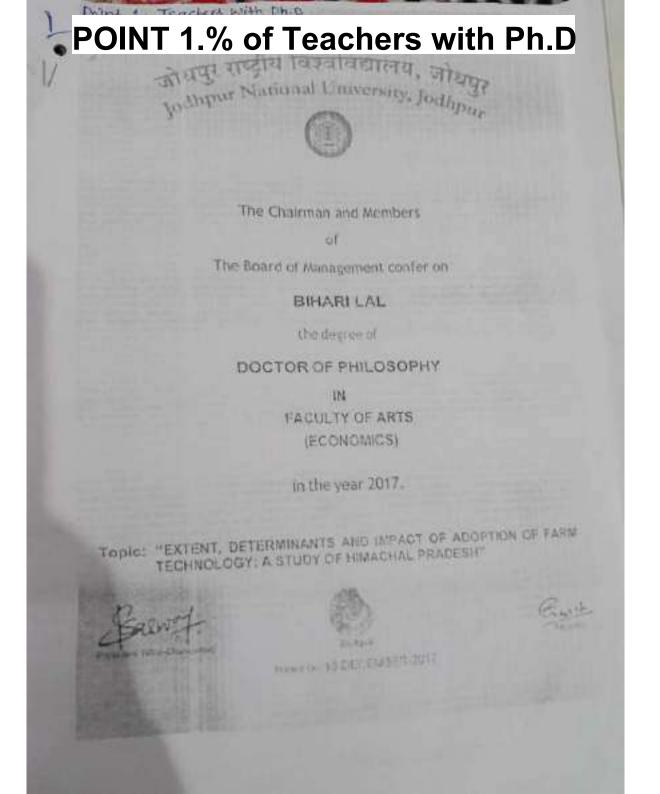
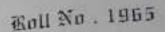
SAR Criteria-6







Panjah University

Doctor of Philosophy

In the faculty of Design & Fine Acts

Certified that son of Shri

Balbir Chand

. Rend. No.

2003-mus-02 , and of

Kewal Ram

Himachal Pradesh . has obtained the degree of Doctor of Philosophy

of this University on the result of the examination held in 2011

Given under the seal of the University

Controller of Examinations

Registrar



Dice Chancellor

Chancellor



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय

(केंद्रीय विश्वविद्यालय अधिनियम 2000 के अधीन स्थापित)

हारा

शैक्षणिक परिषद औ संस्तुति पर

प्रतीक देसवाल सुपुत्र श्रीमती उर्मिल देसवाल एवं श्री सतवीर सिंह देसवाल

को मानविकी एवं भाषा स्कूल के अंतर्गत विश्वविद्यालय अनुदान आयोग (एम फिल/पी एच डी उपाधि के लिए न्यूनतम मानक एवं प्रक्रिया)

विनियम, 2009 के अनुसार

शोध प्रवंध : "Counter-Narratives in the Select Fiction of J. M. Coetzee"

पर शोध

कार्य सफलतापूर्वक पूर्ण करने पर

विद्यावाचस्पति

की उपाधि प्रदान की जाती है।

CENTRAL UNIVERSITY OF HIMACHAL PRADESH

(Established under Central Universities Act 2009)

on the recommendation of the Academic Council confers on

Prateek Deswal 5/o Smt. Urmil Deswal and Sh. Satvir Singh Deswal the degree of

Doctor of Philosophy (Ph.D.)

on successful completion of the research work

Thesis "Counter-Narratives in the Select Fiction of J. M. Coetzee"

in accordance with the

UGC (Minimum Standards and Procedure for the award of M.Phil./Ph.D. degrees) Regulations, 2009 in the School of Humanities & Languages

कुलसंचिव Registrar

स्तुलन ३५५ परीक्षा नियंत्रक

Controller of Examination

्री<u>क</u>

Vice-Chancellor

Serial Vo.: 15Ph.D.23

Registering No.] 389-Ph.O. Chem 188

National Institute of Technology, Hamirpur (Himachal Pradesh)

Upon the recommendation of the Senate hereby confees the degree of Doctor of Philosophy

> in Chemistry

> > .012

NITESH KUMAR

THESIS TITLE: SYNTHESIS, CHARACTERIZATION, CYTOTONIC AND DNA BINDING STUDIES OF TITANBUM COMPLEXES

Given at Hamirpur (H.F.) on this day under the seal of the Institute in the Republic of India.

राष्ट्रीय प्रौद्योगिकी संस्थान, हमीरपुर (हिमाचल प्रदेश)

अभिषद की अनुशता पर विद्या वायस्पति की छपाधि

रसायन एतद्द्वारा

नितेश कुमार

को प्रदान करता है।

शास्त्रक शार्वकः मिन्यसिस, करेक्टसङ्चेषन, साइटोटोवसिक एन्ड डीएनए वाडीडेंग स्टडींज मोफ टाइटिनियम कॉन्यलेवसिस

भारतीय गणतन्त्र के अन्तर्गत हमीरपुर (हि.प्र.) में इस दिगांक को संस्थान की मुद्रा ऑकत यह उपाधि है। गई।

Chairman, Board of Governors अध्यक्ष, अभिशासक परिषद Director & Chairman, Senate निर्देशक एवं अध्यक्ष, अभिषय्



Himachal Prodesh University (NAAC Accredited "A" Guide University? "Examination Branch" Burnoun Hill, Sonmh-171005

sotification No. Ph. D.2021-12

Dured: 150 November, 2021

In passance of the proven cuter in him by the Executive Council of Himschal Products in 1983 and to be expected by Thomas Inc. 103 of his weeting held on 28th December, 1987, the Vice-Charactiles in Will-Oxford the Thomas of Council and the Second Council and Council an seasons to become the Thesis of following cancidents for the award of the degree of ODC FOR OF "HILOSOPHY" in the Secretary of Total of the secretary of the United Secretary of the Secretary of

1	of DUCTOR OF PAI Name of the Condidate (Registration No.)	Farulty (Subject)		Date of approval by fire V.C.
3	Ma. Kumlesh Kumari DVo Sh. Jagetah Chand (06-HRA-1080)	Life Sciences (Zaology)	*KARYOTYPIC STUDIES OF SPECIES OF ROSE APHIDS [FIDMOSTERA: APHIDIDAE) FROM HIMACHAL PRADESIL	99.1(3021
	Mg. Palloyi Spoot	Commerce and Management Studio (Management Senties)	BANKING SECTOR: A STUDY OF MANAGEMENT AND CUSTOMERS	
3.	Ms. Tumanne D/o Sn. Madan Lai (07-BC-177)	Physical Sciences (Physics)	OPTICAL PROPERTIES OF CHALCOGENIDE CLUSTERS: A FIRST PRINCIPLE STUDY."	20.11.2021
4	Me. Monika Parmar Din Sh. Man Chand	Social Sciences (Economies)	"REGIONAL DISPARITIES OF COMMERCIAL BANKING IN INDIA."	20.11.202

NB. The effective date in each case montioned above will be the date of approximal by the Vice-Chanceller.

Denuty Registrat (Exams) H.P. University, Shirala-5

Controller of Examinations VI.P. University, Shimle-7

Dated: 25.11 2021

Endst No. Even:

Copy to:-

1. Student concerned

2. The SPS to Vice-Chancellor/Deat of Studies/Registrat, H.P. University, Shimla-171105.

3. The Chairman/Chairperson Zoology, Management Studies, Physics & Economics H.P.U., Shanta-5.

4. Prof. D.C. Gautana, Dr. Ponect Bhushan, Frof. Reman Sharma & Prof. E.C. Sharma Supervisor of the condidutes.

5. The Librarian, H. P. University, Shimla-171005

6. The Deputy Registrar (Secreey) w.r.t. their latter No PH-178: AIPU/Secy-639, PH-3845/HP(1/Sect)-637 dated 16.11.2021, PH-3838/HPU/Secy-651 & Ph-1785/HPU/Secy dated 22 11 2021 .

7. The Incharge Computer Centre B. Tech. Section H.F. University, Suindu-5 wife the request to apland the obase Norification on the University Website.

& Guard file

Selection No. 26, 112422 In-

District " November 2002

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POINT 2. Teachers as Research Guides

DEPARTMENT OF GEOGRAPHY HIMACHAD PRADESH UNIVERSITY SUMMER HILL SHIME A-171005

To

Osted: Shimla-5, the 19th August, 2021.

Mr.Sarjeev Kumae S'o Sh. Hart Ram. Village Kundi, P.O. Sidhot, Tehsil Churuh, Distt. Chamba 176321 (H.P.)

Subjects

Regarding approval of topic.

Dear Student.

am to inform you that Research Degree Commings in the Faculty of Physical Sciences in the subject of Congrepty in its meeting told on 19.08.2021 has consider the research Plan submetted by you the Ph.D. in the topic entitled:

"SOCIO-ECONOMIC DE VELOPMENT IN HEARMOUR BLOCK OF HIMACHAL PRADESH: A SPATIO-TEMPORAL ANALYSIS*

moder the guidance of Dr. Sanjay Kumur approved the same

Basiden, you have not so far attended to the discrepancy (les) pointed out to you side this office letter dated . Therefore, you are again advised to do the necession at the earliest failing which has already informed, your Ph.D. thesis will not be accepted.

Your faithfully

Dept of Geography H.P. University: Shimb-5

Emilit. No. itsen.

DateJ

Dr Sargay Kumar, Supervisor, Department of Geography, NSCBM Ci-C. Hamispur (H.P.)

Librarian Association of Indian Universities, AID House, 16 Kota Marg. New Delin

The A.R. (Academic), H.P.D. Shimia-S.

Personal file of the candidate

A. houciroits.

No.13-32, 122)MPU(Geog.)2019 DEPARTMENT OF GEOGRAPHY HIMACHAL PRADESH UNIVERSITY SUMMER HILL, SHIMI, A.171022

To

Dwed: Shimle-5, the 10° August, 2021

Mr.Deepak Kumar Singh S./o Sh. Inder Singh, Villago Upper Nokali, P.O. Nohali, Tehsil Joginder Nagar, Distt. Mandi (H.P.) Pin-175015

Subjecti

Regarding approval of topic

Dear Student

I am to inform you that Research Degree Committee in the Faculty of Physical Sciences in the subject of Geography in its meeting held on 19.08.2021 has consider the research Plan informitted by you for Ph.D. in the topic entitled.

A SPATIO-TEMPORAL ANALYSIS OF DEMOGRAPHIC CHANGES IN MANDI TOWN. HIMACHAL PRADESH (1971-2021

under the guidance of Dr.Sanjay Kumur approved the same.

Besides, you have not so for attended to the discrepancy; es) pointed out to you vide this office letter dated. Therefore, you are again advised to do the needful at the earliest follow which has already informed, your Ph.D. these will not be accepted.

Yours faithfully.

Chairman Dept. of Geography H P University Shinta 5

Embt. No. Logi. Copy to: Dateil

Dr.Saniay Kumin, Supervisor, Department of Geography, NSCBM, G.C. Hamilpur, Librarian Association of Judian Universities, AIU House, 16 Kotla Marg. New Delhi.

The A.R. (Academic), H.P.U. Shimle-5

4. Personal life of the candidate.

Chainman

POINT 3 OP, FDP, WORKSHOP Attended by Teachers.



Guru Angad Dev
Teaching Learning Centre
A Centre of Ministry of Education
under PMMMNMTT



सत्यमेव जयते Government of India Ministry of Education



Pillal College of Arts, Commerce & Science (Autonomous), New Panvel

Certificate

17th August to 30th August 2021
TWO WEEK ONLINE INTER-DISCIPLINARY REFRESHER COURSE/FACULTY DEVELOPMENT PROGRAM
DIGITAL TOOLS IN HIGHER EDUCATION

This is to certify that

RANJU of GOVT. COLLEGE. JHANDUTTA(HPU SHIMLA)

has successfully completed Two Week Online Inter-Eisciplinary Refresher Course/Faculty Development Program jointly organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi and Pillai College of Arts, Commerce & Science, Teaching – Learning Centre under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of Ministry of Education. This was conducted in online mode with two weeks involvement in a flexible mode. This online Refresher Course is equivalent to face to face Refresher Course. The two weeks involvement included attendance during live/recorded sessions, hands on activities, submission of Quizzes, Assignments and Project, The participant has obtained GRADE "A" as required for promotion under CAS of UGC and AICTE.

Prof. Jaswinder Singh Principal S.G.T.B. Khahn College University of Delhi

Dr. Gajanas Wader Principal Pillai College of Arts, Commerce Dr. Vitnal Rarh
Project Hazd & Joint Director
GAD-TLC of Ministry of Education



UNIVERSITY GRANTS COMMISSION

HUMAN RESOURCE DEVELOPMENT CENTRE

UNIVERSITY OF RAJASTHAN, JAIPUR

University with 'A' Grade & UPE Status HRDC RANKED 2[™] BY NAAC, 2012





UGC-SPONSORED REFRESHER COURSE

Certificate of Participation

This is to certify that

Dr./Ms./Mrs. Ranju, Assistant Professor, Performing Art (Music-Vocal)
(Name of Participant, Designation & Subject)

Govt. College Jhandutta, Bilaspur (Himachal Pradesh)

(College/University), (Place)

Participated in Refresher Course in Gender, Media and Social Transformation (Interdisciplinary) organised from 17th September, 2021 to 30th September, 2021 and obtained Grade 'A'

Prof. Alpana Kateja
Director
Human Resource Development Centre

Kainley Vaema

Dr. Kanika Varma Course Coordinator & Department of Home Science Prof. Rajeev Jain Vice-Chancellor University of Rajasthan

GOVERNMENT MEERA GIRLS COLLEGE UDAIPUR (RAJ.)



One Week Workshop

on

"Training and Performance of various singing styles of Indian Music"

13th to 18th December, 2021

Organized by Sangeet Parishad, Department of Music

CERTIFICATE OF PARTICIPATION

This is to certify that DR./MS./MR BALBIR CHAND, ASSISTANT PROFESSOR, GOVT. COLLEGE SIHUNTA DISTRICT CHAMBA HIMACHAL PRADESH has Participated in the Online Workshop on "Training and Performance of Various Singing Styles of Indian Music" From 13th - 18th December, 2021.

Dr.Shashi Sanchiher Principal

Dr. Seema Rathore Convener and Organising Secretary



under the aegis of
MINISTRY OF EDUCATION
PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Archna Sharma

of

Department of Hindi, Govt College Jhandutta, Distt. Bilaspur, Himachal Pradesh successfully completed a 4-Week Induction/Orientation Programme for

"Faculty in Universities/Colleges/Institutes of Higher Education"

from 21 March – 19 April, 2022 and obtained Grade A+.





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

Dr. Ashish Kumar Shukla (Convener) Rumanujan College



RAMANUJAN COLLEGE

In Collaboration with
KIRORI MAL COLLEGE
(Accredited Grade 'A' by NAAC)
UNIVERSITY OF DELHI
under the aegis of
MINISTRY OF EDUCATION

PANDIT MADERN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHINE

This is to certify that

Mr. Rajender Kumar

of

Department of Geography, SV Govt. College Ghumarwin, District Bilaspur (HP)
has successfully attended and completed Two week Refresher Course on
"Recent Trends in Geography"
from 26 June – 10 July, 2022 and obtained
Grade A.



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



16 200

Prof. H. B. Rathod (Principal) Gramin (ACS) Mahavidyalaya



under the begis of
MINISTRY OF EDUCATION
PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Dr. Nitesh Kumar

φf

Department of Chemistry, Govt College Jukhala, District Bilaspur, Himachal Pradesh. successfully completed a 4-Week Induction/Orientation Programme for

"Faculty in Universities/Colleges/Institutes of Higher Education"

from 21 March – 19 April, 2022 and obtained Grade A+.



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Prof. 5. P. Aggarwal (Principal & Director) TLC, Ramanujan College

Muntep

Dr. Ashish Kr. Shukla (Convener) Ramanujan College



. LY 4 . LY 3

E-WORKSHOP ON HOW TO WRITE A RESEARCH PAPER



(05.12.2022 to 12.12.2022)

Jointly organised by Swami Vivekanand Government Degree College, Nihri, Mandi

Pratibha Spandan Society, Shimla

Certificate of Participation

MUSIC. DEPARTMENT PROFESSOR. ASSISTANT RANIU, MS. certified that This GOVT. COLLEGE JHANDUTTA, BILASPUR, HIMACHAL PRADESH has successfully attended the days E-Workshop on How to Write a Research Paper from 05.12.2022 to 12.12.2022 organised by Swami Vivekanand Govt. Degree College Nihri, Mandi in association with Pratibha Spandan Society, Shimla. The workshop covered the basic topics on How to Write a Research Paper and included online lecture sessions followed by group discussion, individual assignment specifically on writing a research paper to be undertaken in online mode.

His/Her performance was found to be Excellent.

Principal Swami Vivekanand Govt. Degree College Nihri, Mandi

Dr. Mritunjay Sharma President Pratibha Spandan, Shimla Sh. Shashi Kumar Coordinator



under the aegis of
MINISTRY OF EDUCATION
PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Asst. Prof. Ranju

of

Govt. College. Jhandutta

successfully completed a 4-Week Induction/Orientation Programme for

"Faculty in Universities/Colleges/Institutes of Higher Education"

from 21 March – 19 April, 2022 and obtained Grade A+.



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Sunly

Dr. Ashish Kumar Shukla (Convener) Ramanujan Gollege

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

v primaral



in collaboration with

Gargi 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. Kamlesh Kumari

of

Department of Zoology, Government College Jhandutta District Bilaspur HP

has successfully completed online Two – Week Refresher Course in "ZOOLOGY"

> from 25 April - 09 May, 2022 and obtained Grade A.



Blockchain Hash: 6xf6d71cdb277tb9tc4c61c651d69ecn569ef78079050f25d73d13529d803f45d7.

Sphione

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





Amound

Prof. Promila Kumar (Principal) Gargi College



under the aegis of
MINISTRY OF EDUCATION
PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Dr. Kamlesh Kumari

of

Department of Zoology, Government College Jhandutta, District Bilaspur (H.P.)
successfully completed a 4-Week Induction/Orientation Programme for

"Faculty in Universities/Colleges/Institutes of Higher Education"

from 21 March – 19 April, 2022 and obtained Grade <u>A+</u>.



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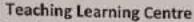
Dr. Ashish Kumar Shukla (Convener) Ramanujan College

Sphjame

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







Ramanujan College, University of Delhi (Accredited Grade 'A++' by NAAC) In collaboration with Dhote Bandhu Science College (Accredited Grade 'A+' by NAAC) Gondia, Maharashtra under the aegis of MINISTRY OF EDUCATION

tioning state
Ministry of Education
Government to be

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING

This is to certify that

Ms. Sapna Sharma, Assistant Professor (Chemistry)

of

Government College Jhandutta, Bilaspur, Himachal Pradesh successfully completed a 4-Week Faculty Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" from 21 August – 19 September, 2023 and obtained Grade A.



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M-t-

Dr. Anjan Naidu (Principal & Convener) Dhote Bandhu Science College ME HOU

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

Prof. S. P. Aggarwal

(Principal & Director)
TLC, Ramanujan College

Serial No. STC-DoCHY-65

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR (H.P.)

(An Institute of National Importance)



CERTIFICATE

This is to certify that Dr. Nitesh Kumar from Govt College Jhandutta, Bilaspur (H.P.) has attended e-Short Term Course on "Recent Trends in Applied Spectroscopy and Microscopy in Materials Research (ASM2R-2023)" during 01st-05th December, 2023 organized by Department of Chemistry, NIT Hamirpur (H.P.).

THE.

Coordinator

That

Head of the Department

Comm)

Dean (FW)



National Workshop on Disaster Management Servoss

December 4-9, 2023

Organized by:

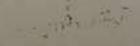
Department of Geography

Thakur Jagdev Chand' Memorial Government Degree College, Sujanpur Tihra"Utkrisht Mahavidyala", Himachal Pradesh, India

This is to certify that DR SANJAY KUMAR ASSOCIATE PROFESSOR IN GEOGRAPHY, GOVT COLLEGE BARSAR has participated (ONLINE/OFFLINE MODE) in National Workshop on Disaster Management organized by Department of Geography, Thakur Jagdev Chand Memorial Government Degree College, Sujanpur

Tihra, "Utkrisht Mahavidyala", Himachal Pradesh, India w.e.j

December 4-9, 2023.



En Convener



Teaching Learning Centre, Ramanujan College

University of Delhi (Accredited Grade "A++" by NAAC) In collaboration with

M.V.S. Government Arts & Science College (Autonomous)

Mahabutnagar, Telangana under the aegis of MINISTRY OF EDUCATION

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Dr. Nitesh Kumar, Assistant Professor

of

Department of Chemistry, Govt. College Jhandutta District Bilaspur Himachai Pradesh has Successfully Completed online two - week Interdisciplinary Refresher Course in

"ADVANCED RESEARCH METHODOLOGY"

from 22 May – 05 June, 2023 and obtained Grade <u>A±</u>.





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Brew

Dr K Padmavathi (Principal) M.V.5. Govt. Arts & Science College (A) HICHTON.

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

wightened

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



Teaching Learning Centre

Ramanujan College, University of Delhi (Accredited Grade 'A++' by NAAC)

under the aegis of

MINISTRY OF EDUCATION

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING

This is to certify that

Mrs. Archna Sharma

of

Department of Hindi, Government College Jhandutta, Bilaspur (HP)
has successfully completed online two-week Faculty Development Programme/Refresher

Course in

"HINDI"

from 06 - 20 May, 2023 and obtained

Grade A+.



Blockchain Hash: 064-366526075191/05903dfede047da25c45479e024580cc25xc05dce20x25dc3

Spligand

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

Dr. Alok Ranjan Pandey (Convener) Ramanujan College



under the aegis of
MINISTRY OF EDUCATION

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING
in collaboration with

Sri SARADA COLLEGE FOR WOMEN (AUTONOMOUS)

Affiliated to Periyar University



This is to certify that

Rekha Devi

of

Government College Jhandutta, District Bilaspur Himachal Pradesh

has successfully completed two weeks

"REFRESHER COURSE IN MATHEMATICAL SCIENCES"

organized during 31 October - 14 November, 2023 and obtained Grade 8+.



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Lydysamel

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

M. July

Dr. M. Sudha (Programme Coordinator) 55 College for Women

2 Uhraham

Dr. R Uma Rani (Principal) SS College for Women

Mently

Dr. Ashish Kumar Shukla (Convenor) Ramanujan College



Teaching Learning Centre, Ramanujan College
University of Delhi
(Accredited Grade 'A++' by NAAC)

in collaboration with
Hindu College, Moradabad
Affiliated to M. J. P. Robilkhand University, Barolliy,
and

Gokul Dos Nindu Giris College, Moradabad Affiliated to M. J. P. Rohllichand University, Barelly, under the aegis of MINISTRY OF EDUCATION

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Mrs. Ranju

of

Department of Music, Government College Jhandutta
has Successfully Completed online two - week Interdisciplinary Refresher Course in
"ADVANCED RESEARCH METHODOLOGY"

from 22 August – 05 September, 2023 and obtained
Grade A.



Blockchain Hash: 0x95cct586727d5cab7419c5e55d306x2f3664f711ab5e921cc550f5691566er2

Can Melista

Prof. Charu Mehrotra Principal Gokul Das Hindu Girls College

Sphoon

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

Cgl

Prof. 5.5, Rawat (Principal) Hindu College



Too State

8r.No. FDP-2023/...9.1



Cortinoate No. 504/94

S.C.V.B. Govt. College Palampur (H.P.)

Faculty Development Programme

Dec. 20-28, 2023

Certificate

This is to certify that Mr./Ms/Dr. Rekha Devic

Gove Callege Thandutta

participated/delivered invited telk/chaired a session in one week Faculty Development Programme on "Research Methodology - Tools and Techniques" from Dec. 20-28, 2023. This Faculty Development Programme was conducted in online mode and the participant has obtained GRADEA.

Convener donvener

Organizing Secretary

Principal



UNIVERSITY GRANTS COMMISSION MALAVIYA MISSION TEACHER TRAINING CENTRE (MMTTC)



(Formerly named HRDC)

UNIVERSITY OF RAJASTHAN, JAIPUR

University with 'A' Grade & UPE Status HRDC RANKED 2nd BY NAAC 2012

UGC - SPONSORED REFRESHER COURSE Certificate of Participation

This is to certify that

Dr. Amit Kumar, Assistant Professor, Commerce

(Name of Participant, Designation & Subject)

Govt. College, Thandutta (Shimla)

(College/University), (Place)

Participated in Refresher Course in Economics

organised from 04th December, 2023 to 16th December, 2023 and obtained Grade 'A'.

Life Was Life skirs firstdain Training Centro In-castly of Registher, Japan

Dr. Anshu Bhardwaj

Course Coordinator & University of Rajasthan Japan

Vice-Chancellot University of Reasthan District



Teaching Learning Centre

Ramanujan College, University of Delhi (Accredited Grade 'A++' by NAAC)

In cellaboration with

GB PANT MEMORIAL GOVT. DEGREE COLLEGE

Affiliated to Himachal Pradesh University, Rampur Bushahr, Shimla

under the aegis of MINISTRY OF EDUCATION

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Dr. Kamlesh Kumari

of

Government College Jhandutta, Bilaspur HP

has successfully completed Online one week Faculty Development Programme on

"National Education Policy-2020 Challenges & Opportunities"

from 25 June 01 July, 2023 and obtained Grade A.



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Or, Pushpa Negl (Principal) G.B.P. M. Govt. Degree College

alphinnel

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







GDC6/TW83/129

One Week International Workshop Research Methodology & IPRs

Organised by

Govt. Degree (P.G.) College, Bhaderwah (J&K) (Department of Higher Education, JK Govt.)

Certificate of Participation

This	is to	certify that	Prof./Dr./A	1r./9	Ms	Sanjay Kumar Assoc	iate Prof	
of				SAR DISTRICT HAMIRPUR HP		has participated in		
	week	International	Workshop	on	"Research	Methodology	I IPRs"	
held o	on 20th	to 26th June, 20	023 through	Blen	ded mode.			

Dr Irshad Ahmed Wani Convener RDC

Assistant Professor

Convener IIC Assistant Professor

Convener IQAC **HOD Economics** Prof. (Dr.) Kuldeep K. Sharma

GDC, Bhaderwah



Teaching Learning Centre, Ramanujan College

University of Delhi (Accredited Grade 'A++' by NAAC) In collaboration with

M.V.S. Government Arts & Science College (Autonomous)

Mahabubnagar, Tolangana under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Mr. Pankaj Sharma, Assistant Professor

of.

Department of History, Government College Jhandutta, District -Bilaspur,H.P.
has Successfully Completed online two - week Interdisciplinary Refresher Course in

"ADVANCED RESEARCH METHODOLOGY"

from 22 May – 05 June, 2023 and obtained Grade A+.





Bell

Dr K Padmavathi (Principal) M.V.S. Govt. Arts & Science College (A) Pro September

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

wydinamit

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



under the aegis of
MINISTRY OF EDUCATION

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING

This is to certify that

Ms Rekha Devi

of

Department of Mathematics , Government College Ihandutta, District Bilaspur, Himachal Pradesh

has successfully completed Online one week Faculty Development Programme on

"ACADEMIC RESEARCH WRITING"

from 02 -08 January, 2023 and obtained Grade A.



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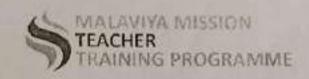
Dr. Ashish Kumar Shukla (Convener) Ramanujan College

Spanne

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









CERTIFICATE OF PARTICIPATION

NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

This is to certify that Rekha Devi, Assistant Professor

Govt. College Jhandutta, Himachal Pradesh

has completed the 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,

Himachal Pradesh University, Shimla from 12.02.2024 to 20.02.2024

Director/Coordinator (MM-TTC



Sr. No. INWO-69/2024



Certificate No. 2024/GCP-2025



International Hybrid Workshop

organized by

S. C. V. B. G. C. Palampur (H. P.), India in Collaboration with Mindanao State University-Sulu, Jolo, Philippines

March (19-25), 2024

This is to certify that Dr./Mr./Ms. Sapna Sharma Assoc.Prof./Asst.Prof. from University/College/Institution Government College Thandutta, Bilaspur has participated in a seven day International hybrid workshop on the topic "Role of Communication Stills in Career Development".

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Chancellor II (Mindanao State Univ.) Moffande

Convener (Mindanao State Univ.) (8) Casudería

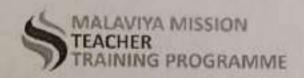
(S.C.V.B.G.C. Palampur)

Principal

(S.C.V.B.G.C. Palampur)









CERTIFICATE OF PARTICIPATION

NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

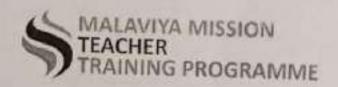
This is to certify that Sapna Sharma, Assistant Professor from Government College Jhandutta, Bilaspur, Himachal Pradesh
has completed the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Malaviya Mission Teacher Training Centre,

Himachal Pradesh University, Shimla from 23.01.2024 to 02.02.2024

Director/Coordinator (MM-TTC)









CERTIFICATE OF PARTICIPATION

NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

Director/Coordinator (MM-TTC)



Teaching Learning Centre
Ramanujan College, University of Delhi
(Accredited Grade 'A++' by NAAC)
under the aegis of
MINISTRY OF EDUCATION
Malaviya Mission Teacher Training Programme



This is to certify that

Dr. Kamlesh Kumari

of

Zoology Department, Government College Jhnadutta, Bilaspur HP
has successfully completed online Inter-Disciplinary two-week Refresher Course in
"Managing Online Classes & Co-creating MOOCS"
from 08 – 22 March, 2024 and obtained

Grade A.



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Stralle

Dr. Ashish Kumar Shukla (Convenor) Ramanujan College

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

Sphane

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



MALAVIYA MISSION TEACHER TRAINING CENTRE UNIVERSITY OF JAMMU





CERTIFICATE OF PARTICIPATION

This is to certify that Ms. Kamlesh Kumari from HPU Shimla, has completed the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme of University Grants Commission (UGC) organized by University of Jammu, Jammu, UT of J&K, India from 29/02/2024 to 07/03/2024

Suchante_

Dr. S.K. Panda Programme Coordinator Jan Gris

Prof. Sundeep Kumar Pandita Director



Sr. No. INWO-35/2024



Certificate No. 2024/GCP-1991



International Hybrid Workshop

organized by

S. C. V. B. G. C. Palampur (H. P.), India in Collaboration with Mindanao State University-Sulu, Jolo, Philippines

March (19-25), 2024

This is to certify that Dr./Mr./Ms. Ranju Assoc.Prof./Asst.Prof. from University/College/Institution Government College Ihandutta has participated in a seven day International hybrid workshop on the topic "Role of Communication Stills in Career Development".

JE J

Chancellor II (Mindanao State Univ.) Moffamber

(Mindanao State Univ.)

(3) Casudera

(S.C.V.B.G.C. Palampur)

Principal (S.C.V.B.G.C. Palampui

(B)



CSSR & SRRM Degree & PG College

Kamalapuram, YSR, A.P., India (Affiliated to Yogivemana University, Kadapa) Re-accredited with 'A' Grade by NAAC

CSSR 094

Certification of Participation

This is to certify that Ms Rekha Devi, Assistant Professor, Department of Mathematics, Government College Jhandtta, District Bilaspur, Himachal Pradesh, has participated in 5 Day International Faculty Development Programme, on "Recent Advances In Mathematical Modelling & Optimization" organised by Department of Mathematics, from 08-01-2024 to 12-01-2024.

Dr. G. Vinod Kumar Convenor C V Rajagopala Reddy Chief Patron



Dr. Sarvepalli Radhakrishnan Govt. Degree College Dharampur Mandi (H.P.)



FACULTY DEVELOPMENT PROGRAM (FDP)

On

NEP 2020: A Paradigm Shift in Higher Education

Organised by

Internal Quality assurance Cell (IQAC)

CERTIFICATE OF PARTICIPATION

This is to certified that

Mr./Miss/Dr. Rekha Devi Department of Mathematics , Government College Jhandutta has completed One Week Faculty Development Program (FDP) on NEP-2020 w.e.f. February 19-24,2024.

Viveka Nand Sharma Organising Secretary

Ramesh Sharma Convener Dr. Ramesh Dhalaria Patron(Principal)



CSSR & SRRM Degree & PG College

(Autonomous)

(Affiliated to Yogi Vemana University, Kadapa) Kamalapuram, YSR, A.P., India



CSSR 527

Certificate of Participation

This is to certify that Rekha Devi, Government College Jhandutta, District Bilaspur (H.P.) has participated in One Week National Workshop (Virtual) on "SCILAB" organised by Department of Mathematics, from 29-04-2024 to 04-05-2024.

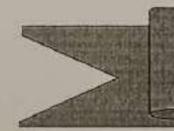
Dr. G. Vinod Kumar

C V Rajagopala Reddy Principal



MALAVIYA MISSION TEACHER TRAINING CENTRE UNIVERSITY OF JAMMU





NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

CERTIFICATE OF PARTICIPATION

This is to certify that Mr. Rajender Kumar from GDC Jhandutta Distt Bilaspi Himachal Pradesh, has completed the NEP 2020 Orientation & Sensitizatio Programme under Malaviya Mission Teacher Training Programme of Universit Grants Commission (UGC) organized by University of Jammu, Jammu, UT of J&F India from 29/02/2024 to 07/03/2024

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Dr. S.K. Panda Programme Coordinator Handels

Prof Sundeep Rumar Pandit Director





CERTIFICATE OF PARTICIPATION

NEE 2020 ORIENT APION & SENSIBLE AND DERROCK AND

This is to certify that Bihari Lal, Associate Professor
Govt.College Jhandutta, Himachal Pradesh

trum

Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Malaviya Mission Teacher Training Centre,

Himachal Pradesh University, Shimla

26.02.2024 05.03.2024

Director(Coordinates (MM-7TG)

Serial No. STC-DoCHY-19

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR (H.P.)

(An Institute of National Importance)



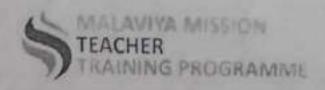
CERTIFICATE

This is to certify that Dr. Nitesh Kumar from Government College Jhandutta (H.P.) has attended e-Short Term Course on "Instrumental Techniques for Molecular Analysis (ITMA-2024)" during 21st-25th May, 2024 organized by Department of Chemistry, NIT Hamirpur (H.P.).

Head of the Department

Dean (FW)







CERTIFICATE OF PARTICIPATION

NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

This is to certify that Deepak Kumar, Assistant Professor

from

Government Degree College Jhandutta, Himachal Pradesh

has completed the 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,

. Himachal Pradesh University, Shimla from 23.01.2024 to 02.02.2024

Director/Coordinator (MM-TTC)







Malaviya Mission Teacher Training Centre (MATTE

(Esrwhile UGC-Human Resource Development Centre)
Aligarh Muslim University, Aligarh

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr./Ms./Mrs./Dr. Amit Kumar, Assistant Professor, Government College, Jhandutta H.P. University, has completed the NEP - 2020 Orientation Programme on the theme: Orientation and Sensitization under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by the UGC Malaviya Mission Teacher Training Centre, Aligarh Muslim University, Aligarh from 14 March to 23 March 2024.

faign Allen

Director/Coordinator (MM-TTC)



Sr. No. INWO-83/2024



Certificate No. 2024/GCP-2039

International Hybrid Workshop

organized by

S. C. V. B. G. C. Palampur (H. P.), India in Collaboration with Mindanao State University-Sulu, Jolo, Philippines

March (19-25), 2024

This is to certify that Dr./Mr./Ms. Ramlesh Rumari Assoc.Prof./Asst.Prof. from University/College/Institution Government College Thandutta, Bilaspur has participated in a seven day International hybrid workshop on the topic "Role of Communication Stills in Career Development".

(5.C.V.B.G.C. Palampur)



Teaching Learning Centre Ramanujan College, University of Delhi (Accredited Grade 'A++' by NAAC)

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Mr. Rajender Kumar

of

Assistant Professor Geography, Govt Degree College Jhandutta Distt. Bilaspur Himachal
Pradesh

has successfully completed online Two - Week Inter-disciplinary Refresher Course in

"ENVIRONMENTAL SCIENCE"

from 28 December, 2022 – 11 January, 2023 and obtained Grade A+.



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Dr. Tenzin Thakur (Programme Coordinator) Ramanujan College METERS.

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

Splinne

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



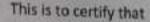
Teaching Learning Centre, Ramanujan College University of Delhi

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



Dr. Kamlesh Kumari

of

Department of Zoology, Government College Jhandutta, Bilaspur HP

has successfully completed online Two - Week Refresher Course in

"LIFE SCIENCES"

from 17 March – 01 April, 2023 and obtained Grade A.



Blockchain Hash: 0xc9e1040fbfef8357eeac02f06a17fZeZa9f193c4f7beZb88C045d72ba16ac16c

Marine

Dr. Mallika Pathak (Convener) Miranda House





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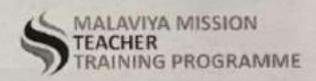
Dr. Nikhii Kr. Rajput (Deputy Director) Ramanujan College

Sphigamed

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









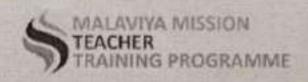
Director/Coordinator (MM-TTC)

CERTIFICATE OF PARTICIPATION

NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

This is	to certify that	Dr. Nitesh Kumar	from
11113 13	Government Col	llege Jhandutta, Himachal Pr	adesh University
			Programme under Malaviya
Mission	Teacher Training Pro	ogramme (MM-TTP) of Univ	
(UGC)	Organized by	Central University	of Jammu
from	20 th Feb. 2024 to	29" Feb. 2024	Neelika







CERTIFICATE OF PARTICIPATION

NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

This is to certify that Archna Sharma, Assistant Professor from

Government College Jhandutta, Himachal Pradesh

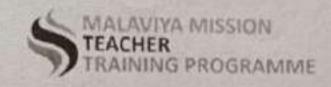
has completed the NEP 2020 Orientation & Sensitization Programme on

Research and Development under Malaviya Mission Teacher

Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Malaviya Mission Teacher Training Centre, Himachal Pradesh University, Shimla from 18.03.2024. to 27.03.2024

Director/Coordinator (MM-TTC)







CERTIFICATE OF PARTICIPATION

NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

This is to certify that Ranju, Assistant Professor from
Govt. College Jhandutta, Himachal Pradesh

has completed the 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,

Himachal Pradesh University, Shimla from 23.01,2024 to 02.02.2024

Director/Coordinator (MM-TTC

POINT 4 (v) Associateships



Inter University Centre for Humanities and Social Sciences

INDIAN INSTITUTE OF ADVANCED STUDY SHIMLA -171005

This	s is to certify that	Br	Sanjay	Kumar	***********	*******
was t	here at the In		-		second/thirdsp	rell of
Ass	ociateship from	01-04-8	2014	to .30:.04.	2014	

Shimla :- 98

Dated 3 0 APR 2014

Relen fl.

Director Indian Institute of Advanced Study Rashtrapati Nivas, Shimta-171 005 Himachel Pradesh



भारतीय उच्च अध्ययन संस्थान राष्ट्रपति निवास, शिमला 171005



मानवीकी तथा सामाजिक विज्ञान का अन्तर विश्वविद्यालय केन्द्र

प्रमाणित किया जाता है कि डा॰ संजय कुमार्

ने दिनांक 01-04-2015 से 30-04-2015 तक इस अन्तर विश्वविद्यालय केन्द्र में अपनी

एसोसिऐटशिप का पहला / दूसरा / तीसरा सत्र पूरा किया है।

शिमला :- 95.

POINT 5. Paper presented by Teachers in International and National Seminars/Conferences.



National Seminar



In

THE NEW NATIONAL EDUCATION POLICY OF INDIA: CHALLENGES AND FUTURE PROSPECTS

AZADI KA AMRIT MAHOTSAV

29-30 DECEMBER, 2021

Sponsored by

INDIAN COUNCIL OF SOCIAL SCIENCE RESEARCH (ICSSR), NEW DELHI

Organised by

Department of Public Administration, S. V. Government College Ghumarwin and Govt. College Bilaspur

Certificate

Certified that Rajender Kumar, Assistant Professor of Geography, SVGC Ghumarwin, Distt. Bilaspur, Himachal Pradesh has participated in the National Seminar as Paper Author and presented a paper entitled: "Major Challenges in The Implementation of National Education Policy (NEP) 2020: A Case Study State of Himachal Pradesh."

Dr. Nittam Chandel Associate Professor of Public Administration Convener/Organizing Secretary Prof. Ramkrishan Principal Patron of Seminar SV Govt. College Ghumarwin

DEPARTMENT OF MUSIC



Dayanand Girls P.G. College, Kanpur

It is certified that



Dr. Balbir Chand

Govt College Sinunta District Chamba Himachal Pradesh

has participated in the "INTERNATIONAL WEBINAR"

Expressions Through Music

On 21st & 22nd Dec. 2021

Chief Patron Smt Kumkum Swarup

Waste Completion to the complete of

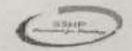
Patron Er. Gauravendra Swarup

Secretary Payanant Girls PG College, Keep or Principal

Dr. Sunanda Dubey

BOTG (Stept, Keeper

Convenier
Dr. Sangeeta Srivastava
Roal of Department of Made, U.S. P.C. Subape Kaper



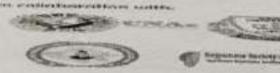
2nd SSHP International Conference

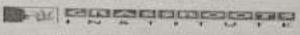


Transforming Asia: Development, Tourism and Environment in Mountains

Manall Tourism Meet-2021

18-20 November, 2021

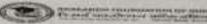


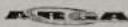


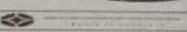


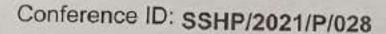
















This is to certify that Prof./Dr./Mr./Ms.Ms. Kamlesh Kumari

Designation

Assistant Professor

Institution Govt College Jhandutta Bilaspur

has Participated/Presented Paper/Chaired/Co-chaired a Session/Speaker in Symposium/entitled,

"Morphological and Karyotypic Studies on Two Species of Aphids Infesting Rose Plants from

Kullu Valley of Himachal Pradesh" in 2nd SSHP International Conference organised by Sociological Society, Himachal Pradesh and JLN Govt College Haripur (Manali) H.P.

Principal cum Patron
JNL Govt. College, Haripur, H.P.

President SSHP Convenor Scientific Steering Committee

General Secretary

Organising Secretary JNL Govt. College Haripur, H.P.



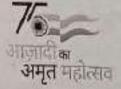
समाजशास्त्र एवं सामाजिक नृविज्ञान विभाग हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय सप्तसिंधु परिसर, देहरा, जिला- कांगड़ा











दो दिवसीय राष्ट्रीय संगोष्ठी

"भारत का सामाजिक एवं सांस्कृतिक दर्शन: डा. केशवराव बलिराम हेडगेवार का योगदान" धौलाधार परिसर-१, धर्मशाला (कांगड़ा) हिमाचल प्रदेश 24-25 जून 2022

संस्थान का नाम Govt Kollege Thandutta, Distt Bilaspus H.P.
ने आयोजित संगोष्ठी में मुख्य अतिथि / मुख्य विषय वक्ता / सम्मानित अतिथि / पदेन अतिथि / संयोजक / सह-संयोजक / प्रतिवेदन लेखक / सत्र अध्यक्ष /
शोधार्थी / आयोजन समिति सदस्य / मीडियाकर्मी / संस्थागत प्रतिनिधि / व्यक्तिशः प्रतिनिधि / शोध पत्र प्रस्तुतकर्ता के रुप में भाग लिया है।
शोध पत्र का शीर्षक Ethics and Culture

डॉ. गिरीश गौरव संयोजक

प्रॉ. प्रदीप कुमार अधिष्ठाता, अकादमिक हि. प्र. के. विवि

प्रो. रमश चंद्र सिन्हा अध्यक्ष, भारतीय दर्शन अनुसंधान परिषद प्रो. रामनरेश सिंह स्वतंत्र निदेशक आई.ओ.सी.एल ्रे**ब्रिस**म् गर्जे निदेशक, नेटी शोध संस्थान

डा कृष्णभट्ट संरक्षक, राष्ट्रीय समाज विज्ञान परिषद



समाजशास्त्र एवं सामाजिक नृविज्ञान विभाग हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय सप्तसिंध् परिसर, देहरा, जिला- कांगडा











दो दिवसीय राष्ट्रीय संगोष्ठी

"भारत का सामाजिक एवं सांस्कृतिक दर्शन: डा. केशवराव बलिराम हेडगेवार का योगदान"

धौलाधार परिसर-१, धर्मशाला (कांगड़ा) हिमाचल प्रदेश

24-25 जून 2022

प्रमाणित किया जाता है कि डॉ. / प्रो. / श्री / श्रीमती / सुश्री अचिना रामा

राजकीय महाविद्यालय द्वा०डला

ने आयोजित संगोष्ठी में मुख्य अतिथि / मुख्य विषय वक्ता / सम्मानित अतिथि / पर्देन अतिथि / संयोजक / सह-संयोजक / प्रतिवेदन लेखक / सत्र अध्यक्त /

शोधार्थी / आयोजन समिति सदस्य / मीडियाकर्मी / संस्थागत प्रतिनिधि / व्यक्तिशः प्रतिनिधि / शोध पत्र प्रस्तुतकर्ता के रूप में भाग लिया है।

शोध पत्र का शीर्षक डां हेडगेनार के चिन्तन का साहित्यक अह

संयोजक

प्री प्रदीप कुमार अधिष्ठाता, अकादमिक हि. प्र. के. विवि

प्रो. रमेश चंद्र सिन्हा अध्यक्ष, भारतीय दर्शन अन्संधान परिषद

प्रो. रामनरेश सिंह स्वतंत्र निदेशक आई.ओ.सी.एल

नेरी शोध संस्थान

संरक्षक, राष्ट्रीय समाज विज्ञान परिषद



समाजशास्त्र एवं सामाजिक नृविज्ञान विभाग हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय सप्तसिंधु परिसर, देहरा, जिला- कांगडा

ICPR







अमृत महोत्मा

दो दिवसीय राष्ट्रीय संगोष्ठी

"भारत का सामाजिक एवं सांस्कृतिक दर्शनः डा. केशवराव बलिराम हेडगेवार का योगदान"

धौलाधार परिसर-१, धर्मशाला (कांगड़ा) हिमाचल प्रदेश 24-25 जून 2022

मार्गित किया बाता है कि हो / मी / भीमती / सुभी पंकाज शर्मा सम्भाग का नाम राजकी म् महाबिद्यालया इस्वृता, विलासपुर हि० प्रः

न कार्याक्रित संगोध्दी में मुख्य अतिथि / मुख्य विषय वका / सम्मानित अतिथि / पदेन अतिथि / संगोजक / सह-संगोजक / प्रतिवेदन लेखक सन अध्यक्ष

शोधार्थी / आयोजन समिति सदस्व / मीडियाकर्मी / संस्थानत प्रतिनिधि / व्यक्तिशः प्रतिनिधि / शोध पत्र प्रस्तुतकर्ता के रूप में भाग लिया है

माय पत्र का मीर्य " इर हेर्डो नार के लाभा जिल निन्तन का रेतिहासिक अवलोकन

डा. गिरीक्ष गोरव संयोजक

प्रो प्रदीप कुमार अधिष्ठाता, अकादमिक हि प्र के. विवि प्रा. रमश चंद्र सिन्हा अध्यक्ष, भारतीय दर्शन अनुसंधान परिषद

प्रो. रामनरेश सिंह स्वतंत्र निदेशक आई.ओ.सी एल डा. करो मुझ निदेशक, नेरी शोध सत्थान

डा कृष्ण्यसह संरक्षक, राष्ट्रीय समाज विज्ञान परिषद



National Seminar



on

"Building a Resilient Future: Integrating Environment, Economy and Technology"

March 24 - 25, 2023

Organised by

Department of Geography

St. Bede's College, Shimla

(Re-Accredited A+ by NAAC)

Certificate

This is to certify that Prof/Dr./Mr./Ms. Sonjoy Kumor, Msociate Projesor of Department of Juagraphy, Jane College, Barsor has participated/presented a paper entitled: Risk and Vulmerability Assument of Agriculture to Climate Chamge In HP:

in Multidisciplinary National Seminar on "Building a Resilient Future: Integrating Environment, Economy and Technology" held at St. Bede's College, Shimla on March 24 - 25, 2023.

Patron

Prof. Sr. Molly Abraham

Principal

St. Bede's College, Shimla

Convener

Dr. Pankaj Aashish Head, Department of Geography

St. Bede's College, Shimla

Organising Secretary
Dr. Sr. P. Mary Santhi
Department of Geography
St. Bede's College, Shimla



RNTGCS-1C-2023- 153

Two-Day International Conference



on the occasion of World Environment Day, 5th-6th June, 2023

Organised by

Internal Quality Assurance Cell (IQAC)

Rabindranath Tagore Govt. Degree College Sarkaghat, Distt. Mandi (H.P.)



This is to certify that Ďr./Mr./M	S SANJAY KUMAR	Professor/Associate
Desferent Assistant Professo	r/Research Scholar/UG/PG Student o	f Geography from
GC Barsar, Distl.	Hamirpur (H.Y)	participated in the
S PARTY PARTY PARTY	on 5th-6th June 2023.	19 I lade Management
He/She has presented a res	earch paper/article entitled .P.los	Hit matteToughtener
Tuning Challenges	n to Opportunities	
0	10	
1/5.	~/"	The state of the s

Organising Secretary

Convener

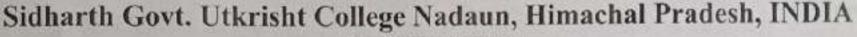


International Conference on Recent Trends in Science & Technology For Environment Conservation & Sustainable Development

September 29-30, 2023

Organized By

Department of Botany and Zoology



In collaboration with

The Indian Science Congress Association (ISCA), Shimla Chapter

Certificate

This is to certify that Prof./Dr./Mr./Ms	Sanjay Kumor	Designation Assoc. Prof
Now of Generalby Govt (Alege Barsar Hamirbur	has participated as a Keynote Speaker/Resource
Person/Invited Speaker/ Presented Pag	per/Poster entitledJn.paxx	Climate Change on the
Monson Pattern of	Himachal Pradesh	in the international conference on
Recent Trends in Science and Techno	logy for Environment Conservation a	und Sustainable Development organized by Deptt.
of Botany & Zoology, Sidharth Govt. U	Itkrisht College Nadaun, Himachal Pr	adesh, India on Sep 29-30, 2023.
He She has been awarded with Best Ord		

Dr. Sunita Saklani

Prof. Bhagwati P Sharma

Dr. Anil Kumar Gautam

2nd International Conference on Mathematics in Space and Applied Sciences

(ICMSAS-2023)

March 03-04, 2023

Organised By

Department of Mathematics NSCBM Govt. College, Hamirpur, Himachal Pradesh, INDIA

Sponsored By

Defence Research and Development Organisation (DRDO), New Delhi

Certificate

This is to certify that Prof./Dr./ Mr./Ms. Sanjay Kumar of Government College, Barsar (Hamirpur) has actively participated in the 2nd International Conference on Mathematics in Space and Applied Sciences (ICMSAS-2023) organised by the Department of Mathematics, Netaji Subhash Chander Bose Memorial Govt. College, Hamirpur- 177005, organised by the Department of Mathematics, Netaji Subhash Chander Bose Memorial Govt. College, Hamirpur- 177005, organised by the Department of Mathematics, Netaji Subhash Chander Bose Memorial Govt. College, Hamirpur- 177005, organised by the Department of Mathematics, Netaji Subhash Chander Bose Memorial Govt. College, Hamirpur- 177005, organised by the Department of Mathematics and presented a paper entitled; Remote Sensing & GIS an Indigenous Technology for Defence Applications in India.

Dr. Sanjay Kango

Convener (ICMSAS-2023) Dr. G.C. Rana Chairman (ICMSAS-2023) Principal-cum-Patron (ICMSAS-2023) NATIONAL SEMINAR ON ENVIRONMENTAL ISSUES AND PUBLIC HEAL's organized by Departments of Botany & Zoology Government College Bhoranj (Tarkwari) District Hamirpur, Himachal Pradesh, India

CERTIFICATE

(February 27-28, 2023)

This certificate is awarded to DR. SANJAY KUMAR, Associate Professor

of G. C. Barsar, Hamirpur H.P.

for presenting paper on the topic. Socio Economic Vulnerability of Himachal Pradesh to Climate Change

in the "National Seminar on Environmental Issues and Public Health" organized by the Departments of

Botany and Zoology, Government College Bhoranj (Tarkwari), District Hamirpur, Himachal Pradesh (India)

on 27" and 28" February 2023.

Dr. Devender Singh

Sh. Prince Thakur

Sh. Rakesh Kumar





NATIONAL SEMINAR

ON



ग्रिक आकृतिक अमृत महोत्सव

Revisiting the Role of Netaji Subhash Chandra Bose to the Freedom Struggle of India

Kali. 5124, Vikarmi Samvat 2079, Shrawan Shukal 11-12 (8-9 August, 2022)

Organized by

Department of History, NSCBM Govt. College Hamirpur (H.P.)

Thakur Ramsingh Itihas Shodh Sansthan Neri, Hamirpur (H.P.)

Sponsored by

Maulana Abul Kalam Azad Institute of Asian Studies Kolkata (W.B.)

Certificate

This is to certify that Prof Dr./ Mr./Ms SANJAY THAKUR (Associate Professor)	
of Govt. College Barnar, Dist. Hamispur CH.P.)	nas Perus peted Presented
paper रवतानामा संग्राप्त ने सुभाष न्यन्द्र कारा क्या संग्राप	in the two days National Semina
organized by Department of History, NSCBM Gavt, College Ham rpur (H.P.) & Thakur Remsingh Itihas Shodh Sanst	han Nen, Hamirpur (HP)

He/She has Chaired/Co-chaired the session

Sr. No. : 40

Date: 09/08/2022

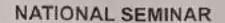
Organismg Secretary

Convener

Buyi Keharal









Emerging Challenges of Socio-Economic Changes in the Society- A Rationale

Sponsored by

Indian Council of Social Science Research North-Western Regional Centre: PU Chandigarh

> organised by Sidharth Govt. College, Nadaun Dist. Hamirpur (HP)-177033

> > Certificate

Tertified that Prof. Dr. Mr. Ms. Sanjay Kumar Associate Rofosser

Institution. Grosd. College Bassar participated as a Participant/Resource Person/Key Note

Speaker /Panellist/Delegate/Presented a paper entitled. A Situation Analysis of USVID-19 Impacts on the Aducation

In the National Seminar held at Sidharth Govt. College, Nadaun, Dist. Hamirpur (HP) during 25-26 March, 2022.

Sector in Budia

She! He has also chaired a technical session.

کے ہوں Organising Secretary

ildharth Govt. College, Vadaun, Dist. Hamirpur (HP) Convener Sidharth Govt, College,

Nadaun, Dist. Hamirpur (HP)

Principal-cum-patron

Sidharth Govt. College, Nadaun, Dist. Hamirpur (HP)

Social Science Research



National Seminar

on

Science, Environment, Education and Society

(19th March. 2022)

Organized by:

Department of Zoology

NSCBM Govt. College, Hamirpur (Himachal Pradesh)

Certificate

This is to certify that $\overrightarrow{Dr}/Mr./Ms$	Sanjay Ka	mar	Professor/Associate Professor
/Assistant Professor /Research Sch	- 9	from Gavt. Co Hamirbu	llege Barsar, District ur, H.P.
participated in this seminar held on	March 19, 2022.		· · · ·
He / she has presented a paper/ resea	arch paper entitled Food	Security in Rural	India : Issues
and Challeng	pes		
Org. Secretary	c Snote Hor	Co-ordinator	Cuyr Subject Patron (Principal)



CERTIFICATE OF PRESENTATION



2ND INTERNATIONAL CONFERENCE ON RESEARCH TRENDS IN ENGINEERING & MANAGEMENT

25th & 26th August 2022 | Virtual Conference

Cetificate No. IFERP20222526-208708126

This is to certify that Mr/Mrs/N	As Rekha Devi	of
	Government College Jhandutta	presented his/her research
paper titled THE CONCEPT OF T	THE BOUNDARY LAYER IN THE STUDY OF FLUID	FLOW
		in the
	Trends in Engineering & Management (ICRTEM-2022	" Organized by R R Institute of
Technology, Bengaluru, India held on 25th o	& 26th August 2022.	
Litha. H.D	Mahendrah (FERP) (2	DRL.

Dr. Sunitha HD Professor & Head (ECE) RRIT. Bengaluru Dr. Mahendra KV

Principal

RRIT, Bengaluru

Mr. Rudra B. Satpathy
CEO & Founder
IFERP



NATIONAL CONFERENCE

on



CULTURE, SCIENCE, SPIRITUALITY & EDUCATION

Organised by

Government College Bassa (Gohar), Mandi, H.P.

In association with

Pratibha Spandan Society, Shimla

(23 December 2022)

Certificate of Participation

This is to cer	tify that	26.	Bihasi L	al, I	usocia	te Pro	fesse	or Rion	romica
Govt.	PG	College	e Bilash	ur.		SULTEN NEW YORK		has pres	ented a
paper on R	ole of	Non -	Governme	nt or	ganizat	ions in	r Pro	tection	n of
Huma	n R	ight	du	ring the	National	Conference	e on	Lunus e,	ocience.
Spirituality &	Educati	on organia	zed by the Gov	ernment C	ollege Bass	sa (Gohar),	Mandi, I	Himachai	Pradesh
in association	with Pr	atibha Spa	andan Society,	Shimla on	23rd Decen	iber, 2022.			

AL COMP

President Pratibha Spandan, Shimia Govt. College Bassa (Gohar). Mandi

Rayar

Convener

Organising Secretary

2nd International Conference on Mathematics in Space and Applied Sciences

(ICMSAS-2023)

March 03-04, 2023

Organised By
Department of Mathematics
NSCBM Govt. College, Hamirpur, Himachal Pradesh, INDIA
Sponsored By
Defence Research and Development Organisation (DRDO), New Delhi

Certificate

This is to certify that Prof./Dr./Mr./Ms. Balbir Chand of Govt. College Jhandutta, Bilaspur (HP) has actively participated in the 2nd International Conference on Mathematics in Space and Applied Sciences (ICMSAS-2023) organised by the Department of Mathematics, Netaji Subhash Chander Bose Memorial Govt. College, Hamirpur-177005, Himachal Pradesh INDIA on March 03-04, 2023 and presented a paper entitled: Relationship between Music and Science.

Dr. Sanjay Kango

(ICMSAS-2023)

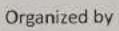
(ICMSAS-2023)

Principal-cum-Patron (ICMSAS-2023)



Convenor

National Seminar on Impact of Science and Technology on Society



Department of Zoology, NSCBM Govt. College Hamirpur (H. P.)



(Principal)

In collaboration with

Indian Science Congress Association, Shimla Chapter

(25th -26th March, 2023)

This is to certify that Dr. /	Mr./Ms. Bihari Lal	Profes	sor/Associate Professor/
Assistant Professor of	Economics		from
Govt. College	Bilasbur (H.P.)	participate	d in this seminar held on
25-26 March, 2023.			
- 4	aper/research paper entitledF.	Food. Security is	1. India and
its challeng	Jes		
Convenor	Newyshazue	Chairman	Patron

Convenor

(ISCA, Shimla Chapter)



RNTGCS-IC-2023- .0.7.4

Two-Day International Conference

2

Environmental Concerns, Climate Change and Resource Management in the Western Himalayas

on the occasion of

World Environment Day, 5th-6th June, 2023

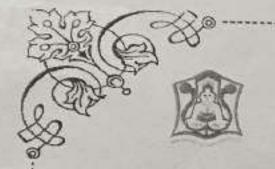
Organised by

Internal Quality Assurance Cell (IQAC)

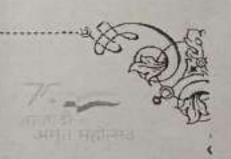
Rabindranath Tagore Govt. Degree College Sarkaghat, Distt. Mandi (H.P.)



This is to certify that Dr./Mr./Ms	Rihari Lat	
Professor/ Assistant Professor/Rese	Scholar/IIG/PG Student	of Economies from
Govt College Thandutte	Bilespur (H.P)	participated in the
International Conference held on 5th	h-6th June 2023.	
He/She has presented a research	Management &	ystem
(han):	12	Patron (Principal)
Organising Secretary	Convener	THE OWNER OF THE OWNER



GOVT. COLLEGE JUKHALA District-Bilaspur (H.P.) 174033, India



NATIONAL CONFERENCE ON ENVIRONMENTAL CONCERNS IN THE HIMALAYAN REGION

Certificate

This is to certify that Mr. Bihari Lal, Associate Professor, Government College Jhandutta, Distt. Bilaspur, H.P. has participated in National Conference on 'Environmental Concerns in the Himalayan Region' organised by IQAC, Govt. College Jukhala on 20/05/2023. He has presented a paper entitled "Environmental Sustainability and Economic Growth."

Dr. Jaswant S. Saini Associate Professor Organising Secretary Sh. Rajesh Kumar Associate Professor Convener

Sh. Sudama Ram Principal-cum-Patron Govt College Jukhala, H.S

National Conference On

Transformations for Sustainable Development in India April 10-11, 2023 Organized by Research and Development Committee SCVB Govt. College Palampur (HP)



This is to certify that Dr./Mr./Ms	Proteck Deg	oel	from Crove	College Than	dutta
This is to certify that Dr./Mr./Ms paticipated/presented his/her pap	Role Role	al literature in	Enological	Sustinance	in the
paticipated/presented his/her pap	er entitied	0	U in India" at S	CVR Govt. College F	alampur (HP)

"National Conference on Transformations for Sustainable Development in India

Organizing Secretary

Dr. Neena Sharma

Associate Professor of Zoology

Co-ordinator

Dr. Suresh Sharma

Associate Professor of Mathematics

Dr. Prajya Mishra

Principal

NATIONAL SEMINAR ON ENVIRONMENTAL ISSUES AND PUBLIC HEALTH organized by
अगुना महोत्सव

Departments of Botany & Zoology
अमृत महोत्सव

Government College Bhoranj (Tarkwari)
District Hamirpur, Himachal Pradesh, India
(February 27-28, 2023)



This certificate is awarded to PRATEEK DESWAL, Assistant Professor

of Government College Ihanduta, District Bilaspur (H.P.)

for presenting paper on the topic Role of Eco-literature in Spreading Environmental Consciousness

in the "National Seminar on Environmental Issues and Public Health" organized by the Departments of

Botany and Zoology, Government College Bhoranj (Tarkwari), District Hamirpur, Himachal Pradesh (India)

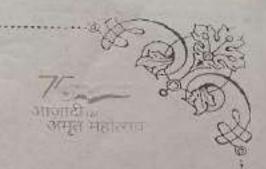
on 27th and 28th February 2023.

Dr. Devender Singh Organizing Secretary Sh. Prince Thakur

Sh. Rakesh Kumar Principal and Patron



COVT. COLLEGE JUKHALA District-Bilaspur (H.P.) 174033, India



NATIONAL CONFERENCE ON

ENVIRONMENTAL CONCERNS IN THE HIMALAYAN REGION

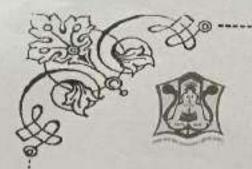
Certificate

This is to certify that Dr. Kamlesh Kumari, Assistant Professor, Government College Jhandutta, Bilaspur, H. P. has participated in National Conference on 'Environmental Concerns in the Himalayan Region' organised by IQAC. Govt. College Jukhala on 20 05/2023. She has presented a paper entitled "Karyotypic Studies on Aphid Diversity Infesting Rose Plants from Bilaspur District of Himachal Pradesh."

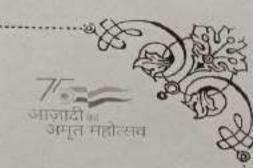
Dr. Jaswant S. Saint Associate Professor Organising Secretary Sh Rajesh Kumar Associate Professor Convener

THE REAL PROPERTY.

Sh. Sudama Ram Principal-cum-Patron Govt College Jukhala H



GOVT. COLLEGE JUKHALA District-Bilaspur (H.P.) 174033, India



NATIONAL CONFERENCE ON

ENVIRONMENTAL CONCERNS IN THE HIMALAYAN REGION

Certificate

This is to certify that Ms. Ranju, Assistant Professor, Government College Jhandutta, Bilaspur, H.P. has participated in National Conference on "Environmental Concerns in the Himalayan Region" organised by IQAC, Govt. College Jukhala on 20/05/2023. She has presented a paper entitled "Water Conservation: Issues, Strategies and Solution."

Dr. Jaswant S. Saini Associate Professor Organising Secretary Sh. Rajesh Kumar Associate Professor Convener

Certificate ID: ECHR-097

Sh. Sudama Ram Principal-cum-Patron Govt. College Jukhala, H.P.



GOVT. COLLEGE JUKHALA District-Bilaspur (H.P.) 174033, India



NATIONAL CONFERENCE ON ENVIRONMENTAL CONCERNS IN THE HIMALAYAN REGION Certificate

This is to certify that Mrs. Shalini Kumari, Assistant Professor, Govt. College Jhandutta, Distt. Bilaspur, H.P has participated in National Conference on 'Environmental Concerns in the Himalayan Region' organised by IQAC, Govt. College Jukhala on 20/05/2023. She has presented a paper entitled 'Environmental Issues.'

Dr. Jaswant S. Saini Associate Professor Organising Secretary Associate Professor

Cr. ener

Certificate ID; ECHR-207

Sh. Sudama Ram Principal-cum-Patron Govt. College Jukhala, H.P.



Two-Day International Conference

nference



Environmental Concerns, Climate Change and Resource Management in the Western Himalayas

on the occasion of

World Environment Day, 5th-6th June, 2023

Organised by

Internal Quality Assurance Cell (IQAC)

Rabindranath Tagore Govt. Degree College Sarkaghat, Distt. Mandi (H.P.)



This is to certify that Dr./Mr./Ms. S.HALINI. K.U.M.A.R.I.	Professor/Associate
Professor/ Assistant Professor/Research Scholar/UG/PG Student of(.P.	04 · Sc) from
GOVT: COLLEGE JHANDUTTA DIST: BILASPUR, H.P.	participated in the
International Conference held on 5th-6th June 2023.	
He/She has presented a research paper/article entitled	HARMING AND
CLIMATE CHANGE.	\

Organising Secretary

Convener

Patron (Principal)





अखिल भारतीय इतिहास संकलन योजना, जन्म

Ų

हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय, म्पंताला

के संयुक्त तत्त्वावधान में आयोजित

सप्तम् वार्षिक युवा इतिहासकार राष्ट्रीय संगोष्टी

'भारतीय इतिहास लेखन की प्रवृत्तियाँ एवं नवीन आयाम'

'Trends in Indian History Writing and Recent Dimensions'

श्री महादेवी तीर्थ (वैद्या) माता मन्तिर), कुल्लू, हिमाचल प्रदेश आषाढ़ कृष्ण पक्ष, सप्तमी-अष्टमी, कलियुगाब्द 5125, विक्रमी संवत् 2080,

तव्नुसार शनिवार-रविवार, 10-11 जून, 2023

प्रमाण पत्र

प्रमाणित किया जाता है कि प्रो. डॉ. श्री श्रीमती कुमारी व्यक्तिय चन्द

ने 'भारतीय इतिहास देखन बी प्रवृत्तियाँ एवं नवीन आयाप' विषय पर आयोजित राष्ट्रीय संगोध्यी वेसी दितिया

शीर्षक पर अपना शोध पत्र प्रस्तुत किया/सहभागिता की।

हम आपके यशस्त्री जीवन की कामना करते हुए इतिहास के आजीक में निरन्तर राष्ट्रीय अयदान की अपेक्षा करते हैं

द्वार धिम प्रयूपता (प्रतासिक)

अखिल भारतीय इतिहास संकलन योजना, नर्ड विल्ली प्रमार सिंह (संयोजक)

युवा इतिहासकार परिपद् अखिल भारतीय इतिहास संकलन यो



RNTGCS-IC-2023. 155 159

Two-Day International Conference

Environmental Concerns, Climate Change and Resource Management in the Western Himalayas

World Environment Day, 5th-6th June, 2023

Organised by

Internal Quality Assurance Cell (IQAC)

Rabindranath Tagore Govt. Degree College Sarkaghat, Distt. Mandi (H.P.)



This is to certify that Dr./Mr./Ms	वलवीर चन्द	Professor/Assoc	ciate
Professor/ Assistant Professor/Rese	arch Scholar/UG/PG Studen	t of संगीत (पाद्य विषय)	from
रामकीय माहा।वैद्यालय झन्ड	ता, खिलासपुर	participated in	the
International Conference held on 5th	n-6th June 2023.	0 10 10	29
He/She has presented a research	paper/article entitled	भारतीय समात , सम्क्रात	3/14
पद्मीवर्ग संरक्षण		/	
	1	N	

Organising Secretary

tonvener Convener

Patron (Principal)

Sr. No.28

National Seminar

on

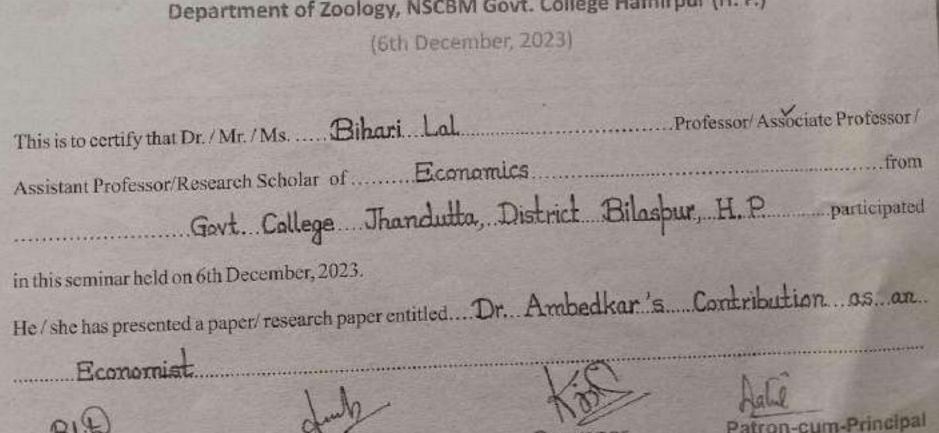
Life and Contributions of Dr. BR Ambedkar

and

Contemporary Issues in Environment, Culture & Indian Society

Organized by

Department of Zoology, NSCBM Govt. College Hamirpur (H. P.)



Mr. Babita Suman

Dr. Sandeep Kumar

Dr. Krishal Lal

Patron-cum-Principal Dr. Pramod Patial



National Conference



On

BIODIVERSITY LOSS AND CLIMATE CHANGE: TWO FACES OF THE SAME COIN

3rd December, 2023

Organized by

Department of Bio-Sciences

Rabindranath Tagore Govt. Degree College Sarkaghat, Distt. Mandi (H.P.)

Certificate of Barticipation

This is to certify that Dr./Mr./Ms. Bihari Lal Professor/Associate Professor/Assistant Professor/ Research Scholar/ UStudent Department of Economics, Govt. College Jhandutta, Distt. Bilaspur Himachal Pradesh. Participated in the Na
Conference held on 3rd December, 2023. He/She has presented a research paper/article entitled Global Warming and Climate Char

Organising Secretary

Convener

Patron (Principal)



International Conference on

Recent Trends in Science & Technology For Environment Conservation & Sustainable Development September 29-30, 2023

Organized By

Department of Botany and Zoology

Sidharth Govt. Utkrisht College Nadaun, Himachal Pradesh, INDIA In collaboration with

The Indian Science Congress Association (ISCA), Shimla Chapter

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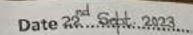
This is to certify that Prof./Dr./Mr./MsBihari Lal	Designation Assoc Pitol.
Dept. of Economics, Govt Callege Thandutta Bilasbur.	has participated as a Kevnote Speaker/Resource
Person/Invited Speaker/Presented Paper/Poster entitled Global Ward	ming and its impact on
Climate Charge	in the international conference on
Revent Transport Science and Technology for Englemment Conservation and	d Sustain the Development wanter Cay Den
of Rolling & Zuolings, Sidharth Gove Utkrishs College Sadana, Himachal Prac	desh, India on Sep 29-30, 2023.
He/She has been awarded with Best Challes sentallant/Fester Presentation	

Sunte Dr. Sunita Saklani Organizing Secretary

Prof. Bhagwati P Sharma Convener

Dr. Anil Kumar Gaussi Principal-Cum-Patron

Pi





National Conference on

Global Perspective on Science and Technology for Sustainable Future

Organized by

Netaji Subhash Chandra Bose Memorial Govt. College Hamirpur (H. P.)

In collaboration with

The Indian Science Congress Association (ISCA) Shimla Chapter

(21st - 22nd September, 2023)

This is to certify that Dr.	Mr./MsBiho	ari Lol	Profes	sor/ Associate Professor
Assistant Professor of.				
Govt	CollegeJhan	dulla, Dist.	Bilaspur, H.P.	participate
in this conference held o	n 21-22 September	, 2023.		
He / she has presented a p	paper/research pap	er entitledEr	wironmental Sustaina	bility and . Economi
Growth			······································	l ti
Convenor	Conven	or or	Chairman	Patror



Himachal Pradesh, India

National Seminar

on

Ethics in Society: Issues and Challenges

(16th September, 2023)

Organised by Department of Hindi

Certificate

	This is to	certify tha	t Dr./Mr./Ms	Bihari Lal		Professor/
Associa	te Professo	or/Assistant	Professor/Research	Scholar of Eu	enomics	from
GLOV	t colle	ge Jha	dutta piett Bi	laspus (H:P)	participated in Nation	al Seminar
on Ethic	s in Society	y: Issues and	Challenges. He/she	acted as the Key Note	Speaker/Resource Pe	erson/Chair
Person.		delivered	a talk/presented Educational	a paper/research	paper entitled	

Convenor Dr. Shyam Lal Organising Secretary Dr. Surinder Singh

Patron (Principal) Neena Vasudeva



Rimachal Practish, India

Servarai Seminer

Ethics in Society rowers and Chailenges (1977 September 2014) Organised by Department of home

This is to compensation or Marine Satish Kumar

Associate Professor/Assurant Professor/Missourch Scholar of Physics

Govt College Thandutta participated in National Samuras on Exhibit in Society, Issues and Challenger. He/she nered as the Key Mate Spenker/Resource Person/Chair

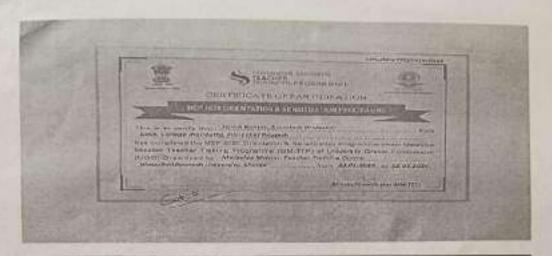
Ferson. He/site delivered a tall/presunition o paper/research paper copiled

Ethics in Eduction

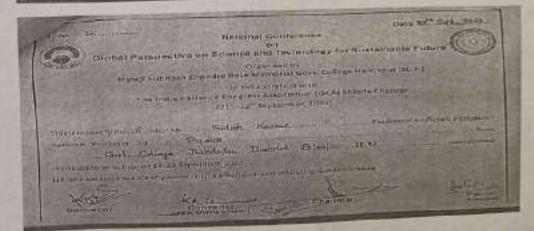
Dr. Sirgam Lat

Diganking Secretary Dr. Swinder Gogli.

Patron Orthopall Mirena Vasudeva









Himachal Pradesh, India

National Seminar

on

Ethics in Society: Issues and Challenges

(16th September, 2023)

Organised by

Department of Hindi

Certificate

This is to certify that Dr./Mr./Ms	Rajenden Human Professor/
Associate Professor/Assistant Professor/Resear	rch Scholar of from
	participated in National Seminar
on Ethics in Society: Issues and Challenges. He/s	the acted as the Key Note Speaker/Resource Person/Chair
	ted a paper/research paper entitled
An overview of Envis	commental gethics

Convenor Dr. Shyam Lal Organising Secretary Dr. Surinder Singh Patron (Principal) Neena Vasudeva



International Conference on Recent Trends in Science & Technology For Environment Conservation & Sustainable Development September 29-30, 2023



Organized By

Department of Botany and Zoology

Sidharth Govt. Utkrisht College Nadaun, Himachal Pradesh, INDIA

The Indian Science Congress Association (ISCA), Shimla Chapter

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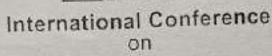
This is to certify that Prof. /Dr./Mr./Ms Rajender Kumar	Designation Assistant
Professor (Geography) Govt College, Jhandutta (Bilaspue) a Person/Invited Speaker/Presented Paper/Poster entitled Water Resource	s participated as a Keynote Speaker/Resor
Person/Invited Speaker/ Presented Paper/Poster entitled Worker KChourte	Conservation and Sustainable
Development: A Cone Study	in the international conference
Recent Trends in Science and Technology for Environment Conservation and	Sustainable Development organized by De
of Botany & Zoology, Sidharth Govt. Utkrisht College Nadaun Himachal Prade.	sh, India on Sep 29-30, 2023.
He/She has been awarded with Best Oral Presentation/Poster Presentation.	

Dr. Sunita Saklani Organizing Secretary

Prof. Bhagwati P Sharma Convener Dr. Anil Kumar Gauts Principal-Cum-Patron









Tribal Identity in India: Issues, Challenges and the Road Ahead

1st - 2nd and 4th October 2023

Certificate ID: GCP/IC23/0169

Certificate

This is to certify that Rajender Kumar has presented a paper entitled, "Geographical Study of T Women's Literacy and Gender Gap in Himachal Pradesh" at the International Conference organized by College Pangi in collaboration with Himalayan Council for Scientific Research (HCSR).

Ms. Ritika Jindal Chief Patron RC Pangi

Sh. Raman Gharsanghi Patron SDM Pangi Dr. Promila Devi Convener Officiating Principal GC Pangi

1002

Dr. Bipan C Rathore Patron of HCSR Former Priencipal GC Pangi Mr. Biyaso Ram Conference Secreta AP Economics, GC P.





National Conference

on

Global Perspective on Science and Technology for Sustainable Future



Organized by

Netaji Subhash Chandra Bose Memorial Govt. College Hamirpur (H. P.)

In collaboration with

The Indian Science Congress Association (ISCA) Shimla Chapter

(21st -22nd September, 2023)

This is to certify that Dr	/Mr./MsBalbieCha	andProfesso	or/Associate Professor/
Assistant Professor of	Music (Instrum	nembal)	from
	Callege Thandutta.,	Dist Bilospur, HP	participated
in this conference held	on 21-22 September, 2023.		
He / she has presented a	paper/ research paper entitled	GlabalWarmingand	L. its Impact
on In	dia		
Kess	Me Beauty	h = 2	falle
Convenor	Convenor	Chairman	(Principal)

(ISCA, Shimla Chapter)



International Conference on Recent Trends in Science & Technology For Environment Conservation & Sustainable Development

September 29-30, 2023

Organized By

Department of Botany and Zoology

Sidharth Govt. Utkrisht College Nadaun, Himachal Pradesh, INDIA

In collaboration with

The Indian Science Congress Association (ISCA), Shimla Chapter

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This is to certify that Prof./Dr./Mr./Ms BALBIR CHAND	Designation ASST: PROF.
(MUSIC)(I) GOVT COLLEGE THANDUTTA BILASPUR, H.P.	has participated as a Keynote Speaker/Resource
Person/Invited Speaker/Presented Paper/Poster entitled. CLIMATE C	CHANGES SLOBAL WARMING IN INDIA-
COORTERS AND PERSPECTIVES	in the international conference on
n Torde in Spigner and Technology for Environment Conservatio	on and Sustainable Development organized by Depic
of Botany & Zoology, Sidharth Govt. Utkrisht College Nadaun, Himachai	l Pradesh, India on Sep 29-50, 2023.
He/She has been awarded with Best Oral Presentation/Poster Presentation	n.

Dr. Sunita Saklani Organizing Secretary

Prof. Bhagwati P Sharma Convener Dr. Anil Kumar Gautam Principal-Cum-Patron



HIMACHAL PRADESH UNIVERSITY

con uRcas visipelos

(NAAC ACCREDITED 'A' GRADE UNIVERSITY)

UNIVERSITY REGIONAL CENTRE DHARAMSHALA(H.P.)

International Hybrid Conference

History and Culture of Himalayan Tribes: Status and Continuity
October 27-28, 2023

In collaboration with





Certificate

This is to certify that Prof./ Dr.	MIMS Bat	is chand		Designation	Assistant	Purfessi	or_
University/College/Institution _	Govt. colleg	je Jhandutta,	Bilaspur,	Himachal	Pradesh entitled for		has
Participated/Presented Paper				जीवन में	लीक नृत्य	ர கி	
भूमिका				Name of	the session_[echi	wich as	esion-
2	a Workers	fmont of History HPIT Rec	sional Centre, Dhara	mshala, District Kai	ngra, Himachal Pradi	esh, India.	

in International Hybrid Conference organised by Department of History, HPU Regional Centre, Dharamshala, District Kangra, Himachai Pracesii, India

Organising Secretary Rajender Kumar HPU RC Dharamshala Convenor

Dr. Mohinder Slariya

Scientific Steering Committee

Conference Convenor Dr. Raj Kumar HPU RC Dharamshala Director cum Patron Prof. D. P. Verma HPU RC Dharamshala





International Conference

Multidisciplinary (Arts, Commerce & Science)

on





COMMUNICATING HEALTH, HAPPINESS & LONGEVITY for SUSTAINABLE GROWTH

2nd- 4th December, 2023

Organized by:

GC Ani, Kullu H.P. India, ICFRE-Himalayan Foresrt Research Institute Shimla H.P. India & SMSHP, HNE Health Care, Hry. iTachyos, Dubai, GGC Hamirpur, Skill Labs, Chd., Wisdom of Mind Hry. Serve Himalayan Society, Shimla H.P.

Certificate

This certificate is awarded to Prof/Dr./Mr./Ms. Balbis. Chand Designation A. P. Music (I) University/College/Institution G. C. Jhandutta, B.	lashu
for delivering a Keynote Address/Invited Lecture /Chair/Co-Chair/Paper Presentation/Partici Session/Titled Impact of music therapy on mental health.	pation
He/She got	

Dr. Pawan Kumar

Scientist-F, ICFRE-HFRI SHIMLA

Dr. Anita Sharma Principal GC Ani

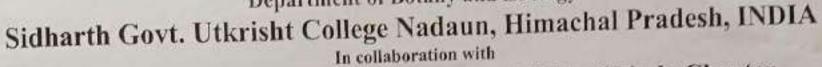


International Conference on Recent Trends in Science & Technology For Environment Conservation & Sustainable Development

September 29-30, 2023

Organized By

Department of Botany and Zoology



The Indian Science Congress Association (ISCA), Shimla Chapter



SHOLINI KUMA	RI Designation ASST PROF
(POL. Sc.) GOVT. College Janes Property Poster entitled	100/14 Katalahanan
	III THE THE THEOLOGY
Beaut Trands in Science and Technology for Environment	Conservation and Sustainable Development organized by Deptt. Wingshal Pradesh, India on Sep 29-30, 2023.
of Rotany & Zoology, Sidharth Govt. Utkrisht College Nadau	n, Himacharr i dacesti, sancti
He/She has been awarded with Best Oral Presentation/Poster	Presentation.

Sunte

Dr. Sunita Saklani Organizing Secretary Prof. Bhagwati P Sharma

Dr. Anil Kumar Gautam Principal-Cum-Patron



Himachal Pradesh, India

National Seminar

Ethics in Society: Issues and Challenges

(16th September, 2023)

Organised by

Department of Hindi

Certificate

This is to certify that Dr./Mr./Ms Bankoj Shauma Professor/
Associate Professor/Assistant Professor/Research Scholar of
Grovt: Degree College Shandutta participated in National Seminar
on Ethics in Society: Issues and Challenges. He/she acted as the Key Note Speaker/Resource Person/Chair
Person. He/she delivered a talk/presented a paper/research paper entitled
Inculcating ethical education through immunative fedagogical practices

Dr. Shyam Lat

Organising Secretary Dr. Surinder Singh

Patron (Principal)

Veena Vasudeva



Sainte

Organizing Secretary

International Conference on Recent Trends in Science & Technology For Environment Conservation & Sustainable Development September 29-30, 2023



Dr. Anil Kumar Gautam

Organized By

Department of Botany and Zoology

Sidharth Govt. Utkrisht College Nadaun, Himachal Pradesh, INDIA

In collaboration with

The Indian Science Congress Association (ISCA), Shimla Chapter



This is to certify that Prof./Dr./Mr./Ms	Pankaj Sharma	Designation Asst. Prof:
Dept of History, Govt Degree	College Thandutta Bilaspur	has participated as a Keynote Speaker/Resource Nom Project and its Environmente
Jmpacl:	loon for Environment Conservation a	in the international conference on and Sustainable Development organized by Deptt.
of Botany & Zoology, Sidharth Govt. U	tkrisht College Nadaun, Himachal Pr	adesh, India on Sep 29-30, 2023.
He/She has been awarded with Best Ora	d Presentation/Poster Presentation.	192



Himachal Pradesh, India

National Seminar

on

Ethics in Society: Issues and Challenges

(16th September, 2023)

Organised by

Department of Hindi

Certificate

This is to certify that Dr./Mr./MsArchna Shauma
Associate Professor/Assistant Professor/Research Scholar of
Grovt : Degree College Jhanduitte participated in National Seminar
on Ethics in Society: Issues and Challenges. He/she acted as the Key Note Speaker/Resource Person/Chair
Person. He/she delivered a talk/presented a paper/research paper entitled
Inculating thical education through innovative pudagogical frosties

Con enor Dr. Shyam Lal

Organising Secretary

Dr. Surinder Singh

Patron (Principal) Neena Vasudeva



Decists -

Dr. Sunita Saklani

Organizing Secretary

Recent Trends in Science & Technology For Environment Conservation & Sustainable Development September 29-30, 2023

Dr. Anil Kumar Gantam

Principal-Cum-Patron

Organized By

Department of Botany and Zoology

Sidharth Govt. Utkrisht College Nadaun, Himachal Pradesh, INDIA

The Indian Science Congress Association (ISCA), Shimla Chapter

Certificate TK

This is necessify than Prof Dr. Mr. Ms. Archna Sharma	Designation Asistant
Professor (Hinde) GDC Thandutta	
Person Invited Speaker/Presented Paper/Poster entitled Bhakhha	
Environmental Impact:	in the international conference on
Recent Trends in Science and Technology for Environment Conservation	on and Sustainable Development organized by Deptt
of Botany & Zoology, Sidharth Govt, Utkrisht College Nadann, Himacha	il Pradesh, India im Sep 29-30, 2023.
He She has been awarded with Best Oral Presentation/Poster Presentation	

Prof. Bhagwati P Sharma

Convener



Parle Tilak Vidyalaya Association's

M.L.DAHANUKAR COLLEGE OF COMMERCE

ffiliated to University of Mumbai & Accredited with 'B+' Grade by NAAC) Vile Parle (E), Mumbai - 400 057





G20 & Multilateralism A One Day International Online Conference

organised by IQAC of M. L. Dahanukar College of Commerce in collaboration with Department of Civics & Politics, University of Mumbai [ICSSR & ICWA proposed] held on 15th December, 2023

This certificate is presented to

Ms. Ranju Thakur

of Government College Jhandutta

for participating & presenting a Research Paper titled

Environment Music and Climate change

Mr Suraj T. Raut

Convenor Assistant Professor Prof Dr. Liyagat Khan

Co-Director University of Mumbai

Asso. Prof. Chandana Chakraborti

Director

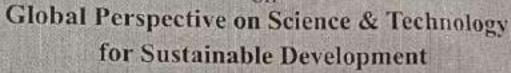
(Vice Principal)

Chairperson

(I/C Principal)

National Conference

on



in association with

Indian Science Congress Association - Rohtak Chapter Rao Pahlad Singh Degree College, Balana, Mahendergarh-Haryana

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CERTIFICATE

	of Himachal
Pradesh University, Shimla has participated / delivered invited talk / cha	ired session / presented paper (oral poster)
entitled Synthesis of Zea 9	ntimicrobial properties
in two days National Conference on "Global Perspective on Science & Technology fo	r Sustainable Development" organized by
Department of Chemistry, RPS Degree College, Balana, Mahendergarh	on 03-04 November, 2023.
\$1000 [10] [10] [10] [10] [10] [10] [10]	

Organizing Secretary

Convener

Principal

Two brays Matinga, sommer "Achteving Sustainable Bevelopment Goals to Forth-Western negion" Organized by CENTRAL UNIVERSITY OF HIMACHAL PRADESH [Accredited by NAAC with As Grails with LGPA of 3/42] (22.8-73 September, 2023) (consistation) ICSSESCENDED MS (7043 1936) Court but of Jacob spation Hamman Assistant Profests. The water way that Amet Kennas Tomorrow Commence will will the converse four contege, Thanautha Bitaspul Promption of Santa - Descript Paper through online, of the mode number MSME's Role on Susting and S. beneforment in the light of Make in India! spipersumities and Challenger.





ICSSR SPONSORED

Two-Days National Seminar





311

"Achieving Sustainable Development Goals in North-Western Region"

Organized By

School of Commerce and Management Studies

CENTRAL UNIVERSITY OF HIMACHAL PRADESH

(Accredited by NAAC with A+ Grade with CGPA of 3.42) [22 & 23 September, 2023) (Hybrid Mode)

ICSSR/CUHP/SCMS/2023/13-6

Certificate of Participation

This is to certify that Amut Kumae	Designation Assistant Professor
Department of Commutate College/Univ	ersity/Institute Gowt. Courge, Thandutta, Bilachur
Department of the Market of th	a more applied MSMF's Role in Sustainable
Participated / Presented a Most of 'Make in	India: opportunities and Challenges.
sentopment in the agree of	

Organizing Secretary

Convener

Seminar Director

Dean (SCMS)



International Conference on Recent Trends in Science & Technology For Environment Conservation & Sustainable Development September 29-30, 2023

Organized By

Department of Botany and Zoology

Sidharth Govt. Utkrisht College Nadaun, Himachal Pradesh, INDIA

In collaboration with

The Indian Science Congress Association (ISCA), Shimla Chapter

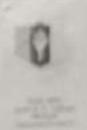
Certificate

This is to certify that Prof. Dr./Mr./Ms Proteck Deswal Designation Asst. Prof. Dept of English, Govt College Thandutta, Bilasput has participated as a Keynote Speaker/Resource Person/Invited Speaker/Presented Paper/Poster entitled Transforming Cultural Discourse Through Literature for Eco-Sustainability in the international conference on Recent Trends in Science and Technology for Environment Conservation and Sustainable Development organized by Deptt. of Botany & Zoology, Sidharth Govt. Utkrisht College Nadaun, Himachal Pradesh, India on Sep 29-30, 2023. He/She has been awarded with Best Oral Presentation/Poster Presentation.

Vainte Dr. Sunita Saklani Organizing Secretary

Prof. Bhagwati P Sharma Convener

Dr. Anil Kumar Gautam Principal-Cum-Patron



Govt. College Bilaspur

Himachal Praduct, India

National Conference

on

Changing Lifestyle, Culture and Society

(2" March, 2024)

Organised by Department of Hindi

Certificate

This is to certify that Dr. Mr. Ms. Bibasi Lal P.	rufessor/Associate
Andrews Assistant Professor/Research Scholar of	
W. C. L. L. C. House and Market Street, 1981 No.	talk/presented a
Note Speaker/Resource Person/Chair Person. Heishe delivered a paper/research paper entitled LifeStyle and Food Hubits	
paper/research paper entitledwg	

Or. Shyam Lat

Dr. Surinder Singh Organising Secretary Dr. 20%. Kutwai

Patron (Principal)





CERTIFICATE

OF PRESENTATION

This is to certify that

Rajender Kumar

from

GDC Jhandutta Dist. Bilaspur, Himachal Pradesh

has presented the paper entitled

Shaping Narratives, Breaking Barriers: A Comprehensive Study of Women's Contribution in the Literary Development of India

at National Seminar on

Women Contribution in Economic, Social and Cultural Development of India:

A Way Forward in the 21" Century as Research Scholar on 16" & 17" February 2024 organized by School of Arts & Humanities, CPU, Kota

Mr. Kamal Arora Registrar Dr. Sangeeta Mathur
HoD
Arts & Humanites, CRU Keta

Dr. Sukirti Priyadarshni Convener Mr. Royi Ranjan Organizana Teoretary



International Conference on Contemporary Researches in Engineering, Science, Management & Arts





22 - 24 February 2024

Created & Fowered by

Centre for Research & Training (CRT)
National Foundation for Entrepreneurship Development (NFED)

Coimbatore, Tamil Nadu, India www.nfedconferences.org

CERTIFICATE OF PARTICIPATION & PRESENTATION

This is to certify that Ms. Relcha Devi. Research Scholar, Department of Mathematics & Statistics, Career Point University, Hamirpur, Himachal Pradesh, India has actively participated and presented the research paper utiled 'Magneto Hydrodynamics Boundary Layer Flow and Heat Transfer of Non-Newtonian Fluid in Porous Medium' in the International Conference on Contemporary Researches in Engineering, Science, Management & Arts (ICCRESMA) created & powered by Centre for Research and Training (CRT), National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu, India on 22—24 February 2024.

Kraminger

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Govt. College Bilaspur

Himachal Pradesh, India

National Conference

on

Changing Lifestyle, Culture and Society

(2nd March, 2024)

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Professor/Assistant Professor/Research Scholar of Hindi
Govt: College Thandutta participated i
National Conference on Changing Lifestyle, Culture and Society. He/she acted as the Ke
Note Speaker/Resource Person/Chair Person. He/she delivered a talk/presented
paper/research paper entitled The Exciting Story of How Own Lives.

Dr. Shyam Lal Convenor Dr. Surinder Singh
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Dr. P. S. Kutwal

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INTERNATIONAL CONFERENCE

"Exploring Climatic Sustainability: Opportunities and Challenges"

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Organised by

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Ms. Archna Sharma

of Government College Jhandutta, actively participated and presented paper entitled
Relationship between Eco-literary Discourse and Sustainable Cultural Ecology
in the International Conference.

Dr. Daleep Bali

Prof. Gurdev Singh

Dr. Sunita Gayal Principal

S.D.W.G. Govt. College Beeton



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Changing Lifestyle, Culture and Society

(2nd March, 2024)

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		nd Society. He/she acted as the Key
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Dr. Shyam Lal

Dr. Surinder Singh Organising Secretary Dr. P.S. Kutwal

Ms. Neena Vasudeva Patron (Principal) GOVERNMENT ARYA DEGREE COLLEGE NURPUR, DISTRICT KANGRA - 176202 (H.P.)
National Seminar on Nature and Society

(NSNS-2024) 2 September, 2024



Organized by Govt. Arya Degree College Nurpur, District Kangra (H.P.), India

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Designation Assistant Professor

from Govt: Callege Thandutta, District Bilaspur (H:P) 174031

has participated in "National Seminar on Nature and Society" organized by Govt. Arya Degree College Nurpur, District Kangra (H.P.), India on 2 September 2024. He/She has acted as a Keynote Speaker/Resource Person/ Invited Speaker/Chairperson in a technical session/poster presenter/Paper presenter and made a presentation on

Society's Rale in Ecosystem Preservation: A callective
Responsibility

(Convener)

Dr. Anil Kumar Thakur (Patron com Principal)



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International Conference 2024

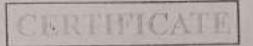
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"Recent Trends And Innovations For A Greener Future" (9-10 Feb 2024)

Organized by
Department of Chemistry, NSCBM Govt. College Hamirpur (H. P.)

In Collaboration With

The Indian Science Congress Association (ISCA) Shimla Chapter



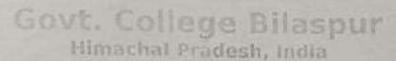
This is to certify that Dr/Mr/Ms Kamlesh Rumari, Depth of Zoology, Gr.C. Jhandulta Bilaspur (HB)
Professor/Associate Professor/Asswant Professor/Research Scholar/UG/PG Student has
participated as a Keynote Speaker/Resource Person/Invited Speaker/Presented Paper/Poster
entitled Electrical Vehicles: Journeying towards a Greener Destination
in the International Conference held on 9th-

10th February, 2024. He/She has Chaired/Co-chaired the Technical Session.

He/She has been awarded with Best Poster Presentation.

Dr. N. Deepika Khanna Organising Secretary Dr. Ratar Sharma

Dr. Shashi Sharma Chairman Dr. Pramod S. Patiel Patron/Principal)



National Conference

Changing Lifestyle, Culture and Society (2nd March, 2024)

Organised by Department of Hindi

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Professor/Assistant Professor/Research Scholar of Z.Oolo	9.4 from
Gut College Thordutta	participated in
National Conference on Changing Lifestyle, Culture and Societ	y. He/she acted as the Key
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Diversity: An Overview.	N.

Dr. Shyam Lat

Dr. Surinder Singh Organising Secretary Or. p. Kutwal

Ms. Naena Vasudeva Patron (Principal)



VALLABH GOVT. COLLEGE MANDI, H.P. INTERNATIONAL CONFERENCE



ON

"EMERGING ISSUES OF BIODIVERSITY AND ENVIRONMENT FOR SUSTAINABLE DEVELOPMENT"

Organized by: Department of Zoology and Environment-Science

Certificate

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He /She has presented a Paper/Poster entitled "ANALYZING THE INTRICATE RELATIONSHIP BETWEEN ECO-LITERATURE AND SUSTAINABLE DEVELOPMENT"

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Dr. Monika Panchani Convenor

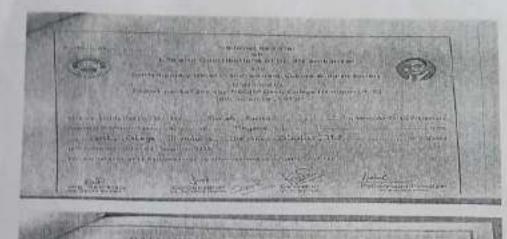
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VGC Mandi













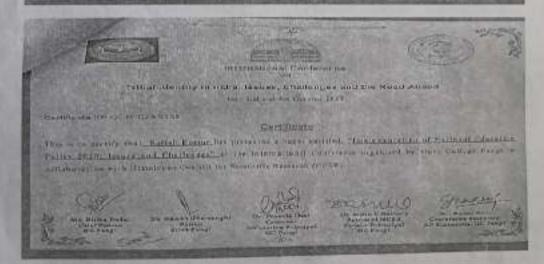
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POINT 7. Paper Published in UGC CARE List Journals

Journal of Cytology and Genetics 2021 VOL. 22 (NS): 21-24

O 2021 Society of Cytologies and Geneticats, India

RESEARCH ARTICLE

KARYOTYPIC STUDIES ON TOXOPTERA AURANTII AND MYZUS PERSICAE INFESTING ROSE PLANTS FROM HIMACHAL PRADESH, INDIA

KAMLESH EUMARI, MITENA KUMARU* AND D. C. GAUTAM

Department of Biosciences, Himschil Fradesi: University, Shirda 171 095, Incia

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(Received 6 August 2021, accepted 16 August 2021)

SUMMARY Karyotypic studies on two species of aphids, Taxoptera aurantii (Boyer de Fonscolombe) and Myzus persicae (Sulzer) infesting rose plants from Himachal Pradesh were carried out. Both these species infesting rose plants from Himachal Pradesh are observed for the first time. The diploid chromesome numbers in these species were found to be $2\pi = 8$ and 2π - 12 respectively. The chromosomes were holocentric. Total complement length as well as relative lengths of chromosomes were calculated, idiograms of both the species showed a gradual decrease in the size of chromosome pairs.

Keywords: Karyotypas, Tompstera, Myros, holocontric chromosomes, total complement length, altegrans

INTRODUCTION

Af present, chromosome numbers of 1039 species of aphids belonging to 14 families are known, which comprise about 24% of the total number of apind species (Gavrilov-Zimin et al. 2015). Abour 250 aphid species are considered serious pests of crops and cause great losses of yield (Remaudière & Remaudiére 1997).

Aphids have complex life cycles involving thelytokous parthenogenesis, polyphenism, viviparity, telescoping of generations and host alternation. Interest in aphid cytogenetics is mostly due to the holocentric nature of chromosomes [Wrenschet al. 1994). Chromosomal polymorphism occurs in aphids as a result of fusion or fission of chromosomes which leads to evolution of new biotypes (Blackman 1980, Gautamet al. 1993).

Rose is one of the most beautiful ornamental flowers. It is attacked by numerous pests; amongst

them, aphids are considered as a major pest. It is infested by 55 aphid speries (Blackman & Easter) 2000), of which 39 are previously recognized from India (Raychaudhuri 1983, Chakraberti & Sarkar 2001). Since rose aphids are of particular importance because of the damage caused and not much work has been done on chromosomes of rose aphids from Himachal Pradesh. Hence, the present investigation was undertaken to study the chromosomes of two species of aphids from this region.

Genus Toxoptera belongs to take Aphidini of family Aphididae and includes 4 or 5 species resembling Aphie. Genus Alyzus belongs to tribe Macrosiphini of family Aphididse and includes shout 55 species. The primary hosts of this heteroecious species are Pranus app., but the secondary hosts belonged to many different families. The present paper deals with the karyotypes of T. aurantii (Boyer de Fonscolomie) and M. persicae (Sulzer).







Displacement and sovereignty: Raja of Bilaspur and the Bhakra dam (1908-1947)

Pankaj Sharma' - Balkrichan Shivrara'

Received: IR December 2023 / Accepted: IR April 2024 © Indian National Science Academy 2024

Abstract

Dams and ensuing development is a contentions topic that his occupied scholars foreges, and the present article endeavors to show how the process of construction of Bhakra dam could influence the history and future of a princely state and its subjects that had been ruled by "Rajas" of Kebloor (Bilaspur) for more than 1250 years. This paper focuses on the project is liestury chiring Colonial India from 1908 to 1947. It was the period when the seed of the idea was first sowed, and the machinations behind it would eventually decide the fate of Bilaspur's small independent state. It involved the possibility of losing its identity and land and, notably, the loss of sovereign rights of its people. The independent principality occured to gain in post-colonial India as it became a district in Himschal Pradesh. The relocation beaped on the transfer termined silent in the annuls of history, and those rendered homeless remained without a voice. The Dum's construction depended on the consent of the Raja of Bilaspur and, finally, the government of India, which is the major player in the politics surrounding the Dum.

Keywords Bhakra dam - Displacement - Sovereignty - Sutley River - Punjab Government

1 Introduction

Dams and development have been a debatable topic since the twentieth century. The construction of the Bhakra dam project in Bilaspur had a telling effect on the state of Himschal and how it came to be perceived in the larger context of Indian history. This study is primarily based on archival records that include correspondence between the Government of India, the Punjab Government, and the Raja of Bilaspur, as well as several written records penned by personalities close to the project and seekers who delved deep and found invaluable information that was buried in the records. Some secondary articles and books that have dealt with the large dam stories in India have also been consulted.

Shripad Dharmadhikary's Unraveiling Bhakra. Assetsing the Temple of Resurgent India (Dharmadhikary, 2005) provides valuable information about the submerged areas under the Bhakra Nangal Project (BNP). Interestingly, a provides ngricultural production statistics before and after the construction of the Dam. The author clambes that the decision to build Bhakra was mothrated more by the desire to strengthen the negotiating position between ladia and Pakistan than by addressing the water needs of the dry areas empty of water. The author argues, "Bhakra has been given crudit for things it never did, and it is just an ordinary project with many drawbacks"

Rohan D'Souze's work Was the Large Dam a "Modern Temple"? Taking Stock of India's Tryst with the Bhakra-Nangal (D'Souza, 2022) has covered the debate over large dams from the 20th to the twenty-first century. The World Commission on Dams (WCD) was seen as an instrument to end the long-standing war between the pro-dam lobby and the anti-dam campaigners. As there was no consensus on the report, the debate over dams was focused on good dams in contrast to bad dams. D'Souza, in his work, has taken up two contrasting studies over the Bhakra Nangal Project (BNP) that was published in India almost at the same time: Dharmadhikary (published in 2005) and Rangachari (published in 2006). These studies attempted to compare the post-construction outcome of the BNP on the basis of a good versus bad dam framework, i.e., the model of WCD. They were instrumental in removing the debate from antiversus pro viewpoints. D'Soura's work also covers the study

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Department of History, Himachal Pradesh University Shimia, Summer Hill 17 (205, Jodin

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International Conference on Contemporary Challenges in Management. Education: Engineering & Applied Sciences

Cherrain College of Engineering, Karur

Date: 30° July 2022

158N: 978-93-91833-05-9

Review of the Fundamentals of Nano Fluids: Creation, Processing, Thermophysical Characteristics, Applications, and Models

Rekha Devi

Axilonant Prof. Mathematics, Gens. Collège Bhandinta, Dien. Bilaspur(H.P.)

Abstract

Due to as improved the morphysical properties, such as thermal conductivity, sharmel diffusive cocasio, and hear training marginess manufacte, which are made up of base fluids with intermeder-rated components responded in them, here received much research. Here transfer can be travered or increased when writing numbered as a property fluid. The essential articles on the synthesis ratellies and these applications will be briefly discussed in this review study. The attitudes of nuraffields in discuss applications is hampered by a number of variables that are described.

Keywords- Bane Fluids, Heat Transfer Namifluids Namifluids Model, Thermophysical properties

1. INTRODUCTION

Namefluids are basic fluids in which nanometer-sized particles are depended. The term "namefluid" was initially used in 1995 by Ches and Esseroan to describe a novel method of improving the formal conductivity of heat transfer fluid [1]. The effort to increase the thermal conductivity of fluid has been durieby dispersing the solid particles in millimater or micrometer-sizes into base fluids. Devi Reddy conducted an experiment on assumpbile radiates using water based T/O₂ outplette grycol manifold as the cooling at different concentration levels of nanopuricles [2]. The results showed that there is enhancement in host transfer coefficient comprose to the base fluid. Das et al. studied the viscous behavior of alumina-water mno fluid and concluded that viscously increases with increase in particle concentration. Experiment conducted using 41/01-water rano fluid and CuO water nano fluid when it has been observed that nano fluid containing smaller CsO particles showed enhancement in thermal conductivity with temperature [3]. An experiment performed on automobile radiator using ethylene giveol and water based TROs manufaid as the Confanat different concernation byokyol mass particles Devi Reddy et al. [2]. The results showed that there is enhancement in heat transfer coefficient compared to the base fluid. In Investigated the thermal conductivity of squeeus alumito nano and observal than there is an anomalous enhancement in thermal conductivity [4]. Investigation performed using N Diamond nano particles in different proportions of ethylene glycol want mixture and want alone and concluded that the thermal conductivity was maximum for nanoparticles dispersed in water and ethylene gipcol mixture/Shyam/Sundaret at (5). About Hamid et al. conducted in experiments using othylene glycol-7/05 and DOS - ethylene giyoed[6]. M Tajor Jamai-Ahadi et al. measured by thermal conductions of Cowgrey and Govern

International Journal of Engineering, Science and Mathematics

Vol. 13 issue 3, Aug 2024,

855N: 2/320-02/95 Impact Factor: 6/765

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HEAT TRANSMISSION OF A WILLIAMSON NANOFLUID THROUGH A POROUS MEDIUM PAST AN EXPONENTIALLY STRETCHING SHEET IN MAGNETOHYDRODYNAMIC BOUNDARY LAYER FLOW UNDER THE INFLUENCE OF RADIATION

Rekha Devi

Research Scholar.

Career Point University, Hamirpur

Himachal Pradesh

Abstract

This research purposes to analysis the impact of porous media and nonlinear thermal radiation on the magnetohydrodynamic (MHD) boundary layer flow of Williamson panofluid across an exponentially stretched sheet using Darcy Forecheimer Model. The conservative equations for mass, momentum, and energy are transformed into ordinary differential equations using an appropriate similarity transformation. The byp4c function then employed to solve the equations numerically. The assor results show that the velocity distribution improves with uprising the buoyancy parameter. Increased buoyancy and thermal radiation are other factors contributing to elevated fluid temperature. Additionally, the fluid velocity decreases with increasing magnetic parameters. By using the appropriate similarity transformation, the conservative equations for energy, mass, and momentum can be converted into ODEs (Ordinary Differential Equations). Thermophoresis as well as Brownian motion effects on heat transmission of nanoparticles are also studied. We concentrate on the heat transfer and flow of a Williamson nanofluid boundary layer over an exponentially stretchedsheet under the influence of radiation in current study.

Index Terms : Williamson nanofluid; Magnetohydrodynamic; Heat transmission; Radiation: Darcy-Forchheimer law.

L. Introduction

Magnetohydrodynamic (MHD) flow phenomena and viscous fluid energy equations have attracted a lot of attention from researchers in recent years. Particularly in situations involving flind flow over moving stretched surfaces, these phenomena find significant use in

The Concept of the Boundary Layer in the Study of Fluid Flow

Rekho Devi

"Academic Pool, Michaelmanis, Goot, College Handoma Diett, Hilay at Historial Pouls de Bales.

Abstract

The paper present network of concept of boundary layer, becombary layer theory, Pranch's Concept of boundary layer and applications of boundary layer from The Giber of boundary layer from The Giber of boundary layer, and applications of the coloniques. Green the boundary layer, as many of windows have been automated by a charge of whether from automate to develop a layer, and fail is in centural soft the surface. Becoming love is the term soul to deserthe the final layer after to the author when their is a general storing down. Be give foundation of Daid dynamics in boundary layer theory. The beam of the boundary-layer throny was Larberg Pountill paper the fire mattern of a final soft were memorial selection. The beam of the boundary-layer throny was Larberg and Mathematicans in Belief berg in August 1944 and published in the Congress Proceedings in August 1944 and published in the Congress Proceedings in August 1944 and published in the Congress of Schulberg in August 1944 and published in the Congress Proceedings in August 1944 and published in the Congress Proceedings in August 1944 and published in the Congress Proceedings in August 1944 and published in the Congress Proceedings in August 1944 and published in the Congress Proceedings and the Congress of the second in the confidence of the second in the confidence of the second in the congress of the congress of the second in the congress of the congress of

Index Terms

Brandery Stave, Elicid, Sheld Symmetric viscosity.

INTRODUCTION

A boundary layer in the field of fluid mechanics is a thirn thirn of a flowing gas or lapid its contact with a surface, such as the interior of a pipe or the wing of an occopiane. The fluid in the boundary layer aspectaness chear forces. There is a range of schooles over the boundary layer owen navissant to zero as long as the fluid is in tooch with the sattace. Because of the fluid's viscously, as fluids flow over surfaces, the interesting of the next layers we getting smaller and senatter. Only a thin layer close is the sattace is discovered to be strong down. The fluid that his above thin layer is martiscaed by this surface's existence (1).

BOUNDARY LAVER THEORY

The condition of no slip grices when a staf fluid flows pain a solid body or a cold well became the fluid particles elling to the boundary. This implies that the fluid's velocity must the borniar will be equal to that of the boundary. The velocity increases if the boundary is necessary. The condition of no slip across when a real fluid those part a solid body or a cold wall because the fluid's particles ching to the boundary. This implies fluid the fluid's wheeks must be burder will be equal to fluid in the boundary, Boundary layer floway is the boundary of the boundary fluid mathematics that deals with boundary layer flows [2]. Modern science twee its importance that to its progressive otherwises in different branch of actions and locknotings.

PRANDIUS CONCEPT OF BOUNDARY LAYER.

The boundary-layer theory was established as fundacing Pranaff's paper. On the motion of a flight with very minematic viscously', which was presented at the Braid International Congress of Membernaticians in Heidelberg in August 1904 and published in the Congress's Proceedings the following year. The boundary layer can alternatively be described in a layer as which the float punicles are moving relative to one similar. A potential flow can also be used to describe the state flow. The Narthy-Soikes equations were simplified by Pranaff's work and are now automated to as boundary layer equations.

The boundary layer begins at the leading edge of the plate. As more and more of the float is showed down, the dickness of the layer increases (3). The flow in the first put of the boundary layer (close to the leading edge of the plate) is extrely luminor. With increasing thickness, however, the laminar layer becomes anotable, and the motion within it becomes disturbed. The integularities of the flow develop into autulence, and the dackriss of the layer increases more repully. The changes from lanting to turbulest flow take place over a short length known as the transition region. Now, with the progressive development of the flow down the flat surface, the bountary layer thickens. With the reducing of thickness of boundary layer and large proportion of higher speedy that is it, the consequence is menticide. At low Reynolds number, victors force theringes the whole formularly layer and flow becomes laminar, but the mertia force governs the houndary layer regime at high Roynolds number and feath numbers flow. The one thing that he overlooked to the viscous effect i.e. the hiralizative against the flow. Sakitativ [4] studied the boundary layer flow on continuous solid surfaces. He observed that the flow of this type represents a new class of boundary layer problems, with solutions substicitially different from those for brandary layer flow on surfaces of finite length. Tuentte (S) developed a theory for finite amplitude, sleady cellular connection.

APPLICATIONS OF BOUNDARY LAYER THEORY

In a boundary layer, the viscosity of a fluid under po-slip conditions might be a rocked. Aerodynamics, hydrodynamics, transportation, whele, and occurs engineering are all impacted by boundary layer facery.

(a) Transportations (Automobiles, Franks, Cycles)

Limit type or boundary layers are offer names for all of those slow-moving ar nones. Because air is viscous the

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The Concept of the Boundary Layer in the Study of Fluid Flow

air milierides rearmi to the surface of the par become "glacif" in it. On top of time particles, the following layer of air particles moves about The following layer goes a little more quickly, and so on. Undoubselfs, a car with man streambined tenture is more effective than one with less summation because An additional streambined tenture suggests that the boulet layer will not separate them to the total of the total movement, resulting in decreased drug [6]. Less drug causes to sphere resistance archiom air. The beated refrigerant from the composition in a schigerator is cooled normally jets the atmospheraby flowing through fraud table. The laters been decondensation in a season condenses is climitated by moving water through the table. The scape of heat exchangers is also common in chemical processing, waits best recovery, and space liciting and cooling [91]. Boundary large premises effectively manage such connective at a result. DESCRIPTION OF THE PERSON NAMED IN

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No. 97 (2007)

Proceedings of 2nd International Conference on Mathematics in Space and Applied Sciences (BCMSAS-2023)



RESEARCH ARTICLE

An Overview of Nanofluids in Different Heat Transfer Mechanisms

Rokha Devi

Assistant Prof. Gerenmann College Hundurts, Oliot. Bilapper (U.P.) "Corresponding Author E-mail relibe 11117Ng-gwall-com

ABSTRACT:

The enhanced districtly recal properties of nanofficials and their capacity to be discriptorated into a variety of formula applications, metalling improving the officiency of larar archangers used to industries and aslar energy barraring for rescription energy production, are the main reasons for the growing attents to those materials. Natifields been opined thereto places of properties and as thereof conductority, factual definition, concentrate the Findly, a conclusion on the morts and demonts of numbrale is presented along with manchasts itself. The conclusion on the hunclist and devaluable of numbrale is effected together with numbrale podels to the end. Numeforth have recommon applications in sections and reclassings. Community, Youns and Das approximat model manch and fluoregreese nationals resolut are utilized to enamous for convenience from transmission in manifolds.

KEYBORDS: Namificals: horrestorie medianon

INTRODUCTION:

The augmenter of immunestive in fundamental fluids is known as national. The base fluids thermal characteristics are improved by the inchance of nasequencies in 1995, Class and Exemped 1) developed the comagn of depening nasequencies in corner fluids and coined the name "nasefluids." The base fluids include vestor physics, ots, and labricates, whereas the manuscripts entried to paske numericals labeled out-totals, ough- or mailwork carbon materials, and maderal extension Adding stafference or macrometer-stand solid particles to beautified base. have used to the to be set the thermal conductivity of the Bask. The viscosity of an element meter naturally styrasor with an increase in particle consentence, according to remarch by Date of all. When it was retigied that uses that containing smaller CisO particles showed enhancement to themsel conductors; with temperature [7], an experiment was conducted utilizing ALOS—water namefled and CisO water namefled. Devi Raddy experimented on a car tailored employing sweet-hand T.O. only/one giyoni namefled to the conduct at various compatible concurrations. tailants amplinging search hand TAD orbybose glycel numerical as the conduct at various vanopaticle concentration betch. The provise during that is a submission and management in pass management properties of the base Real Ampericans properties and automatic admits of different companions based TAD, numerical in the Cantana of different concentration bytch is unaparticles. Devi Roddy via US, The management date is unspectation to be a transfer of the face Roddy of US. The management date is unspectation to the face that the face Roddy of US. The management date is unset of the submission of the face of the face Roddy of the face of th

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to flow flexingly fortential values of various flow prime by Wooley Williams at al., and it was discovered that there can be administrated interest in band transfer out (%). Note trainfer performance of a valuable reductive on studied by S.M. Blanker et al. The model was shown to be unable to present the thomatal constitutive, of the manufacturity (%) the manufacturity of the manufact al created namefloid. Thermal analyses was need to thesester the assorbide thermal conductority[11]. These investigations by several resembles have led to the conclusion that the augmentation of thermal conductorie in distribute on concentration, temperature, have thanks, aproporticly and only and haracratical enhance that have

Parry Metals, Metal Oxides and Corbide Based Nanofletile:

In 1995, Clean proposed using comparison to enhance the thermophysical characteristics of documenthists [12]. Since then there have been considerable requests now developing namediate, with analyse thermophysical properties. must be therefore the contractions required to the appropriate and the supplementary of the supplementary thermal diffusivity and transpirity. It is presented that it is required from the appropriate of several fluids can be suppressed by the addition of small executations of nonoparticles. Pure testific (Au. Ag. Cu. Al. and Fry. contributions of scales (Al-C), Tall. InvC. 18C.), Tall. and Jack), Carbolin Chr. Tall and a variety of author accessed information, application, single testin with information amendment and a College of the appointment to require the requiremental and the supplementary of the access and applications are also as a comparable and other access and a supplementary and advances and applications are added to the access and a supplementary and advances and advances are also as a supplementary and a supplementary an

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Due to their shok colour, yielves comparishe are perfect for our absorption applications. (Additionally, they are the perfect additions for nationalists due to their externally high thermal conductivity (20-22), THO, assumptivity comming water-based nationals exhibit increasing thermal conductivities as the particle volume fraction rises, as decrementated by Marchael et al [18]. In order to achieve the most distribut representation that this made after compliances the significance of compleying the right fluid for a particular wital phase. charts in throad conductivity.

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RESTANCE ARTICLE



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Received: 75-11-2023 Accepted: 23-05-2024 Published: 14-02-2024

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Corresponding author

Euroling: None

Competing Interests: Name

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Numerical Investigation of Three-Dimensional Magnetohydrodynamic Flow of Ag – H₂O Nanofluid Over an Oscillating Surface in a Rotating Porous Medium

Rekha Devi¹⁺, Shilipa Sood²

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Abstract

Objective: To investigate the three-dimensional flow of a nanofluid (Agwater) over a stretchable vertical oscillatory sheet. This study involves considering fluctuating temperatures on the sheet and comparing them to the free stream temperature. The formulation of the unsteady boundary layer equations leading to the flow of nanofluid also takes into consideration the occurrence. of the heterogeneous-homogeneous chemical reaction and thermal radiation. Method: The governing equations and the boundary conditions have been derived in a dimensionless form by using the appropriate transformations. and they are then solved using an EFDS (Explicit Finite Difference Scheme) in Matlab software. The tron Neumann stability analysis is used to determine the method's stability requirements for constant sizes of the grid. Findings: The physical factors impact on the concentration fields, temperature distribution. and velocity distribution were obtained and are studied by graphs and described in extensive detail. Convergence and stability requirements are actained in order to achieve accurate solutions. Novelty: In this study fluctuations in the temperature and stretching velocity of sheet on threedimensional magnetohydrodynamic flow of Ag - H₂O nanofluid over an daciliating surface through rotating porous are taken into account. Impacts of porous media permeability, velocity stip, magnetic fields; nanoparticle volume fraction, heat radiation, rotation, and homogeneous and heterogeneous chemical reaction parameters had all been attempted to be determined.

Keywords: Oscillatory Surface; Heat transmission; Nonlinear PDE; Explicit Finite Difference Scheme; Nanoparticle

1 Introduction

The aspectigation of convective heat and mass transfer processes in the MHD boundary layer organs, where flow is induced by the surface's stockling as well as its periodic

International Journal of Science and Research (IJSR)

ISSN: 2319-7064 SJIF (2022): 7,942

Investigation of Mixed Convective Stagnated Flow of Casson Nanofluid Past an Exponentially Stretching Sheet, using the Darcy - Forchheimer Model

Rekha Devi1, Shilpa Sood1

Department of Mathematics and Statistics, Career Point University, Hamirpur (Himachal Pradesh), India

Abstract: This research uses the Darcy-Forchheimer model to analyze steady magneto hydrodynamics (MHD) boundary layer flow with mass and heat transport of Casson nanofluid over an exponentially stretched sheet in a porous medium with mixed convection. Additionally, consideration is given to how the transfer of the heat and the concentration of nunoparticles have been impacted by Brownian motion and thermophoresis. A method known as similarity transformation may be used to translate controlling partial differential equations into ordinary differential equations. The mathematical system of equations is solved by utilizing an inbuilt solver of MATLAB. Investigations have been done into how dimensionless parameters affect flow, heat transmission, and nanoparticle concentration. To investigate many dimensionless parameters impacts on concentration, velocity, and temperature, graphs were plotted and explained.

Keywords: Brownian motion; casson nanofluid, magneto hydrodynamics; byp4c solver

1. Introduction

Sadeghy et al. [33] have quantitatively reported the stagnation point flow of an upper convected Maxwell fluid. Ishak et al. [43] investigated an incompressible viscous fluid flow to the vertical porous stretched sheet at the mixed convection stagnation point:

There are numerous industrial operations where magnetic fields are used, including pumping, heating, levitating, and stirring liquid metals ⁶¹. MHD is the research of the movement of fluid which is electrically conducted under the magnetic field effect.

The electrically conducting liquid movement, which produces some mechanical forces and alters the fluid flow, is what produces electric current [6]. An investigation into the effect that magnetic fields have on the flow of blood was carried out by Sud et al. [7], who found that the moving magnetic field caused an increase in the speed at which blood moved. Uddin et al. [6] conducted an experiment to study the natural convective heat-transferring process in a square jar that was filled with the nanofluid and had a waved upper surface.

The process of transferring heat known as 'mixed convection' combines the processes of 'forced convection' with 'natural convection.' Mixed convection flow can essentially be divided into helpful flow and opposing flow, and this categorization is largely predicated on the direction in that the external & buoyancy-induced flow are moving. The heat transmission is supposed to be improved by assisting flow and decreased by opposing flow. Numerous applications, including air nuclear collectors, boundary layer flows, exchangers of heat, solar collectors, and others, use the stagnation-point fluid flow resulting from mixed convection [9,10,11].

Ibrahim and Makinde [12] used the power-law nanofluid to examine the effects of convective heating, velocity slip, "thermophoresis, and Brownian motion on the MHD stagnation point flow. Khan et al. [13] explored oblique hydromagnetic flow having temperature-variable viscosity towards the stagnation point employing MHD Newtonian nanofluid including thermal radiation effects.

The consequences of slip and convective boundary conditions on the MHD stagnation point flow" including the transferring of the heat for the Casson nanofluic were presented by Makinde and Ibrahim [14] and Makinde et al. [15] in their studies. The nanofluid flow containing the phenomena of buoyant force, thermophoresis, "convective heating, Brownian motion, and MHD towards the stagnation point having the impacts of heat has been investigated by Makinde et al. [16]

In the viscous fluid's boundary layer flow encouraged through an inclined stretching sheet, Haung et al.'s study [17] investigated the heat transfer analysis. Qasim et al. [18] conducted research to explore the thermal radiation impacts on the effects of mixed convection flow of viscoelastic fluid along a sheet which is inclined. Sravanthi [19] looked into the MHD slip flow on an exponentially stretched inclined sheet utilizing the Soret-Dufour phenomena. According to Eldahad and Aziz [20], mixed convection, absorption/heat generation, and suction/blowing all had an impact on the MHD boundary layer flow over an inclined stretched sheet.

Soret, magnetic field, Dufour, Joule heating, slip effects, chemical reaction, and Kumar et al.'s [21] investigation of mass and heat transportation on exponentially angled stretching sheets surrounded in porous medium". The analysis of mass &heat transport in the boundary layers carried out by Keller & Magyari [22] across an exponentially stretched continuous sheet; and many studies addressing

Volume 12 Issue 10, October 2023

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INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY



RESEARCH ARTICLE



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Received: 01-10-2023 Accepted: 11-10-2023 Published: 28-11-2023

Citation: Devi R, Sood S (2023) Numerical Analysis of the Influence of an Inclined Magnetic Field on the Flow of Casson Nanoffuid Across an Exponentially Stretching Surfae, using the Darcy-Forchheimer model. Indian Journal of Science and Technology 16(44) 4081-4089, https: //doi.org/10.17485/IJST/v16(44.2481

Corresponding author.

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Funding: None

Competing Interests: None

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Published By Indian Society for Education and Environment (iSee)

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Print: 0974-6846 Electronic: 0974-5645

Numerical Analysis of the Influence of an Inclined Magnetic Field on the Flow of Casson Nanofluid Across an Exponentially Stretching Surfae, using the Darcy-Forchheimer model

Rekha Devi¹⁺, Shilpa Sood²

- 1 Research Scholar, Department of Mathematics and Statistics, Career Point University, Hamirpur, Himachal Pradesh, India
- 2 Associate Professor, Department of Mathematics and Statistics , Career Point University, Hamirpur, Himachai Pradesh, India

Abstract

Objective: The present study analyses the heat transfer properties of a Casson fluid moving under the influence of an inclined magnetic field through an exponentially stretched surface in a porous medium using the Darcy-Forchheimer law. Non-Newtonian fluid behavior is described by using the Casson fluid model. Thermophoresis as well as Brownian motion effects on heat transmission and concentration of nanoparticle are considered. Method: With similarity transformations; nonlinear (PDE) partial differential equation has been changed to (ODEs) ordinary differential equations. By using bvp4c programme in the Matlab software, the nonlinear PDE are numerically solved. Findings: The impacts of dimensionless factors on the flow, concentration of nanoparticle and heat transfer were studied. Graphs were plotted and analyzed in order to explore how different dimensionless factors affected velocity, temperature concentration profiles. Novelty: The combination of magnetic fields, nanofluids, and the Darcy-Forchheimer model is an interdisciplinary approach. Future researchers in fields like fluid dynamics, magneto hydrodynamics, materials science, and applied mathematics could benefit from this research work. It bridges multiple disciplines and contributes to the ongoing efforts to make energy-related processes more efficient and sustainable. The findings demonstrate that the porous medium is accountable for both inflation in the thermal boundary layer thickness and a decrease in the thickness of the momentum boundary layer. For increasing the permeability of the medium, conductive heat transfer predominates. The improvement of heatand mass transport is made possible by all these elements.

Keywords: Casson fluid; Heat transmission; Nonlinear PDE.;

Darcy-Forchheimer law; Porous medium

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Non-covalent binding studies of transition metal complexes with DNA: A review

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Petential and status of biogas production in rural arxes; A case study of glumnary in development block in district Bilaspur Himschol Predesh, India

Rajender Konson⁴, Jagdish Chand⁵

[†] Respects Scholar, Department of Congreys, CPC Rosa, Raparinas, India

[†] Amustus Personno, Geography Geory College, Susquata, Sintense, Harmathal Peachest, India

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DYNAMICS OF LAND USE AND LAND COVER CHANGE DETECTION BY USING GEOSPATIAL TECHNOLOGIES: A CASE. STUDY OF DISTRICT BILASPUR IN HIMACHAL PRADESH

Rejeater Kennet, Japlish Cloud?

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Abstract!

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may defendance to tropical segress (Microsco et al., 2000), detecting submitation and land one changes in China (Liu et al., 2017), and asserting the impacts of la charges an involving of practices (Vace et al., 2010). Remote Sensing has been midely used in updating hard one-lead over major and hard one-hard over employing has become our of the not important applications of roman souring (Le and Chin. 2004; Bridge et al., 2005; Labo et al., 2006. Therefore, this stages includes purtoes of land assoluted cover, changes in land mechanic cover in Ribagon district from 1900 to 2019 with the Judy of Resourc Sensing and Goographic Information System. The continue Manusc Schooling and Geographic Information System to be specified over such distribution in according the fund sortieral cover which is one of the important supports for planning and development of an arm (Com. M. K. 2011). Souly area

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POINT 8. Teachers with Special Innovative Ideas

Items prepared by the students in the workshop under Best out of waste project. (Session 2022-2023)

















SESSION 2023-2024 .Paper crafting on Theme (Diwali Decoration)









Making of Bio Enzymes



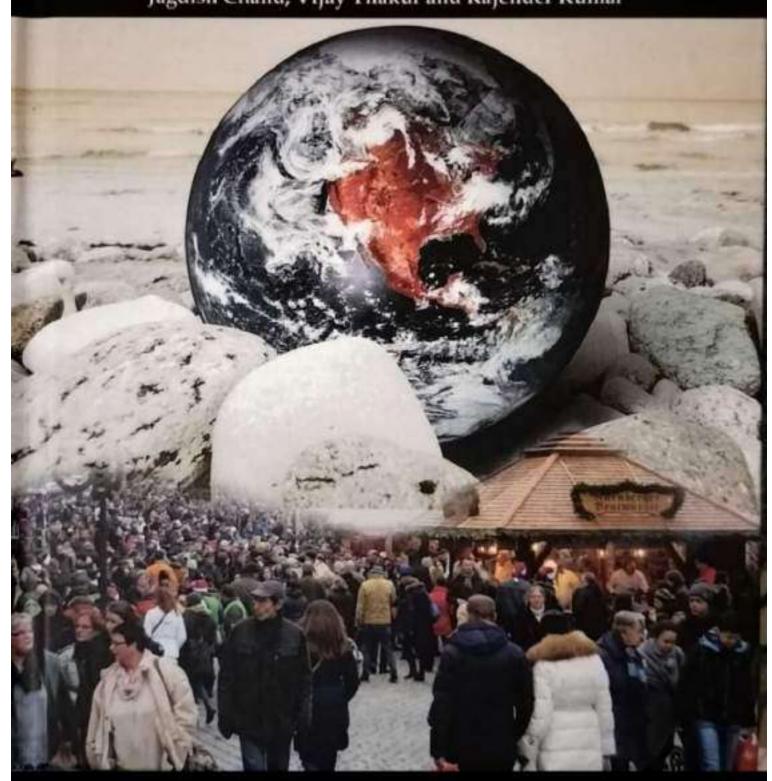




POINT 9. Books Published.

HUMAN GEOGRAPHY

Jagdish Chand, Vijay Thakur and Rajender Kumar



HUMAN GEOGRAPHY

Jagdish Chand, Vijay Thakur and Rajender Kumar

Dr. Jagdish Chand is an Assistant Professor in the Department of Geography at Government College Sangrah in Himachal Pradesh. He is coordinator of Unnat Bharat Abhiyan (Ministry of Education, GoI) and Master Trainer (UGC) for Community Based Participatory Research (CBPR) under UBA. He is a Gold Medalists in M.A. and M.Phil. He did his Ph.D from Himachal Pradesh University, Shimla in Forest Resources using Geospatial Technologies. He holds UGC NET-JRF and SLET qualifications in Geography. He has over 14 years of college teaching experience. He received Certification in Remote Sensing and GIS from the Indian Institute of Remote Sensing (ISRO) in Dehradun and the AICTE. He obtained a Post Graduate Diploma in Geo-Spatial Technologies Applications in Rural Development from the NIRD&PR Hyderabad and the AICTE. He received Professional Cartography Training from the Environmental Systems Research Institute (ESRI) in the United States. He has over 20 research papers published in various national and international journals. He has presented about 30 research papers at national and international conferences and seminars. In addition to present book he has published six books, two from Germany, one from the United States, and three from India. He completed more than 30 professional trainings and workshops in Remote Sensing & GIS, Climate Change, Disaster Management, and other fields from prestigious institutes around the world, including the Indian Institute of Remote Sensing & Space Applications Centre (ISRO) India, NASA (USA), JAXA (Japan), CSSTEAP, the United Nations, IIT New Delhi, IIPA New Delhi, DoS (GoI), NIDM (MoHA), and the United Nations Office for Outer Space Affairs. He has coordinated more than 70 IIRS-ISRO Outreach Programs and was awarded The Best Coordinator by the Indian Institute of Remote Sensing (ISRO), Dehradun, in 2020.



Dr. Vijay Thakur, Ph.D. is Associate Professor in the Department of Higher Education, Govt. of Himachal Pradesh. He is presently posted at Govt. Degree College, Hamirpur (H.P.) He has served in different degree colleges of Himachal Pradesh. The author's career as a Geographer spans about 25 years. In addition to the present book he has published 7 books, 4 research papers in National journals and presented 21 research paper in National and International conferences/ Seminars.



Rajender Kumar, did his Graduation from SVGC Ghumarwin, M.A. and M Phil in Geography from Himachal Pradesh University, Shimla, He is UGC (NET) and HPSSC (SLET) qualified in Geography. He has done two year diploma in Education (D.Ed) from HPBOSE Dharamshala. Presently he is working as an Assistant Professor, Geography in SVGC Ghumarwin. He has attended many National and International conferences and published and presented more than 12 research papers. He has 13 years experience of teaching Geography.

About the Book

The book is text cum reference on the subject, all the three authors have brought out this book in compact and easy to understand language. The book will be useful for students, teachers and researchers.



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चौखम्बा संस्कृतप्रतिस्पर्धाप्रकाश

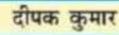
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POINT 10. Teachers as Resource Person Gout College Shandutta Site Request to depute Pres. Suresh Sharing as resource person for great lecture. to be hard StrZMain We are going to organize the guest lectures for the vocational students in GSSS and results in this regard you are requested to depute Prof. Scresh Sharma, to deliver the lecture, to vocational students manking you,

CERTIFICATE

It is certified that Prof. Suresh Sharma delivered the lecture to the Vocational Students in this institution i.e GSSS Jhandutta Distt. Bilaspur (H.P.) on dated 09-02-2024.

POINT 11. Excellence Award by DC (ECI) for the Activities under SVEEP Program