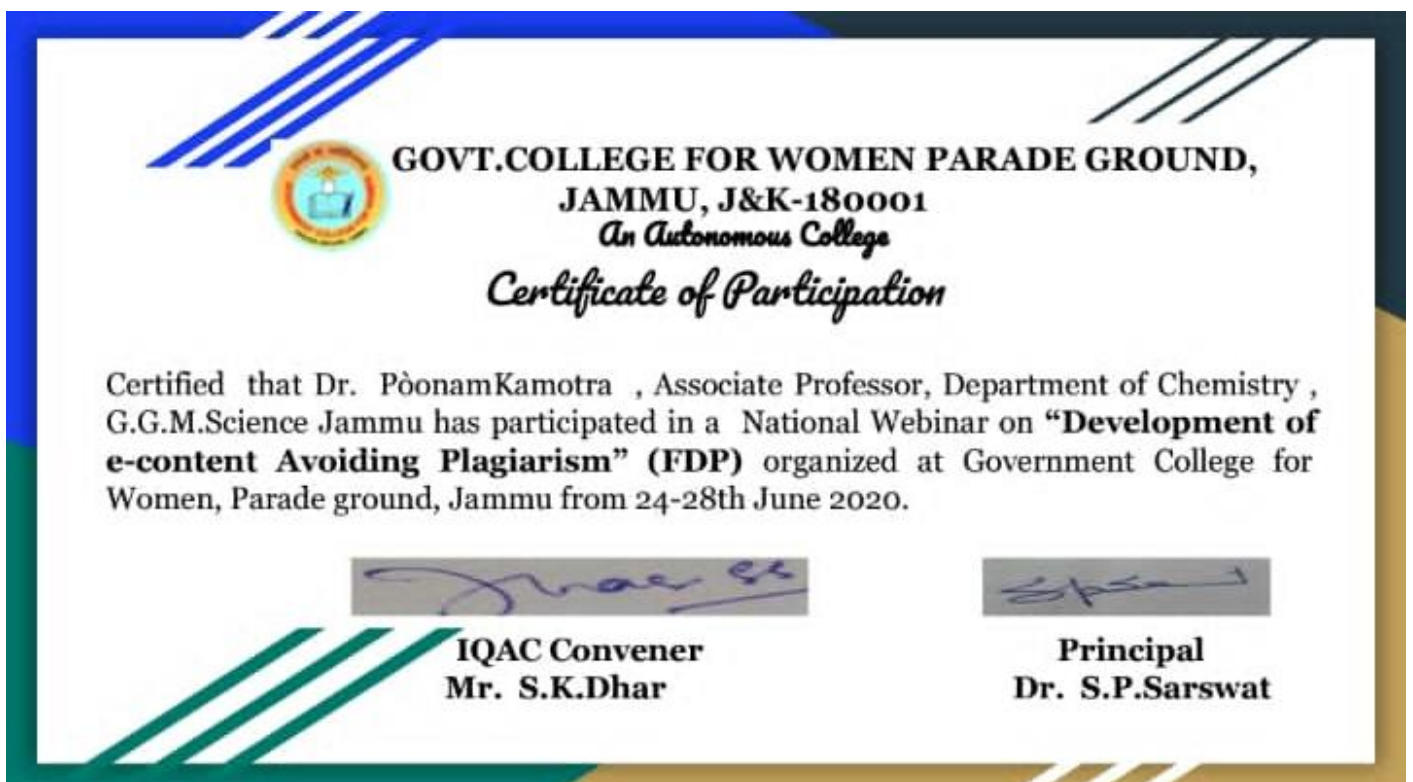
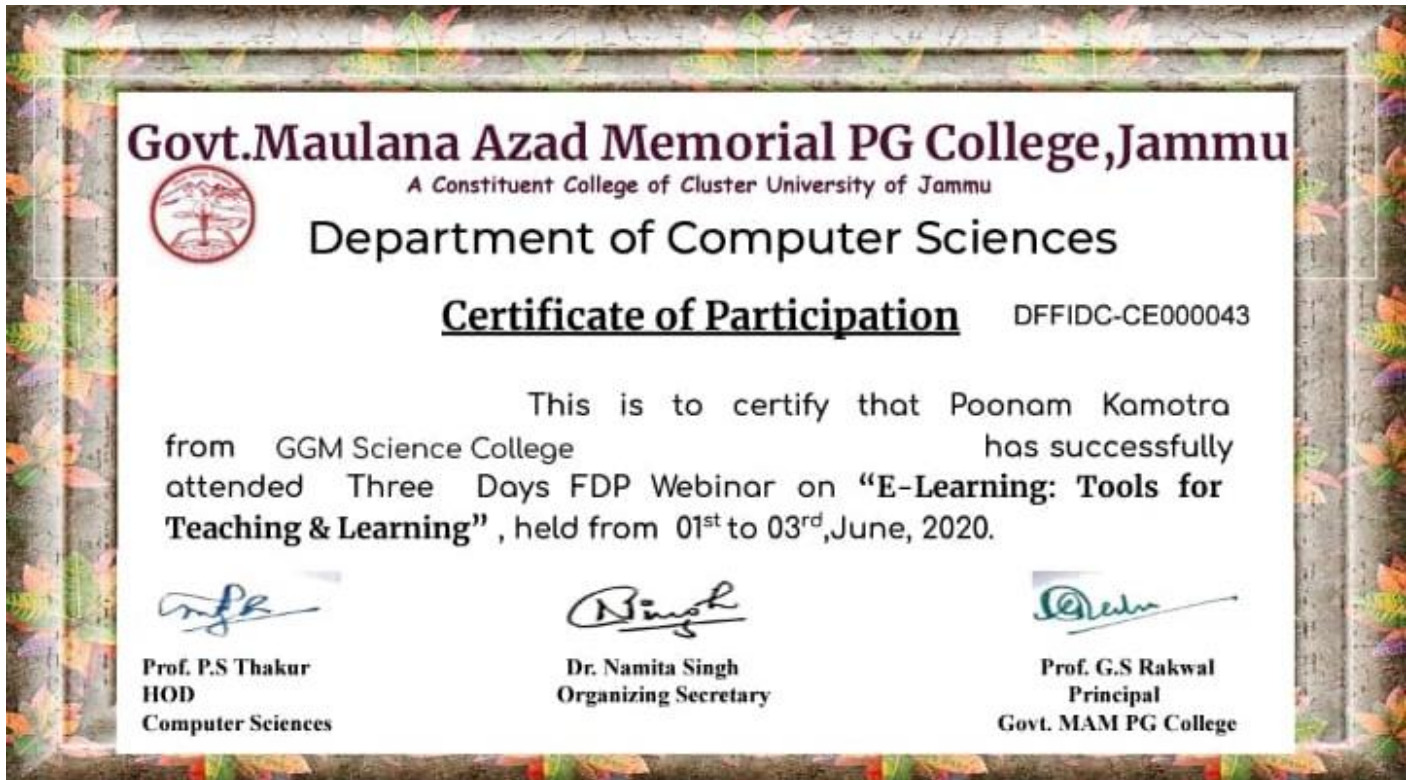


Orientations, Refreshers, FDP's, Webinars, Seminars, Workshops (July2021-Till date)





**National Webinar on Recent Advances in Solid State  
Chemistry and Allied Sciences**

## **Certificate of Participation**

*This is to certify that*

*Dr. Poonam Kamotra*

*Cluster University Jammu*

*has participated in the National Webinar on Recent Advances  
in Solid State Chemistry and Allied Sciences organized by the  
Department of Chemistry, in association with the Association  
of Chemistry Teacher (ACT) & Indian Association of  
Solid-State Chemists and Allied Scientists (ISCAS)  
during 16.08.2021 & 17.08.2021.*

Prof. M. Swaminathan  
President  
ISCAS

Prof. Brijesh Pare  
President  
ACT

Prof. (Dr.) A. Sakthivel  
Convenor, RASSCAS  
Head,  
Dept. of Chemistry,  
CU-Kerala

Dr. M. Bhagiyalakshmi  
Co-Convenor, RASSCAS  
Dept. of Chemistry,  
CU-Kerala



## A TWO DAY INTERNATIONAL CONFERENCE

ON

### RECENT ADVANCES IN CHEMICAL SCIENCES

#### Certificate

This is to Certify that Dr Poonam Kamotra, Associate Professor, G. G. M. Science College, Jammu ( J & K ) has Participated in the Two Day International Conference on Recent Advances in Chemical Sciences Organised by The Department of Chemistry, Governemnt College for Women, Parade Ground, Jammu, India in collaboration with Cape Comorin Trust, India & Cape Comorin Publisher, India from 10 January to 11 January 2022.

Dr. Gurpreet Kour  
Organising Secretary  
Assistant Professor, Chemistry

Dr. Avinash K. Gupta  
Convener  
HoD, Chemistry

Dr. R. S. Regin Silvest  
President, Cape Comorin Trust

Prof. (Dr.) S. P. Sarswat  
Principal  
Government College for Women  
Parade Ground, Jammu



## Webinar on Financial Literacy



### Certificate of Participation

This is to certify that Prof. Ajay Gupta, Associate professor, G.G.M Science College, Jammu participated in a webinar on the topic "*Financial Literacy*" on 27th August 2021 organized by Reserve Bank of India, Jammu in collaboration with the Women's Studies Centre, G.G.M Science College, Jammu.

Dr. Ravender Tickoo  
Principal

Sh. Ramesh Chand  
Banking Ombudsman, RBI

Dr. Vandana Khajuria  
Convener

# G.G.M SCIENCE COLLEGE, JAMMU



A Constituent College of Cluster University of Jammu



## Certificate of Participation

This is to certify that Ajay Gupta FACULTY, GGM Science College Jammu participated in an online National Seminar on "*Intellectual Property Rights*" on 6<sup>th</sup> September 2021 organized by **IQAC-NAAC** in collaboration with the Department of Chemistry and NSS G.G.M Science College, Jammu.

Dr. Deepali Mahajan  
NSS PO

Dr. Poonam Kamotra  
HOD, Chemistry  
Department

Dr. Ravender Tickoo  
Principal

Made for free with Certify'em



## Dolphin (PG) Institute of Biomedical & Natural Sciences, Dehradun



Affiliated to H.N.B. Garhwal Central University, Srinagar, Garhwal, Uttarakhand

NAAC Accredited 'B++' (2<sup>nd</sup> Cycle)  
Approved by Government of Uttarakhand, IAP and NCTE  
Recognized by Uttarakhand Paramedical Council, Registered by UGC u/s. 2(f)

### **CERTIFICATE** of PARTICIPATION

awarded to Dr./Mr./Ms. Ajay Gupta  
of G.G.M. Science College, Jammu Dated 10-11 March 2022  
for participation as / Resource person / Member Organizing committee / Online  
Presenting poster in UCOST funded two days workshop on "*Intellectual Property Right (IPR)*", organized by Research Advisory Committee in association with Department of Pharmaceutical Chemistry & Chemistry.

(Dr. Versha Parcha)  
Chairperson, RAC

(Dr. Shailja Pant)  
Principal

(Dr. D.P. Uniyal)  
Joint Director, UCOST

## G.G.M SCIENCE COLLEGE , JAMMU

A Constituent College of Cluster University of Jammu



This is to certify that Prof. Ajay Gupta, Associate Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in a Seminar on "Chemistry Wonderful Science in Improving Human Life" on Science Day (28<sup>th</sup> February 2022) organized by Department of Chemistry G.G.M Science College, Jammu.

Dr. Ravender Tickoo  
Principal

Dr. Poonam Kamotra  
HOD, Chemistry



### Govt. Gandhi Memorial Science College Jammu

A Constituent College of CLUSTER UNIVERSITY OF JAMMU



#### Certificate of Participation

This is to certify that Ajay Gupta Associate Professor , GGM Science College Jammu has participated in the sensitization program **TOBACCO FREE EDUCATIONAL INSTITUTE INITIATIVE** held on 8<sup>th</sup> April 2022 at GGM SCIENCE COLLEGE JAMMU

Dr. Deepali Mahajan  
Program Coordinator

Dr. Ravender Tickoo  
Principal

Made for free with Certify'em

**Prof. Poonam Sharma**

**G.G.M SCIENCE COLLEGE , JAMMU**

A Constituent College of Cluster University of Jammu



This is to certify that Prof. Poonam Sharma, Associate Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in a Seminar on “Chemistry Wonderful Science in Improving Human Life” on Science Day (28<sup>th</sup> February 2022) organized by Department of Chemistry G.G.M Science College, Jammu.

Dr. Ravender Tickoo  
Principal

Dr. Poonam Kamotra  
HOD, Chemistry



**G.G.M SCIENCE COLLEGE JAMMU**

A CONSTITUENT COLLEGE OF CLUSTER UNIVERSITY OF JAMMU

*Certificate of Participation*

This is to certify that Prof. Poonam Sharma of Department of Chemistry, G.G.M Science College Jammu has participated in “One Day International Lecture on Metamaterials: A new Paradigm of Physics and Engineering” held on 31<sup>st</sup> March, 2022 at Department of Physics, G.G.M Science College Jammu.



Prof. Rajesh Bhardwaj  
Coordinator

Prof. Ravi Kant Sharma  
Convener

Dr. Ravender K. Tickoo  
Principal





## Govt. Gandhi Memorial Science College Jammu

A Constituent College of CLUSTER UNIVERSITY OF JAMMU



### Certificate of Participation

This is to certify that Poonam Sharma Associate prof., GGM science college, Jammu has participated in the sensitization program **TOBACCO FREE EDUCATIONAL INSTITUTE INITIATIVE** held on 8<sup>th</sup> April 2022 at GGM SCIENCE COLLEGE JAMMU

Dr. Deepali Mahajan  
Program Coordinator

Dr. Ravender Tickoo  
Principal

Made for free with Certify'em

Prof. Rashi Gupta

## G.G.M SCIENCE COLLEGE, JAMMU

A Constituent College of Cluster University of Jammu

### Certificate of Appreciation

This is to certify that Prof. Rashi Gupta Associate Prof. of GGM Science College acted as *judge in vocal solo light music* competition held on 12<sup>th</sup> March 2022. The competition was organized by the Cultural Committee, G.G.M Science College, Jammu.

Dr. Ravender Tickoo  
Principal

ESTD. 1905

Prof. Poonam Sharma  
Convener



## G.G.M Science College



**A Constituent College of Cluster University of Jammu  
UT of Jammu and Kashmir**

### CERTIFICATE

This is to certify that Mr. /Ms. Rashi Gupta ,Teaching Faculty of Ggm science college jammu, has attended Online National Mini Workshop Cum Webinar on E-Content Development on 16<sup>th</sup> August-2020 Organized by GGM Science College a Constituent College of Cluster university of Jammu

**PRINCIPAL**

Ravinder Tikoo

**CONVENER**

Sanjeev Rana

**ORGANIZING SECRETARY**

Jagjeet Singh

## G.G.M SCIENCE COLLEGE , JAMMU

A Constituent College of Cluster University of Jammu



This is to certify that Prof. Rashi Gupta, Associate Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in a Seminar on “Chemistry Wonderful Science in Improving Human Life” on Science Day (28<sup>th</sup> February 2022) organized by Department of Chemistry G.G.M Science College, Jammu.

Dr. Ravender Tickoo  
Principal

Dr. Poonam Kamotra  
HOD, Chemistry



## Webinar on Financial Literacy



### Certificate of Participation

This is to certify that Prof. Rashi Gupta, Associate Professor, G.G.M Science College, Jammu participated in a webinar on the topic “*Financial Literacy*” on 27th August 2021 organized by Reserve Bank of India, Jammu in collaboration with the Women’s Studies Centre, G.G.M Science College, Jammu.

Dr. Ravender Tickoo  
Principal

Sh. Ramesh Chand  
Banking Ombudsman, RBI

Dr. Vandana Khajuria  
Convener



## Govt. Gandhi Memorial Science College Jammu

A Constituent College of CLUSTER UNIVERSITY OF JAMMU



### Certificate of Participation

This is to certify that **Rashi Gupta** Associate professor, Ggm science College jammu has participated in the sensitization program **TOBACCO FREE EDUCATIONAL INSTITUTE INITIATIVE** held on 8<sup>th</sup> April 2022 at GGM SCIENCE COLLEGE JAMMU

**Dr. Deepali Mahajan**  
Program Coordinator

**Dr. Ravender Tickoo**  
Principal

Made for free with Certify'em



## Dolphin (PG) Institute of Biomedical & Natural Sciences, Dehradun



Affiliated to H.N.B. Garhwal Central University, Srinagar, Garhwal, Uttarakhand

NAAC Accredited 'B++' (2<sup>nd</sup> Cycle)  
Approved by Government of Uttarakhand, IAP and NCTE  
Recognized by Uttarakhand Paramedical Council, Registered by UGC u/s. 2(f)

### **CERTIFICATE** of PARTICIPATION

awarded to Dr./Mr./Ms. Rashi Gupta  
of G.G.M. Science College, Jammu Dated 10-11. march 2022  
for participation as / Resource person / Member Organizing committee / online  
Presenting poster in UCOST funded two days workshop on "Intellectual  
Property Right (IPR)", organized by Research Advisory Committee in  
association with Department of Pharmaceutical Chemistry & Chemistry.

**(Dr. Versha Parcha)**  
Chairperson, RAC

**(Dr. Shailja Pant)**  
Principal

**(Dr. D.P. Uniyal)**  
Joint Director, UCOST

**Dr. Monika Gupta**



**Govt. Gandhi Memorial Science College Jammu**

A Constituent College of CLUSTER UNIVERSITY OF JAMMU



**Certificate of Participation**

This is to certify that **Monika Gupta** Associate Professor, G. G. M. Sc. College, Jammu.  
has participated in the sensitization program **TOBACCO FREE EDUCATIONAL INSTITUTE  
INITIATIVE** held on 8<sup>th</sup> April 2022 at GGM SCIENCE COLLEGE JAMMU

**Dr. Deepali Mahajan**  
Program Coordinator

**Dr. Ravender Tickoo**  
Principal

Made for free with Certify'em

**G.G.M SCIENCE COLLEGE , JAMMU**

A Constituent College of Cluster University of Jammu



This is to certify that Prof. Monika Gupta, Associate Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in a Seminar on "Chemistry Wonderful Science in Improving Human Life" on Science Day (28<sup>th</sup> February 2022) organized by Department of Chemistry G.G.M Science College, Jammu.

**Dr. Ravender Tickoo**  
Principal

**Dr. Poonam Kamotra**  
HOD, Chemistry



# Dolphin (PG) Institute of Biomedical & Natural Sciences, Dehradun



Affiliated to H.N.B. Garhwal Central University, Srinagar, Garhwal, Uttarakhand

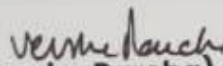
NAAC Accredited 'B++' (2<sup>nd</sup> Cycle)


Approved by Government of Uttarakhand, IAP and NCTE

Recognized by Uttarakhand Paramedical Council, Registered by UGC u/s. 2(f)

## CERTIFICATE of PARTICIPATION

awarded to ✓ Dr./Mr./Ms. Monika Gupta  
of G.G.M Science College, Jammu Dated 10-11 march 2022  
for participation as / Resource person / Member Organizing committee / Online  
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(Dr. Versha Parcha)  
Chairperson, RAC

  
(Dr. Shailja Pant)  
Principal

  
(Dr. D.P Uniyal)  
Joint Director, UCOST



# G.G.M SCIENCE COLLEGE JAMMU

A CONSTITUENT COLLEGE OF CLUSTER UNIVERSITY OF JAMMU

## Certificate of Participation

This is to certify that Dr. MS. Saini of Department of Chemistry, G.G.M Science College Jammu has participated in "One Day International Lecture on Metamaterials: A new Paradigm of Physics and Engineering" held on 31<sup>st</sup> March, 2022 at Department of Physics, G.G.M Science College Jammu.



Prof. Rajesh Bhardwaj  
Coordinator

Prof. Ravi Kant Sharma  
Convener

Dr. Ravender K. Tickoo  
Principal



Government of India  
Ministry of Commerce and Industry  
Department for Promotion of Industry and Internal Trade  
Office of the Controller General of Patents, Designs and Trade Marks

### CERTIFICATE

This is to certify that, **DR. MUKHTYAR SINGH SAINI**, FACULTY of **G.G.M.SC COLLEGE JAMMU** has successfully participated in IP Awareness/Training program under

**NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION**

on March 04, 2022

Azadi Ka  
Amrit Mahotsav

Organized by  
Intellectual Property Office, India

Date: March 29, 2022



(RAJENDRA RATNOO, IAS)  
CONTROLLER GENERAL OF  
PATENTS, DESIGNS & TRADE MARKS



## Govt. Gandhi Memorial Science College Jammu

A Constituent College of CLUSTER UNIVERSITY OF JAMMU



### Certificate of Participation

This is to certify that Dr.M.S.Saini Associate Professor , GGMSCc College Jammu has participated in the sensitization program **TOBACCO FREE EDUCATIONAL INSTITUTE INITIATIVE** held on 8<sup>th</sup> April 2022 at GGM SCIENCE COLLEGE JAMMU

Dr. Deepali Mahajan  
Program Coordinator

Dr. Ravender Tickoo  
Principal

Made for free with Certify'em

## G.G.M SCIENCE COLLEGE, JAMMU



A Constituent College of Cluster University of Jammu



### Certificate of Participation

This is to certify that Dr.M.S.Saini FACULTY, GGMSC COLLEGE JAMMU participated in an online National Seminar on "*Intellectual Property Rights*" on 6<sup>th</sup> September 2021 organized by **IQAC-NAAC** in collaboration with the Department of Chemistry and NSS G.G.M Science College, Jammu.

Dr. Deepali Mahajan  
NSS PO

Dr. Poonam Kamotra  
HOD, Chemistry  
Department

Dr. Ravender Tickoo  
Principal

Made for free with Certify'em



# KARPAGA VINAYAGA

## COLLEGE OF ENGINEERING AND TECHNOLOGY

GST Road, Chinna Kolambakkam, Padalam - 603 308, Chengalpet (DT), Tamilnadu.

### Department of Mechanical Engineering

## *Certificate of Participation*



This certificate is Presented to

**DR.M.S.SAINI**

---

GGMSc College Jammu

---

for participating in OneWeek STTP on<sup>®</sup> TECHNOLOGY STARTUP'S AND PATENT PROTECTION STRATEGIES – EMPOWERING YOUNG INNOVATORS<sup>®</sup> organized by Department of Mechanical Engineering From 21.03.2022 To 25.03.2022

R.Prem Kumar  
NP/Mech.

Dr. S.Dinesh Kumar  
HoD/Mech.

Dr. P. Kasinatha Pandian  
Principal



**National Webinar on Recent Advances in Solid State  
Chemistry and Allied Sciences**

## **Certificate of Participation**

*This is to certify that*

***Dr. M.S. Saini***

*Cluster university Jammu*

*has participated in the National Webinar on Recent Advances  
in Solid State Chemistry and Allied Sciences organized by the  
Department of Chemistry, in association with the Association  
of Chemistry Teacher (ACT) & Indian Association of  
Solid-State Chemists and Allied Scientists (ISCAS)  
during 16.08.2021 & 17.08.2021.*

**Prof. M. Swaminathan**  
President  
ISCAS

**Prof. Brijesh Pare**  
President  
ACT

**Prof. (Dr.) A. Sakthivel**  
Convenor, RASSCAS  
Head,  
Dept. of Chemistry,  
CU-Kerala

**Dr. M. Bhagiyalakshmi**  
Co-Convenor, RASSCAS  
Dept. of Chemistry,  
CU- Kerala



# D.A.V. College, Hoshiarpur

A Premier Institution under D.A.V. College Managing Committee, Hoshiarpur  
Affiliated to Panjab University, Chandigarh

## *Certificate of Participation*

*This is to certify that*

**Mr. Dr.M.S.Saini**

of

**GGMSc COLLEGE JAMMU**

*has participated in One Day International Webinar organized on the theme of*

***Tourism for Inclusive Growth***

*on 6th October, 2021*

*by Planning Forum, Department of Economics.*

  
Convener

  
Organizing  
Secretary

  
Joint Organizing  
Secretary

  
Webinar Director



J&K IMPARD

J&K Institute of Management, Public Administration & Rural Development  
SRINAGAR/JAMMU

## Certificate

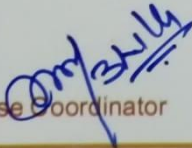
This is to certify that

Dr. M.S Saini, Associate Professor

has successfully completed the Course/ Seminar/ Workshop

on Financial Management for Higher Education

conducted by the Institute from 26-07-2021 to 30-07-2021

  
Course Coordinator

  
Vice Chairman & Director General



**Research & Development Cell**  
**Govt. P. G. College Rajouri**  
(Affiliated to the University of Jammu NAAC Accredited "B")



**Pir Panjal Environment and Eco-Development Society Poonch, J&K, India**



### Certificate of Participation

Certificate ID: MS1TIG-CE000090



This is to certify that Dr/Mr/Ms Dr.M.S.Saini , Associate Professor, GGMSC College Jammu , has participated in **International Web Conference** on **Invest in Our Planet** on 21-22 April, 2022 organized by R&D Cell, Govt. P. G. College Rajouri and Pir Panjal Environment and Eco-Development Society Poonch.

  
**Dr M. Asnaq Malik**  
Organizing Secretary

  
**Dr Rani Mughal**  
Convener

  
**Adv. Tabassam Mughal**  
Patron

  
**Prof M. Farooq Mirza**  
Principal (officiating)

  
**Prof. Dr J. A. Qazi**  
Principal



International Webinar  
on  
**SUSTAINABLE CHEMISTRY**  
**IWSC-2021**



Organized by  
Association of Chemistry Teachers (ACT),  
C/o Homi Bhabha Centre for Science Education (TIFR) Mumbai

**Certificate of Participation**

This is to certify that Jagdish Kumar  
of GGM SCIENCE COLLEGE JAMMU has participated in  
International Webinar on Sustainable Chemistry, IWSC-2021 on 18th March 2021 organized by  
Association of Chemistry Teachers (ACT), C/o Homi Bhabha Centre for Science Education (TIFR)  
Mumbai. Certificate no: **K81YP8-CE000677**

Prof. D. V. Prabhu  
General Secretary,  
ACT, Mumbai

Prof. Brijesh Pare  
President  
ACT, Mumbai

Dr. Bipul Saha  
IUPAC,  
Bureau Member

Prof. Wasudeo Gurnule  
Convener  
Secretary, ACT West Zone

Made for free with Certify'em

NATIONAL WEBINAR  
ON  
RECENT ADVANCES IN CHEMISTRY  
**CERTIFICATE OF APPRECIATION**  
Govt. G.N.A PG College, Bhatapara (C.G.)



This is to certify that Jagdish Kumar  
of GGM SCIENCE COLLEGE JAMMU  
has participated in the National Webinar on "Recent Advances in Chemistry, organised by the  
Department of Chemistry & IQAC, Govt. G.N.A. PG College, Bhatapara (C.G.)  
Date : 26-07-2021 Certificate ID : **EKYRG4-CE000194-848**

Convenor  
Dr. Preeti Soni

IQAC  
Dr. Vikas Gulhare

Patron  
Dr. Nisha Sharma

Made for free with Certify'em



## INTERNATIONAL WEBINAR

### ON MULTIDISCIPLINARY RESEARCH IWMR-2021



On occasion of Golden Jubilee Year Celebration

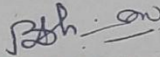
Organized by

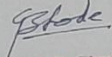
Department of Chemistry, Guru Nanak College of Science, Ballarpur, Dist: Chandrapur (M.S.) Pin- 442 701  
Affiliated to Gondwana University, Gadchiroli  
NAAC Accredited : 'B' Grade

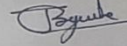
### Certificate of Participation

This is to certify that Jagdish Kumar  
of GGM Science College, Jammu has participated in  
International Webinar on Multidisciplinary Research on 13th March 2021 organized by Department of  
Chemistry, Guru Nanak College of Science, Ballarpur, Dist. Chandrapur.

Certificate no: CHOUXE-CE000794

  
Dr. B. M. Bahirwar  
Principal  
Guru Nanak College of Science,  
Ballarpur

  
Prof. P. B. Ghode  
Co-ordinator & Head, Dept. of Chemistry  
Guru Nanak College of Science,  
Ballarpur

  
Dr. Jyotsna V. Khobragade  
Convener, IWMR-2021  
Dept. of Chemistry  
Guru Nanak College of Science,  
Ballarpur

Made for free with Certify'em


## G.G.M SCIENCE COLLEGE , JAMMU

A Constituent College of Cluster University of Jammu



This is to certify that Prof. Jagdish Kumar, Associate Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in a Seminar on "Chemistry Wonderful Science in Improving Human Life" on Science Day (28<sup>th</sup> February 2022) organized by Department of Chemistry G.G.M Science College, Jammu.

  
Dr. Ravender Tickoo  
Principal

  
Dr. Poonam Kamotra  
HOD, Chemistry

## G.G.M SCIENCE COLLEGE , JAMMU

A Constituent College of Cluster University of Jammu



This is to certify that Prof. Raj Kumar Gupta, Associate Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in a Seminar on "Chemistry Wonderful Science in Improving Human Life" on Science Day (28<sup>th</sup> February 2022) organized by Department of Chemistry G.G.M Science College, Jammu.

Dr. Ravender Tickoo  
Principal

Dr. Poonam Kamotra  
HOD, Chemistry



### Govt. Gandhi Memorial Science College Jammu

A Constituent College of CLUSTER UNIVERSITY OF JAMMU



#### Certificate of Participation

This is to certify that Raj Kumar Gupta Associate Professor , Govt.Gandhi Memorial Science College Jammu  
has participated in the sensitization program **TOBACCO FREE EDUCATIONAL INSTITUTE INITIATIVE** held on 8<sup>th</sup> April 2022 at GGM SCIENCE COLLEGE JAMMU

Dr. Deepali Mahajan  
Program Coordinator

Dr. Ravender Tickoo  
Principal

Made for free with Certify'em

NATIONAL WEBINAR  
ON  
RECENT ADVANCES IN CHEMISTRY  
CERTIFICATE OF APPRECIATION

Govt. G.N.A PG College , Bhatapara (C.G.)





This is to certify that Prof Raj Kumar Gupta  
of Jammu

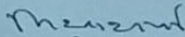
has participated in the National Webinar on "Recent Advances in Chemistry, organised by the Department of Chemistry & IQAC, Govt. G.N.A. PG College, Bhatapara (C.G.)

Date : 26-07-2021

Certificate ID : EKYRG4-CE000689

  
Convenor  
Dr. Preeti Soni

  
IQAC  
Dr. Vikas Gulhare

  
Patron  
Dr. Nisha Sharma

Made for free with Certify'em



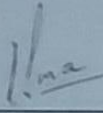
National Webinar on  
'Spectroscopy and Solid State Chemistry'

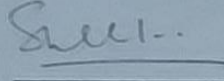
Organized by

School of Studies in Chemistry & Biochemistry, Vikram University, Ujjain, M. P., India

Certificate of Participation

This is to certify that  
RAJ KUMAR GUPTA of Jammu  
has participated in the National Webinar on 'Spectroscopy and Solid State Chemistry' held on 17<sup>th</sup>  
and 18<sup>th</sup> July 2020. certificate id-PVRYA+CE000079

  
Prof. Uma Sharma  
Convener

  
Prof. Shubha Jain  
HOD




International Conference on  
Recent Advances in Interdisciplinary Sciences  
January 11-12, 2019

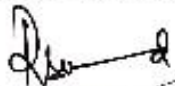


***Certificate***

This certificate is awarded to Ray Kumar Gupta from G.G.M. Science college, Jammu  
for delivering an ~~Invited Lecture/Session Chair~~ Participation/Presentation of Research Paper  
titled Pesticides and Environment  
in the International Conference on "Recent Advances in Interdisciplinary Sciences" organized by the  
**Department of Electronics, University of Jammu** in collaboration with IEEE EDS Delhi Chapter and IETE  
Jammu Centre.



  
Dr. Rocky Gupta  
Org. Secretary

  
Prof. Raksh Vaid  
Convener/HOD Electronics

UNIVERSITY OF JAMMU

# Indian Association of Solid State Chemists and Allied Scientists

(Two Decades of Formation)


1998-2018



ISCAS National Symposium on  
New Trends of Research in  
Solid State Chemistry and Allied Areas  
March 4-6, 2018

## Certificate

This is to certify that Prof./Dr./Mr./Ms. Raj Kumar Gupta  
has participated/presented a research paper in the ISCAS National Symposium on New Trends of  
Research in Solid State Chemistry and Allied Areas held at the ISCAS Institute of Solid State & Materials  
Science, Jammu University Campus, Jammu-180006, during March 4-6, 2018.

  
Prof. M. Swaminathan  
President - ISCAS

  
Prof. Indu Bhushan Sharma  
Director, ISCAS Institute

### International E-Conference on Sustainable and Futuristic Materials (SFM-2021)

Organized by  
International Research Centre and Department of Chemistry,  
Kalasalingam Academy of Research and Education, Krishnankoil  
Danda Education Society  
Department of Chemistry, J. M. Patel Arts, Commerce and Science College, Bhandara  
Re-accredited 'B' Grade by NAAC / Granted the Status of College with Merit/Star Excellence by UGC / Best IC Awarder for College Scheme by DIT  
And  
Amar Ganga Mandals  
Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur  
(Reaccredited A+ grade with CGPA of 1.53)

#### Certificate

This is to certify that Prof. Raj Kumar Gupta  
of Govt. Gandhi Memorial Science College Jammu has participated in  
International E-Conference on Sustainable and Futuristic Materials (SFM-2021) on 29th - 30th Nov. 2021  
organized by International Research Centre and Department of Chemistry, Kalasalingam Academy of  
Research and Education, Krishnankoil, Department of Chemistry, J. M. Patel Arts, Commerce And Science  
College, Bhandara & Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur. 9121PKC-CE000628

  
Prof. Hrishabh Pare  
President  
ICT

  
Prof. D. V. Prabhu  
General Secretary  
ADT

  
Prof. M. Swaminathan  
Convener  
SP-18/2021

  
Dr. V. E. Bhosale  
Principal  
J.M. Patel Arts, Com. & Sc. College, Bhandara

  
Dr. W. B. Guzmalo  
Organizing Secretary  
9121PKC

St. Francis De Sales College, Seminary Hills, Nagpur

Accredited "A" grade by NAAC

Website : www.sfscollege.edu.in



### Certificate of Participation

Certificate ID: 485

This is to certify that Prof./Dr./Mr./Mrs./Ms. Prof. Raj Kumar Gupta  
From Govt. Gaudhi Memorial Science College Jammu  
Has attended the one day National Webinar on "International Day Of Girl Child" organised by St. Francis De' Sales College, Nagpur on 11th October, 2021.

**Dr. Purabi Bhattacharya**

Coordinator

STIAK11 (Women Cell)

**Dr. K. T. Thomas**

Principal,

SFS College, Nagpur.



### Certificate of Participation

This is to certify that **Sumanda Rani Faculty, GGM SC. College**  
has participated in two day workshop **HAR GHAR POSHAN TYOHAR CELEBRATING NUTRITION**  
**WEEK 01-07 SEPT. 2021** Theme: **FEEDING SMART RIGHT FROM THE START** held on 4<sup>th</sup> - 5<sup>th</sup>  
SEPTEMBER 2021 organized by NSS UNIT GGM SCIENCE COLLEGE JAMMU.

**Dr. Deepanshu Mahajan**  
NSS PO

**Dr. Ravender Tickoo**  
Principal



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## Webinar on Financial Literacy



### Certificate of Participation

This is to certify that Prof. Sunanda Rani, Associate Professor, G.G.M Science College, Jammu participated in a webinar on the topic "*Financial Literacy*" on 27th August 2021 organized by Reserve Bank of India, Jammu in collaboration with the Women's Studies Centre, G.G.M Science College, Jammu.

  
Dr. Ravender Tickoo  
Principal

  
Sh. Ramesh Chand  
Banking Ombudsman, RBI

  
Dr. Vandana Khajuria  
Convener



## Dolphin (PG) Institute of Biomedical & Natural Sciences, Dehradun



Affiliated to H.N.B. Garhwal Central University, Binnagar, Garhwal, Uttarakhand

NAAC Accredited 'B++' (2<sup>nd</sup> Cycle)

Approved by Government of Uttarakhand, IAP and NCTE

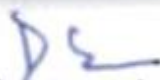
Recognized by Uttarakhand Paramedical Council, Registered by UGC u/s 2(f)

### **CERTIFICATE** of PARTICIPATION

awarded to Dr./Mr./Ms. Sunanda Rani  
of G.G.M. Science College, Jammu dated 10-11 march 2022  
for participation as / Resource person / Member Organizing committee / online  
Presenting poster in UCOST funded two days workshop on "*Intellectual  
Property Right (IPR)*", organized by Research Advisory Committee in  
association with Department of Pharmaceutical Chemistry & Chemistry.

  
(Dr. Versha Parcha)  
Principal

  
(Dr. Shailja Pant)  
Principal

  
(Dr. D.P. Uniyal)  
Joint Director, UCOST



## A TWO DAY INTERNATIONAL CONFERENCE

ON

### RECENT ADVANCES IN CHEMICAL SCIENCES

#### Certificate

This is to Certify that Babita Mahajan, Assistant Professor, G. G. M Science College has Participated in the Two Day International Conference on Recent Advances in Chemical Sciences Organised by The Department of Chemistry, Governemnt College for Women, Parade Ground, Jammu, India in collaboration with Cape Comorin Trust, India & Cape Comorin Publisher, India from 10 January to 11 January 2022.

Dr. Gurpreet Kour  
Organising Secretary  
Assistant Professor, Chemistry

Dr. Avinash K. Gupta  
Convener  
HoD, Chemistry

Dr. R. S. Regin Silvest  
President, Cape Comorin Trust

Prof. (Dr.) S. P. Sarswat  
Principal  
Government College for Women  
Parade Ground, Jammu



### Govt. Gandhi Memorial Science College Jammu

A Constituent College of CLUSTER UNIVERSITY OF JAMMU



#### Certificate of Participation

This is to certify that Dr. BABITA MAHAJAN ASSOCIATE PROFESSOR, G.G.M SCIENCE COLLEGE JAMMU

has participated in the sensitization program **TOBACCO FREE EDUCATIONAL INSTITUTE INITIATIVE** held on 8<sup>th</sup> April 2022 at GGM SCIENCE COLLEGE JAMMU

Dr. Deepali Mahajan  
Program Coordinator

Dr. Ravender Tickoo  
Principal

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## Govt. Gandhi Memorial Science College Jammu

A Constituent College of CLUSTER UNIVERSITY OF JAMMU



### Certificate of Participation

This is to certify that **Dr. Babita Mahajan** Professor, GGM SCIENCE College JAMMU has participated in two day workshop **HAR GHAR POSHAN TYOHAR CELEBRATING NUTRITION WEEK 01-07 SEPT. 2021** Theme: **FEEDING SMART RIGHT FROM THE START** held on 4<sup>th</sup> - 5<sup>th</sup> SEPTEMBER 2021 organized by NSS UNIT GGM SCIENCE COLLEGE JAMMU.

  
**Dr. Deepan Mahajan**  
NSS PO

  
**Dr. Ravender Tickoo**  
Principal



## EASWARI ENGINEERING COLLEGE (AUTONOMOUS)

[A unit of SRM Group of Educational Institutions]

Bharathi Salai, Ramapuram, Chennai - 60

[Approved by AICTE | Affiliated to Anna University, Chennai |

NAAC-Accredited 'A' Grade | 2(I) & 12(B) Status (UGC) | ISO 9001:2015 Certified |

NBA Accredited Programme | FIST Funded (DST) | SIRO Certified (DSIR)]

### DEPARTMENT OF CHEMISTRY CERTIFICATE

This is to certify that **Dr. BABITA MAHAJAN** Assistant professor, Chemistry  
GGM SCIENCE COLLEGE, JAMMU

Participated in the International Faculty Development Programme on 'Current Technology in Chemistry' (23.08.2021 - 27.08.2021) organized by the Department of Chemistry, Easwari Engineering College (Autonomous), Ramapuram.

  
**Dr. C. Ravichandran**  
Convener

  
**Dr. R. S. Kumar**  
Principal

Certificate No: 2UMHMW-CE000132

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# Dolphin (PG) Institute of Biomedical & Natural Sciences, Dehradun



Affiliated to H.N.B. Garhwal Central University, Srinagar, Garhwal, Uttarakhand

NAAC Accredited 'B++' (2<sup>nd</sup> Cycle)  
Approved by Government of Uttarakhand, IAP and NCTE  
Recognized by Uttarakhand Paramedical Council, Registered by UGC u/s. 2(f)

## CERTIFICATE of PARTICIPATION

awarded to Dr./Mr./Ms. Babita Mahajan  
of C.C.M. Science College, Jammu Dated 10-11 March 2022  
for participation as / Resource person / Member Organizing committee / Online  
Presenting poster in UCOST funded two days workshop on "Intellectual  
Property Right (IPR)", organized by Research Advisory Committee in  
association with Department of Pharmaceutical Chemistry & Chemistry.

(Dr. Versha Parcha)  
Chairperson, RAC

(Dr. Shailja Pant)  
Principal

(Dr. D.P Uniyal)  
Joint Director, UCOST



### GOVERNMENT COLLEGE FOR WOMEN UDHAMPUR ( J&K )



In Collaboration with  
Association of Mutual Funds in India  
has Organised a National Webinar On  
"Mutual Funds - A Tool for Financial Empowerment"

#### CERTIFICATE OF PARTICIPATION

This certificate is awarded to

Dr. Veer Singh , Assistant Professor of GGMSc College Jammu

In recognition of active participation in the National Webinar on "Mutual Funds - A  
Tool for Financial Empowerment" held On 25<sup>th</sup> May, 2021

Prof. Minu Mahajan  
Principal  
GCW, Udhampur

Dr. Mool Raj  
Assistant Professor

Shri Surya Kant Sharma  
Senior Consultant  
AMFI



## International Webinar

### On **Empowering Diversity In Science**

Organized by

Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur  
and Association of Chemistry Teachers (ACT),

C/o Homi Bhabha Centre for Science Education (TIFR) Mumbai

In Collaboration with International Union of Pure & Applied Chemistry (IUPAC), Global Women's Breakfast



### Certificate of Participation

09 Feb 2021

This is to certify that Dr. Veer Singh  
of GGMSc College Jammu has participated in  
International Webinar On Empowering Diversity In Science (GWB-2021) on 9th February 2021 organized  
by Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur and Association of Chemistry Teachers  
(ACT), C/o Homi Bhabha Centre for Science Education (TIFR) Mumbai In Collaboration with  
International Union of Pure & Applied Chemistry (IUPAC), Global Women's Breakfast  
Certificate no: 1K2B30-CE001141

Adv. Abhijit Wanjarri  
MLC & Secretary  
Amar Sewa Mandal, Nagpur

Prof. D. V. Prabhu  
General Secretary, ACT  
Wilson College, Mumbai

Prof. Brijesh Pare  
President, ACT  
Madhav Science PG College,  
Ujjain

Dr. D. S. Badwaik  
Principal  
Kamla Nehru Mahavidyalaya,  
Nagpur

Dr. W. B. Gurnule  
Convener, NWIMA-2020  
Kamla Nehru Mahavidyalaya,  
Nagpur

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## Dolphin (PG) Institute of Biomedical & Natural Sciences, Dehradun

Affiliated to H.N.B. Garhwal Central University, Srinagar, Garhwal, Uttarakhand

NAAC Accredited 'B++' (2<sup>nd</sup> Cycle)

Approved by Government of Uttarakhand, IAP and NCTE

Recognized by Uttarakhand Paramedical Council, Registered by UGC u/s. 2(f)

### CERTIFICATE of PARTICIPATION

awarded to Dr./Mr./Ms. Veer Singh  
of G.G.M. Science College, Jammu, Dated 10-11 March 2020  
for participation as / Resource person / Member Organizing committee / Online  
Presenting poster in UCOST funded two days workshop on "Intellectual  
Property Right (IPR)", organized by Research Advisory Committee in  
association with Department of Pharmaceutical Chemistry & Chemistry.

(Dr. Versha Parcha)  
Chairperson, RAC

(Dr. Shailja Pant)  
Principal

(Dr. D.P Uniyal)  
Joint Director, UCOST



JNAN VIKAS MANDAL'S DEGREE COLLEGE  
PLOT NO.9, SECTOR-19, AIROLI, NAVI MUMBAI,  
MAHARASHTRA - 400 708, INDIA  
PERMANENTLY AFFILIATED TO UNIVERSITY OF MUMBAI  
NAAC RE-ACCREDITED 'A' GRADE (CGPA-3.33)



## CERTIFICATE

This is to certify that Dr. Veer Singh of GGMSc College Jammu has participated in 'VIRTUAL INTERNATIONAL CONFERENCE ON MUTLIFUNCTIONAL ADVANCED MATERIALS (VICMAM-2021)' organized by Department of Chemistry, JVM's Degree College in collaboration with Association of Chemistry Teachers (ACT) on 9<sup>th</sup> and 10<sup>th</sup> August, 2021.

Prof. Brijesh Pare  
President, ACT  
Madhav Science PG  
College, Ujjain

Prof. D.V. Prabhu  
General Secretary, ACT  
Wilson College, Mumbai

Asst. Prof. Sandhya Patil  
Co-Convener  
(VICMAM-2021)

Asst. Prof. Harshada Niju  
Convener  
(VICMAM-2021)

Dr. Leena Sarkar  
Principal  
JVM's Degree College



## Indian Institute of Management Jammu

### Participation Certificate

*This is to certify that Mr./Ms./Dr./Prof. Deepali Mahajan participated in the Management Capacity Enhancement Programme organized by IIM Jammu from 14<sup>th</sup> to 18<sup>th</sup> February 2022.*

Prof. Prateek Jain  
Programme Director

Prof. Archana Sharma  
Programme Director

Prof. Pankaj K Agarwal  
Chairperson Executive  
Education



# IES UNIVERSITY®

## B H O P A L

[University Established Under Section 2(f) of UGC Act 1956 & Vide act No. 11 of 2019 (S. No. 36) of M.P. Govt.]  
(Approved by AICTE, PCI, New Delhi & MP Nurses Council)

### *Certificate of Participation*

This certificate is presented to **Dr. Deepali Mahajan**  
for his/her participation on an Online Faculty Development Program on  
**“Research Methodology: Tools & Techniques”**  
organized by **IES University and IES College of Technology**  
on 20th to 22nd January 2022.

23rd January 2022

Registrar  
IES University, Bhopal



Teaching Learning Centre, Ramanujan College

University of Delhi

In collaboration with

Department of Chemistry, Miranda House

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

**Dr. Deepali Mahajan**

of

**Department of Chemistry, G.G.M Science College Jammu CLUJ**

has successfully completed online TWO - WEEK FACULTY DEVELOPMENT  
PROGRAMME (equivalent to Refresher Course) on

**"Chemistry - The Catalyst for Change"**

from 14 July – 28 July, 2021 and obtained Grade A+.



Blockchain Hash: [0x00e90ebd77e7eb91ba16e8f2bc65b897b7400cc8061cc65dc7349f7b5ccdbf80](#)

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

Dr. Ashish Kumar Shukla  
(Convener)  
Ramanujan College

Dr. Mallika Pathak  
(Convener)  
Miranda House



**A TWO DAY  
INTERNATIONAL CONFERENCE  
ON**

**RECENT ADVANCES IN CHEMICAL SCIENCES**

*Certificate*

This is to Certify that Dr. Deepali Mahajan, G.G.M Science College, Jammu, India has presented a paper titled Greener Organic Synthesis in the Two Day International Conference on Recent Advances in Chemical Sciences Organised by The Department of Chemistry, Governemnt College for Women, Parade Ground, Jammu, India in collaboration with Cape Comorin Trust, India & Cape Comorin Publisher, India from 10 January to 11 January 2022.

**Dr. Gurpreet Kour**  
Organising Secretary  
Assistant Professor, Chemistry

**Dr. Avinash K. Gupta**  
Convener  
HoD, Chemistry

**Dr. R. S. Regin Silvest**  
President, Cape Comorin Trust

**Prof. (Dr.) S. P. Sarswat**  
Principal  
Government College for Women  
Parade Ground, Jammu

## Synthesis of 1,5- Benzodiazepines: A Review

Deepali Mahajan<sup>1</sup>, Abhishek Raina<sup>2</sup>

<sup>1</sup>Department of Chemistry GGM Science College, Cluster University of Jammu, Jammu And Kashmir, India

<sup>2</sup>Department of Chemistry School of Sciences, Cluster University of Jammu, Jammu And Kashmir, India

### ABSTRACT

Benzodiazepines are bicyclic heterocycles having medicinal importance. As a result several greener procedures have been developed using mild conditions and recyclable catalysts, easy work up good yields, multi component reactions less wastage and solvent less synthesis.

**KEYWORDS:** 1,5- benzodiazepines. *o*-phenylenediamine, ketones

**How to cite this paper:** Deepali Mahajan | Abhishek Raina "Synthesis of 1,5- Benzodiazepines: A Review" Published in International Journal of Trend in Scientific Research and Development (ijtsrd), ISSN: 2456-6470, Volume-5 | Issue-5, August 2021, pp.497-509, URL: www.ijtsrd.com/papers/ijtsrd43842.pdf



IJTSRD43842

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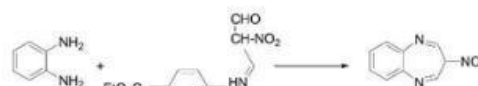


### INTRODUCTION

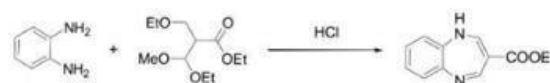
The benzodiazepines<sup>1</sup> are bicyclic heterocycles; benzene nucleus being fused to a seven membered hetero ring having two nitrogen atoms. The benzodiazepines are a class of drugs with hypnotic, anxiolytic, anticonvulsant, amnestic and muscle relaxant properties. They serve as cholecystokinin A and B antagonists, opioid receptor ligands, platelet-activating factor antagonists, HIV inhibitors, farnesyltransferase inhibitors and as somatoform disorder.

#### Synthesis of 1,5- benzodiazepines:

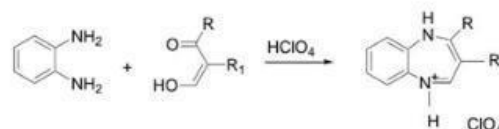
**Thiele and Stemming in [1907]**<sup>2</sup> The first synthesis of 1,5-benzodiazepines 2,4-dimethyl derivatives was reported in 1907 by Thiele and Stemming by the condensation of *o*-phenylenediamine with acetyl acetone in ethanol and acetic acid. Addition of perchloric acid precipitated the purple hydrochloride. 3-Nitrobenzodiazepine can also be prepared by the reaction of schiff's base from ethyl-*p*-aminobenzoate and nitromaloandialdehyde with *o*-phenylenediamine.



**Takamizawa et.al in [1967]**<sup>3</sup> They patented 3-ethoxycarbonylbenzodiazepine obtained by the condensation of *o*-phenylenediamine with ethyl 2-ethoxymethoxymethyl-3-ethoxyproprionate.



**M. Weissenfels et.al in [1965]**<sup>4</sup> 1,5-Benzodiazepines can be synthesized by reacting *o*-phenylenediamine with hydroxymethylene ketone in alcoholic perchloric acid.





JNAN VIKAS MANDAL'S DEGREE COLLEGE  
PLOT NO.9, SECTOR-19, AIROLI, NAVI MUMBAI,  
MAHARASHTRA – 400 708, INDIA  
PERMANENTLY AFFILIATED TO UNIVERSITY OF MUMBAI  
NAAC RE-ACCREDITED 'A' GRADE (CGPA-3.33 )



## CERTIFICATE

This is to certify that Dr. Deepali Mahajan of GGM Science College Jammu CLUJ has participated in 'VIRTUAL INTERNATIONAL CONFERENCE ON MULTIFUNCTIONAL ADVANCED MATERIALS (VICMAM-2021)' organized by Department of Chemistry, JVM's Degree College in collaboration with Association of Chemistry Teachers (ACT) on 9<sup>th</sup> and 10<sup>th</sup> August, 2021.

Prof. Brijesh Pare  
President , ACT  
Madhav Science PG  
College, Ujjain

Prof. D.V.Prabhu  
General Secretary, ACT  
Wilson College, Mumbai

Asst. Prof. Sandhya Patil  
Co-Convenor  
(VICMAM-2021)

Asst. Prof. Harshada Niju  
Convener  
(VICMAM-2021)

Dr. Leena Sarkar  
Principal  
JVM's Degree College

Made for free with Certify'em



## International E-Conference on Sustainable and Futuristic Materials (SFM-2021)

Organized by

**International Research Centre and Department of Chemistry,  
Kalasalingam Academy of Research and Education, Krishnankoil**

Gendia Education Society's

**Department of Chemistry, J. M. PATEL ARTS, COMMERCE AND SCIENCE COLLEGE, BHANDARA**  
Re- accredited 'B' Grade by NAAC ? Awarded the Status of 'College with Potential for Excellence' by UGC (Phase II) Awarded Star College Scheme by DBT

And  
Amar Sewa Mandal's

**Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur**  
(Reaccredited A+ grade with CGPA of 3.53)

### Certificate

This is to certify that Dr. Deepali Mahajan  
of G.G.M Science College Jammu has participated in  
*International E-Conference on Sustainable and Futuristic Materials (SFM-2021) on 29th - 30th Nov. 2021*  
organized by *International Research Centre and Department of Chemistry, Kalasalingam Academy of  
Research and Education, Krishnankoil, Department of Chemistry, J. M. Patel Arts, Commerce And Science  
College, Bhandara & Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur.*

9LZPKC-CE000010

Prof. Brijesh Pare  
President  
ACT

Prof. D. V. Prabhu  
General Secretary  
ACT

Prof. M. Swaminathan  
Convener  
SFM-2021

Dr. V. P. Dhomne  
Principal  
J.M. Patel Arts, Com. & Sci. College, Bhandara

Dr. W. B. Gurnule  
Organizing Secretary  
SFM-2021

Id:\*\*\*21746



FSIA

*Digital Certificate*

For

**THE REAL  
SUPER WOMAN  
AWARDS 2021**



**Dr. Deepali Mahajan**

Category: Educationist

Designation: Associate Professor

Location: Jammu-Jammu & Kashmir

Appreciation for a Super Woman like you who has been spreading lights of optimism for others. Woman like you make this world a better place to live in and your limitless attitude makes an enormous difference in the society. Thank you for putting in such marvelous efforts for our society and inspiring women across the world.

07-OCTOBER-2021

Date



*Astro Raj*

**Rajesh Agarwal**

(Astro Raj)

Founder & CEO



Winter office: November-April  
Parivesh Bhawan, Gladini,  
Transport Nagar, Narwal,  
Jammu-180006  
Ph./Fax.0191-2476925

Government of Jammu and Kashmir  
J&K Pollution Control Committee

Summer office: May-October  
Sheikh-ul-Alamcampus,  
Behind Govt. Silk factory,  
Rajbagh, Srinagar (J&K)- 190008  
Ph./Fax.0194-2311165

Email: membersecretaryjkpcb@gmail.com

Dr. Deepali Mahajan,  
Program Officer, NSS unit,  
GGM Science college, Jammu.

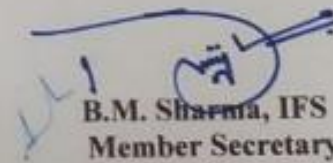
No.: JKPCC/PS/MS/21/1697  
Dt: 16/09/2021

## Letter of Appreciation

It gives me immense pleasure to put on record and to appreciate the efforts of **Dr. Deepali Mahajan**, Program Officer, NSS unit, **GGM Science College, Jammu**, to motivate NSS volunteers of GGM Science College, Jammu, to create awareness during the **Green Ganesh Drive** conducted by JKPCC w.e.f. 1<sup>st</sup> - 10<sup>th</sup> September, 2021.

Her continuous and selfless efforts during COVID pandemic to motivate students for social and environmental cause shall go a long way to bring positive impact on society.

Her sincere and dedicated efforts are highly appreciated.

  
B.M. Sharma, IFS  
Member Secretary

J&K Pollution Control Committee, Jammu

तारीख / Date 27.8.2021

ज्ञापन संख्या / Memo no: MGNCRE/SAP/IAMMU/40



भारत सरकार / Government of India  
महात्मा गांधी राष्ट्रीय ग्रामीण शिक्षा परिषद / Mahatma Gandhi National Council of Rural Education  
उच्च शिक्षा विभाग / Department of Higher Education  
शिक्षा मंत्रालय / Ministry of Education



## **Certificate of Appreciation**

This is to certify that **NSS Program Officer Dr. Deepali Mahajan** from **GGM Science College, Jammu** coordinated in formation of five student volunteer team in the area of Hospital Management, Non-Hospital Management, Support to Covid affected families, Medical Supplies, Psychosocial support to Covid patients and their family members as a part of **Beat Covid Campaign** initiative of MGNCRE, Ministry of Education Government of India. Her extraordinary efforts are highly appreciated.

Mr. Samarth Sharma  
Programme Coordinator  
MGNCRE, Ministry of Education  
Government of India

Dr. Shatrughan Bhardwaj  
Regional Coordinator  
MGNCRE, Ministry of Education  
Government of India

Dr W G Prasanna Kumar  
Chairman  
MGNCRE, Ministry of Education  
Government of India



# Certificate



Cert:SAP/33/MGNCRE/MoE/September/2021

This is to certify that **Govt. Gandhi Memorial Science College Jammu, Jammu & Kashmir** is now Recognized as **Swachhta Action Plan Institution**. The Institution has successfully formed the Swachhta Action Plan Committee and constituted the working groups Post COVID-19 for **Sanitation & Hygiene, Waste Management, Water Management, Energy Management** and **Greenery** along with the observation of two environment related days to inculcate in faculty, students and community, the practices of Swachhta and Reduction, Reuse and Recycling of Resources.

Dr. W G Prasanna Kumar  
Chairman  
MGNCRE, Ministry of Education  
Government of India

Mahatma Gandhi National Council of Rural Education  
Department of Higher Education, Ministry of Education  
Government of India

## G.G.M SCIENCE COLLEGE , JAMMU

A Constituent College of Cluster University of Jammu



This is to certify that Dr. Deepali mahajan, Assistant Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in a Seminar on "Chemistry Wonderful Science in Improving Human Life" on Science Day (28<sup>th</sup> February 2022) organized by Department of Chemistry G.G.M Science College, Jammu.

Dr. Ravender Tickoo  
Principal

Dr. Poonam Kamotra  
HOD, Chemistry



# Dolphin (PG) Institute of Biomedical & Natural Sciences, Dehradun



Affiliated to H.N.B. Garhwal Central University, Srinagar, Garhwal, Uttarakhand

NAAC Accredited 'B++' (2<sup>nd</sup> Cycle)  
Approved by Government of Uttarakhand, IAP and NCTE  
Recognized by Uttarakhand Paramedical Council, Registered by UGC u/s. 2(f)

## CERTIFICATE of PARTICIPATION

awarded to *Dr./Mr./Ms. Deepali Mahajan*  
of *G.G.M. Science College, Jammu* Dated *10-11 march 2022*  
for participation as / Resource person / Member Organizing committee / *Online*  
Presenting poster in UCOST funded two days workshop on "Intellectual  
Property Right (IPR)", organized by Research Advisory Committee in  
association with Department of Pharmaceutical Chemistry & Chemistry.

*Versha Parcha*  
(Dr. Versha Parcha)  
Chairperson, RAC

*Shailja Pant*  
(Dr. Shailja Pant)  
Principal

*D.P. Uniyal*  
(Dr. D.P Uniyal)  
Joint Director, UCOST



Government of India  
Ministry of Commerce and Industry  
Department for Promotion of Industry and Internal Trade  
Office of the Controller General of Patents, Designs and Trade Marks

### CERTIFICATE

This is to certify that, **DR. DEEPALI MAHAJAN**, FACULTY of **G.G.M SCIENCE COLLEGE  
JAMMU** has successfully participated in IP Awareness/Training program under  
**NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION**  
on **March 04, 2022**

Organized by  
**Intellectual Property Office, India**

Date: March 29, 2022



*Rajendra Ratnoo*  
(RAJENDRA RATNOO, IAS)  
CONTROLLER GENERAL OF  
PATENTS, DESIGNS & TRADE MARKS

## G.G.M SCIENCE COLLEGE , JAMMU

A Constituent College of Cluster University of Jammu



This is to certify that Prof. Shrdha Anand, Assistant Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in an online Inter-college Solo Song competition on Teachers Day(5<sup>th</sup> September 2021) organized by Literary Committee of G.G.M Science College, Jammu.

*Jkshankar*

Prof Jagdish Kumar

Convener, Literary Committee

*Rnr*

Dr. Ravender Tickoo

Principal



**Govt. Gandhi Memorial Science College Jammu**

A Constituent College of CLUSTER UNIVERSITY OF JAMMU



### Certificate of Participation

This is to certify that Shrdha Anand Asst.prof., Ggm science college jammu has participated in the sensitization program **TOBACCO FREE EDUCATIONAL INSTITUTE INITIATIVE** held on 8<sup>th</sup> April 2022 at GGM SCIENCE COLLEGE JAMMU

*Dr. Deepali Mahajan*

Dr. Deepali Mahajan

Program Coordinator

*Dr. Ravender Tickoo*

Dr. Ravender Tickoo

Principal

Made for free with Certify'em

## G.G.M SCIENCE COLLEGE , JAMMU

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This is to certify that Prof. Shrdha Anand, Assistant Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in an online Inter-college Solo Song competition on Teachers Day(5<sup>th</sup> September 2021) organized by Literary Committee of G.G.M Science College, Jammu.

*Jkshankar*

Prof Jagdish Kumar

Convener, Literary Committee

*Rn*

Dr. Ravender Tickoo

Principal



# G.G.M SCIENCE COLLEGE JAMMU

— A CONSTITUENT COLLEGE OF CLUSTER UNIVERSITY OF JAMMU —

## *Certificate of Participation*

This is to certify that Prof. Shrdha Anand of Department of Chemistry, G.G.M Science College, Jammu has participated in “One Day International Lecture on Metamaterials: A new Paradigm of Physics and Engineering” held on 31<sup>st</sup> March, 2022 at Department of Physics, G.G.M Science College Jammu.



*Rajesh Bhardwaj*

Prof. Rajesh Bhardwaj  
Coordinator

*Ravi Kant Sharma*

Prof. Ravi Kant Sharma  
Convener

*Rn*

Dr. Ravender K. Tickoo  
Principal




## G.G.M SCIENCE COLLEGE , JAMMU

A Constituent College of Cluster University of Jammu



This is to certify that Prof Shrdha Anand, Assistant Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in a Seminar on "Conservation and Management of Natural Resources" on National Pollution Day (2<sup>nd</sup> December 2021) organized by Department of Chemistry G.G.M Science College, Jammu.

  
Dr. Poonam Kamotra  
HOD Chemistry

  
Dr. Ravender Tickoo  
Principal





## Webinar on Financial Literacy

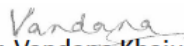


### Certificate of Participation

This is to certify that Prof. Shrdha Anand, Assistant Professor of GGM Science College, Jammu participated in a webinar on the topic "*Financial Literacy*" on 27th August 2021 organized by Reserve Bank of India, Jammu in collaboration with the Women's Studies Centre, G.G.M Science College, Jammu.

  
Dr. Ravender Tickoo  
Principal

  
Sh. Ramesh Chand  
Banking Ombudsman, RBI


  
Dr. Vandana Khajuria  
Convener

# G.G.M SCIENCE COLLEGE, JAMMU

A Constituent College of Cluster University of Jammu

## Certificate of Appreciation

This is to certify that Prof. Shrdha Anand Assistant Professor of GGM Science College organized the vocal solo light music competition held on 12<sup>th</sup> March 2022. The competition was organized by the Cultural Committee, G.G.M Science College, Jammu.

  
Dr. Ravender Tickoo  
Principal

  
Prof. Poonam Sharma  
Convener



## Dolphin (PG) Institute of Biomedical & Natural Sciences, Dehradun



Affiliated to H.N.B. Garhwal Central University, Srinagar, Garhwal, Uttarakhand

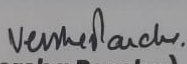
NAAC Accredited 'B++' (2<sup>nd</sup> Cycle)

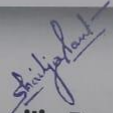
Approved by Government of Uttarakhand, IAP and NCTE

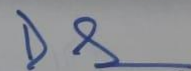
Recognized by Uttarakhand Paramedical Council, Registered by UGC u/s. 2(f)

## CERTIFICATE of PARTICIPATION

awarded to Dr./Mr./Ms. Shrdha Anand  
of G.G.M Science College, Jammu, Dated 10-11 March 2022  
for participation as / Resource person / Member Organizing committee / Online  
Presenting poster in UCOST funded two days workshop on "Intellectual  
Property Right (IPR)", organized by Research Advisory Committee in  
association with Department of Pharmaceutical Chemistry & Chemistry.

  
(Dr. Versha Parcha)  
Chairperson, RAC

  
(Dr. Shailja Pant)  
Principal

  
(Dr. D.P Uniyal)  
Joint Director, UCOST

Certificate No.:



## CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

**Dr. Jagjeet Singh**

*Assistant Professor*

For his / her participation in the Online National Webinar on

*"Understanding Customer with a Mobile Phone"*

Organized by

**Department of Management Studies  
Baba Ghulam Shah Badshah University, Rajouri**

On  
25<sup>th</sup> March 2022

  
Convener

  
Organizing Secretary

  
Organizing Secretary



## Certificate of Participation

This is to certify

Prof. / Dr. / Mr. / Mrs. Madhvi Bhardwaj [Assistant Professor] from G.G.M. Science College, Jammu

attended two week FDP on "Higher Education in the Post Covid-19-Era: Challenges, Strategies and Innovations" held from 14th February to 27th February 2022 organised by Centre for Hospitality and Tourism, School of Management Studies, Baba Ghulam Shah Badshah University, Rajouri, Jammu and Kashmir, India.

NO. B.G.SBU/CHT/241-47

DATE 14-03-2022

FDP CONVENER

DEAN  
SCHOOL OF MANAGEMENT STUDIES



### ACT Research Convention 2021

#### International Webinar on Chemistry Education (IWCE-2021)

Organized by

Amur Sewa Mandali,

Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur

(Reaccredited - A+ grade with CGPA of 3.0)

and

Department of Chemistry, Govt. Madhav Science PG College, Ujjain

(Reaccredited - A+ grade with CGPA of 3.0)

(In Association with)

Association of Chemistry Teachers (ACT), Mumbai

C/o Homi Bhabha Centre for Science Education (TIFR), Mumbai

### Certificate

Dr Madhvi Bhardwaj

This is to certify that \_\_\_\_\_  
of G.G.M.Science college, Jammu \_\_\_\_\_ has participated in  
International Webinar on Chemistry Education (IWCE-2021) on 4th - 5th February 2022, organized by  
Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur, Department of Chemistry, Govt. Madhav  
Science PG College, Ujjain, Association of Chemistry Teachers (ACT), Mumbai **QZZBQA-CE000308**

Prof. Brijesh Pare  
President  
ACT

Prof. D. V. Prabhu  
General Secretary  
ACT

Dr. N. B. Ganule  
Convener  
IWCE-2021

Prof. M. Swaminathan  
Co-convener  
IWCE-2021

Made for free with Certify'em



**Baba Ghulam Shah Badshah University**  
**Rajouri J&K**  
**Internal Quality Assurance Cell (IQAC)**

**CERTIFICATE OF PARTICIPATION**

ID BGSBU/IQAC/WS/22/101

This is to certify that **Dr Madhvi Bhardwaj**, Assistant Professor of **G.G.M.Science College, Jammu** has successfully attended One Week Virtual Workshop on **"Towards Smart Teaching"** organised by Internal Quality Assurance Cell (IQAC) in collaboration with Centre for Hospitality and Tourism, Baba Ghulam Shah Badshah University from 4th of April to 10th of April, 2022.

Prof. Iqbal Parwez  
Dean Academic Affairs  
BGSBU

Dr. Vinay Kumar  
IQAC Coordinator  
BGSBU



Dr. Javid Iqbal  
(Convener)  
Co-coordinator IQAC  
BGSBU

Dr. Danish Iqbal Raina  
Deputy Director, CHT  
BGSBU



**G.G.M SCIENCE COLLEGE JAMMU**

A CONSTITUENT COLLEGE OF CLUSTER UNIVERSITY OF JAMMU

*Certificate of Participation*

This is to certify that **Dr. Madhvi Bhardwaj** of **Department of Chemistry, G.G.M Science College Jammu** has participated in "One Day International Lecture on Metamaterials: A new Paradigm of Physics and Engineering" held on 31<sup>st</sup> March, 2022 at Department of Physics, G.G.M Science College Jammu.



Prof. Rajesh Bhardwaj  
Coordinator

Prof. Ravi Kant Sharma  
Convener

Dr. Ravender K. Tickoo  
Principal





# CENTRAL UNIVERSITY OF JAMMU

Rahya-Suchani (Bagla), Distt. Samba, J&K UT - 181143 (INDIA)



SERB Sponsored

Online One-Day Workshop on

## "Biofuels and Green Technologies (BGT-2022)"

MARCH 8, 2022

No. CUJ/EVS/BGT/P-31

### CERTIFICATE OF PARTICIPATION

This is to certify that

*Dr. Madhvi Bhardwaj*

from **G.G.M.Science College, Jammu**

has participated and attended sessions of Online One-Day Workshop on "**Biofuels and Green Technologies (BGT-2022)**" organized by Department of Environmental Sciences, Central University of Jammu, J&K.

**Dated: March 08, 2022**

**Dr. Anita Singh**

Workshop Convener, BGT-2022  
Department of Environmental Sciences

### G.G.M SCIENCE COLLEGE , JAMMU

A Constituent College of Cluster University of Jammu



This is to certify Dr Deepak Kumar, Assistant Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in a Seminar on "Chemistry Wonderful Science in Improving Human Life" on Science Day (28<sup>th</sup> February 2022) organized by Department of Chemistry G.G.M Science College, Jammu.

Dr. Ravender Tickoo  
Principal

Dr. Poonam Kamotra  
HOD, Chemistry



# Dolphin (PG) Institute of Biomedical & Natural Sciences, Dehradun



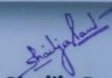
Affiliated to H.N.B. Garhwal Central University, Srinagar, Garhwal, Uttarakhand

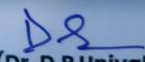
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## CERTIFICATE of PARTICIPATION

awarded to Dr./Mr./Ms. Deepak Kumar  
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for participation as / Resource person / Member Organizing committee / Online  
Presenting poster in UCOST funded two days workshop on "Intellectual  
Property Right (IPR)", organized by Research Advisory Committee in  
association with Department of Pharmaceutical Chemistry & Chemistry.

  
**(Dr. Versha Parcha)**  
Chairperson, RAC

  
**(Dr. Shailja Pant)**  
Principal

  
**(Dr. D.P Uniyal)**  
Joint Director, UCOST



## Govt. Gandhi Memorial Science College Jammu

A Constituent College of CLUSTER UNIVERSITY OF JAMMU



### Certificate of Participation

This is to certify that Dr Deepak Kumar Assistant Professor, Govt. Gandhi Memorial Science  
College

has participated in the sensitization program **TOBACCO FREE EDUCATIONAL INSTITUTE  
INITIATIVE** held on 8<sup>th</sup> April 2022 at GGM SCIENCE COLLEGE JAMMU



Dr. Deepali Mahajan  
Program Coordinator



Dr. Ravender Tickoo  
Principal

Made for free with Certify'em



# G.G.M SCIENCE COLLEGE JAMMU

A CONSTITUENT COLLEGE OF CLUSTER UNIVERSITY OF JAMMU

## *Certificate of Participation*

This is to certify that Dr. Deepak Kumar of Department of Chemistry, G.G.M Science College, Jammu has participated in "One Day International Lecture on Metamaterials: A new Paradigm of Physics and Engineering" held on 31<sup>st</sup> March, 2022 at Department of Physics, G.G.M Science College Jammu.



Prof. Rajesh Bhardwaj  
Coordinator

Prof. Ravi Kant Sharma  
Convener

Dr. Ravender K. Tickoo  
Principal





**A TWO DAY  
INTERNATIONAL CONFERENCE  
ON**

**RECENT ADVANCES IN CHEMICAL SCIENCES**

***Certificate***

This is to Certify that Dr. Deepak Kumar, Assistant professor, G.G.M. Science College, Jammu, India has presented a paper titled Structural Investigation, Photophysical Properties, Redox Activity and Microbial Evaluation of Asymmetrical Porphyrins and their Thallium (III) Complexes with various Axial Ligands in the Two Day International Conference on Recent Advances in Chemical Sciences Organised by The Department of Chemistry, Governemnt College for Women, Parade Ground, Jammu, India in collaboration with Cape Comorin Trust, India & Cape Comorin Publisher, India from 10 January to 11 January 2022.

**Dr. Gurpreet Kour**  
Organising Secretary  
Assistant Professor, Chemistry

**Dr. Avinash K. Gupta**  
Convener  
HoD, Chemistry

**Dr. R. S. Regin Silvest**  
President, Cape Comorin Trust

**Prof. (Dr.) S. P. Sarswat**  
Principal  
Government College for Women  
Parade Ground, Jammu



**International Faculty Development Programme**  
on  
**Empowering Teacher Education and Technology**  
Certificate

**This is to Certify that Deepak Kumar, Assistant Professor, Government Gandhi Memorial Science College Jammu has Participated in the International Faculty Development Programme on Empowering Teacher Education and Technology Jointly Organized by GDC Darhal, UT of J&K and Cape Comorin Trust, India from 22-28th Febuary 2021**

**Dr. Ather Aziz Raina**  
Organizing Secretary

**Dr. R. S. Regin Silvest**  
Cape Comorin Trust

**Prof. Sumanesh Jasrotia**  
Principal GDC Darhal

## G.G.M SCIENCE COLLEGE , JAMMU

A Constituent College of Cluster University of Jammu



This is to certify Prof. Asha Sharmhal, Assistant Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in a Seminar on "Chemistry Wonderful Science in Improving Human Life" on Science Day (28<sup>th</sup> February 2022) organized by Department of Chemistry G.G.M Science College, Jammu.

Dr. Ravender Tickoo  
Principal

Dr. Poonam Kamotra  
HOD, Chemistry





## Webinar on Financial Literacy



### Certificate of Participation

This is to certify that Prof. Asha Samrhal, Assistant Professor, G.G.M Science College, Jammu participated in a webinar on the topic "*Financial Literacy*" on 27th August 2021 organized by Reserve Bank of India, Jammu in collaboration with the Women's Studies Centre, G.G.M Science College, Jammu.

Dr. Ravender Tickoo  
Principal

Sh. Ramesh Chand  
Banking Ombudsman, RBI

Dr. Vandana Khajuria  
Convener

## G.G.M SCIENCE COLLEGE, JAMMU

A Constituent College of Cluster University of Jammu

### Certificate of Participation

This is to certify that Prof. Asha Samrhal of GGM Science College ..... participated in an online national seminar on "*Intellectual Property Rights*" on 6<sup>th</sup> September 2021 organized by IQAC-NAAC in collaboration with the Department of Chemistry, G.G.M Science College, Jammu.



Dr. Ravender Tickoo  
Principal

Dr. Poonam Kamotra  
HOD, Chemistry



**GGM Science College Jammu**  
**Department of Zoology**



**Certificate of Participation**

**This Certificate Goes to**  
**Prof. Asha Sharmhal**

**GGM Science College Jammu**

**for participating in one day Webinar on 'Cyber  
crime against women' held on 4th April 2022**

**Dr Ravender Tickoo**  
Principal GGM Science College Jammu

**Dr Anil K Verma**  
Head Department of Zoology



## Govt. Gandhi Memorial Science College Jammu

A Constituent College of CLUSTER UNIVERSITY OF JAMMU



### Certificate of Participation

This is to certify that Asha Sharmhal Assistant Professor , GGM Science College, Jammu has participated in the sensitization program **TOBACCO FREE EDUCATIONAL INSTITUTE INITIATIVE** held on 8<sup>th</sup> April 2022 at GGM SCIENCE COLLEGE JAMMU

Dr. Deepali Mahajan  
Program Coordinator

Dr. Ravender Tickoo  
Principal

Made for free with Certify'em



## UGC-HUMAN RESOURCE DEVELOPMENT CENTRE UNIVERSITY OF HYDERABAD

Hyderabad - 500 046



### CERTIFICATE OF PARTICIPATION

This is to certify that Ms. Asha Sharmhal , Assistant Professor in Chemistry , GGM Science College, Jammu has successfully completed two weeks online **Refresher Course in Chemistry** organized by the Human Resource Development Centre, University of Hyderabad from 8<sup>th</sup> to 20<sup>th</sup> November, 2021 and obtained grade 'A'.

Dr. K. Muralidharan  
Course Coordinator

Certificate ID: HRDCRCC26

Y. Narasimhulu  
Director

Grade 'A+'  
85% and above

Grade 'A'  
84% to 70%

Grade 'B'  
69% to 60%

Grade 'C'  
59% to 50%

Grade 'F'  
less than 49%



# G.G.M SCIENCE COLLEGE JAMMU

A CONSTITUENT COLLEGE OF CLUSTER UNIVERSITY OF JAMMU

## Certificate of Participation

This is to certify that **Prof. Asha Sharmhal** of **Department of Chemistry, G.G.M Science College Jammu** has participated in "One Day International Lecture on Metamaterials: A new Paradigm of Physics and Engineering" held on 31<sup>st</sup> March, 2022 at Department of Physics, G.G.M Science College Jammu.



Prof. Rajesh Bhardwaj  
Coordinator

Prof. Ravi Kant Sharma  
Convener

Dr. Ravender K. Tickoo  
Principal



## Baba Ghulam Shah Badshah University-Rajouri J&K Internal Quality Assurance Cell (IQAC)

**CERTIFICATE OF PARTICIPATION**

VNTLDQ-CE000111

This is to certify that **Asha Sharmhal**, **Assistant Professor** of **GGM Science College, Jammu** has successfully attended One Day Webinar on **The Blockchain Technology Revolution** organised by Internal Quality Assurance Cell (IQAC), Baba Ghulam Shah Badshah University on 12th of February, 2022.

Dr. Vinay Kumar  
Coordinator IQAC

Prof. Asif Hussain  
Chairman IQAC

Made for free with Certify'em

**G.G.M SCIENCE COLLEGE , JAMMU**

A Constituent College of Cluster University of Jammu



This is to certify that Dr. Sushma Sharma, Assistant Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in an online Inter-college Solo Song competition on Teachers Day(5<sup>th</sup> September 2021) organized by Literary Committee of G.G.M Science College, Jammu.

*Jkumar*

Prof Jagdish Kumar

Convener, Literary Committee

*Rn*

Dr. Ravender Tickoo

Principal

**G.G.M SCIENCE COLLEGE , JAMMU**

A Constituent College of Cluster University of Jammu



This is to certify that Dr. Sushma Sharma, Assistant Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in a Seminar on "Conservation and Management of Natural Resources" on National Pollution Day (2<sup>nd</sup> December 2021) organized by Department of Chemistry G.G.M Science College, Jammu.

*Kamotra*

Dr. Poonam Kamotra

HOD Chemistry

*Rn*

Dr. Ravender Tickoo

Principal

**G.G.M SCIENCE COLLEGE , JAMMU**  
A Constituent College of Cluster University of Jammu



This is to certify Dr Sushma Sharma, Assistant Professor, Department of Chemistry G.G.M Science College, Jammu acted as Organizing member in a Seminar on "Chemistry Wonderful Science in Improving Human Life" on Science Day (28<sup>th</sup> February 2022) organized by Department of Chemistry G.G.M Science College, Jammu.

Dr. Ravender Tickoo  
Principal

Dr. Poonam Kamotra  
HOD, Chemistry





## Govt. Gandhi Memorial Science College Jammu

A Constituent College of CLUSTER UNIVERSITY OF JAMMU



### Certificate of Participation

This is to certify that Dr Sushma Sharma Assistant Professor , GGM Science College Jammu has participated in the sensitization program **TOBACCO FREE EDUCATIONAL INSTITUTE INITIATIVE** held on 8<sup>th</sup> April 2022 at GGM SCIENCE COLLEGE JAMMU

Dr. Deepali Mahajan  
Program Coordinator

Dr. Ravender Tickoo  
Principal

Made for free with Certify'em

## G.G.M SCIENCE COLLEGE, JAMMU



A Constituent College of Cluster University of Jammu



### Certificate of Participation

This is to certify that Dr Sushma Sharma FACULTY, GGM Science College Jammu participated in an online National Seminar on "*Intellectual Property Rights*" on 6<sup>th</sup> September 2021 organized by **IQAC-NAAC** in collaboration with the Department of Chemistry and NSS G.G.M Science College, Jammu.

Dr. Deepali Mahajan  
NSS PO

Dr. Poonam Kamotra  
HOD, Chemistry  
Department

Dr. Ravender Tickoo  
Principal

Made for free with Certify'em



## CENTRAL UNIVERSITY OF JAMMU

Rahya-Suchani (Bagla), Distt. Samba, J&K UT - 181143 (INDIA)



SERB Sponsored

Online One-Day Workshop on

**"Biofuels and Green Technologies (BGT-2022)"**

MARCH 8, 2022

No. CUJ/EVS/BGT/P-42

### CERTIFICATE OF PARTICIPATION

This is to certify that

*Dr. Sushma Sharma*

from **GGM Science College Jammu**

has participated and attended sessions of Online One-Day Workshop on **"Biofuels and Green Technologies (BGT-2022)** organized by Department of Environmental Sciences, Central University of Jammu, J&K.

Dated: March 08, 2022

**Dr. Anita Singh**

Workshop Convener, BGT-2022  
Department of Environmental Sciences




## Webinar on Financial Literacy



### Certificate of Participation

This is to certify that Dr. Sushma Sharma, Assistant professor, G.G.M Science College, Jammu participated in a webinar on the topic "*Financial Literacy*" on 27th August 2021 organized by Reserve Bank of India, Jammu in collaboration with the Women's Studies Centre, G.G.M Science College, Jammu.

  
Dr. Ravender Tickoo  
Principal

  
Sh. Ramesh Chand  
Banking Ombudsman, RBI

  
Dr. Vandana Khajuria  
Convener



### A TWO DAY INTERNATIONAL CONFERENCE ON





### RECENT ADVANCES IN CHEMICAL SCIENCES


#### *Certificate*

This is to Certify that **Dr Sushma Sharma, Assistant Professor, Department of Chemistry, GGM Science College Jammu** has presented a paper titled **Variation of Crystal Symmetry and Physical Properties of New RP phases in the Two Day International Conference on Recent Advances in Chemical Sciences Organised by The Department of Chemistry, Governemnt College for Women, Parade Ground, Jammu, India in collaboration with Cape Comorin Trust, India & Cape Comorin Publisher, India from 10 January to 11 January 2022.**

  
Dr. Gurpreet Kour  
Organising Secretary  
Assistant Professor, Chemistry

  
Dr. Avinash K. Gupta  
Convener  
HoD, Chemistry

  
Dr. R. S. Regin Silvest  
President, Cape Comorin Trust

  
Prof. (Dr.) S. P. Sarswat  
Principal  
Government College for Women  
Parade Ground, Jammu



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

**Dr Sushma Sharma**

of

Department of Chemistry, GGM Science College Jammu, Constituent College of Cluster  
University of Jammu

has successfully completed online Two - Week Interdisciplinary REFRESHER COURSE on

**"Advanced Research Methodology"**

from 22 March - 05 April, 2022 and obtained

Grade **A±**.



Blockchain Hash: [0a0849c39e726a0711c2912386e2573e11f965b9f7a0f039d055e808f49906ebb7](https://www.blockchain.com/transaction/0a0849c39e726a0711c2912386e2573e11f965b9f7a0f039d055e808f49906ebb7)

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

Dr. Ashish kr. Shukla  
(Convener)  
Ramanujan College



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

**Dr. Sushma Sharma**

of

Department of Chemistry, GGM Science College Jammu  
has successfully completed ONLINE TWO - WEEK INTER-DISCIPLINARY REFRESHER  
COURSE/FACULTY DEVELOPMENT PROGRAMME on

**"Managing Online Classes & Co- creating MOOCS 6.0"**

from 05 - 19 July, 2021 and obtained

Grade **A±**.



Blockchain Hash: [af8ec3b7a117ba31a7a5e20a10e27d4b35878fca928a3c2ba6699f9ba261ccf](https://www.blockchain.com/transaction/af8ec3b7a117ba31a7a5e20a10e27d4b35878fca928a3c2ba6699f9ba261ccf)

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

Mr. Vipin Rathi  
(Convener)  
Ramanujan College



Teaching Learning Centre, Ramanujan College, University of Delhi  
in collaboration with  
Miranda House, 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

**Dr.Arti Heer**

of

Department of Biochemistry, G.G.M Science College, Cluster University of Jammu, J&K (UT)  
has successfully completed online Two – Week Refresher Course in  
“LIFE SCIENCES”  
from 01 – 15 September, 2021 and obtained  
Grade A±.



Blockchain Hash: [0x6ba3d7d9b4511e275118e4878e57348efc720c08d4717e9493c7a29da0b75cccd](https://www.blockchain.com/explorer/transactions/ETH/0x6ba3d7d9b4511e275118e4878e57348efc720c08d4717e9493c7a29da0b75cccd)

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

Dr. Anshika Lumb  
Convener  
Miranda House

Dr. Mallika Pathak  
(Programme Director)  
Miranda House



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

**Dr.Arti Heer**

of

Department of Biochemistry, G.G.M Science College, Cluster University of Jammu, J&K (UT)  
has successfully completed Online one week Faculty Development Programme on  
“ACADEMIC ADMINISTRATION”  
from 03 - 09 August, 2021 and obtained  
Grade A±.



Blockchain Hash: [0x22010700e4449b98e9e4a8bcbec13c53036420a678f6eef316d1cc9c1e61c](https://www.blockchain.com/explorer/transactions/ETH/0x22010700e4449b98e9e4a8bcbec13c53036420a678f6eef316d1cc9c1e61c)

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

Ms. Shipra Yadav  
(Convener)  
Ramanujan College

# G.G.M SCIENCE COLLEGE, JAMMU



A Constituent College of Cluster University of Jammu



## Certificate of Participation

This is to certify that DR. ARTI HEER FACULTY, GGM Science College , Cluster University of Jammu J&K (UT) participated in an online National Seminar on "*Intellectual Property Rights*" on 6<sup>th</sup> September 2021 organized by **IQAC-NAAC** in collaboration with the Department of Chemistry and NSS G.G.M Science College, Jammu.

Dr. Deepali Mahajan  
NSS PO

Dr. Poonam Kamotra  
HOD, Chemistry  
Department

Dr. Ravender Tickoo  
Principal

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**AUXILIUM COLLEGE (Autonomous)**

Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3<sup>rd</sup> cycle  
Gandhi Nagar, Vellore, Tamil nadu, India



**CERTIFICATE OF PARTICIPATION**

This is to certify that

Dr. Arti Heer

has participated in the International Webinar on

**Advances in Life science**

organized by the

PG Department of Biochemistry, Auxilium College

(Autonomous), Vellore on 20.03.2021.

*Dr. Sr. R. Jayashanthi*  
PRINCIPAL

*Dr. G. AbiBeaulah*  
HEAD OF THE DEPARTMENT

This is a digitally generated certificate that does not require signature



**Webinar on Financial Literacy**



**Certificate of Participation**

This is to certify that Dr. Arti Heer, Assistant Professor, G.G.M Science College, Jammu participated in a webinar on the topic "*Financial Literacy*" on 27th August 2021 organized by Reserve Bank of India, Jammu in collaboration with the Women's Studies Centre, G.G.M Science College, Jammu.

*Rst*  
Dr. Ravender Tickoo  
Principal

*[Signature]*  
Sh. Ramesh Chand  
Banking Ombudsman, RBI

*Vandana*  
Dr. Vandana Khajuria  
Convener



Amar Sewa Mandal's

**KAMLA NEHRU MAHAVIDYALAYA**

(Reaccredited A\* Grade with CGPA 3.53)

Organizes

National Level One-Week Faculty Development Programme on

**RESEARCH METHODOLOGY**

**Certificate of Participation**

This is to certify that

**DR. ARTI HEER**

of

**GGM SCIENCE COLLEGE JAMMU**

has participated in

National Level one week Faculty Development Programme on Research Methodology, from 26th April to 1st May 2021 organized by Amar Sewa Mandal's Kamla Nehru Mahavidyalaya, Nagpur.

Certificate no: **XMGEUG-CE002873**

Adv. Abhijit Wanjarri  
MLC & Secretary  
Amar Sewa Mandal, Nagpur

Dr. D. S. Badwaik  
Principal  
Kamla Nehru Mahavidyalaya, Nagpur

Prof. W. B. Gurnule  
Convenor, FDP  
Kamla Nehru Mahavidyalaya, Nagpur

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