)



Government Of India



ज्ञान-विज्ञान विमुक्तये  
University Grants Commission

## CERTIFICATE OF PARTICIPATION

### NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

This is to certify that **Dr. Surender Kumar** , **Assistant Professor** from **Govt. College Julana (Jind)** has completed the NEP 2020 Orientation & Sensitization Programme on *Research and Development* under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by the University of North Bengal from January 10, 2024 to January 18, 2024.

Date: 18/01/2024

Place: UGC-MM-TTC, University of North Bengal.

(Prof. Anjan Chakrabarti)  
Professor - Director, (MM-TTC)



**MAHARSHI DAYANAND UNIVERSITY, ROHTAK**

(A State University established under Haryana Act No. 25 of 1975)

NAAC Accredited 'A+' Grade University



**2<sup>nd</sup> INTERNATIONAL CONFERENCE OF INDIAN SCIENCE CONGRESS ASSOCIATION-ROHTAK CHAPTER**

**ON**

**"SCIENCE & TECHNOLOGY FOR SUSTAINABLE FUTURE"**

*Organized by*

University Institute of Engg. & Technology, M.D. University, Rohtak

**(ICSTS F - 2024)**

**February 7-8, 2024**

*Certificate*

Certified that Prof./Dr./Mr./Ms. *Surender Kumar* ..... of  
 ..... *Govt. College Julana, Jind, Haryana* ..... has  
 Attended/Presented Research Paper (Oral/Poster/Invited Talk/Chair  
 Session/Coordinator) entitled *Revolutionizing Textile Industry:-----*  
 ..... *Intelligent Functionalities in the "2<sup>nd</sup> International Conference*  
*of Indian Science Congress Association-Rohtak Chapter "Science &*  
*Technology for Sustainable Future" held at University Institute of*  
*Engg. & Technology, M.D. University, Rohtak on February 7-8, 2024.*

*Surender*  
 (Prof. S. P. Khatkar)

Convener, ICSTS F-2024,  
 Emeritus Scientist  
 Department of Chemistry

*Yashvir Singh*  
 (Prof. Yashvir Singh)

Director,  
 UIET,  
 M.D. University, Rohtak



# SHAHEED UDHAM SINGH GOVT. COLLEGE

(Affiliated to Kurukshetra University, Kurukshetra)

Matak Majri - Indri (Karnal)



## ONE DAY INTERNATIONAL CONFERENCE

ON

### IMPORTANCE OF EDUCATION TO DEVELOP SCIENTIFIC TEMPER (MULTIDISCIPLINARY)

*Sponsored by*

**DIRECTORATE OF HIGHER EDUCATION, PANCHKULA (HARYANA)**

*Organised by*

**DEPARTMENT OF CHEMISTRY**

**SHAHEED UDHAM SINGH GOVERNMENT COLLEGE, MATAK MAJRI - INDRI (KARNAL)**

*March 22, 2024*

### Certificate of Participation

*This is to certify that Prof./Dr./ Mr./Ms. Surender Kumar..... from  
Gaut. college, Julana (Jind)..... Chaired /Co-Chaired a session/ acted as  
Resource Person/ Participated/ Presented a paper titled Education Impact on Cultivating  
Scientific Mindsets: Addressing challenge and Seizing opportunities..... in One Day  
International Conference on March 22, 2024.*

*Spreeta  
Convener*

*[Signature]  
Principal*



# GOVT. COLLEGE JULANA (JIND)

Address: Karsola Road, Julana-126101  
Accredited by NAAC with B Grade (CGPA 2.46)  
(Affiliated to C.R.S. University, Jind)



## One Day Workshop on NAAC Awareness

### CERTIFICATE OF PARTICIPATION

This is to certify that

*Dr. Sanjay Kumar, Assistant Professor, Govt. College Julana (Jind)*

has participated in **One Day Workshop on NAAC Awareness** on **14 December 2023**  
organized by **Internal Quality Assurance Cell, Govt. College Julana (Jind), Hr.**

Dr. Surender Kumar  
Workshop Director

Sh. Abhishek Sharma  
Workshop Coordinator

Dr. Yashpal Singh  
Principal- cum- Chairman  
IQAC GC JULANA



## UGC-MALAVIYA MISSION TEACHER TRAINING CENTRE

(formerly known as UGC-Human Resource Development Centre)

## KURUKSHETRA UNIVERSITY KURUKSHETRA

(Established by the State Legislature Act XII of 1956)

('A+' Grade, NAAC Accredited)

**Sr. No. 1288**

### UGC-SPONSORED ONLINE MULTIDISCIPLINARY REFRESHER COURSE

### CERTIFICATE OF PARTICIPATION

This is to certify that **Dr. S.K. Chamar**, Assistant Professor of Geography, Govt. College, Julana (Jind) participated in the 2-Week Online Refresher Course in **Environment Challenges (MD)** (**An Initiative for Quality Enhancement in Teaching-Learning & Research**) from 15-01-2024 to 29-01-2024 and obtained Grade '**A**'.

Kurukshetra  
Dated: 29-01-2024

(Prof. S.P. Kaushik)  
Course Coordinator

(Prof. Preeti Jain)  
Director

(Prof. Sanjeev Sharma)  
Registrar





# DYAL SINGH COLLEGE, KARNAL

(Affiliated to Kurukshetra University, Kurukshetra)  
(NAAC Accredited Grade A+)

Indian Council of Social Science Research (NWRC), Chandigarh Sponsored  
Director General Higher Education, Haryana Approved

National Conference

&

23<sup>rd</sup> Association of Punjab Geographers Meet on  
Environment and Resource Management for Sustainable Future

(February 09-10, 2024)

## Certificate

This certificate is presented to Prof./<sup>✓</sup>Dr./Mr./Ms.

*SK Chaman*

of

*Government College Jularna Jind (Haryana)*

in recognition to the valuable contribution as

~~Chief Guest/ Guest of Honour/ Invited Speaker/~~  
~~Session Chairperson/ Co-Chairperson/ Special Invitee~~

Dr. Aditi Shreeya Bali  
(Organizing Secretary)

Dr. Tejpal  
(Convener)

Dr. Ashima Gakhar  
(Patron & Principal)





# The Deccan Geographical Society of India (DGSI) XVIII International Conference

(5<sup>th</sup> – 7<sup>th</sup> March, 2024)

Department of Geography, Osmania University, Hyderabad

Regd Id. 452 DGSI/OU/2024

## Certificate

This is to certify that Dr. / Mr./ Ms. Dr. S.K. CHAMAR of

Levels in Availability  
of Household Amenities & Assets among Scheduled Castes & Non-Scheduled castes groups in Rural Haryana.  
has participated and Presented paper on XVIII DGSI International  
Conference on “Urbanisation and Climate Change: Strategies for Sustainable Cities through Geospatial Technologies”

Organised by the Department of Geography, Osmania University, Hyderabad, Telangana State, during 5-7 March 2024.

  
Dr. Mohd Akhter Ali  
Organizing Secretary

  
Prof. B. C. Vaidya  
Secretary General, DGSI

  
Prof. Ashok Kumar Lonavath  
Convener & Chairman



क्षमता निर्माण आयोग  
मिशन कर्मयोगी

75  
आज़ादी का  
अमृत महोत्सव



# हरियाणा कर्मयोगी कार्यक्रम

प्रमाण पत्र

प्र. क्र. JIN-282089

यह प्रमाण पत्र विधिवत स्वीकार करने के लिए जारी किया जाता है कि श्री/श्रीमती/सुश्री **Dr.s.k. Chamar** ने मिशन कर्मयोगी के तहत हरियाणा कर्मयोगी कार्यक्रम को सफलतापूर्वक पूरा कर लिया है। हरियाणा कर्मयोगी के रूप में आपकी यात्रा के लिए हम शुभकामनाएँ देते हैं।

*Shrinivas V*

श्रीनिवास वेंकटराम,  
संस्थापक और नेतृत्वकर्ता, इल्युमिन



*चंद्रलेखा*

चंद्रलेखा मुखर्जी,  
महानिर्देशक, हिपा





क्षमता निर्माण आयोग  
मिशन कर्मयोगी

75  
आज़ादी का  
अमृत महोत्सव



# हरियाणा कर्मयोगी कार्यक्रम

प्रमाण पत्र

प्र. क्र. JIN-282061

यह प्रमाण पत्र विधिवत स्वीकार करने के लिए जारी किया जाता है कि श्री/श्रीमती/सुश्री **Dilbag** ने मिशन कर्मयोगी के तहत हरियाणा कर्मयोगी कार्यक्रम को सफलतापूर्वक पूरा कर लिया है। हरियाणा कर्मयोगी के रूप में आपकी यात्रा के लिए हम शुभकामनाएँ देते हैं।

*Shrinivas V*

श्रीनिवास वेंकटराम,  
संस्थापक और नेतृत्वकर्ता, इल्युमिन



*Chandrika*



चंद्रलेखा मुखर्जी,  
महानिर्देशक, हिपा



# NATIONAL SEMINAR



Organized by

Department of Political Science

**BPS INSTITUTE OF HIGHER LEARNING**

Bhagat Phool Singh Mahila Vishwavidyalaya, Khanpur Kalan, Sonapat

On

**“ CHANGING PATTERN OF LEADERSHIP IN INDIA ”**

March 5-6<sup>th</sup> ,2024

Sponsored by: Indian Council of Social Science Research, New Delhi

## Certificate

This is to certify that Dr./Mr./Ms. Jagbir Singh, Assistant prof. of

Government college, Julana

Participated

In the two day's National Seminar and presented a paper entitled “भारत में राजनीति का अपराधिकरण

रक्त गंगीर समस्या और समाधान”

Dr. Veena  
(Principal)

Dr. Rampal  
(Convener)



# NATIONAL SEMINAR



Organized by  
Department of Political Science  
**BPS INSTITUTE OF HIGHER LEARNING**

Bhagat Phool Singh Mahila Vishwavidyalaya, Khanpur Kalan, Sonapat

On

**“ CHANGING PATTERN OF LEADERSHIP IN INDIA ”**

March 5-6<sup>th</sup>, 2024

Sponsored by: Indian Council of Social Science Research, New Delhi

## Certificate

This is to certify that <sup>✓</sup>Dr./Mr./Ms. Mukesh Deshwal, Assistant prof. of

Government College Julana

Participated

In the two day's National Seminar and presented a paper entitled “भारत में राजनीति का अपराधिकरणः

एक गांधीय समस्या और समाधान”

Dr. Veena  
(Principal)

Dr. Rampal  
(Convener)



क्षमता निर्माण आयोग  
मिशन कर्मयोगी

75  
आज़ादी का  
अमृत महोत्सव



# हरियाणा कर्मयोगी कार्यक्रम

प्रमाण पत्र

प्र. क्र. JIN-282068

यह प्रमाण पत्र विधिवत स्वीकार करने के लिए जारी किया जाता है कि श्री/श्रीमती/सुश्री **Neha Mittal** ने मिशन कर्मयोगी के तहत हरियाणा कर्मयोगी कार्यक्रम को सफलतापूर्वक पूरा कर लिया है। हरियाणा कर्मयोगी के रूप में आपकी यात्रा के लिए हम शुभकामनाएँ देते हैं।

*Shrinivas V*

श्रीनिवास वेंकटराम,  
संस्थापक और नेतृत्वकर्ता, इल्युमिन



*चंद्रलेखा*



चंद्रलेखा मुखर्जी,  
महानिर्देशक, हिपा



# ARYA P.G. COLLEGE, PANIPAT



**(College with Potential for Excellence status by UGC)**

**International Conference (Multidisciplinary)**

on

**Sustainable Development Goals : Challenges & Strategies & Strategies**

**Approved by: Director General Higher Education, Haryana**

**organized by: P.G. Department of Economics, Commerce & Management,**

**Arya P.G. College, Panipat**

**in association with : Society for Pathways to Sustainability**



This is to certify that Dr./Mr./Ms. **NEHA MITTAL**, Assistant Professor of **GOVT COLLEGE, JULANA , JIND** Presented Paper on the topic **Green Fintech: A Sustainable Finance Approach for Environmental Conservation** in the conference organized by P.G. Department of Economics, Commerce and Management in association with Society for pathways to Sustainability on March 13-14, 2024.

**Dr. Jagdish Gupta**  
Principal cum Patron

**Dr. Satvir Singh**  
Conference Convener





Ph. : 01681-256263

Email : [hkmvjind@gmail.com](mailto:hkmvjind@gmail.com)

Website : [www.hkmvjind.com](http://www.hkmvjind.com)

# HINDU KANYA MAHAVIDYALAYA

Jind-126102 (HARYANA)

(Affiliated to C.R.S.U., Jind)

(A Post Graduate College Aided by Haryana Govt.)

Ref. No. ....5958.....

Dated .....05-12-2023.....

To  
Dr. Neha Mittal  
Assistant Prof. of Mathematics  
Govt. College  
Julana

Subject: Thanks Letter

Respected Madam,

It gives me immense pleasure to express my deep sense of gratitude towards you for acting as Resource Person in one day Extension Lecture on "Career in Mathematics" organized by Department of Mathematics and Career Counselling & Placement Cell, Hindu Kanya Mahavidyalaya, Jind on 5<sup>th</sup> December, 2023. The program becomes successful with your kind cooperation.

I do hope your cooperation and help in future too. We hope that your career is full of success and happiness.

Warm regards

*Sar  
Hinde*

Principal  
Hindu Kanya Mahavidyalaya  
Jind (Haryana)



Dr. Neha Mittal  
Assistant Professor in Mathematics.,  
Govt. College Julana,  
Jind, Haryana, India,-126101



Ref. No.: IAJESM/2023/OCT/002

Dated: 11/10/2023



**International Journal of  
Engineering, Science and  
Management (ISSN: 2393-8048)**

I A J E S M

### FORMAL LETTER FOR EDITORIAL BOARD MEMBER

**Dear Dr. Neha Mittal,**

We would like to take the pleasure to declare you as an Editorial Board Member on behalf of Science journal. Based on your eminence and expertise in the fields of Mathematical Sciences, the Editorial Office has decided to elect you as an Editorial Board member with a strong belief that your professionalism will be a great asset for the journal. As you are sitting on the most important throne of the journal, your active involvement and participation plays a crucial role to propel Science to great heights.

As the journal is open access, your valuable contribution is very essential for the journal. As an Editorial Board member, I hope you will meet all the criteria of Science. We heartily honour you with the prestigious position of Editorial Board member for Science.

Thank you!  
With Kind Regards,

#### **CONTACT**

PHONE:  
+91 98280 15814

WEBSITE:  
iajesm.in

EMAIL:  
[iajesm2014@gmail.com](mailto:iajesm2014@gmail.com)  
[2014.iajesm@gmail.com](mailto:2014.iajesm@gmail.com)

Dr. Aruna Nagpal,  
Proprietor,  
SEA, Sri Ganganagar

Dr. Ashwini Kumar Nagpal  
Chairperson  
IAJESM



# IJRTS TAKSHILA FOUNDATION

Company # RU80902HR2022NPL104244

## IJRTS Takshila Foundation

**Registered Office:** SCF# 10, Opposite DRDA, Near Gohana Road, Jind, Haryana-126102

**Corporate Office:** 71-75 Shelton Street, Covent Garden, London WC2H 9JQ ENGLAND

9468162387 | 9034020313 | 8818001872 | 9350893768

Ref. No: ijrts/bt/ne/23/72

Jind, dated 22.09.2023

To,

Dr. Neha Mittal d/o Smt. Sumitra Devi r/o 313, Housing Board Colony, Jind, Haryana, India

Referring to your letter relating to registration of publication(s) under ISBN system for the title(s) and allotted ISBN's numbers are as under:

### 1. Title: Current Trends in Statistics & Research

Chief Editor/ Author(s)	Dr. Neha Mittal
Edition	First
Volume	01
Month/Year of Publication	September, 2023
Book Version	PaperBack, Digital download
Product Composition	Multiple-component Retail Product
ISBN Number	978-81-964047-7-2
Subject	Multidisciplinary
Language	English/Hindi/Sanskrit
Imprint	IJRTS Publications
Copyright	Dr. Neha Mittal
ID Details	9781 0483 6360 (Aadhar Number)

### 2. Nil

You will be provided with a complimentary copy of each ISBN title under the imprint of IJRTS Publications.

Thanking you.

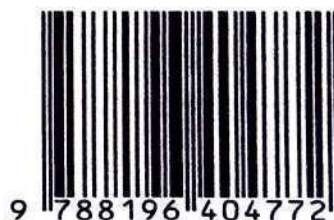
Yours faithfully,



Director, IJRTS Takshila Foundation



22 SEP 2023



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+91-946 8162 387

ijrts13@gmail.com

www.takshila.org.in

SCF#10, Mittal Complex, Opposite DRDA, Jind, Haryana



Teaching Learning Centre, Ramanujan College  
University of Delhi

(Accredited Grade 'A++' by NAAC)

In collaboration with

MAHARAJA SURAJMAL INSTITUTE

(Aff. to GGS Indraprastha University, Delhi)

Institute under the aegis of Surajmal Memorial Education Society (SMES, 1972)

Rated as Category 'A+' by SFRC & 'A' by JAC Govt. of NCT of Delhi

Approved by BCI & AICTE And Recognised U/s 2(f) of UGC Act

under the aegis of

MINISTRY OF EDUCATION

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



सत्यमेव जयते

Ministry of Education  
Government of India

This is to certify that

**Dr. Neha Mittal**

of

Department of Mathematics, Govt. College Julana, Jind, Haryana, India

has Successfully Completed online two - week Interdisciplinary Refresher Course in

**"ADVANCED RESEARCH METHODOLOGY"**

from 22 September – 06 October, 2023 and obtained

Grade A+.



Blockchain Hash: [0x87662016fd8be5d49cb86dbbafa2a86837bdc2ea6cf9281f45383bfcc196b0b](https://www.blockchain.com/transaction/0x87662016fd8be5d49cb86dbbafa2a86837bdc2ea6cf9281f45383bfcc196b0b)

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

Prof. (Dr.) Harish Singh  
(Director)  
Maharaja Surajmal Institute

Dr. Nikhil Kr. Rajput  
(Deputy Director)  
TLC, Ramanujan College



# GEOGRAPHICAL SOCIETY OF HIMACHAL PRADESH

(Registered under H.P. Societies Registration Act, 2006)

## Membership Certificate

*This certificate of Membership is granted to*

Vijender Kumar (Assistant Professor)

*who has been admitted as the life member/student Member of Geographical Society of Himachal Pradesh*

*on 17/04/2024 in the presence of following office bearers of the society.*

(Dr. B. R. Thakur)  
Secretary General

(Prof. D. D. Sharma)  
President

Membership No. L- 221



क्षमता निर्माण आयोग  
मिशन कर्मयोगी

75  
आज़ादी का  
अमृत महोत्सव



# हरियाणा कर्मयोगी कार्यक्रम

प्रमाण पत्र

प्र. क्र. JIN-282081

यह प्रमाण पत्र विधिवत स्वीकार करने के लिए जारी किया जाता है कि श्री/श्रीमती/सुश्री **Vijender Kumar** ने मिशन कर्मयोगी के तहत हरियाणा कर्मयोगी कार्यक्रम को सफलतापूर्वक पूरा कर लिया है। हरियाणा कर्मयोगी के रूप में आपकी यात्रा के लिए हम शुभकामनाएँ देते हैं।

*Shrinivas V*

श्रीनिवास वेंकटराम,  
संस्थापक और नेतृत्वकर्ता, इल्युमिन



*चंद्रलेखा*

चंद्रलेखा मुखर्जी,  
महानिर्देशक, हिपा



0/140



# BABA MASTNATH UNIVERSITY

Asthal Bohar, Rohtak



## International Seminar

on

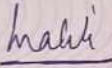
## INDIA AND THE CHANGING WORLD

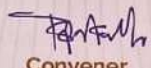
### Certificate

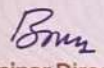
This is to certify that Dr./ Mr./ Ms. Vijender Kumar, Research Scholar  
participated/presented paper entitled Crime against Women in Haryana

in the International Seminar organized by Faculty of Humanities, Baba Mastnath University, Rohtak on 24 July, 2023

Organized By : IQAC & Faculty of Humanities

  
Organizing Secretary  
Prof. Sudhir Malik

  
Convener  
Prof. B. Parkash

  
Seminar Director  
Prof. B. M. Yadav



## INTERNATIONAL SEMINAR MAY 21, 2024

Postgraduate College, Lead City University Ibadan, Nigeria

International Council for Education, Research and Training (ICERT)

UN and UNESCO World Day for Cultural Diversity for Dialogue and Development

Diversity & Inclusion: Driving force to Innovation for Sustainable Development

### Certificate of Participation

This is to certify that **VIJENDER KUMAR**, Assistant professor, Govt College Julana Jind Haryana, **India** has actively participated in the One-Day International Seminar on **UN and UNESCO World Day for Cultural Diversity for Dialogue and Development** on “**Diversity & Inclusion: Driving force to Innovation for Sustainable Development**” on **May 21, 2024**, jointly organized by Postgraduate College, Lead City University Ibadan, Nigeria, International Council for Education, Research and Training (ICERT)

Certificate No. ICERT/WDC/240521/1739

Date of Issue: Jun 5, 2024

Dr. S.K. Singhmar  
Chairman ICERT

Professor Kabiru Aderemi ADEYEMO,  
Vice Chancellor, Lead City University  
Nigeria



Dr. Naunet Kaur  
Director and Head, Education Division,  
ICERT

Prof. Afolakeini Olasumbo OREDEIN,  
Provost, Postgraduate College  
Lead City University,  
Ibadan, Nigeria

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Write us at: [seminars@icert.org.in](mailto:seminars@icert.org.in)



# Geographical Society of Himachal Pradesh (GSHP)

Department of Geography, Himachal Pradesh University  
Summerhill, Shimla-171005

(Registered Under Societies Registration Act No. 25 of 2006)

221

## RECEIPT

No. ....

Date 17/04/24

Received with thanks from Prof./Dr./Ms./Mr. ✓ Vijender Kumar

the sum of Rupees Twenty five Hundred Only

on account of Founder Member-cum-Life/Life/Ordinary ✓ (Annual)/Student (Annual)/

Honorary/Institutional Membership through Cash/online ✓ under Transaction

No. 410817284406 of the society.

Rs. 2500/-

General Secretary  
FINANCE SECRETARY Vishwavidyalaya  
Geographical Society of Himachal Pradesh  
Department of Geography  
Himachal Pradesh University Shimla-05  
19/04/24



कर्मयोगी कार्यक्रम  
मिशन कर्मयोगी

75  
आजादी का  
अमृत महोत्सव



## हरियाणा कर्मयोगी कार्यक्रम

प्रमाण पत्र

प्र. क्र. JIN-279273

यह प्रमाण पत्र विधिवत स्वीकार करने के लिए जारी किया जाता है कि **श्री/श्रीमती/सुश्री Neeraj Dhania** ने मिशन कर्मयोगी के तहत हरियाणा कर्मयोगी कार्यक्रम को सफलतापूर्वक पूरा कर लिया है। हरियाणा कर्मयोगी के रूप में आपकी यात्रा के लिए हम शुभकामनाएँ देते हैं।

*Devivras*

धीनवास वेंकटराम,  
संस्थापक और नेतृत्वकर्ता, इन्फुमिन



*43*



चंद्रलेखा मुखर्जी,  
महानिदेशक, त्रिया

**UGC-Approved Short-Term Professional Development Programme**  
Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching

This is to certify that

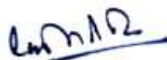
**SUSHIL KUMAR**

**GOVERNMENT COLLEGE JULANA**

participated in and successfully completed the  
Professional Development Programme on  
'Implementation of NEP-2020 for University and  
College Teachers'

*held from 8-16 May, 2023*

*and obtained 'B' Grade*



**Prof. Santosh Panda**  
Director, STRIDE &  
Coordinator of NEP-PDP Committee,  
Indira Gandhi National Open University

New Delhi  
Date of Issue: May 25, 2023



**Prof. Uma Kanjilal**  
Pro-Vice Chancellor  
Indira Gandhi National Open University



क्षमता निर्माण आयोग  
मिशन कर्मयोगी

75  
आज़ादी का  
अमृत महोत्सव



# हरियाणा कर्मयोगी कार्यक्रम

प्रमाण पत्र

प्र. क्र. JIN-279234

यह प्रमाण पत्र विधिवत स्वीकार करने के लिए जारी किया जाता है कि श्री/श्रीमती/सुश्री **Sonia** ने मिशन कर्मयोगी के तहत हरियाणा कर्मयोगी कार्यक्रम को सफलतापूर्वक पूरा कर लिया है। हरियाणा कर्मयोगी के रूप में आपकी यात्रा के लिए हम शुभकामनाएँ देते हैं।

*Shrinivas V*

श्रीनिवास वेंकटराम,  
संस्थापक और नेतृत्वकर्ता, इल्युमिन



*चंद्रलेखा*

चंद्रलेखा मुखर्जी,  
महानिर्देशक, हिपा



162

Sr. No. VCR/ETBAS/.....



Directorate of Higher Education, Haryana Approved

## Online Multi Disciplinary National Seminar

on

### Emerging Trends in Basic & Applied Sciences (ETBAS-2024)

April 24, 2024

Organized By

Faculty of Sciences & IQAC

**VAISH COLLEGE, ROHTAK**

(Affiliated to M. D. University, Rohtak)



Certified that Dr./Mr./Mrs./ **Dr Nishu Gupta, Assistant Professor**

of Govt. College Julana

Participated in One Day Online Multi Disciplinary National Seminar on **Emerging Trends in Basic & Applied Sciences**

**(ETBAS-2024)** on April 24, 2024 and presented a paper titled :- An Overview of Iterative Techniques in Fixed Point

Theory

**DR. VIRENDER KHURANA**  
Organizing Secretary

**DR. DINESH RANI BANSAL**  
Convener

**DR. MONIKA GUPTA**  
Convener

**DR. PHOOL SINGH YADAV**  
Co-ordinator

**DR. SANJAY GUPTA**  
Patron & Principal



In Honor  
of

Srinivasa Ramanujan's Birthday

## International Conference

Sponsored by  
HSCSIT-DST

on

**Application of Mathematics in Physical Sciences,  
Social Sciences and Engineering - 2023**

19-20 January, 2024

# CERTIFICATE

This is to certify that Prof./Dr./Mr./Ms.

Nishu Gupta (Assistant Professor) of

Dept. of Mathematics, Govt. College, Julana

has participated/ contributed as /delivered talk /chaired session /presented

a research paper entitled Variational Inequality

Problem Involving Pseudomonotone Operators

Organized by

Department of Mathematics

In collaboration with

Department of ICT

**Chaudhary Bansi Lal University**

(A State University established under Haryana Act No. 25 of 2014) (Recognized u/s 2(f) & 12B of the UGC Act. 1956)

**Prem Nagar, Bhiwani - 127031, Haryana, INDIA**

ID ICAM-167

  
Dr. Vinod Kumar  
Organizing Secretary

  
Prof. Dinesh K. Madan  
Convener



*Two days National Conference*

*On*

Sr. No. 8.

**Research and Innovation in Sciences & Social Sciences  
( NCRISSS – 2024 )**

*April 20-21, 2024*

*Organized by: Pt. NRS Government College, Rohtak – 124001, Haryana, India*

*In Collaboration with*

*Chamber of Research and Innovation India and Akhil Bhartiya Rastriya Shaikshik Mahasangh, Haryana*

**CERTIFICATE**

Certified that Prof. / Dr. / Mr. / Ms. Nishu Gupta of

Dept. of Mathematics, Govt. College, Jalandhar Chaired the Session / Delivered

Invited talk / participated / Presented the paper Entitled Strong Convergence of Multiple - Sets Split Equality Common Fixed Point Problems in NCRISSS-2024.

*Lokesh*  
(Dr. Lokesh Balhara)  
Patron / Principal

*Amir*  
(Dr. R.K. Dahiya and Dr. Parvesh Kumar)  
Convenor



निकटित भारत  
अभिव्यक्त

# GURUGRAM UNIVERSITY, GURUGRAM

(A State Govt. University Established under Haryana Act 17 of 2017)

## DEPARTMENT OF MATHEMATICS

organises

## NATIONAL SEMINAR

on

# "Recent Developments in Mathematical Sciences and Applications"

(NSRDMSA - 2024)

## Certificate of Participation

This is to certify that Dr./Ms./Mr. *Nishu Gupta* from *Government College  
Jalana, Jind* has participated and presented a Paper (Oral/Poster) entitled *Convergence Analysis --  
Paint Problems* in the National Seminar on "Recent Developments in Mathematical Sciences and Applications"  
held on 1<sup>st</sup> March, 2024 at Department of Mathematics, Gurugram University, Gurugram, Haryana.

Convener

**Prof. Renu Chugh**

Department of Mathematics,  
Gurugram University, Gurugram

Chairperson

**Prof. Mohd. Rafique**

Department of Mathematics,  
Gurugram University, Gurugram





**MAHARSHI DAYANAND UNIVERSITY, ROHTAK**

(A State University established under Haryana Act No. 25 of 1975)

NAAC Accredited 'A+' Grade University



**2<sup>nd</sup> INTERNATIONAL CONFERENCE OF INDIAN SCIENCE CONGRESS ASSOCIATION-ROHTAK CHAPTER**  
**ON**  
**"SCIENCE & TECHNOLOGY FOR SUSTAINABLE FUTURE"**

Organized by  
 University Institute of Engg. & Technology, M.D. University, Rohtak  
**(ICSTSIF - 2024)**

**February 7-8, 2024**

*Certificate*

Certified that Prof./Dr./Mr./Ms. .... *Sahil* ..... of  
 ..... *Govt. College Julana, Jind, Haryana* ..... has  
 Attended/Presented Research Paper (Oral/Poster/Invited Talk/Chair  
 Session/Coordinator) entitled *Nano-Technology in Grain Storage*.....  
 ..... *Insect Pests* ..... in the "2<sup>nd</sup> International Conference  
 of Indian Science Congress Association-Rohtak Chapter "Science &  
 Technology for Sustainable Future" held at University Institute of  
 Engg. & Technology, M.D. University, Rohtak on February 7-8, 2024.

*S. P. Khatkar*  
 (Prof. S. P. Khatkar)

Convener: ICSTSIF-2024,  
 Emeritus Scientist  
 Department of Chemistry

*V. Singh*  
 (Prof. Vadhvir Singh)

Director,  
 UIET,  
 M.D. University, Rohtak



सत्यमेव जयते

Government of India

**MALAVIYA MISSION**  
**TEACHER**  
**TRAINING PROGRAMME**

**CERTIFICATE OF PARTICIPATION**



ज्ञान-विज्ञान विमुक्तये

University Grants Commission

**NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME**

This is to certify that Mr. Sahil, Assistant Professor, Department of Chemistry from Govt. College, Julana(Jind) Affiliated to CRSU, Jind has completed Online NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Malaviya Mission Teacher Training Centre (MM-TTC), Bhagat Phool Singh Mahila Vishwavidyalaya, Sonipat, Haryana, from 01 March 2024 to 07 March 2024.

Ref No. BPSMV/MMTTC/2024/530

Director/Coordinator (MM-TTC)



# SHAHEED UDHAM SINGH GOVT. COLLEGE

(Affiliated to Kurukshetra University, Kurukshetra)

Matak Majri - Indri (Karnal)



## ONE DAY INTERNATIONAL CONFERENCE

on

### IMPORTANCE OF EDUCATION TO DEVELOP SCIENTIFIC TEMPER (MULTIDISCIPLINARY)

Sponsored by

DIRECTORATE OF HIGHER EDUCATION, PANCHKULA (HARYANA)

Organised by

DEPARTMENT OF CHEMISTRY

SHAHEED UDHAM SINGH GOVERNMENT COLLEGE, MATAK MAJRI - INDRI (KARNAL)

March 22, 2024

### Certificate of Participation

This is to certify that Prof./Dr./ Mr./Ms. Sahil..... from  
Savitri college...Tulana...Tind...affiliated to CRSU...Tind... Chaired /Co-Chaired a session/ acted as  
Resource Person/ Participated/ Presented a paper titled Addressing... Misconceptions... and Biases...  
in Science... Education..... in One Day  
International Conference on March 22, 2024.

*S. Dwivedi*  
Convener

*[Signature]*  
Principal



Government Of India



ज्ञान-विज्ञान विमुक्तये  
University Grants Commission

## CERTIFICATE OF PARTICIPATION

### NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

This is to certify that **Sahil, Assistant Professor** from **Govt. College, Julana (Jind)** has completed the NEP 2020 Orientation & Sensitization Programme on *Research and Development* under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by the University of North Bengal from January 10, 2024 to January 18, 2024.

Date: 18/01/2024

Place: UGC-MM-TTC, University of North Bengal.

(Prof. Anjan Chakrabarti)

Professor - Director, (MM-TTC)



क्षमता निर्माण आयोग  
मिशन कर्मयोगी

75  
आज़ादी का  
अमृत महोत्सव



# हरियाणा कर्मयोगी कार्यक्रम

प्रमाण पत्र

प्र. क्र. JIN-282113

यह प्रमाण पत्र विधिवत स्वीकार करने के लिए जारी किया जाता है कि **श्री/श्रीमती/सुश्री Sahil** ने मिशन कर्मयोगी के तहत हरियाणा कर्मयोगी कार्यक्रम को सफलतापूर्वक पूरा कर लिया है। हरियाणा कर्मयोगी के रूप में आपकी यात्रा के लिए हम शुभकामनाएँ देते हैं।

*Shrinivas V*

श्रीनिवास वेंकटराम,  
संस्थापक और नेतृत्वकर्ता, इल्युमिन



*चंद्रलेखा*

चंद्रलेखा मुखर्जी,  
महानिर्देशक, हिपा





सत्यमेव जयते

Government of India

**MALAVIYA MISSION**  
**TEACHER**  
**TRAINING PROGRAMME**

**CERTIFICATE OF PARTICIPATION**



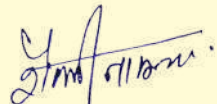
ज्ञान-विज्ञान विमुक्तये

University Grants Commission

**NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME**

This is to certify that Sh. Abhishek Sharma , Assistant Professor , Department of Chemistry from Govt. College Julana (Jind) Affiliated to Chaudhary Ranbir Singh University has completed Online NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Malaviya Mission Teacher Training Centre (MM-TTC), Bhagat Phool Singh Mahila Vishwavidyalaya, Sonipat, Haryana, from 01 March 2024 to 07 March 2024.

Ref No. BPSMV/MMTTC/2024/534

  
Director/Coordinator (MM-TTC)



सत्यमेव जयते  
Government Of India



ज्ञान-विज्ञान विमुक्तये  
University Grants Commission

## CERTIFICATE OF PARTICIPATION

### NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

This is to certify that **Abhishek Sharma** , **Assistant Professor** from **Govt College Julana (Jind)** has completed the NEP 2020 Orientation & Sensitization Programme on *Research and Development* under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by the University of North Bengal from January 10, 2024 to January 18, 2024.

Date: 18/01/2024

Place: UGC-MM-TTC, University of North Bengal.

(Prof. Anjan Chakrabarti)  
Professor - Director, (MM-TTC)



# SHAHEED UDHAM SINGH GOVT. COLLEGE

(Affiliated to Kurukshetra University, Kurukshetra)

Matak Majri - Indri (Karnal)



## ONE DAY INTERNATIONAL CONFERENCE

on

### IMPORTANCE OF EDUCATION TO DEVELOP SCIENTIFIC TEMPER (MULTIDISCIPLINARY)

*Sponsored by*

**DIRECTORATE OF HIGHER EDUCATION, PANCHKULA (HARYANA)**

*Organised by*

**DEPARTMENT OF CHEMISTRY**

**SHAHEED UDHAM SINGH GOVERNMENT COLLEGE, MATAK MAJRI - INDRI (KARNAL)**

*March 22, 2024*

## Certificate of Participation

This is to certify that Prof./Dr./ Mr./Ms. .... Abhishek Sharma ..... from  
..... Govt. College Julana (Jind) ..... Chaired /Co-Chaired a session/ acted as  
Resource Person/ Participated/ Presented a paper titled .... Measuring and Assessing Scientific  
..... Temper: Tools, Methods, and Challenges ..... in One Day  
International Conference on March 22, 2024.

*Sonia*  
Convener

*Principal*





क्षमता निर्माण आयोग  
मिशन कर्मयोगी

75  
आज़ादी का  
अमृत महोत्सव



# हरियाणा कर्मयोगी कार्यक्रम

प्रमाण पत्र

प्र. क्र. JIN-279245

यह प्रमाण पत्र विधिवत स्वीकार करने के लिए जारी किया जाता है कि **श्री/श्रीमती/सुश्री Abhishek Sharma** ने मिशन कर्मयोगी के तहत हरियाणा कर्मयोगी कार्यक्रम को सफलतापूर्वक पूरा कर लिया है। हरियाणा कर्मयोगी के रूप में आपकी यात्रा के लिए हम शुभकामनाएँ देते हैं।

*Shrinivas V*

श्रीनिवास वेंकटराम,  
संस्थापक और नेतृत्वकर्ता, इल्युमिन



*चंद्रलेखा*

चंद्रलेखा मुखर्जी,  
महानिर्देशक, हिपा





UGC-MALAVIYA MISSION TEACHER TRAINING CENTRE  
(formerly known as Human Resource Development Centre)  
**KURUKSHETRA UNIVERSITY KURUKSHETRA**  
(Established by the State Legislature Act XII of 1956)  
(‘A+’ Grade, NAAC Accredited)



**PROF. PREETY JAIN**  
**DIRECTOR**

Tel : Off: 01744-238472, 238814  
Intercom : 2518, 2519  
E-mail : ugcasc\_kuk@yahoo.co.in  
asc@kuk.ac.in

No.-MMTTC/I/RC/24/581-613  
Dated: 04-01-2024

**List of 33 participants is attached herewith.**

**Subject : 2-week Online Multidisciplinary Refresher Course in Environment Challenges  
(An Initiative for Quality Enhancement in Teaching-Learning & Research).**

Dear Applicants,

I am pleased to inform you that you have been selected for participation in the 2-week Online Multidisciplinary Refresher Course in Environment Challenges (An Initiative for Quality Enhancement in Teaching-Learning & Research) to be organized under the UGC scheme from 15-01-2024 to 29-01-2024 by UGC-Malaviya Mission Teacher Training Centre, K.U. Kurukshetra.

You are required to pay an admission fee (non-refundable) of Rs. 1000/- (Rupees One Thousand only) in the shape of Bank Draft payable at Kurukshetra in the name of the Registrar, Kurukshetra University, Kurukshetra. A scanned copy of the Bank Draft alongwith the Relieving/NOC through e-mail ([seminarhrdc@kuk.ac.in](mailto:seminarhrdc@kuk.ac.in)) should be sent to this office latest by 15-01-2024 failing which it will be presumed that you are not interested in attending the course. The hard copy of the Bank Draft alongwith Relieving/NOC should be sent to this office latest by 20-01-2024 addressed to Director, Malaviya Mission Teacher Training Centre (HRDC), K.U. Kurukshetra-136119.

As per directions of UGC, performance of the participants in the course will be assessed. Those teachers who get ‘F’ grade are required to repeat the programme after a gap of one year without any financial commitment of the UGC-MMTTC. The grades will be indicated on the certificate to be given to the participants. **As per University Grants Commission notification, the participants will be treated ON DUTY and not on duty leave.**

**The course will be conducted through online mode of delivery. The Link for joining the course will be sent by mail shortly.** You are directed to join the course at 09:30 AM on 15-01-2024 on this link. As per latest guidelines, the teachers would be required to present one seminar paper during the course. The time and date of presentation shall be notified during the course. In case of any default by the applicant, the Director has all the rights reserved to cancel the admission to the course. The teachers will not be given any type of leave during the course. Only those who attend full two week programme will be given a certificate.

**Wishing you all the best.**

Yours sincerely

  
DIRECTOR

LIST OF PARTICIPANTS WHO APPLIED FOR PARTICIPATION IN 2-WEEK ONLINE  
MULTIDISCIPLINARY REFRESHER COURSE IN ENVIRONMENT CHALLENGES

(An Initiative for Quality Enhancement in Teaching-Learning & Research)

TO BE HELD FROM 15-01-2024 TO 29-01-2024

1. Dr. (Ms) Pooja Arora, Assistant Professor, Institute of Environmental Studies, Kurukshetra University, Kurukshetra
2. Dr. (Ms) Dipti, Assistant Professor, Institute of Environmental Studies, Kurukshetra University, Kurukshetra
3. Dr. (Ms) Bhawna Dahiya, Assistant Professor, Institute of Environmental Studies, Kurukshetra University, Kurukshetra
4. Dr. Sandeep Kumar, Assistant Professor of Geography, Institute of Integrated and Honors Studies, Kurukshetra University, Kurukshetra
5. Dr. Ravinder Jangra, Assistant Professor, Department of Geography, Kurukshetra University, Kurukshetra
6. Dr. Abhishek Kumar, Assistant Professor of Computer Science, S.A. Jain College, Ambala City
7. Dr. Jasvinder Singh, Assistant Professor of Punjabi, D.A.V. College, Cheeka (Kaithal)
8. Dr. Ram Juwari, Assistant Professor of Geography, Shri Kapil Muni Govt. College for Women, Kalayat (Kaithal)
9. Dr. S.K. Chamar, Assistant Professor of Geography, Govt. College, Julana (Jind)
10. Dr. Sandeep Dhundhara, Assistant Professor of Electrical Engineering, Department of Basic Engineering, College of Agricultural Engineering & Technology (COAE&T) CCS Haryana Agricultural University, Hisar
11. Mrs. Manju Shamra, Assistant Professor of Geography, Dayanand College, Hisar
12. Mrs. Priyanka Shandilya, Assistant Professor of Geology, Pt. Neki Ram Sharma Govt. College Rohtak
13. Ms Aruna, Assistant Professor of Geography, Pt. N.R.S. Govt. College, Rohtak
14. Dr. Sanjay Deswal, Assistant Professor of Geography, Govt. College, Chhara (Jhajjar)
15. Dr. Neeraj Yadav, Assistant Professor of Geography, Govt. College, Chhilro (Mahendergarh)
16. Dr. (Ms) Seema, Assistant Professor of Geography, Govt. College, Chhilro (Mahendergarh)
17. Dr. Pushpinder Kaur Mann, Assistant Professor, University Institute of Legal Studies, Panjab University, Chandigarh
18. Dr. (Ms) Meenu Saihpal, University Institute of Legal Studies, Panjab University, Chandigarh
19. Mr. Rajeev Kumar, Assistant Professor of Geography, TJCM Govt. College, Sujampur (H.P.)
20. Mr. Naresh Kumar, Assistant Professor of Commerce, Govt. College, Hamirpur (H.P.)
21. Dr. Narender Kumar, Assistant Professor, Department of Management Studies, Kumaun University Nainital (Uk)
22. Mrs. Chesfeeda Akhter, Assistant Professor of Botany, Govt. Degree College, Sopore, Dist. Baramulla (J&K)
23. Ms Nisha Kumari, Librarian, Govt. Degree College, R.S. Pura (J&K)
24. Dr. Naseer Ahmad Dar, Assistant Professor of Environmental Science, M.G. Degree College, Charari Sharief (J&K)
25. Dr. Kuldeep, Assistant Professor, Department of Education, Suresh Gyan Vihar University, Jaipur (Raj.)
26. Mr. Sedu Ram Rawat, Assistant Professor of Geography, Govt. P.G. College Viratnagar, Dist. Jaipur (Raj.)
27. Dr. Ranjitsinh Balvantsinh Rathod, Assistant Professor of Physical Education, Y S Arts And K S Shah Commerce College Devgadhbhari Dist-Dahod (Gujarat)
28. Dr. Jayvardhan Vithalrao Balkhande, Assistant Professor of Zoology, Digambarrao Bindu Arts, Commerce & Science College, Bhokar Dist Nanded (M.S.)
29. Dr. Jadhav Pragati Shankar, Assistant Professor of Physics, R. B. Narayanrao Borawake College, Shrirampur (M.S.)



**UNIVERSITY GRANTS COMMISSION**  
**MALAVIYA MISSION TEACHER TRAINING CENTRE**

(Erstwhile Human Resource Development Centre)

UNIVERSITY OF NORTH BENGAL

ORGANIZES

**NEP ORIENTATION & SENSITIZATION PROGRAMME**

on

**Research and Development**

**FROM 10<sup>th</sup> JANUARY 2024 TO 17<sup>th</sup> JANUARY 2024 (ONLINE)**



**Course Schedule:**

**Timings: 2:30 pm-4:00 pm & 4:00 pm-5:30 pm**

**Session 1: 10-01-24**

**Session 5: 15-01-24**

**Session 2: 11-01-24**

**Session 6: 16-01-24**

**Session 3: 12-01-24**

**Session 7: 17-01-24**

**Session 4: 13-01-24**

Members of the faculty of Colleges / Universities, Professors, Associate Professors, and Assistant Professors (Govt. / Govt. Aided & Private) shall participate. No registration fees are to be paid. This course will be considered for CAS as per UGC regulations.

clicking on the link <https://mmc.ugc.ac.in> as "University of North Bengal" and Training Program ID- **MMC-109-2024-JAN-A-00868**. Please upload your Nomination Letter, ID Card and Photo to the UGC portal.

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# Exploring NEP 2020: Anticipations, Challenges and Actualities

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# 3

## Community Engagement: Stakeholder Participation in Education

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### Abstract

Community engagement in education is fundamental for fostering inclusive and empowering learning environments. This chapter delves into the significance, challenges, and transformative potential of stakeholder participation in education. It explores the dynamic role of communities in shaping educational experiences, identifies key stakeholders, and showcases successful models of community engagement through case studies. Despite facing challenges such as resource disparities and communication barriers, strategies for overcoming these obstacles are proposed, emphasizing the importance of trust-building and equity-centered approaches. Looking toward the future, the chapter highlights the potential of technology and innovation to enhance community engagement in education, offering opportunities for broader collaboration and participation among stakeholders. By embracing inclusive practices and leveraging technological advancements, educational institutions can cultivate thriving learning communities and foster equitable educational outcomes for all learners.

**Keywords:** NEP 2020, Stakeholders, Community Engagement, Technical Innovations.

### Introduction

Community engagement is a vital component of education, connecting learners, educators, and society. Throughout this chapter, we've explored its profound impact and diverse dimensions. It embodies inclusivity, shared responsibility, and

# Bismuth Vanadate and 3D Graphene Composite Photoanodes for Enhanced Photoelectrochemical Oxidation of Water

Abhishek Sharma, Sudipa Manna, Sriram Kumar, and Ashis Kumar Satpati\*

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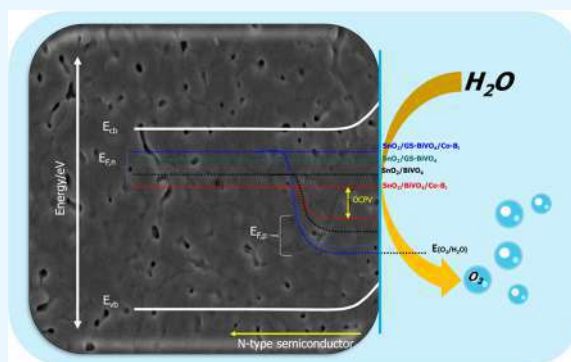


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**ABSTRACT:** Bismuth vanadate ( $\text{BiVO}_4$ ) has been one of the most promising photoanodes for the photoelectrochemical (PEC) water oxidation process. Efforts are still on to overcome the drawbacks of this photoanode to enhance the catalytic efficiency and improve the stability. In the present work, three-dimensional graphene (3D-G) was incorporated inside the  $\text{BiVO}_4$  matrix, primarily to improve the conductivity of the material. The photoanodes are fabricated with the incorporation of a  $\text{SnO}_2$  heterojunction and application of cobalt borate ( $\text{Co-B}_1$ ) as a cocatalyst. The incorporation of 3D-G has enhanced the photocurrent from 0.72 to 1.21  $\text{mA cm}^{-2}$  in  $\text{ITO}/\text{SnO}_2/\text{BiVO}_4$  and  $\text{ITO}/\text{SnO}_2/3\text{D-G-BiVO}_4$  materials; the photocurrent has been improved from 0.89 to 1.52  $\text{mA cm}^{-2}$  in  $\text{ITO}/\text{SnO}_2/\text{BiVO}_4/\text{Co-B}_1$  and  $\text{ITO}/\text{SnO}_2/3\text{D-G-BiVO}_4$ . Semiconductor properties are evaluated from the Mott-Schottky measurements, and the charge transfer and transport kinetics of the PEC process are measured from several photoelectrochemical investigations. Both the charge transport and the charge transfer efficiencies are enhanced upon inclusion of 3D-G into the catalyst system. The lifetime of the charge carrier is observed to be increased. The decrease in the decay kinetics of the holes, enhancement in the open-circuit photovoltage (OCPV), and the resulting modulation of the surface states are responsible for the enhancement in the surface charge transfer process due to the inclusion of 3D-G into the catalytic system. Therefore, the additional role of 3D-G in the modulation of the surface states and release of the Fermi level pinning has made the band alignment between the semiconductor and the analyte better, which resulted in enhanced catalytic performance in the photoelectrochemical oxidation of water.



## 1. INTRODUCTION

Generation of hydrogen using solar energy is one of the promising routes to harvest solar energy for sustainable utilization of renewable energy. The photoelectrochemical (PEC) splitting of water using solar light is the most promising route to harvest solar energy for sustainable energy generation with zero carbon footprints.<sup>1</sup> The overall water splitting reaction through the PEC route has the anodic process; the oxygen evolution reaction (OER) and the cathodic process; and the hydrogen evolution reaction (HER). However, the sluggish kinetics through complicated pathways makes the oxygen evolution reaction the rate-limiting step of the overall water splitting process. The development of an efficient photoanode for sustainable oxidation of water is therefore the most challenging in the overall PEC water splitting. The important photoanode materials that have been investigated over the years are  $\text{TiO}_2$ ,  $\text{WO}_3$ ,  $\alpha\text{-Fe}_2\text{O}_3$ , and  $\text{BiVO}_4$ ,<sup>2–6</sup> and most of these materials are not so expensive for practical utilizations. Among them,  $\text{BiVO}_4$  has been extremely promising due to some of the important parameters such as band gap  $\sim 2.4$  eV, favorable band position, photoelectrochemical stability in aqueous solution, earth abundance, and nontoxicity with a high theoretical efficiency of 7.5  $\text{mA cm}^{-2}$

under AM 1.5 G illuminations.<sup>7</sup> However, the experimentally observed solar to hydrogen (STH) conversion efficiency of the bare  $\text{BiVO}_4$  is only 5.2%; such lowering of experimental efficiency arises mainly due to the slow surface kinetics, poor hole diffusion, and fast charge recombination.<sup>8–13</sup>

Several strategies have been adopted to enhance the experimental STH efficiency, which include heterojunction formation,<sup>14–18</sup> heteroatom doping,<sup>6,19,20</sup> creation of oxygen vacancies,<sup>21,22</sup> band engineering,<sup>20,23–26</sup> crystal facet engineering,<sup>27–29</sup> and nanostructure control;<sup>30</sup> all these processes are essentially aimed at enhancing the transport of the photo-generated holes from the bulk of the material to the interface. Heterojunction formation with suitable band positions has a specific role in transporting the majority carriers toward the sink through the generation of low-energy pathways, which

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