



ज्ञानं परमं बलात्
GOVT. MADHAV SCIENCE COLLEGE, UJJAIN
A GRADE ACCREDITED THROUGH NAAC
DST-FIST SUPPORTED
AFFILIATED TO VIKRAM UNIVERSITY UJJAIN
IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN



Collaborative Activities

2015-16 to 2019-20

STUDENT RESERACH INTERNSHIP PROGRAM IN CHEMISTRY 2016-17



GOVT. MADHAV SCIENCE P.G.COLLEGE UJJAIN

Presents

1st Student Research Internship Programme in Chemistry
Under PURE (PURSUIT OF RESEARCH EXCELLENCE)

Organized by: CEQIC (Cluster for Enhancing Quality through Innovation and Collaboration)

Coordinated by: P.G. Department of Chemistry and Pharmaceutical Chemistry

Supported by: Internal Quality Assurance Cell

Sponsored by: Janabhagidari Samiti of the College

It's just the beginning join us





Principal's Address.....

While signing and endorsing this report, I would like to congratulate CEQIC unit of the college and P.G. Department of Chemistry and Pharmaceutical Chemistry for the successful organization of very first Student Research Internship programme of it's kind. I would also like to take this opportunity to express my gratitude to Department of Higher Education Govt. of M.P. Bhopal, all the stakeholders who have supported the College in all its endeavors since inception. In particular, I wish to thank the distinguished Chairperson and members of the Janabhagidari Samiti who have made enormous contributions, specifically in the form of financial support. I also wish to thank State Bank of India Ujjain and Canara Bank for the support extended by them. I also appreciate the hard work of the able team of teachers, support staff and students for the valuable contribution by each one of them, had made this Internship possible. Above all, thanks to Almighty God for all the blessings that have enabled the realization of this dream, which will indeed give a life-long inheritance for the young generations from the Cluster Colleges. On behalf of the entire community of Govt. Madhav Science P.G.College Ujjain, I wish to invite comments, suggestions and any valuable contributions from the readers of the Report. This will go a long way in enabling the College achieve its goal of improving social welfare through provision of high quality all-round education to the youth.

Dr. Usha Shrivastava
Principal
Govt.Madhav Science P.G.College Ujjain

From Nodal Officer's Pen.....

It gives me a feeling of immense satisfaction and humility while writing this Report of first ever Science Research Internship for P.G.students of Cluster Colleges. My sincere thanks are due to Department of Higher Education Govt. of M.P. Bhopal for starting this ambitious Scheme of cluster colleges. I want to take this privilege to thank all the participant colleges who could make up to first ever student Research Internship organized at Ujjain. I would also like to congratulate and thank students who became witness to this rare event of Science practice. I will be shirking my duties if I do not express my gratitude to the Inspiration and support rendered by the Principal of the college Dr. (smt.)Usha Shrivastava ,financial support extended by Janabhagidari Samiti of the College, State Bank of India Ujjain and Canara Bank Ujjain. Young budding student scientists coming across the state made this academic endeavor memorable, which carved a niche in the heart and mind of not only students, but we as teachers could also feel the rush of adrenaline in us. The whole event maticulately flowed through lectures to Lab sessions to discussions to Project Hypothesis submission. Feed back session encouraged College administration to plan such programmes in the near future too. Internship opened a window of opportunity to students coming from other fine Higher Educational Institutes of the state, to know that as an institution we are destined to the bright future. Internship ignited pleasure and satisfaction in me that we are on a path to create a future full of optimism and enthusiasm, a future where every endeavor will succeed and ineptitude and disillusionment will be something of the past. However I may want to add that a little patience and sobriety will help to see us through. We should Remember that chicks are not hatched by breaking the eggs; they take time and hatch. I request all the readers of the report to please send their precious suggestions and comments to me, so that we may incorporate them in the future programmes and make them even better

Dr. Kalpana Virendra Singh

Nodal Officer CEQIC

Singhkalpana297@gmail.com

9713389538

Mentors.....

- *Dr.Ajay M.Chaturvedi*.....Professor and Head Department of Chemistry, Govt.Madhav Science P.G.College
- *Dr.Neelam Kapil*Professor Department of Chemistry, Govt.Madhav Science P.G.College
- *Dr. Arpan Bhardwaj*Professor Department of Chemistry, Govt.Madhav Science P.G.College
- *Dr. Shakuntala Pandey*...Professor Department of Chemistry, Govt.Madhav Science P.G.College.
- *Dr Manmeet K. Makkad..* Professor Department of Chemistry, Govt.Madhav Science P.G.College .
- *Smt.Pratibha Namdeo* Asstt. Professor Department of Chemistry, Govt.Madhav Science P.G.College
- *Dr.Kalpna V.Singh*.....Asstt. Professor Department of Chemistry, Govt.Madhav Science P.G.College.
- *Dr. D. S. Raghuvanshi*.....Asstt. Professor Department of Chemistry, Govt.Madhav Science P.G.College .
- *Dr.J. S. Solanki*Asstt. Professor Department of Chemistry, Govt.Madhav Science P.G.College.
- *Dr.Shobha Shouche*Asstt. Professor Department of Zoology, Govt.Madhav Science P.G.College .
- *Dr.Mamata Thakur*.....Professor Chemistry Symbiosis University of Education Indore

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“Research Internship in Chemistry”

CEQIC Initiative

3rd to 5th November 2016

Report

Three day research internship programme was organized as a CEQIC (cluster for enhancing quality through innovation and collaboration) initiative. Programme was coordinated by P.G. Department of Chemistry and Pharmaceutical Chemistry and sponsored by Janabhagidari samiti of the college, programme was supported by IQAC of the college. Financial support was also provided by the SBI Ujjain in the form of Kits. Canara bank Ujjain also sponsored refreshment in the internship. Out of 12 Cluster participant colleges 09 colleges participated in the Internship programme (List of colleges attached Annexure 01). Three colleges did not participate in the programme (Annexure 2.). 41 students registered and participated in the internship programme (Annexure 3).

The Internship was organized as a very ambitious activity of *CEQIC Cell of the college*, Christianized as *PURE* expanding up to Pursuit of Research Excellence

Over view of PURE

PURE is perceived as a 3 day Student Internship programme, as conducted by DST for school students (INSPIRE). Programme will cater to top 1% bracket of students studying in various universities / colleges of the state. Students will be allotted mentors, who will help students find out their area of interest in fundamental subjects and provide them pathway for excellence in their higher studies and research. It's an activity designed specifically for cluster Colleges, but can be taken up for other colleges in the second step. The activity will escalate students through lectures, Exhaustive discussions and general lab sessions to specific lab sessions in and outside the lab and institution (educational tours).

Emphasis will be on interactive lectures and lab sessions. Full care will be taken to judge and enhance peer group dynamics and mentor-mentee relationships. The student resource thus generated can be utilized by their parent Institute to carry forward the message among their peers.

Aim: To prepare a focused team of young researchers, who have chartered their paths towards excellence.

Origin of the Problem:

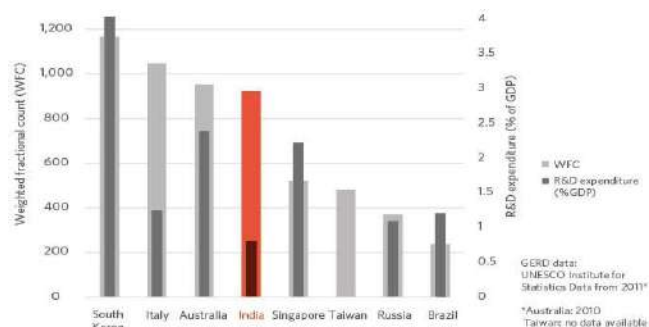
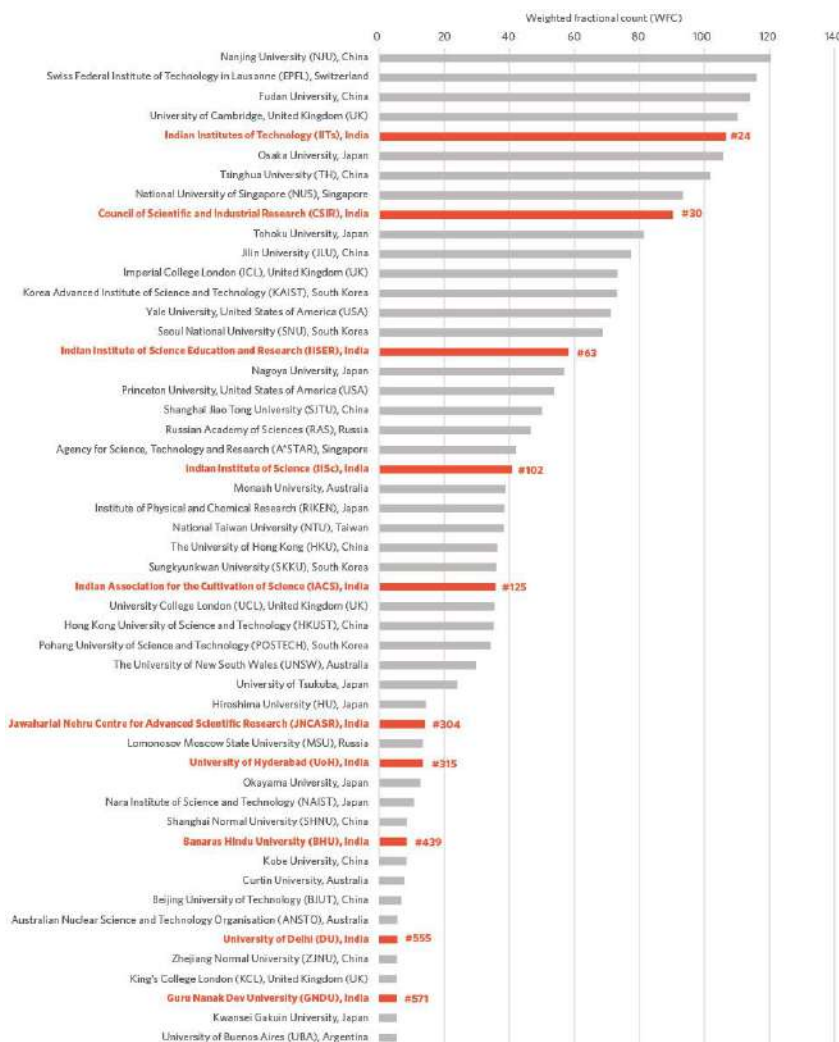


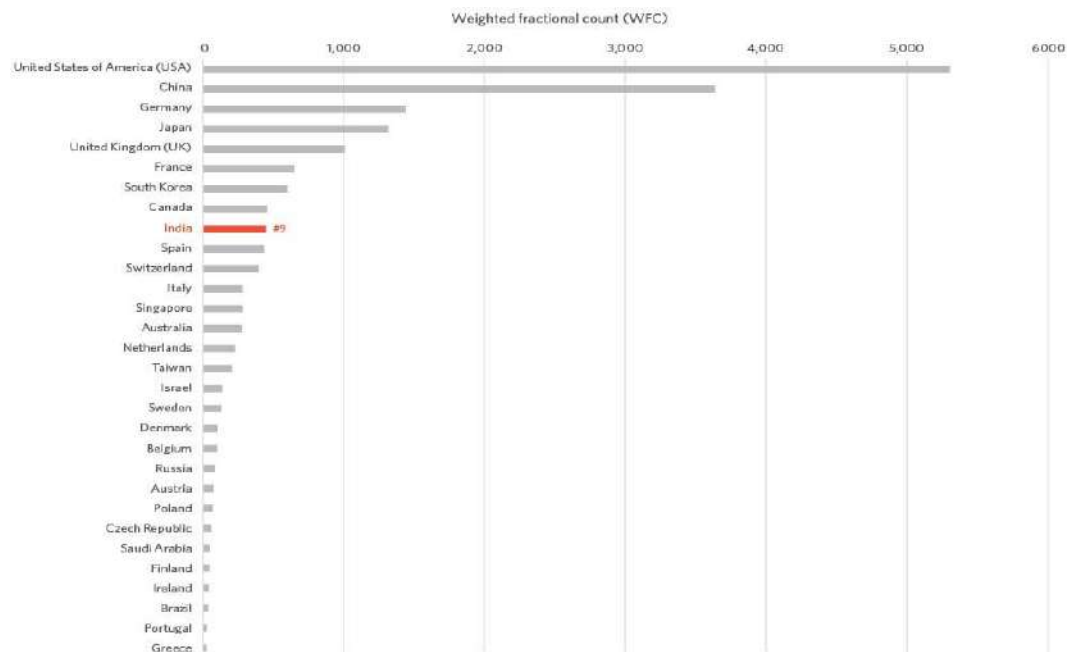
Figure 1: R&D expenditure and overall output in the Nature Index 2014 | India’s R&D spending as a percentage of its GDP is relatively low compared to other nations with a similar output in the Nature Index 2014. India’s marked growth sets it apart from the comparator countries considered in this study. Of these countries, only Russia experienced a similar increase in growth rate, although its weighted fractional count (WFC) is less than half of India’s (Fig.1).

Figure 2 Indian institutions are highly ranked in Chemistry | This graph shows Indian institutions in the context of a selection of well-recognized global institutions in the field of chemistry. Indian institutions are rubbing shoulders with many global leaders in the Nature Index. Global institutional ranks are for chemistry WFC output in the Nature Index for 2014.



In Chemistry, India's top institutions are competitive with those in Europe, the USA and Asia, and stand up to be counted among the world's top ranks (Fig.2). India is ninth (WFC = 448.9) in the index global ranking for Chemistry. Not surprisingly, the top-ten journals where Indian scientists publish are all in chemistry and the physical sciences, with 50 per cent of India's overall Nature Index output coming from chemistry alone (Fig.3)

Figure:3



Looking at the above scenario published in Nature India. Country is moving successfully towards research in Chemistry, good research is being published in quality journals. CEQIC unit of the college conceived PURE to give brilliant P.G. Students coming from different cluster colleges, an overview of recent research areas in Chemistry. Students with the knowledge about recent research areas will be more focused and prepared to give their best to research.

Methodology:

The first Internship programme in Chemistry was conceptualized based upon five major ethos of PURE

- Lectures
- Lab sessions
- Exhaustive Discussions
- Project Hypothesis
- Feed back

Process Flow:

All the participants were divided randomly into 3 groups, Group dynamics was ensured through heterogeneity amongst groups

- Venkatraman Group
- APJ Kalam Group
- CNR Rao Group

For the facilitation of students and for maintaining group dynamics four professors from Chemistry Department of the College were assigned the authorities of Group Coordinators

Sr. No.	Name of Group	Name of Group Coordinator
1.	Venkatraman Group	Dr. Shakuntala Pandey
2.	APJ Kalam Group	Dr. Neelam Kapil Dr. Manmeet K. Makkad
3.	CNR Rao Group	Dr. Pratibha Namdeo

Groups

Group 1
Venkatraman group
1. IEHE Bhopal
2. Chhatarpur
3. Sagar

Group2
APJ Kalam Group
1.Holkar Science Indore
2.Hoshangabad
3. Shahdol

Group 3
CNR Rao
1. Ujjain
2.Jijabai Indore
3.Bhopal
Sarojini

Day 2

Morning Session

Group 1.

CS Lab

Cheminformatics:

Lab session: CS Lab

**Theory and Practicals: 1000-1300 hrs.
hrs.**

Feed Back.....1300-1315 hrs.

Afternoon Session

Group 1.

Venue New M.Sc.Lab

UV Visible

Lab session: M.Sc.Lab

Theory and Practicals: 1400 - 1700 hrs.

Tea Break...1515 -1525 hrs Feedback.....1700-1720 hrs.

Group 2.

M.Sc. Class Rroom new Building

Infra Red Spectroscopy

M.Sc. Class Rroom new Building

Tea Break...1115 -1125 hrs

Group 2.

CS Lab

Cheminformatics:

Lab session: CS Lab

Group3.

Venue New M.Sc.Lab

UV Visible

Lab session: New M.Sc.Lab

Lunch.....1300-1400

Group3.

M.Sc. Class Room

Infra Red Spectroscopy

M.Sc. Class Room

Day 3

Morning Session

Group 1.

M.Sc. Class Rroom new

Infra Red Spectroscopy

Lab session M.Sc. Class Rroom new

**Theory and Practicals: 1000-1300 hrs.
1400hrs.**

Feed Back...1300-1315 hrs

Afternoon Session

Group 1.

Group3.

Feed back session and discussion 1400 hrs to 1530 hrs.

Submission of written reports/ Project hypothesis by groups and Individual Records by students

Valedictory and certificate distribution 1530 hrs. to 1700 hrs.

Group 2.

New M.Sc.Lab

UV Visible

M.Sc.Lab

Tea Break...1115 -1125 hrs

Group3.

CS Lab

Cheminformatics:

CS Lab

Lunch.....1300-

Schedule.....

Orientation “Research Internship Programme” Venue Room No.18

- Entry Behaviour of participants 1030-1035 hrs by Dr. Kalpana V. Singh
- General Introduction of activity by Dr. Kalpana V. Singh 1035 -1050 hrs
- Introduction of Group Managers 1050-1100 hrs by Dr.Kalpana V.Singh
- Know your Schedule and Labs Dr. Kalpana V. Singh 1100-1110 hrs
- Writing the Lab Manual by Dr. Neelam Kapil 1110-1120 hrs
- Submission of Research Project by Dr. Manmeet K. Makkad & smt. Pratibha Namdeo 1120-1130 hrs.

Inaugural Session November 3rd

Chief Guest: Sh. Sanket Bhondave District Collector Ujjain Chairperson Janabhagidari

Presided over by: Dr. Usha Shrivastava Additional Director Higher Education Ujjain Region.

Chief Guest, Sh. Sanket Bhondave District Collector Ujjain “Students should be torch bearers for basic research, whatever is done in the labs should come back to society in a way or other.” He asked the students to help competent authorities in soil testing of agricultural land, this will enable farmers to know their land better and help them in improving the fertility of their soil through addition of proper manure and fertilizers

Chairperson of the Inaugural ceremony Dr. Usha Shrivastava Inspired students and asked them to make full use of the opportunity by paying attention to all the academic as well as interactive sessions.

Academic Session 1: November 3rd

Speakers

Dr.Shubha Jain, Professor of Chemistry School of Studies in Chemistry and Bio Chemistry Vikram University Ujjain.

Topic “Scope of Research in Chemistry”

Dr.M.S.Parihar, Professor and Head School of Studies in Zoology and Biotechnology Vikram University Ujjain.

Topic “Research Methodology”

Explained students how a good Hypothesis can be conceived and converted in to high quality Research. He used real life examples from his research during different time intervals, while working at OHIO University PENNSYLVANIA U.S.A.

Academic Session 2: November 3rd

Over view of Spectroscopy

Electromagnetic Radiations: General terms/ Concepts. Inter Conversion of different parameters . Electromagnetic Spectrum and its Range. By Dr. Ajay Chaturvedi Head Department of Chemistry

Microwave Spectroscopy : Rigid rotator, Different types of molecules, Energy of rigid rotator, selection rule, Isotopic Effect, Population of energy states. Non rigid rotators and their energy By Dr. Kalpana Virendra Singh

UV Spectroscopy: UV Radiations, Different types of excitations, regions of UV spectra, different types of shifts, Chromophores, auxo chromes By Dr.Arpan Bhardwaj

Academic Session3: November 4th

Over view of Spectroscopy

Infra Red Spectroscopy: Rigid rotator, Vibrations in bonds bending stretching vibrations, Molecule as Harmonic and anharmonic oscillator, Overtones, Hot bands, Combination bands and Fundamental vibrations. Energy of Oscillator, Zero point energy and Morse Potential. By Dr.Kalpana Virendra Singh

Infra Red Spectroscopy: Interpretation of IR Spectra effect of bonds and substitutions on IR Spectra By Dr. Arpan Bhardwaj

Academic Session 4: November 4th

Utility of pure thinking and Personality Development: Sh Choure Assistant General Manager State Bank of India Ujjain Region

Academic Session 5: November 4th

Chem Informatics: An Important and budding area of Chemistry Research. Importance of QSAR in Pure Chemistry Research. How to develop Hypothesis and convert it into structure based drug designing By Dr. Mamta Thakur Professor Chemistry, Symbiosis University Indore.

Academic Session 6: November 5th

Thinking out of Box, Green Chemistry: By Dr. Brijesh Pare Professor Chemistry, Govt. P.G.College Shujalpur.

Lab Sessions 1& 2 on 4th November Lab Session 3 on 5th November

Manual attached for practicals. Every Student completed his/her manual and got it signed from Lab In charge and group coordinator

Lab Incharge and Associates

Chem informatics Theory/Practicals Team(responsible for designing lab experiments)

- Dr.Kalpana Virendra Singh & Dr.Shobha Shouche
- Assistance: Sh. Pradeep Saini & Sh. Ravikant Yadav
- Technical Assistance: Sh.Sudarshan Shishulkar

UV/Vis Theory/ Practicals Team(responsible for designing lab experiments)

- Dr. Ajay Chaturvedi, Dr. Neelam Kapil , Dr.Arpan Bhardwaj
- Assistance: Sh. Veer Singh Berde, Km Priyanka Khare

FTIR Theory/Practicals team(responsible for designing lab experiments)

- Dr.Arpan Bhardwaj, Dr.Deependra Singh Raghuvanshi, Dr.Jeeven Singh Solanki
- Assistance: Smt. Komal Chelaramani, Km.Shruti Sharma, Km.Namrata Vyas &
- Mr.Susheel Gour(Ex.Technician and service engineer Lab India)

Project Hypothesis Submission and Feedback 5th November

Participants were advised to submit a project Hypothesis at the end of Internship. Students were advised to pick up project topics from the research areas learnt during the Internship.

All the participants submitted Project Hypothesis, well conceived and thought. Hypothesis have been submitted to expert review committee. Selected hypothesis will be academically supported to be developed in to full detailed projects. The selected students could be facilitated in the form of summer Internship at IIT Indore.

Feedback mechanism was one of the best part of the Internship, Feedback obtained is helpful for the Institution as well as for the participants. The positive feed back obtained enhanced the spirit of the host Institute and let gear for next endeavor.

Valedictory Ceremony 5th November

Ceremony was chaired by Additional Director Higher Education Ujjain Region Dr.Usha Shrivastava

Chief Guest of the ceremony was Dr.B.K.Mehta Professor and Head School of studies in Chemistry and Biochemistry Vikram University Ujjain

List of Participating Cluster Colleges

1. Govt. Holkar Science College , Indore
2. Govt. Jija Bai Girls P.G. College, Indore
3. Institute of Excellence in Higher Education , Bhopal
4. Govt. Sarojini Naidu Girls P.G. college, Bhopal
5. Govt. Narmada P. G. College ,Hoshangabad
6. Govt. Girls P.G. College ,Saugor
7. Govt. P.G. College, Shahdol
8. Govt. Maharaja P.G. College , Chhatarpur
9. Govt. Madhav Science P.G. College, Ujjain

List of Colleges who could not make up..

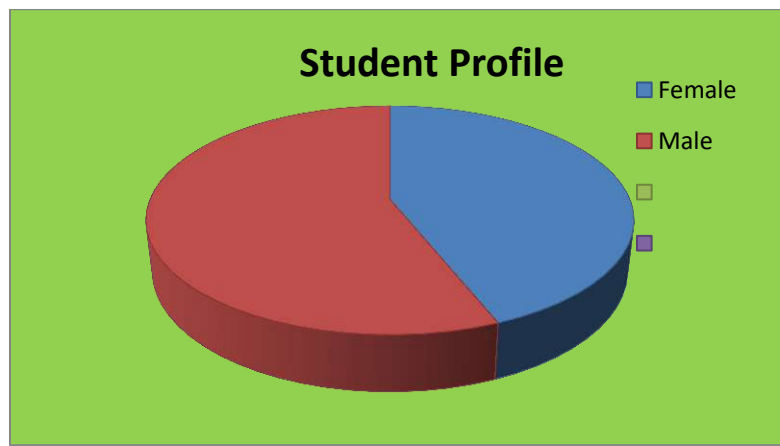
- 1.KRG Gwalior
2. Model Science College Jabalpur
3. TRS College Rewa

List of Participating Students

➤ Total Number of students....41 Female Students.....18, Male Students.....23

Sr.No.	Name of the Institute	Name of the Student	Class
1.	Institute of Excellence in Higher Education Bhopal	Sh. Anubhav Jain	M.Sc.III sem
2	Institute of Excellence in Higher Education Bhopal	Km.Greeshma Jain	M.Sc.III sem
3	Institute of Excellence in Higher Education Bhopal	Sh.Sanket Nayak	M.Sc.III sem
4	Institute of Excellence in Higher Education Bhopal	Km.Shubhangani Tiwari	M.Sc.III sem
5	Institute of Excellence in Higher Education Bhopal	Km. Ritu Singh	M.Sc.III sem
6	Institute of Excellence in Higher Education Bhopal	Km. Rajeshwari Tiwari	M.Sc.III sem
7.	Sarojini Naidu Govt.Girls'P.G.College Bhopal	Km.Kavita Mehra	M.Sc.III sem
8	Sarojini Naidu Govt.Girls'P.G.College Bhopal	Km. Ketki Verma	M.Sc.III sem
9.	Govt. Maharaja College Chhatarpur	Sh. Arvind Nishad	M.Sc.III sem (Phy.)
10.	Govt. Maharaja College Chhatarpur	Sh. Nitin Tiwari	M.Sc.III sem
11.	Govt. Maharaja College Chhatarpur	Sh.Devendra Vishwakarma	M.Sc.III sem
12.	Govt. Maharaja College Chhatarpur	Sh. Mahesh Kushwaha	M.Sc.III sem
13.	Govt. Maharaja College Chhatarpur	Sh. Manoj Kumar Mishra	M.Sc.III sem(Phy.)
14	Govt. Narmada P.G.College Hoshangabad	Sh. Prakash Uikey	M.Sc.III sem
15	Govt. Narmada P.G.College Hoshangabad	Sh.Bastiram Dhurve	M.Sc.III sem
16	Govt. Narmada P.G.College Hoshangabad	Sh.PremNarayan Ashware	M.Sc.III sem
17	Govt. Narmada P.G.College Hoshangabad	Sh.Nikesh Sahu	M.Sc.III sem
18	Govt. Autonomous Holkar Science P.G.College Indore	Sh.Aman Kakne	M.Sc.III sem
19	Govt. Autonomous Holkar Science P.G.College Indore	Sh.Sudhanshu Mishra	M.Sc.III sem
20	Govt. Autonomous Holkar Science P.G.College Indore	Km.Arпита Gova	M.Sc.III sem
21	Govt. Autonomous Holkar Science P.G.College Indore	Sh Amit Gupta	
22	Govt. Autonomous Holkar Science P.G.College Indore	Sh Rajesh Chougnad	M.Sc.III sem
23	Govt. Autonomous Holkar Science P.G.College Indore	Sh Gopal Prasad Carpenter	M.Sc.III sem
24	Govt. Autonomous Holkar Science P.G.College Indore	Sh Rohit Dubey	M.Sc.III sem
25	Mata Jijabai Govt. Girls' P.G.College Indore	Km.Krupali Labde	M.Sc.III sem
26	Mata Jijabai Govt. Girls' P.G.College Indore	Km. Monika Parmar	M.Sc.III sem
27	Mata Jijabai Govt. Girls' P.G.College Indore	Km.Jasmit Kaur Bhatia	M.Sc.III sem
28	Govt. Girls' P.G.College of Excellence Sagar	Km.Priyanka Rao	M.Sc.III sem

29	Govt. Girls' P.G.College of Excellence Sagar	Km.Ritu Baderiya	M.Sc.III sem
30	Govt. Girls' P.G.College of Excellence Sagar	Km.Sivani Soni	M.Sc.III sem
31	Govt. Girls' P.G.College of Excellence Sagar	Km.Indira Prajapati	M.Sc.III sem
32	Pt.S.N.S.Govt. P.G.College Shahdol	Sh Sachit Kumar Tripathi	M.Sc.III sem
33	Pt.S.N.S.Govt. P.G.College Shahdol	Sh Anurag Bari	M.Sc.III sem
34	Pt.S.N.S.Govt. P.G.College Shahdol	Sh. Makhan Lal Saket	M.Sc.III sem
35	Pt.S.N.S.Govt. P.G.College Shahdol	Sh. Vikas Kumar Mongre	M.Sc.III sem
36	Govt. Madhav Science P.G.CollegeUjjain	Sh.Rahul Suryavanshi	M.Sc.III sem
37	Govt. Madhav Science P.G.CollegeUjjain	Km. Harshita Shukla	M.Sc.III sem
38	Govt. Madhav Science P.G.CollegeUjjain	Km Shanu Shreemal	M.Sc.III sem
39	Govt. Madhav Science P.G.CollegeUjjain	Km. Swati Silodia	M.Sc.III sem
40	Govt. Madhav Science P.G.CollegeUjjain	Km. Swati Bhadoria	M.Sc.III sem
41	Govt. Madhav Science P.G.CollegeUjjain	Sh.Vasudev Soni	M.Sc.III sem



List of Support Material Supplied

1. Kit Inclusive of

- Back Pack (LapTop & General Utility Bag)
- Writing Pad
- Laboratory Manual (attached separately)
- List of Books (4.1)
- Feed Back forms for all sessions(4.2)
- Project Hypothesis Submission form(4.3)
- Student Identity Card(4.4)

2.e Content inclusive of spectroscopy overview lectures

3. Cheminformatics freeware on demand

- ACD Sketch
- SPDBV
- Autodock
- CYGWIN
- Chimera
- Introduction to online Docking Server

List of Books on Spectroscopy

1. Spectrometric Identification of Organic Compounds Paperback – 21 Jul 2015
by Francis X. Webster, David J. Kiemle, David L. Bryce Robert M. Silverstein
2. Organic Spectroscopy Dec 2008 by William Kemp
3. Quantum Chemistry and Spectroscopy Paperback – 2007 by Thomas Engel (Author), Philip Reid
4. Understanding NMR Spectroscopy Paperback – 19 Dec 2013 by James Keeler
5. Modern Infra red Spectroscopy by B Stuart (2005)
6. Infra red spectroscopy Biological applications (2008) B Stuart
7. Handbook of Molecular Spectroscopy Nov 2015 by D. N. Sathyanarayana
8. NMR Spectroscopy: Basic Principles, Concepts and Applications in Chemistry Paperback – 12 Oct 2010 by Harald Gunther
9. Modern spectroscopy by J. Hollas
10. Fundamentals of Molecular Spectroscopy 2016 by Banwell
11. Spectroscopy of Organic Compounds May 2016 by P. S. Kalsi
12. Molecular Structure and Spectroscopy (Second edition) 2007 by Aruldas
13. Introduction to Magnetic Resonance Spectroscopy Esr, NMR, Nqr 30 Nov 2013 by D. N. Sathyanarayana
14. Symmetry and Spectroscopy of Molecules April 2009 by K. Veera Reddy

Training Evaluation Form

Student Research Internship Programme

Under PURE(Pursuit of Research Excellence) Component of CEQIC

Date of Presentation:.....

Presenter’s Name:

Topic or Session:.....

Please complete the evaluation for today’s training session – your feedback is valuable to us and is appreciated. Govt. Madhav Science P.G. College Ujjain is committed to continual improvement and suggestions will be considered for future training needs.

Criteria	Strongly agree 4	Agree 3	Disagree 2	Strongly Disagree 1	Not Applicable 0
Training was relevant to my needs					
Materials provided were helpful					
Length of training was sufficient					
Content was well organised					
Questions were encouraged					
Instructions were clear and understandable					
Training met my expectations					
The presenter and / or presentation was effective					

1. What did you enjoy most today?

2. What did you learn today that you anticipate using in your future academic activities?

3. How will you implement this into your future academic activities and in what timeframe?

General Comments: Thank you for taking the time to help us improve our training.

.....

Name of the student

.....

Name of the Institute

Project Hypothesis Submission Form.....

Student Research Internship Programme in Chemistry

3rd -5th November 2016

Title of the Project.....
.....

Name of the Student Investigator.....

Complete Address.....

Phone Number.....Mobile number.....

Email id.....

Name and address of the Institute where work is to be carried.....

Phone Number.....

Email id.....

Name of the Institutional Guide.....

Phone number.....Mobile number.....

Email id.....

Name of the mentor.....

Objective.....

.....
.....
.....

Brief Introduction

.....
.....
.....
.....
.....

Methodology.....

.....
.....
.....
.....

Name and Signature of Group Manager

Place:

Date:

Name and Signature of Student

Place:

Date:

Photo Gallery



Outside the Venue and Chem informatics lab

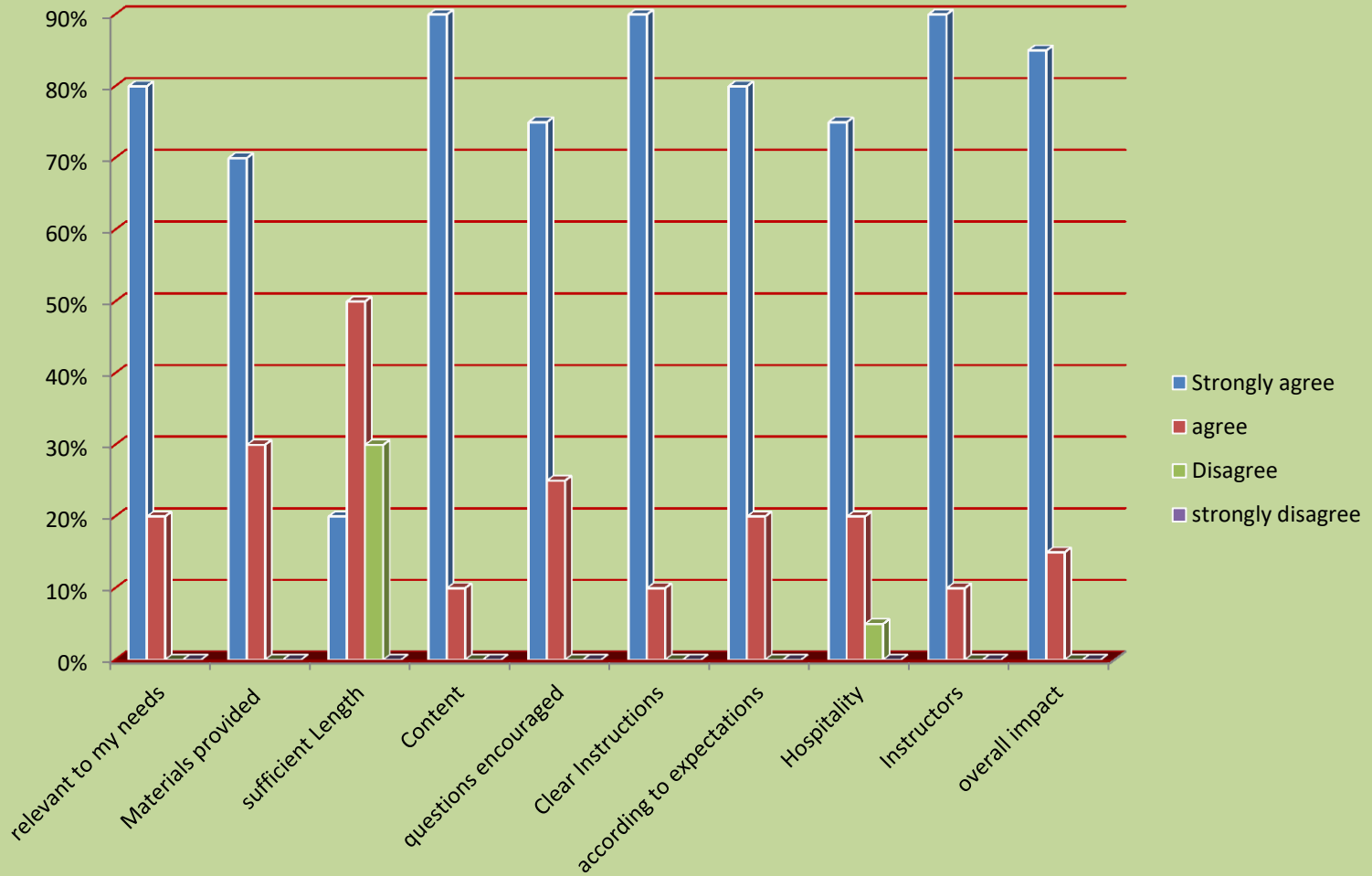


Lab Sessions IR and UV



Lunch Hours.....

Feed Back Received from Participants.....



Feed Back Analysis

- Feedback was received on following points
- Relevance of training to the needs of the participant
- Materials provided to participants
- Length of the training
- Content of the training
- Whether questions were encouraged during training
- Understandability of the instructions
- Whether training met the Expectations of the trainers
- Hospitality
- Quality of the Instructors
- Overall Impact

Host Institute got overwhelming response to all ligands 80% to 90% of the participants answered that they strongly agree by the ligand

10% to 20% agreed to the ligand

30% of the students wanted the training to be of 5 to 7 days, they found the duration to be short to comprehend all academic sessions

A very small fraction of students 5% reported that hospitality could be improved by incorporation of variants in the meals. However every participant appreciated the hygiene maintained.

Challenges faced/ Constraints.....

➤ **Budget:**

- There was no budget provision from department.
- Budget was provided by Janabhadari Samiti of the college, which was not adequate.
- Support provided by SBI and Canara Bank in the form of training kits and overhead expenses
- For future cluster endeavors we suggest that budget should be sanctioned

➤ **Heterogeneous nature of students**

- However it took training to even more heights

➤ **Festival Time**

- Training rubbed shoulders with Deepawali, a major festival observed by all in the state. Deepawali vacations were there till 01st November. Faculty of the Host Institute , specifically of Chemistry department has to sacrifice their Deepawali vacations, but it was worth

➤ **Duration of the Training**

- Training was constrained up to 3 days because of budget constraints, in the future endeavors if the budget is sanctioned duration could be increased from 3 to 5 days, that will make the training more exhaustive



ज्ञानं परमं वरम्



GOVT. MADHAV SCIENCE COLLEGE, UJJAIN

A GRADE ACCREDITED THROUGH NAAC
DST-FIST SUPPORTED

AFFILIATED TO VIKRAM UNIVERSITY UJJAIN
IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN



Students Exchange Program under Ek Bharat Shreshth Bharat

STUDENT EXCHANGE PROGRAM UNDER "EK BHARAT SHRESHTHA BHARAT" 2017-18

मध्यप्रदेश शासन भोपाल
उच्च शिक्षा विभाग
"एक भारत श्रेष्ठ भारत" के कार्यक्रम के अंतर्गत
नागालैण्ड - मणिपुर के लिए चयनित प्राध्यापकों/विद्यार्थियों की सूची

क्र.	दल प्रभारी/ विद्यार्थियों के नाम	विषय/कक्षा	महाविद्यालय का नाम	मोबाईल नं.
1.	2	3	4	5
1.	डॉ. सुधीर शर्मा, प्राध्यापक	(हिन्दी)	शासकीय एमएलबी कन्या महाविद्यालय भोपाल	8989160390
2.	डॉ. अनिल सिंह, सह प्राध्यापक,	(अंग्रेजी)	शासकीय महाविद्यालय, राउ जिला इंदौर	
3.	डॉ. अश्विनी रांगणेकर, प्राध्यापक	(संगीत)	शासकीय सरोजनी नायडू, कन्या महाविद्यालय भोपाल	9303126853
4.	डॉ. चारु चित्रा, सह प्राध्यापक	(अंग्रेजी)	के.आर.जी शासकीय कन्या स्वशासकीय महाविद्यालय, ग्वालियर	9131981332
5.	श्री नीलेश भोजक	बी.एस.सी (तृतीय वर्ष)	शा. कला एवं वाणिज्य महा. सागर	8319888403
6.	श्री प्राजल मोरे	एम.ए. (चतुर्थ सेमेस्टर)	शा. एस.एन. महा. खंडवा	9993711256
7.	श्री गौरव सिंह भदीरिया	बी.एस.सी (तृतीय वर्ष)	शा. माधव विज्ञान महा. उज्जैन	9755541610
8.	श्री कन्हैया सह	बी.एस.सी. (चतुर्थ सेमेस्टर)	शा. स्नातक महा. सिवनी	7898440162
9.	श्री लक्ष्मी चतुर्वेदी	आचार्य (अंतिम वर्ष)	शा. संस्कृत महा. राहडोल	9893508049
10.	श्री कौशल शर्मा	बी.ए. (तृतीय वर्ष)	शा. एम.एल.बी. महा. ग्वालियर	8359827407
11.	श्री शुभम चौहान	एम.ए. - हिन्दी (चतुर्थ सेमेस्टर)	शा. हनीदिया कला एवं वाणिज्य महा. भोपाल	9399783182
12.	कु. शैतिका तिबारी	बी.ए. (पंचम सेमेस्टर)	शा. कन्या महा. बीना	8109545431 9753538191
13.	कु. गरिमा चौधरी	एम.एस.सी. (द्वितीय सेमेस्टर)	शा. नवीन विज्ञान महा. इंदौर	9425352706
14.	कु. सुरभी दामाडे	बी.एस.सी. (द्वितीय वर्ष)	शा. माधव विज्ञान महा. उज्जैन	8821075705
15.	कु. स्वाति सनोडिया	एल.एल.बी. (प्रथम सेमेस्टर)	शा. विधि महा. सिवनी	7693047312
16.	कु. आस्था निगम	बी.एस.सी. (तृतीय सेमेस्टर)	शा. स्नातको. महा. सतना	7694819576
17.	कु. आद्या दीक्षित	एम.ए. (चतुर्थ सेमेस्टर)	शा. कमलाराजा कन्या स्व. महा. ग्वालियर	9926878789
18.	कु. रेणुका राजपूत	बी.काम (षष्ठम सेमेस्टर)	शा. एम.एल.बी. कन्या स्नातको. महा. भोपाल	9753550672


(डॉ. जयश्री मिश्रा)
अपर सचिव

मध्यप्रदेश शासन उच्च शिक्षा विभाग

STUDENT EXCHANGE UNDER EK BHARAT SHRESHTHA BHARAT



STUDENTS SURABHI DABHADE AND GAURAV BHADORIYA WITH GOVERNOR OF NAGALAND



STUDENTS SURABHI DABHADE AND GAURAV BHADORIYA WITH CHIEF MINISTER OF M.P.



STUDENTS SURABHI DABHADE AND GAURAV BHADORIYA WITH ADDITIONAL DIRECTOR HIGHER EDUCATION

STUDENTS CERTIFICATES

ए.भा.शं.भा./ /2017 दिनांक : अगस्त 2017

मध्यप्रदेश शासन
उच्च शिक्षा विभाग

प्रशस्ति-पत्र

प्रमाणित किया जाता है कि श्रीमती/कुमारी/श्री. सुश्री विपाशा दिवित

कक्षा

महाविद्यालय शासकीय माधव विज्ञान स्नातकोत्तर महाविद्यालय उज्जैन

विश्वविद्यालय विक्रम विश्वविद्यालय उज्जैन

ने "एक भारत श्रेष्ठ भारत" कार्यक्रम के अंतर्गत एकल गायन/ समूह गायन/ एकल नृत्य/ समूह नृत्य/ संगीत वादन/ वक्तृता/ एकांकी विधा में विश्वविद्यालयीन स्तर पर आयोजित प्रतियोगिता में प्रथम स्थान प्राप्त किया है।

इस उपलब्धि के लिए 15 अगस्त 2017 को आयोजित राजकीय समारोह में यह प्रशस्ति-पत्र प्रदान किया जाता है।
उच्च शिक्षा विभाग आपके उज्ज्वल भविष्य की कामना करता है।

बी.आर. नायडू
अपर मुख्य सचिव, मध्यप्रदेश शासन
उच्च शिक्षा विभाग

ए.भा.शं.भा./ /2017 दिनांक : अगस्त 2017

मध्यप्रदेश शासन
उच्च शिक्षा विभाग

प्रशस्ति-पत्र

प्रमाणित किया जाता है कि श्रीमती/कुमारी/श्री. सुश्री अरुणि डोंगी

कक्षा

महाविद्यालय शासकीय माधव विज्ञान स्नातकोत्तर महाविद्यालय उज्जैन

विश्वविद्यालय विक्रम विश्वविद्यालय उज्जैन

ने "एक भारत श्रेष्ठ भारत" कार्यक्रम के अंतर्गत एकल गायन/ समूह गायन/ एकल नृत्य/ समूह नृत्य/ संगीत वादन/ वक्तृता/ एकांकी विधा में विश्वविद्यालयीन स्तर पर आयोजित प्रतियोगिता में प्रथम स्थान प्राप्त किया है।

इस उपलब्धि के लिए 15 अगस्त 2017 को आयोजित राजकीय समारोह में यह प्रशस्ति-पत्र प्रदान किया जाता है।
उच्च शिक्षा विभाग आपके उज्ज्वल भविष्य की कामना करता है।

बी.आर. नायडू
अपर मुख्य सचिव, मध्यप्रदेश शासन
उच्च शिक्षा विभाग



मध्यप्रदेश शासन
उच्च शिक्षा विभाग



प्रशस्ति-पत्र

प्रमाणित किया जाता है कि श्रीमती/कुमारी/श्री. सुशी सुरभि दाहाडे
कक्षा
महाविद्यालय शासकीय माधव विज्ञान ज्ञानातकोत्तर महाविद्यालय, इन्दौर
विश्वविद्यालय विक्रम विश्वविद्यालय, इन्दौर
ने "एक भारत श्रेष्ठ भारत" कार्यक्रम के अंतर्गत एकल गायन/ समूह गायन/ एकल नृत्य/ समूह नृत्य/
संगीत वादन/ वक्तृता/ एंकावनी विधा में विश्वविद्यालयीन स्तर पर आयोजित प्रतिस्पर्धा में प्रथम
स्थान प्राप्त किया है।

इस उपलब्धि के लिए 15 अगस्त 2017 को आयोजित राजकीय समारोह में यह प्रशस्ति-पत्र प्रदान किया जाता है।

उच्च शिक्षा विभाग आपके उज्ज्वल भविष्य की कामना करता है।


बी.आर. नायडू
अपर मुख्य सचिव, मध्यप्रदेश शासन
उच्च शिक्षा विभाग



मध्यप्रदेश शासन
उच्च शिक्षा विभाग

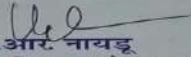


प्रशस्ति-पत्र

प्रमाणित किया जाता है कि श्रीमती/कुमारी/श्री. गौरव सिंह भदोरिया
कक्षा
महाविद्यालय शासकीय माधव विज्ञान ज्ञानातकोत्तर महाविद्यालय, इन्दौर
विश्वविद्यालय विक्रम विश्वविद्यालय, इन्दौर
ने "एक भारत श्रेष्ठ भारत" कार्यक्रम के अंतर्गत एकल गायन/ समूह गायन/ एकल नृत्य/ समूह नृत्य/
संगीत वादन/ वक्तृता/ एंकावनी विधा में विश्वविद्यालयीन स्तर पर आयोजित प्रतिस्पर्धा में प्रथम
स्थान प्राप्त किया है।

इस उपलब्धि के लिए 15 अगस्त 2017 को आयोजित राजकीय समारोह में यह प्रशस्ति-पत्र प्रदान किया जाता है।

उच्च शिक्षा विभाग आपके उज्ज्वल भविष्य की कामना करता है।


बी.आर. नायडू
अपर मुख्य सचिव, मध्यप्रदेश शासन
उच्च शिक्षा विभाग



विक्रम विश्वविद्यालय, उज्जैन

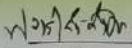


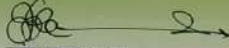
एक भारत श्रेष्ठ भारत

प्रमाण-पत्र

वर्ष 2017

प्रमाणित किया जाता है कि श्री/क. अवनि डाँगी संस्था. शा. साधु विज्ञान ज्ञान सेवा संस्थान ने विक्रम विश्वविद्यालय द्वारा आयोजित "एक भारत श्रेष्ठ भारत" आयोजन में डॉ.सी स्पर्धा में सफलता पूर्वक भाग लेकर प्रथम स्थान प्राप्त किया/सक्रिय सहभागिता की। हम इनके उज्ज्वल भविष्य की कामना करते हैं।


कार्यक्रम संयोजक


संकायाध्यक्ष
विद्यार्थी कल्याण विभाग
विक्रम विश्वविद्यालय, उज्जैन

विक्रम विश्वविद्यालय, उज्जैन

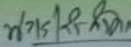



एक भारत श्रेष्ठ भारत

प्रमाण-पत्र

वर्ष 2017

प्रमाणित किया जाता है कि श्री/क. नौरव सिंह भदौरिया संस्था. शा. साधु विज्ञान ज्ञान सेवा संस्थान ने विक्रम विश्वविद्यालय द्वारा आयोजित "एक भारत श्रेष्ठ भारत" आयोजन में डॉ.सी स्पर्धा में सफलता पूर्वक भाग लेकर प्रथम स्थान प्राप्त किया/सक्रिय सहभागिता की। हम इनके उज्ज्वल भविष्य की कामना करते हैं।


कार्यक्रम संयोजक


संकायाध्यक्ष
विद्यार्थी कल्याण विभाग
विक्रम विश्वविद्यालय, उज्जैन

विक्रम विश्वविद्यालय, उज्जैन



एक भारत श्रेष्ठ भारत

प्रमाण-पत्र

वर्ष 2017

प्रमाणित किया जाता है कि श्री/कु. सुरभि दाभोडे संस्था. श्री. माधव विज्ञान स्नात. मंड. उज्जैन ने विक्रम विश्वविद्यालय द्वारा आयोजित "एक भारत श्रेष्ठ भारत" आयोजन में द्विमा स्पर्धा में सफलता पूर्वक भाग लेकर प्रथम स्थान प्राप्त किया/सक्रिय सहभागिता की। हम इनके उज्ज्वल भविष्य की कामना करते हैं।


कार्यक्रम संयोजक


संकायाध्यक्ष
विद्यार्थी कल्याण विभाग
विक्रम विश्वविद्यालय, उज्जैन

2



GOVT. MADHAV SCIENCE P.G.COLLEGE UJJAIN
DST-FIST COLLEGE, A GRADE ACCREDITED THROUGH NAAC

A workshop on
Y .H. Science Teacher's Inspirational Training Program -
An Active learning of Science by Royal Society of Chemistry

Organized By
PG Department of Chemistry & Pharmaceutical Chemistry
In collaboration with
Association of Chemistry Teachers
c/o Homi Bhabha Center for Science Education (TIFR), Mumbai

25th and 26th June 2018

Sh. Tomarji
19/6

To
Principal

School of Excellence

Dear Sir *njn*

This is to request you to appoint an active science teacher/chemistry teacher of your school for a two days workshop on "Y .H. Science Teacher's Inspirational Training Program - an Active learning of Science by Royal Society of Chemistry."

The resource persons will be

1. Ms Jaya Swaminathan, Bangalore
2. Dr V P Singh, Professor & Head, Department of Science, RIE, Ajmer

Kindly send the duly filled registration form by 22nd June in the department of Chemistry. There is no registration fee for this workshop.

Participation will be on first come - first serve basis.

Venue: Conference Hall, Dr Kalam Memorial PG Chemistry Block

Time: 10.30 am to 5.30 pm (Both the days)

Break : 1.00 pm to 1.45 pm

Brijesh Pare
Dr Brijesh Pare
Vice President ACT

Ajay
Dr Ajay Chaturvedi
Head, Chemistry

Arpan
Dr Arpan Bhardwaj
Principal



राष्ट्रीय माध्यमिक शिक्षा अभियान (RMSA)

कार्यालय जिला शिक्षा अधिकारी, उज्जैन

Ph : 0734.2525645

E-mail - ujain.rmsa21@gmail.com

क्र/आरएमएसए/2018/475

उज्जैन, दिनांक:- 20.06.2018

प्रति,

प्राचार्य
शासकीय उ.मा.वि.
संलग्न सूची अनुसार

विषय:- विज्ञान शिक्षक कार्यशाला में उपस्थित होने विषयक।

—00—

विषयान्तर्गत शास.माधव साइंस कॉलेज द्वारा विज्ञान शिक्षक प्रशिक्षण कार्यक्रम पर एक कार्यशाला का आयोजन किया जा रहा है, अतः संलग्न सूची अनुसार नामांकित शिक्षक को निम्नांकित दिनांक एवं स्थान पर भेजना सुनिश्चित करें।

दिनांक : 25 एवं 26 जून 2018.06.20
स्थान : कानफ्रेस हॉल, डॉ.कलाम मेमोरियल पी.जी. केमेस्ट्री ब्लॉक
स्मय : प्रातः 10.30 से सांय 05.30

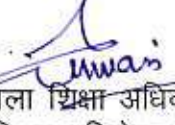
संलग्न:- 1 सहभागिता करने वाले शिक्षकों की सूची।
2 प्राचार्य, शासकीय माधव साइंस कॉलेज का पत्र।

पृ.क्र./आरएमएसए/2018/476

प्रतिलिपि:-

1. प्राचार्य, शास. माधव साइंस कॉलेज उज्जैन की ओर सूचना एवं आवश्येक कार्यवाही है।


जिला शिक्षा अधिकारी
एवं पदेन जिला परियोजना समन्वयक
आरएमएसए, उज्जैन
उज्जैन, दिनांक:-20.06.2018


जिला शिक्षा अधिकारी
एवं पदेन जिला परियोजना समन्वयक
आरएमएसए, उज्जैन

1

जिला शिक्षा अधिकारी कार्यालय, जिला उज्जैन

शिक्षक प्रशिक्षण कार्यशाला में उपस्थिति हेतु शिक्षको की सूची

क्रमांक	नाम	पद	संस्था का नाम
1	अमृता शर्मा	व्याख्याता	शा. उमावि जिवाजीगंज
2	हेमा किशोर चंदन	व्याख्याता	शा. उमावि दौलतगंज
3	सुनिता जोशी	वरिष्ठ अध्यापक	शा. उमावि दौलतगंज
4	कल्पना राठौर	व्याख्याता	शा. उमावि जालसेवा निकेतन
5	महेश कुमार त्रिवेदी	व्याख्याता	शा. उमावि माधवगंज
6	राकेश शर्मा	व्याख्याता	शा. उमावि महाराजवाडा नं. 02
7	साधना सिन्हा	व्याख्याता	शा. उमावि महाराजवाडा नं. 02
8	योगेन्द्र कोठारी	व्याख्याता	शा. उमावि उत्कृष्ट विद्यालय
9	ब्रजेश शर्मा	व्याख्याता	शा. उमावि उत्कृष्ट विद्यालय
10	कुलदीप चौहान	व्याख्याता	शा. उमावि उत्कृष्ट विद्यालय
11	राजश्री चौधरी	व्याख्याता	शा. कउमावि दशहरा मैदान
12	संध्या माहेश्वरी	व्याख्याता	शा. कउमावि धानमंडी
13	सरिता सोलंकी	व्याख्याता	शा. उमावि क्षीरसागर
14	रविन्द्र स्वर्णकार	व्याख्याता	शा. कउमावि सराफा
15	लालिमा परसाई	व्याख्याता	शा. कउमावि सराफा
16	कृतिका मनोज पराडकर	व्याख्याता	शा. उमावि विजयाराजे
17	निहारिका मित्तल	व्याख्याता	शा. उमावि विजयाराजे
18	सिविका गुप्ता	व्याख्याता	शा. उमावि मॉडल स्कूल
19	सुषमा शर्मा	वरिष्ठ अध्यापक	शा. उमावि मॉडल स्कूल
20	महेश सिंह गोलिया	व्याख्याता	शा. उमावि विजयाराजे

RSC Professional Development Program for Science Teachers at School Level

Greetings from Royal Society of Chemistry.

We are world's leading chemistry community, advancing excellence in the chemical sciences. A not-for-profit organization based in UK with a heritage that spans 175 years, we undertake many education projects across the globe including India, where-in we do a largescale science empowerment project in India under the banner of Yusuf Hamied Inspirational Chemistry Programme, envisioning to enhance the skills and knowledge of Indian chemistry teachers as well as inspire school students to study chemistry at university.

Training Objective

The aim of the Yusuf Hamied Teacher Development programme is to give teachers new tools for delivering, engaging and effective chemistry lessons. Teachers are introduced to proven active learning techniques that can be applied easily in a chemistry context, helping students develop their knowledge and enthusiasm for chemistry. They will practice using these techniques in their lessons plans.

Teachers also explore some key science topics in depth, learning about the misconceptions students may hold and how they can be tackled in the classroom. Finally, teachers get the opportunity to try some practical chemistry experiments which can be adapted to be used in any settings, including those with no traditional laboratory facilities.

Training Methodology

The Yusuf Hamied programme gives teachers the opportunity to experience effective active learning techniques as a learner, and then to explore them in more detail as a teacher. This experience gives teachers a much deeper understanding of the benefits and drawbacks of each technique used. Throughout the programme we use an active, hands-on approach, encouraging teachers to take part in activities and experiments, work together in groups on a range of tasks and discuss their views and experiences with other teachers and their Teacher Developer.

There needs to be at least two weeks of gap between each of these workshops(if possible). This is to give ample opportunity for the teachers to practise what they have learned from each workshop in their regular classroom teaching and then come up with any clarification in the subsequent workshops.

Training Modules

The training consists of three workshops. These should be delivered at least one week apart in order to allow teachers to practice some of the techniques in their own teaching and provided feedback during the next workshop. The three workshops are:

- **Moving towards active learning (Workshop 1: 4 hours)**
Teachers are introduced to the idea of active learning, and try out some new techniques which they can implement in their classrooms. They also get experience of planning a lesson based around active learning techniques
- **Chemical reactions and equations (Workshop 2: 3 hours)**

This workshop focuses on a key theme that underpins chemistry: reactions and equations. Techniques are introduced to increase students' confidence when dealing with reactions and equations, helping them make better progress in chemistry.

- **The particle nature of matter (Workshop 3: 3 hours)**

This workshop tackles a subject that many students find difficult – the abstract idea of the particle nature of matter. We discuss common student misconceptions and how they can be overcome, and introduce some new active learning techniques for teachers to try out.

Training Outcome

By the end of the three workshops, teachers should be able to:

- Extend their repertoire of teaching techniques;
- Evaluate the usefulness of definitions in science;
- Plan a lesson using active learning strategies;
- Access, with confidence, resources on the Royal Society of Chemistry website
- Make increasing use of group work in chemistry lessons;
- Explore the ideas behind students' understanding of chemical reactions;
- Explore the use of resources to help students write word equations, formulae and chemical equations
- Appreciate the common misconceptions and difficulties students experience understanding the particle nature of matter;
- Use diagnostic questions to challenge common misconceptions;
- Use a range of active learning techniques to teach about the particle nature of matter

Date for training:

25th and 26th June 2018.

Who can attend:

Though this training is aimed Science Teachers at High School level, any teacher of science at any level are welcome to attend this programme. The active teaching techniques we propose could be applied not just in Science teaching, but also for any subjects.

Duration:

Training programme is for two days and will span around 12 hours on both the days combined.

Fee for the training programme:

The programme is fully funded by RSC and Dr Yusuf Hamied and hence RSC does not collect any fee from the school or teachers who attend this programme.

GOVT. MADHAV SCIENCE P.G.COLLEGE UJJAIN

**DST-FIST COLLEGE, A GRADE ACCREDITED THROUGH NAAC
Department of Chemistry & Pharmaceutical Chemistry**



A workshop on Active learning of Science by Royal Society of Chemistry Y .H. Science Teacher's Inspirational Training Program

**In collaboration with
Association of Chemistry Teachers
c/o Homi Bhabha Center for Science Education (TIFR), Mumbai**

25th and 26th June 2018

CONCEPT NOTE

Teaching has become a profession which needs passion more than any other profession. A good teacher updated with teaching tools can develop young creative minds into excellent researchers and learners. There is a need to bring about a change in quality of teaching, moving away from the current format of rote learning. Teaching should be student centric to develop their knowledge and understanding, using newer concepts and tools based on constructivist pedagogy.

Dr Yusuf Hamied's Teacher development programme aims at giving teachers new tools for delivering engaging and effective science lessons. The teacher developers introduce teachers to active learning techniques that can be applied easily in Science context, helping students develop their knowledge and enthusiasm for Science. Royal Society of Chemistry are managing this programme in collaboration with the UK's Salters' Institute and leading Indian academic institutes.

Department of Chemistry intends to organize one such RSC'S Yusuf Hameid Scienc teachers inspirational training program on 25th and 26th of June 2018.

Who Can Participate:

School Teachers of Govt. and Private schools (who are teaching High School and senior secondary level classes of science.)

Total number of participants: 35

Mode of Delivery:

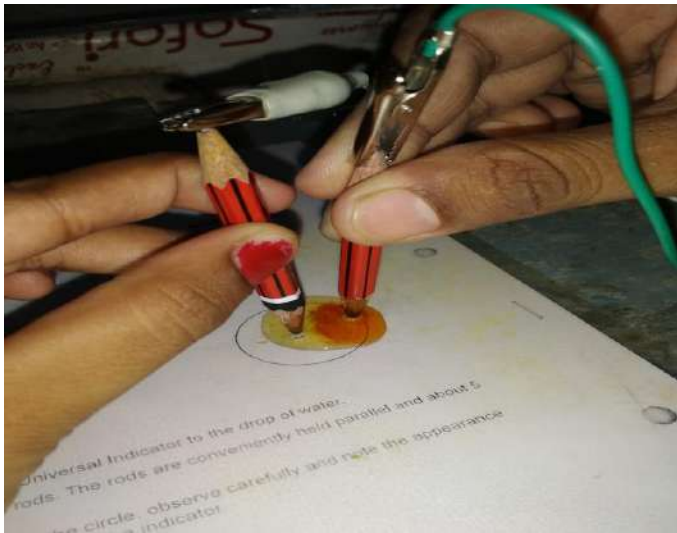
Lecture mode

Interactive activity based sessions

Out come:

- School teachers will be inspired to inculcate the learning tools into their classes, turning their classes into activity labs
- The Teacher's approach and focus will shift from teacher centric to student centric approaches the activities have been developed accordingly.







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GOVT. MADHAV SCIENCE COLLEGE, UJJAIN
A GRADE ACCREDITED THROUGH NAAC
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AFFILIATED TO VIKRAM UNIVERSITY UJJAIN
IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN



**List of Students of Govt. Madhav Science College, Ujjain participated in Y.H. Science Teachers
Inspirational Training Program**

Enrolment No.	Name	Class
V13R166250183	KRIPAL MALVIYA	M.Sc. Chemistry
V13R166100013	PRIYA PARMAR	M.Sc. Chemistry
V13R166100018	PRIYANKA SAHU	M.Sc. Chemistry
v13r166050534	RUPALI TILWANKAR	M.Sc. Chemistry
V13R166050407	SHIVANGI VYAS	M.Sc. Chemistry

Pt. RAVISHANKAR SHUKLA UNIVERSITY

SCHOOL OF STUDIES IN CHEMISTRY

Dr. MANMOHAN L. SATNAMI

M.Phil., Ph.D., TWAS Fellow

Principal Investigator

DST Fast - Track Project

"O-Nucleophilicity of Hydroxamic Acids: Esterolytic Cleavage of Some Simulants of Chemical Warfare Agents and Organophosphorus Pesticides"



RAIPUR, 492010, C.G. (INDIA)

Mobile : +91 99071-55681

E-mail: manmohanchem@gmail.com

Ref. No. : SERB/F/2411/2012-13 dated 30.07.12

Ref No :

Date :

Certificate

This is to certify that **Dr. Rekha Nagwanshi**, Assistant Professor, Department of Chemistry, Govt. Madhav P. G. Science College, Ujjain is collaborating with me and my research group since yeas 2010. We jointly designing the hypothesis, exploring the research work and making scholarly publications in the field of Nanochemistry, Nanosensors, Catalysis etc. for a decade.

Dr. Manmohan L. Satnami

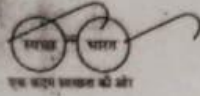


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Activities under Ek Bharat Shreshtha Bharat



सूचना का
अधिकार

V.L.V.S.S. Subba Rao
Senior Economic Adviser
Tel. 23384245

भारत सरकार
मानव संसाधन विकास मंत्रालय
स्कूल शिक्षा और साक्षरता विभाग
शास्त्री भवन
नई दिल्ली - 110 115
GOVERNMENT OF INDIA
MINISTRY OF HUMAN RESOURCE DEVELOPMENT
DEPARTMENT OF SCHOOL EDUCATION & LITERACY
SHASTRI BHAVAN
NEW DELHI-110 115

DO No. No. 11018/02/2019-EBSB

28th November, 2019.

Dear Sir/Ma'am,

I am to draw your kind attention to this Ministry's earlier DO letter of even no. dated 5th November, 2019 regarding Ek Bharat Shreshtha Bharat programme seeking month-wise calendar of activities till 30.06.2020 and details of Nodal Officer in the State/UT by 15th November, 2019(copy enclosed). However, nothing has been heard from your end in this regard yet.

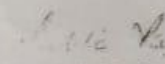
2. I, therefore, request your personal attention for ensuring the following necessary steps immediately in line with earlier practice:

- (i) Preparation of a month-wise calendar of activities, in consultation with the partner State/UT, incorporating activities, timelines and implementation responsibilities and send the same by 6th December, 2019 at the email ehsbmhrd19@gmail.com.
- (ii) Identify a Nodal Officer in the State/UT who would be entrusted with coordination, monitoring, implementation, dissemination and information collating functions. The complete contact details of the Nodal Officer may be sent to the above mentioned email id.

3. This programme is being monitored at the top level and as the Nodal Ministry, this Ministry looks forward to your active participation for successful implementation.

Yours sincerely,

Encl: As above.


V.L.V.S.S. Subba Rao

To

The Chief Secretaries Administrators of the States/UTs
(2 copies) Karnataka, Maharashtra, and UTs of Daman & Diu and J&K)

Ek Bharat Shreshtha Bharat Engagement Matrix

The following engagement matrix has been put in place under programme:

- Jammu & Kashmir and Ladakh: Tamil Nadu
- Punjab : Andhra Pradesh
- Himachal Pradesh : Kerala
- Uttarakhand : Karnataka
- Haryana: Telangana
- Rajasthan: Assam
- Gujarat: Chhattisgarh
- Maharashtra: Odisha
- Goa: Jharkhand
- Delhi: Sikkim
- Madhya Pradesh : Manipur & Nagaland
- Uttar Pradesh : Arunachal Pradesh & Meghalaya
- Bihar : Tripura & Mizoram
- Chandigarh : Dadra & Nagar Haveli
- Puducherry : Daman & Diu
- Lakshadweep : Andaman & Nicobar

Report on the activities conducted under EBSB for the month of February 2020.

Name of the Ministry/Department : Govt. Madhav Science PG College Ujjain					
S.No.	Name of Activities	Place/Institution	Date	Number of Participant	Remark if any
01	<ul style="list-style-type: none"> डॉक्यूमेन्ट्री प्रदर्शन : "एक भारत श्रेष्ठ भारत" के अंतर्गत नागालैण्ड की कला और संस्कृति पर आधारित डॉक्यूमेन्ट्री दिखाई गई। 	शासकीय माधव विज्ञान महाविद्यालय, उज्जैन	12.02.2020	48	—
	<ul style="list-style-type: none"> डॉ. इन्दरसिंह परमार द्वारा नागालैण्ड की भौगोलिक स्थिति एवं जनजाति की जानकारी दी गई। 				
	<ul style="list-style-type: none"> महाविद्यालय के प्राचार्य डॉ. अर्पण भारद्वाज द्वारा नागालैण्ड पर विद्यार्थियों के साथ संवाद हुआ। 				
02	<ul style="list-style-type: none"> प्रेसीडेन्सी कॉलेज किफिरे नागालैण्ड के विद्यार्थियों एवं कॉलेज के प्राचार्य व प्राध्यापकों के साथ मोबाईल पर चर्चा हुई। जिसमें नागालैण्ड की संस्कृति, नृत्य, मौसम, त्यौहार और परीक्षाओं से संबंधित बातचीत हुई। वहाँ के नोडल अधिकारी प्रो. मिश्रा से बातचीत होती रहती है। 	शासकीय माधव विज्ञान महाविद्यालय, उज्जैन	14.02.2020	20	—
03	<ul style="list-style-type: none"> नागालैण्ड की आर्थिक स्थिति पर निबंध प्रतियोगिता आयोजित की गई। 	शासकीय माधव विज्ञान महाविद्यालय, उज्जैन	24.02.2020	15	—
	<ul style="list-style-type: none"> नागालैण्ड से संबद्ध चित्रकला एवं पोस्टर निर्माण प्रदर्शनी का आयोजन किया गया। विद्यार्थियों ने "एक भारत श्रेष्ठ भारत" की थीम पर पेन्टिंग बनाई। नागालैण्ड का नक्शा, हर्निवल फेस्टिवल, नागालैण्ड के लोक नृत्य, नागालैण्ड की नदियाँ, वहाँ के भोजन एवं न्यूट्रीशन वेल्यू, वनस्पतियाँ, जनजाति, युनिवर्सिटीज एवं नागालैण्ड की पार्लियामेंट पर पोस्टर निर्माण किया गया। विद्यार्थियों ने पोस्टर पर अंकित कर उनकी व्याख्या की। बड़ी संख्या में विद्यार्थियों ने इसका अवलोकन किया। 			25	

नोडल अधिकारी का नाम : प्रो. शशि जोशी
प्रोफेसर एवं अध्यक्ष हिन्दी विभाग
शासकीय माधव विज्ञान महाविद्यालय, उज्जैन

DOCUMENTARY FILM ON ART & CULTURE OF NAGALAND (12.02.2020)



**SKYPE & GROUP CHAT WITH PRINCIPAL AND STUDENTS OF ZISAJI PRESIDENCY COLLEGE,
KIPHIRE NAGALAND (14.02.2020)**









ज्ञानं परमं बलम्
GOVT. MADHAV SCIENCE COLLEGE, UJJAIN
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IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN



Three days webinar was organized by Govt. Madhav Science College Ujjain from 1st June 2020 to 3rd June 2020 on Role of Indian Culture and Heritage: In Covid 19 Era by EBSB Club under Ek Bharat Shreshth Bharat. Dr. Shashi Joshi was the convener of the program & Dr. Arpan Bhardwaj, Principal Chaired the session. Dr. Pooja Upadhyay, Dr. Pooranchandra Mishra and Dr. Vikas Dave were invited as keynote speakers.

शासकीय माधव विज्ञान स्नातकोत्तर महाविद्यालय, उज्जैन

राष्ट्रीय त्रिदिवसीय वेबीनार 2020
'एक भारत श्रेष्ठ भारत'

Role of Indian Culture and Heritage : In Covid 19 Era
(कोरोना काल में भारतीय संस्कृति और विरासत की भूमिका)

Supported by IQAC
लिंक - <https://docs.google.com/forms/d/e/1FAIpQLScg21KR1OTMmJ0gUxbtrtU-K1cPe2DuJNoZFUJ0n5Wom3pn8w/viewform>

दिनांक 1, 2 एवं 3 जून 2020
समय : दोपहर 2.00 से 3.00 बजे तक

प्रमुख वक्ता :



डॉ. पूजा उपध्याय
सहायक प्राध्यापक
वैदिक संस्कृत विभाग
महर्षि पानिनी संस्कृत विश्वविद्यालय,
उज्जैन

विषय : भारतीय दर्शन
दिनांक : 1-6-2020
समय : दोपहर 2 से 3 बजे तक



डॉ. पूर्णचन्द्र मिश्रा
प्रधान प्राध्यापक
शासकीय विभागी अमेरिकन महाविद्यालय
किरिरी, नागालैण्ड

विषय : भारतीय कला और संस्कृति
दिनांक : 2-6-2020
समय : दोपहर 2 से 3 बजे तक



डॉ. विकास दत्ते
प्रबन्ध सहायक देवपुर

विषय : भारतीय विरासत
दिनांक : 3-6-2020
समय : दोपहर 2 से 3 बजे तक

आयोजक :

डॉ. अर्पण भारद्वाज
प्राचार्य
शासकीय माधव विज्ञान स्नातकोत्तर महाविद्यालय, उज्जैन

डॉ. कल्पना सिंह
रूसा समन्वयक
शासकीय माधव विज्ञान स्नातकोत्तर महाविद्यालय, उज्जैन


संयोजक
डॉ. शशि जोशी
नोडल अधिकारी EBSB
शासकीय माधव विज्ञान स्नातकोत्तर महाविद्यालय, उज्जैन

परामर्शदाता :
डॉ. शोभा शौचे, डॉ. शूर्पांगी वैद्य, डॉ. रोहिताश्व शर्मा,
डॉ. प्रमोद मालवीय, डॉ. जीवन सिंह सोलंकी, डॉ. इन्द्रसिंह परमार (EBSB Club)

THE FREE PRESS JOURNAL 4/13

ting treatment at the same hospital. It is reported to are getting treatment in different hospitals.

Webinar on 'Role of Indian culture and heritage in COVID-19 era' held



A webinar on 'Role of Indian Culture and Heritage in Covid-19 Era' being organised by Government Madhav Science Post Graduate College

FP NEWS SERVICE
Ujjain

Science College Dr Arpan Bhardwaj said that in the era of COVID-19 the webinar enlightened the students and expressed his gratitude towards the guest speakers.

Rusa coordinator of Government Madhav Science College and coordinator of the webinar Dr Kalpana Singh synchronised the webinar. Nodal officer of EBSB and moderator of the webinar Dr Shashi Joshi conducted the webinar and expressed her thoughts on the topic. Dr Shobha Shouche, Dr Shubhangi Vaidya, Dr Rohitashva Sharma, Dr Pramod Malviya, Dr Jeevan Singh Solanki and Dr Inder Singh Parmar also gave their important support in the webinar.

Eeshi Parmar presented a PPT on the EBSB activities conducted throughout the year in the college. Mayank Shotriya, Sudarshan Shishulkar and team gave their technical support. The webinar was attended by large number of professors and students of Ujjain and Kiphire (Nagaland).

मध्यप्रदेश स्टेट प्रोजेक्ट डायरेक्टोरेट, राष्ट्रीय उच्चतर शिक्षा अभियान (रूसा)
उच्च शिक्षा विभाग, भोपाल (मध्यप्रदेश)

(192, एवीएन टावर, मेजनाइन फ्लोर, जोन-1, एम.पी. नगर, भोपाल, E_mail :- rusamphe@gmail.com)

क्रमांक 512/रूसा /2020

भोपाल, दिनांक 29/10/2020

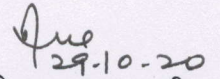
प्रति,

कुल सचिव एवं प्राचार्य,
समस्त रूसा लाभार्थी संस्थान
उच्च शिक्षा विभाग म.प्र., भोपाल

विषय – 'एक भारत श्रेष्ठ भारत' कार्यक्रम के अंतर्गत 6 माह की ऑनलाइन गतिविधियों की कार्य योजना |

'एक भारत श्रेष्ठ भारत' कार्यक्रम के अंतर्गत आगामी 6 माह की गतिविधियों की कार्य योजना पत्र के साथ संलग्न कर प्रेषित की जा रही है | सभी रूसा लाभार्थी महाविद्यालयों को यह गतिविधियाँ आयोजित करना आवश्यक है।

'एक भारत श्रेष्ठ भारत' कार्यक्रम के अंतर्गत यह देखा जा रहा है कि केवल कुछ ही महाविद्यालय ऑनलाइन गतिविधियाँ आयोजित कर रहे हैं जबकि पूर्व में भी MHRD द्वारा जारी आदेश एवं गतिविधियों का विवरण आपको प्रेषित किया गया है। कुछ महाविद्यालयों से मेल द्वारा यह जानकारी मिलती है कि कोविड के कारण गतिविधियाँ संभव नहीं हैं या महाविद्यालय में विद्यार्थियों के न होने के कारण यह संभव नहीं हो पाया एवं महाविद्यालय निल रिपोर्ट भेज रहे हैं जबकि आपको यह सभी गतिविधियाँ ऑनलाइन आयोजित करनी हैं। कृपया संस्था प्रमुख यह सुनिश्चित करें कि गतिविधियाँ दी गयी कार्य योजना के अनुसार आयोजित हों एवं प्रत्येक माह की 8 तारीख को उसकी रिपोर्ट रूसा कार्यालय को प्राप्त हो साथ ही संस्था अपने 'एक भारत श्रेष्ठ भारत कार्यक्रम' के ट्विटर अकाउंट पर भी उसे अपडेट करते रहें |



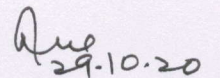
(अखिलेश कुमार शर्मा)

वि.क.अ, स्टेट प्रोजेक्ट डायरेक्टोरेट
रूसा, उच्च शिक्षा विभाग, भोपाल
भोपाल, दिनांक 29/10/2020

क्रमांक 513/रूसा /2020

प्रतिलिपि

1. निज सहायक, प्रमुख सचिव, उच्च शिक्षा विभाग भोपाल म.प्र.
2. निज सहायक, अपर आयुक्त, उच्च शिक्षा विभाग भोपाल म.प्र.



वि.क.अ, स्टेट प्रोजेक्ट डायरेक्टोरेट
रूसा, उच्च शिक्षा विभाग, भोपाल

6 Month Action plan for Online Activities under Ek Bharat Shrestha Bharat

Months	Activities											
	Online Workshop	Webinar	Online Quiz	Essay Competition	language learning	aaj ka vakya	EBSB day Celebration by EBSB club	Documentray related to culture and history to paired state	Awareness and orientation Programmes (swatchta , water Conservation, save Enviromental, blood Donation etc)	Celebration of National and International days. (Yoga day, Environment day, sports day, earth day, human right day etc.)	Cultural Exchange programme	Whats App /Skype Buddies Project
	1	2	3	4	5	6	7	9	10	11	12	13
Nov-20		√		√	√	√	√	√	√	√		√
Dec-20	√	√	√		√	√	√		√	√		√
Jan-21		√		√	√	√	√	√	√	√	√	√
Feb-21	√	√	√		√	√	√		√	√		√
Mar-21		√		√	√	√	√	√	√	√		√
Apr-21	√	√	√		√	√	√		√	√	√	√

1. Subject and dated for differents Activities will be decided by the institution authorities.

2. Celebration of National and International days will be organised as per calender.

//EBSB प्रतिवेदन//

शासकीय माधव विज्ञान स्नातकोत्तर महाविद्यालय, उज्जैन में EBSB की निम्नलिखित गतिविधियाँ आयोजित हुईं।

1. 20 नवम्बर 2020 को "नवोषा" पुस्तक का विमोचन किया गया। कार्यक्रम में मुख्यअतिथि माननीय डॉ. मोहन यादव, उच्च शिक्षा मंत्री, मध्यप्रदेश शासन, श्री अनिल फिरोजिया सांसद उज्जैन-आलोट संसदीय क्षेत्र, श्री पारसचन्द्र जैन विधायक उज्जैन उत्तर, श्री विवके जोशी भाजपा नगर अध्यक्ष थे। नवोषा में लॉकडाउन अवधि में पार्टनर कॉलेज शासकीय जिसाजी प्रेसीडेंसी कॉलेज किफिटे, नागालैण्ड के मित्रों को कोरोना महामारी से बचने के संदेश देने हेतु पत्र लेखन एवं रचनात्मक लेखन शामिल किया गया। सम्पादन EBSB नोडल अधिकारी डॉ. शशि जोशी ने किया। संरक्षक प्राचार्य डॉ. अर्पण भारद्वाज थे एवं सहयोग रुसा , जनभागीदारी समिति एवं IQAC सेल का रहा।
2. 26.11.2020 को EBSB के द्वारा संविधान दिवस मनाया गया। डॉ. शशि जोशी ने भारतीय संविधान की उद्देशिका का वाचन किया। इस अवसर पर महाविद्यालय के प्राध्यापक एवं EBSB के विद्यार्थी उपस्थित थे।
3. 26.11.2020 को EBSB के सहयोग से "संविधान के मूल्य एवं सिद्धांत" विषय पर ऑनलाईन वेबिनार आयोजित किया गया। जिसमें प्रमुख वक्ता डॉ. ब्रह्मदीप अलूने, व्यक्तित्व विकास प्रकोश्ट सेल संयोजक, उच्च शिक्षा विभाग तथा श्री पी. एन. सोलंकी समाज सेवक थे। संयोजन EBSB समिति सदस्य डॉ. जीवन सिंह सोलंकी ने किया। आभार डॉ. कल्पना सिंह IQAC प्रभारी ने माना।
4. दिनांक 28.11.2020 को डॉ. मनमीत कौर मक्कड का गुरुनानक जयंती के अवसर "सिख धर्म का राष्ट्र को प्रदेय" विषय पर व्याख्यान आयोजित किया गया।



Ujjain, Madhya Pradesh, India
 Ujjain Dewas Rd, Vikram University, Ujjain, Madhya Pradesh 456010,
 India
 Lat N 23° 9' 32.7168"
 Long E 75° 48' 23.2596"
 26/11/20 11:34 AM



Celebration of 71st Constitution Day

Webinar संविधान के मूल्य एवं सिद्धान्त
on Google Meet 3.00 p.m.

26th November 2020



GOVT. MADHAV SCIENCE PG COLLEGE UJJAIN

INSTITUTE OF EXCELLENCE IN HIGHER EDUCATION (GOVT. OF M.P.)
 A GRADE ACCREDITED THROUGH NAAC
 DST-FIST SUPPORTED

Organized by : PRIDE (Flagship Programme)
 Supported by : INTERNAL QUALITY ASSURANCE CELL
 SLNC (State Level NAAC Cell)
 ANMP 01-3 NAAC
 (Atma Nirbhar Madhya Pradesh Output Indicator -3 NAAC)



Dr. Brahmadeep Alune
 State Co-ordinator
 Personality Development Cell
 Higher Education, Bhopal



Dr. Arpan Bhardwaj
 Principal
 Govt. Madhav Science P.G. College
 Ujjain



Dr. H. S. Dwivedi
 Professor Botany
 Incharge Principal
 Govt. Madhav Science P.G. College, Ujjain



Mr. P. N. Solanki
 Social Worker



Dr. Jeevan Singh Solanki
 Co-ordinator, PRIDE
 Govt. Madhav Science P.G. College
 Ujjain



Dr. Kalpana Singh
 Co-ordinator, IQAC
 Govt. Madhav Science P.G. College
 Ujjain



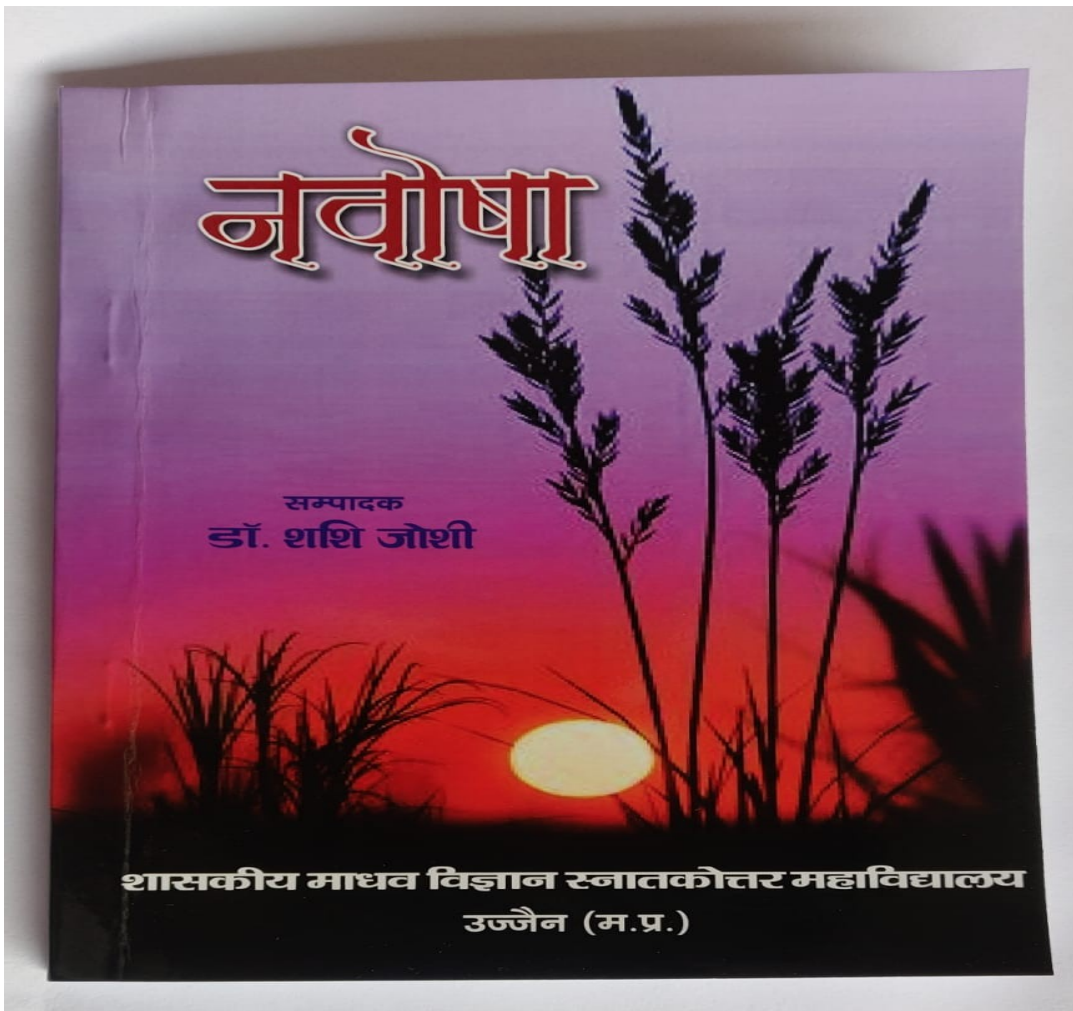
Govt madhav science college ujjain



Chemistry Department MVM



Instagram madhavscience2020





ज्ञानं परमं बलम्
GOVT. MADHAV SCIENCE COLLEGE, UJJAIN
A GRADE ACCREDITED THROUGH NAAC
DST-FIST SUPPORTED
AFFILIATED TO VIKRAM UNIVERSITY UJJAIN
IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN



PRIZE DISTRIBUTION TO THE WINNERS OF ESSAY, DRAWING AND LETTER WRITING COMPETITIONS CONDUCTED UNDER EBSB



कार्यालय, आयुक्त, उच्च शिक्षा, मध्यप्रदेश
सतपुड़ा भवन भोपाल-462004

क्रमांक 344/17-22/आउशि/शाखा-5 अ/2014
प्रति,

भोपाल, दिनांक 7/6/14

संचालक
उच्च शिक्षा उत्कृष्टता संस्थान,
भोपाल।

विषय: प्रदेश के चुनिन्दा कालेजों को राष्ट्रीय एवं अन्तरराष्ट्रीय ख्याति प्राप्त संस्थानों से साझेदारी करने हेतु, प्रदेश के चयनित 12 महाविद्यालयों की साझेदारी की कार्य योजना बनाने के संबंध में।

संदर्भ: मध्यप्रदेश शासन, उच्च शिक्षा विभाग मंत्रालय का पत्र क्रमांक एफ 23-10/2014/38-2, दिनांक 31.5.2014

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राज्य शासन ने संदर्भित पत्र के द्वारा प्रदेश के चुनिन्दा कालेजों को राष्ट्रीय/अन्तरराष्ट्रीय ख्याति प्राप्त संस्थानों से साझेदारी करने हेतु दिशा-निर्देश जारी किए हैं तथा नोडल अधिकारी के रूप में आपकी संस्था का चयन कर मूर्त रूप देने हेतु आगे कृत किया जाता है।

पत्र में अंकित बिन्दुओं का अध्ययन कर सुचारु संचालन की व्यवस्था करें तथा समय-समय पर प्रगति से राज्य शासन/अधोहस्ताक्षरकर्ता का अवगत कराने का कष्ट करें।

(डॉ. व्ही.एस. निरंजन)
वि.क.अ. सह आयुक्त
उच्च शिक्षा विभाग, मध्यप्रदेश

पृ.क्रमांक 345/17-22/आउशि/शाखा-5 अ/2014
प्रतिलिपि:

भोपाल, दिनांक 7/6/14

1. प्रमुख सचिव, म.प्र.शासन, उच्च शिक्षा विभाग, मंत्रालय, भोपाल।
2. कुलपति, लैडी अहिल्या विश्वविद्यालय, इन्दौर म.प्र.।
3. कुलसचिव समस्त विश्वविद्यालय, म.प्र.
4. विशेष सहायक, माननीय मंत्री/राज्य मंत्री, उच्च शिक्षा, मध्यप्रदेश।
5. समस्त क्षेत्रीय अतिरिक्त संचालक उच्च शिक्षा, म.प्र.।
6. प्राचार्य, समस्त शासकीय उत्कृष्टता महाविद्यालय यथा -
होल्कर विज्ञान महाविद्यालय, इन्दौर टी.आर.ए. महाविद्यालय रोवा, आदर्श विज्ञान महाविद्यालय, जबलपुर, कन्या महाविद्यालय, सागर, महाराजा महाविद्यालय, छतरपुर, जीजाबाई स्नातकोत्तर महाविद्यालय, इन्दौर, कमलाराजे कन्या महाविद्यालय, ग्वालियर, सरोजिनी नाथडू कन्या महाविद्यालय, भोपाल माधव विज्ञान महाविद्यालय, उज्जैन, नर्मदा महाविद्यालय, हांशंगाबाद एवं स्नातकोत्तर महाविद्यालय, शहडोल म.प्र.
.....के ओर आवश्यक कार्यवाही हेतु।

(डॉ. के.एम. जैन)
संयुक्त संचालक
उच्च शिक्षा विभाग, मध्यप्रदेश

17-52
31/5/14

मध्यप्रदेश शासन,
उच्च शिक्षा विभाग
मंत्रालय भोपाल-462004

मध्यप्रदेश शासन
उच्च शिक्षा विभाग
पत्र संख्या: 1350
दिनांक: 31/5/14

क्रमांक एफ 23-10/2014/38-2
प्रति,

भोपाल, दिनांक 31/5/14

आयुक्त,
उच्चशिक्षा, सूतपुड़ा भवन संचालनालय,
मध्यप्रदेश, भोपाल।

विषय: प्रदेश के चुनिन्दा कालेजों को राष्ट्रीय एवं अन्तरराष्ट्रीय ख्याति प्राप्त संस्थानों से साझेदारी करने हेतु प्रदेश के चयनित 12 महाविद्यालयों की साझेदारी की कार्य योजना बनाने के संबंध में।

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प्रदेश के महाविद्यालयों में वर्तमान समय की वैश्विक चुनौतियों के परिप्रेक्ष्य में गुणवत्ता आधारित अकादमीय व्यवस्था को संचालित करने के उद्देश्य से संस्थाओं के लिए पारस्परिक आदान-प्रदान करने की आवश्यकताओं को देखते हुए चयनित 12 महाविद्यालयों के साथ राष्ट्रीय एवं अंतरराष्ट्रीय ख्याति प्राप्त संस्थानों से साझेदारी का निर्णय लिया गया है। योजना का उद्देश्य प्रदेश के शिक्षकों और विद्यार्थियों के अनुभव का विस्तार करना और उन्हें बौद्धिक तथा सांस्कृतिक रूप से समृद्ध करना है जिससे प्रदेश की संस्थाएं लाभान्वित हों सकें और उच्चरतरीय संस्थाओं के साथ कार्य कर वैश्विक मानकों के सापेक्ष शैक्षणिक गुणवत्ता को बढ़ाया जा सके। राष्ट्रीयता की भावना की अभिवृद्धि, उसके सांस्कृतिक प्रसार और वैश्विक जीवन-मूल्यों के निर्माण तथा उत्कृष्ट नागरिकता की अभिव्यक्ति के लिए साझेदारी को कार्य-योजना निम्नवत बनायी जाती है -

2. उपर्युक्त उद्देश्यों की पूर्ति के लिए शासन द्वारा मध्य प्रदेश के शासकीय एवं अशासकीय स्वशासी महाविद्यालयों / उत्कृष्टता संस्थानों में से 12 निम्न संभावनाशील महाविद्यालयों / संस्थानों का चयन किया गया है-

क्र.	महाविद्यालय / संस्थान	स्थान	
1	उच्चशिक्षा उत्कृष्टता संस्थान,	भोपाल	नोडल केन्द्र
2	होल्कर विज्ञान महाविद्यालय,	इंदौर	
3	टी0आर0एस0 महाविद्यालय,	रीवा	
4	आदर्श विज्ञान महाविद्यालय	जबलपुर	
5	शासकीय कन्या महाविद्यालय	सागर	
6	महाराजा महाविद्यालय	छतरपुर	
7	जीजाबाई शासकीय स्नातकोत्तर महाविद्यालय	इन्दौर	
8	कमलाराजे कन्या महाविद्यालय	ग्वालियर	
9	शास0 सरोजिनी नायडू कन्या महाविद्यालय	भोपाल	
10	शास माध्य विज्ञान महाविद्यालय	उज्जैन	
11	शासकीय नर्मदा महाविद्यालय	होशंगाबाद	
12	शासकीय पी जी महाविद्यालय	शहडोल	

3. योजना के समग्र क्रियान्वयन के लिए भोपाल स्थित उच्चशिक्षा उत्कृष्टता संस्थान को उत्तरदायित्व सौंपते हुए नोडल संस्था के रूप में कार्य करने हेतु अधिष्कृत किया जाता है। संस्था के संचालक द्वारा इस कार्य को सम्पन्न करने के लिए पृथक् से प्रकोष्ठ गठित किया जाये जो सीधे संचालक की अध्यक्षता में कार्य करेगा। इस हेतु उच्चशिक्षा उत्कृष्टता संस्थान, भोपाल में संचालक की अध्यक्षता में किसी वरिष्ठ प्राध्यापक को सदस्य सचिव रखते हुए एक कार्यकारी समिति का गठन किया जाए जो योजना का विस्तृत क्रियान्वयन करने में महत्वपूर्ण भूमिका निभा सके।
4. उच्च शिक्षा उत्कृष्टता संस्थान समग्र उद्देश्यों की पूर्ति हेतु निम्नानुसार कार्य सम्पादित करेगा—
1. इस योजना के मूल उद्देश्यों से संस्थाओं को सुपरिचित कराने के लिये उच्चशिक्षा उत्कृष्टता संस्थान द्वारा कार्यशालाओं का आयोजन किया जाए। इसके लिए संचालक उच्च शिक्षा उत्कृष्टता संस्थान की अध्यक्षता में सत्र 2014-15 से दो-दो वर्ष के कार्यकाल के लिए एक त्रिसदस्यीय सलाहकार समिति का गठन किया जाए जिसमें चयनित महाविद्यालयों में से एकानुक्रम से तीन महाविद्यालयों के प्राचार्य सदस्य होंगे। आयुक्त उच्चशिक्षा का एक प्रतिनिधि समिति का नामांकित सदस्य होगा। उक्त समिति अपनी अवधि में प्रत्येक सेमेस्टर में एक बैठक करेगी और प्रत्येक सत्र के लिए लागू की जाने वाली योजनाओं के संबंध में कार्यकारी समिति को सुझाव देगी। समिति गठित करने की कार्यवाही उच्च शिक्षा उत्कृष्टता संस्थान के संचालक द्वारा की जायेगी जिसे अनुमोदन हेतु शासन को प्रस्तुत किया जायेगा। कार्यकारी समिति प्रत्येक बैठक का कार्यवाही विवरण संचालक उच्च शिक्षा उत्कृष्टता संस्थान के माध्यम से आयुक्त के समक्ष प्रस्तुत करेगी।
 2. उपर्युक्त उद्देश्यों की पूर्ति के लिए वित्तीय आवश्यकता होने पर उक्त आशय का प्रस्ताव शासन के समक्ष सलाहकार समिति के अभिमत से कार्यकारी समिति में व्यय के सम्पूर्ण विवरण सहित बजट प्रस्ताव के रूप में प्रस्तुत किया जायेगा। तत्पश्चात् प्रस्ताव के औचित्य के आधार पर शासन द्वारा बजट उपलब्ध कराने की कार्यवाही की जायेगी। सत्रान्त में सम्पूर्ण कार्यवाही का विवरण सेमेस्टरवार प्रतिवेदन के रूप में संस्थान द्वारा शासन को उपलब्ध कराया जायेगा।
 3. चयनित महाविद्यालय/संस्थाएं मानव संसाधन विकास मंत्रालय, आईसीसीआर और यूजीसी द्वारा प्रवर्तित एवं प्रचलित योजनाओं तथा नियमों को ध्यान में रखते हुए अपने यहां प्रचलित पाठ्यक्रमों में साझेदारी करने तथा विद्यार्थियों एवं शिक्षकों को एक दूसरे के यहां आदान-प्रदान करने के लिये विचार करेगी और राष्ट्रीय-अन्तरराष्ट्रीय स्तर पर चयनित शिक्षकों/विद्यार्थियों को उक्त उद्देश्यों की पूर्ति हेतु अवसर प्रदान करने की कार्यवाही करेगी।
 4. चयनित सभी संस्थाएं राष्ट्रस्तरीय संस्थाओं से पारस्परिक लाभ उठाने हेतु शिक्षकों को अपने यहां सत्र व्याख्यान के लिये आमंत्रित करेंगी एवं विद्यार्थियों एवं शिक्षकों के विकास के लिये प्रशिक्षण कार्यक्रम चलायेगी।
 5. चयनित संस्थाओं में शोध और अनुसंधान गतिविधियों को सतत संचालित करने के लिए उचित वातावरण बनाने हेतु कार्यशालाओं/संगोष्ठियों का आयोजन किया जाय तथा शिक्षकों को शोध परियोजनाएं लेने के लिये प्रोत्साहित किया जाए।
 6. चयनित सभी संस्थाएं स्वयं को शोध-केन्द्र के रूप में विकसित करें। यदि संस्थाएं शोध-केन्द्र के रूप में मान्य नहीं हैं तो वे विश्वविद्यालयों से संपर्क कर शोध केन्द्र के रूप में मान्यता प्राप्त करें, आवश्यकतानुसार शोध जर्नल प्रकाशित करें और अन्तर-अनुशासनिक और अन्तर-भाषिक प्रमाणपत्र, डिप्लोमा आदि पाठ्यक्रमों को संचालित करने पर भी विचार करें।

7. चयनित संस्थाएं परस्परिक संवाद और भागीदारी के लिये अपना एक समवाय (क्लस्टर) तैयार करेंगी जिससे एक दूसरे के अनुभव और दृष्टिकोण से लाभ उठा सकें। पाठ्यक्रम विकास, अध्ययन-अध्यापन की नई विधाएं, शिक्षकों के प्रशिक्षण और मूल्यांकन विधियों के लिए नवाचार करने की दिशा में भी ये संस्थाएं विचार करेंगी और अपना प्रस्ताव रखेंगी।

8. मध्य प्रदेश की ये संस्थाएं आवश्यकतानुसार राष्ट्रीय महत्व या केन्द्र सरकार द्वारा स्थापित संस्थाओं के साथ-साथ महत्वपूर्ण औद्योगिक इकाइयों/ प्रतिष्ठानों से भी अनुबंध करेंगी। इन इकाइयों से संपर्क कर अपने यहां मानव संसाधन विकसित करने के लिये रोजगारोन्मुखी पाठ्यक्रम संचालित करने पर विचार करेंगी।

9. संस्थाएं प्रारंभिक स्तर पर स्वयं की ओर से पहल करने के लिए पारस्परिक साझेदारी हेतु प्रथम चरण में इस योजना को राष्ट्रीय संस्थाओं से साझेदारी करने के लिये लागू करें। इसके पश्चात संस्थाओं के अनुभव के आधार पर डाटा बेस तैयार होने पर अन्तरराष्ट्रीय संस्थाओं से अनुबंध करने पर विचार करें तथा शिक्षकों/विद्यार्थियों का राष्ट्रीय-अन्तरराष्ट्रीय संस्थाओं में स्वयं के आधार पर चयन होने पर सांस्कृतिक आदान-प्रदान के परिप्रेक्ष्य में कार्यवाही की जाए जिससे संस्थाओं का गौरव बढ़े और संस्थाओं के राष्ट्रीय-अन्तरराष्ट्रीय संबंध/अनुबंध का मार्ग सुगम हो सके।

10. जिन राष्ट्रीय-अन्तरराष्ट्रीय संस्थाओं से ये महाविद्यालय/संस्थाएं संपर्क करना चाहती हैं, अनुबंध करने के पूर्व शासन को अनिवार्य रूप से अवगत करायें।


(सी.बी.पड़वार)

उपसचिव
म.प्र शासन, उच्च शिक्षा विभाग
मंत्रालय

पृ क्रमांक एफ 23-10/2014/38-2

भोपाल, दिनांक

प्रतिलिपि :

1. प्रमुख सचिव, म.प्र.शासन, उच्च शिक्षा विभाग, मंत्रालय, भोपाल।
2. कुलपति, देवी अहेल्या विश्वविद्यालय, इन्दौर म.प्र।
3. विशेष सहायक, माननीय मंत्री/राज्य मंत्री, उच्च शिक्षा, मध्यप्रदेश।
4. समस्त क्षेत्रीय अतिरिक्त संचालक, उच्च शिक्षा, म.प्र।
5. प्राचार्य, समस्त शासकीय उत्कृष्टता महाविद्यालय यथा -
होत्कर विज्ञान महाविद्यालय, इन्दौर, टी.आर.एस. महाविद्यालय रीवा, आदर्श विज्ञान महाविद्यालय, जबलपुर, कन्या महाविद्यालय, सागर, महाराजा महाविद्यालय, छतरपुर, जीजाबाई रनातकोत्तर महाविद्यालय, इन्दौर, कमलाराजे कन्या महाविद्यालय, ग्वालियर, सरोजिनी नायडू कन्या महाविद्यालय, भोपाल, शास.माधव विज्ञान महाविद्यालय, उज्जैन, शासकीय नर्मदा महाविद्यालय, होशंगाबाद एवं शासकीय पी जी महाविद्यालय शहडोल म.प्र।

.....को ओर आवश्यक कार्यवाही हेतु।

उपसचिव
म.प्र शासन, उच्च शिक्षा विभाग
मंत्रालय

OFFICE OF THE PRINCIPAL GOVT. MADHAV SCIENCE P.G. COLLEGE UJJAIN

DST-FIST COLLEGE
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To,
Director IEHE & Nodal Officer Cluster Scheme
Bhopal

Subject: Workshop under CLUSTER Scheme on 28/12/2019

With respect to the above mentioned subject, please find attached the name of participants as follows

Sr. No.	Name of Cluster In charge1	Name of In charge placement cell	Name of Professor	Name Students	Accommodation Required	Remark
1	Dr. Pradeep Begde	Dr. H.S.Dwivedi	Dr. Inder Singh Parmar	Jayant Singh M.Sc I Semester Rohit Yogi M.Sc I Semester	YES	

Thanking You

Dr. Arpan Bhardwaj
Principal
Govt. Madhav Science P.G.CollegeUjjainM.P.



ज्ञानं परमं बलम्

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IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN



INTERNATIONAL WEBINAR ON

Material Science (IWMS - 2020)

Date of Event: 9th June 2020





INTERNATIONAL WEBINAR

on
Material Science (IWMS-2020)

Organized by
ASSOCIATION OF CHEMISTRY TEACHERS (ACT)

C/o. Homi Bhabha Centre for Science Education (TIFR), Mumbai
In Collaboration with

Department of Chemistry, Madhav Science Post Graduate College, UJJAIN, India
and
Department of Chemistry, Kamla Nehru Mahavidyalaya, NAGPUR, India

Date : 9th June 2020, Time : 11.00 to 2.00 IST

Speakers

					
Prof. Pankaj M. Koinkar Tokushima University, Japan	Dr. Muhammed Shah Miran Professor, Department of Chemistry, University of Dhaka, Bangladesh	Prof. Rameshwar Adhikari Executive Director, RCAST Tribhuvan University, Kathmandu, Nepal	Prof. D. V. Prabhu General Secretary, ACT Mumbai Adjunct Professor, Dept. of Chemistry, Wilson College, Mumbai	Prof. Brijesh Pare Prof. & Head Department of Chemistry, Madhav Science Post Graduate College Ujjain, India	Dr. W. B. Gurnule Kamla Nehru Mahavidyalaya, Nagpur Convener, IWMS-2020 Secretary of ACT (West Zone)

Guidelines for Participation:

1. Link for Registration : <https://docs.google.com/forms/d/e/1FAIpQLSf3gYRX63e0UPV5S3XDk5QRBjDHLcXxjRhLZo2haMdqxo3tmQ/viewform?vc=0&c=0&w=1>
2. Last Date of Registration : 08/06/2020
3. Date of International Webinar : 09/06/2020 Timing : 11:00 IST
4. Free Registration for all participants.
5. E-Certificate of participation will be issued to only registered participants and after filling Feedback form.
6. Faculty Members/ Academician/ Research Scholars and Post graduate students working on Material Science can participate in this International Webinar.
7. Zoom ID and password will be provided one day advance.

Contact:

Prof. D. V. Prabhu General Secretary of ACT 9870226899	Prof. Brijesh Pare President of ACT, 9630578989	Dr. W. B. Gurnule Convener, IWMS-2020 9096672499
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✉ | brijeshpare2009@hotmail.com / wbgurnule@yahoo.co.in
 📌 | Link for Telegram Group : <https://t.me/Internationalwebinar>



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SCHEDULE

Date: 9th June 2020 (11:00 to 2:00p.mIST)

Inaugural Session

Master of Ceremony **Dr. Ketki Misar**

11.00 to 11.05 Hrs	Welcome of Guests and Participants
11:05 to 11.10 Hrs	Welcome-Speech by Convener (Dr. W. B. Gurnule)
11.10 to 11.15 Hrs	Address by Principal (Dr. Arpan Bhardwaj)
11:15 to 11:20 Hrs	Address by Principal (Dr. D. S. Badwaik)
11.20 to 11.35 Hrs	Address by (Prof. D. V. Prabhu)
11. 35 to 11.50 Hrs	Address by Chief Guest (Prof. A. K. Bakhshi)
11.50 to 12.00 Hrs	Address by Guest of Honor (Prof. N. B. Singh)
	Address by President (Prof. Brijesh Pare)
	Vote of Thanks by Dr. Kalpana Singh

Technical Session-I (12.00 a.m. to 1.00 p.m. IST)

Speaker-I	Prof. Pankaj M. Koinkar Tokushima University, Japan	Development of Ultrathin Two Dimensional Nanostructures by Laser Ablation in Liquid	12:00 to 12:30 Hrs
Speaker-II	Prof. Rameshwar Adhikari Tribhuvan University, Kathmandu, Nepal	Electron Microscopy in the Study of Biomedical Materials	12:30 to 1:00 Hrs.

Technical Session-II(1.00 p.m. to 2.00 p.m. IST)

Speaker-III	Prof. Brijesh Pare Govt. Madhav Science Post Graduate College, Ujjain, India	Man and Material Through History	1:00 to 1:30 Hrs.
Speaker-IV	Dr. Muhammed Shah Miran University of Dhaka, Bangladesh	Materials: Past, Present and Future	1:30 to 2:00 Hrs.



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REPORT

The Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur, Association of Chemistry Teachers (ACT), Mumbai and Department of Chemistry Madhav Science College, Ujjain organized an International Webinar on “**Material Science**” on 9th June 2020. Around 1870 delegates including Professors, Scientists, Industrialists, Faculty Members, Research Scholars and Students from all over the world actively registered in this mega event.

The Chief Guest of the Inaugural function, **Prof. A. K. Bakhshi**, VC, PDM University, Haryana, and Chairman of National Resource Centre of Chemistry of MHRD, Govt. of India inaugurated the programme and in his inaugural address, he mentioned “Experiments are important to endear students to Chemistry”. The Guest of honor **Prof. D. V. Prabhu**, General Secretary, ACT addressed the gathering on an important topic of Material Science. President of Inaugural programme **Dr. Brijesh Pare**, President of ACT addressed the gathering on this occasion.

Earlier, Dr. Wasudeo Gurnule, Convener of International webinar, welcomed the gathering and explained the theme of this international Webinar. International Webinar on “**Material Science**” and the goal of this webinar was to provide a platform for interaction between eminent professionals, researchers and scholars of different fields from both academia and industry under one roof to discuss and share the state of the art development of Material Science and enlighten the future potentials of this Materials.

This Webinar was Inaugurated by the **Prof. A. K. Bakshi**, Vice-Chancellor, PDM University, Haryana and Chairman of National Resource Centre of Chemistry of MHRD, **Prof. Brijesh Pare**, President of Association of Chemistry Teachers, Chairman of Inaugural function, Prof. D. V. Prabhu General Secretary of ACT Mumbai, **Prof. N. B. Singh**, Sharda University, Greater Noida, **Prof. Arpan Bhardwaj**, Principal of Madhav Science PG College, Ujjain, **Dr. Dilip Badwaik**, Principal of



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IN FRONT OF POLYTECHNIC COLLEGE DEWAS ROAD, UJJAIN



Kamla Nehru Mahavidyalaya, Nagpur and **Dr. Wasudeo Gurnule**, Convenor of Webinar was present on this occasion.

Prof. A. K. Bakshi gave information regarding importance of e-learning and online teachings to students and teachers. He said that now we are in fourth stage of Information age, even though we are much back to give e-learning to students. He said that instead of using our routine method we have to adopt new technology of learning and teaching. He gave one example of Dr. C. V. Raman. He was received Nobel prize in 1930. Now our population is 25 crore but still India do not have scientist like C. V. Raman. He further said that due to CORONA-19 lockdown in our country now we have started work from home concept and e-learning. In future, there may be Virtual University and they can give online education through ICT, NEAT etc.

This webinar was conducted under the guidance of **Dr, Suhasini Wanjari**, President of Amar Sewa Mandal and **Adv. Abhijit Wanjari**, Secretary of Amar Sewa Mandal. Vice Principal Dr, Ashok Kamble and Dr. Pradeep Dahikar were also present on the occasion.

Principal **Dr. Dilip Badwaik** gave introductory remarks of international webinar. During inaugural speech **Prof. Brijesh Pare** said that Webinar was much beneficial to the young researchers, PG students and faculty members working on material science. He said importance of different materials in daily life. **Prof. D. V. Prabhu**, General secretary of ACT Mumbai gave key note on **Chemistry a Rewarding Career**. Prof. N. B. Singh gave a talk on **Material in the Service of Mankind**.

Dr. Wasudeo Gurnule, Convenor of International Webinar extended his warm welcome to all the guest speakers and participants and explained the theme and objectives of organizing this webinar. For this webinar Eminent speakers were Prof. Pankaj Koinkar, Tokushima University, Japan gave a talk on '**Development of Ultrathin Two Dimensional Nanostructures by Laser Ablation in Liquid**', Prof. Rameshwar Adhikari, Tribhuvan University, Kathmandu, Nepal, gave a talk on '**Electron Microscopy in the Study of Biomedical Materials**', Prof. Mohammad Shah Miran,



सागं परां वराम्
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University of Dhaka, Bangladesh, gave a talk on '**Materials: Past, Present and Future**' and Prof. Brijesh Pare, Madhav Science PG College, Ujjain, gave a talk on '**Man and Material Through History**'.

Material Science is important for i) It can help to detect narcotics and finger prints of suspects in crimes. ii) The newer state of the art technology can make canonized robots and repair damaged tissues. iii) Nanodevices may target a drug into a single malignant cell iv) Nanobots may be made from carbon nanotube to carry out functions like human beings. v) Nanocoatings are transparent, scratch resistance & dirt repellent. Thus it is estimated that there will be no sector of industry which will be untouched by Material Science in the future.

The success of this conference is highly credited to Convener Dr. Wasudeo Gurnule, with immense support from the faculties, Staffs and students of Chemistry. The webinar was conducted by **Dr. Ketki Misar** while former vote of thanks proposed by **Dr. Kalpana Singh**, Professor, Department of Chemistry, Govt. Madhav Science College, Ujjain (M.P.)

Dr. W. B. Gurnule

Convener, IWMS-202

Secretary of ACT

Dr. Brijesh Pare

President, ACT

Zoom Meeting Link:

<https://us02web.zoom.us/j/86272859953?pwd=Q1QwTIVPZWRTZCtST09ia2J3R0pBdz09>

You Tube Live Streaming link: <https://www.youtube.com/watch?v=B46Vca42iml>



ज्ञानं परमं बलम्

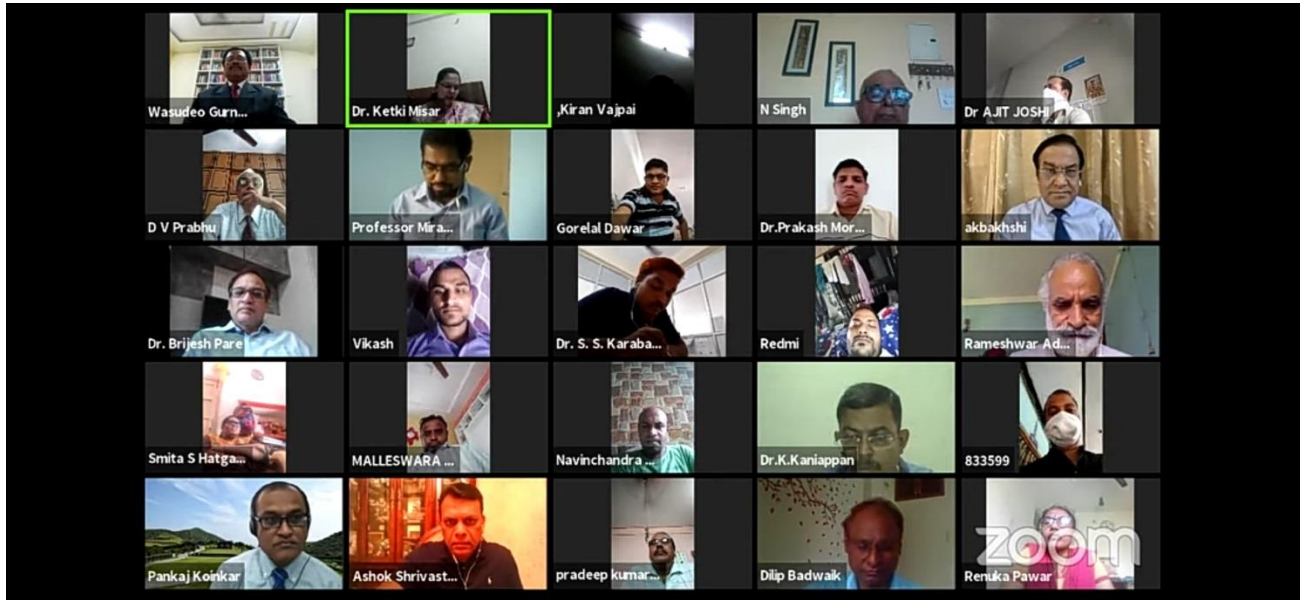
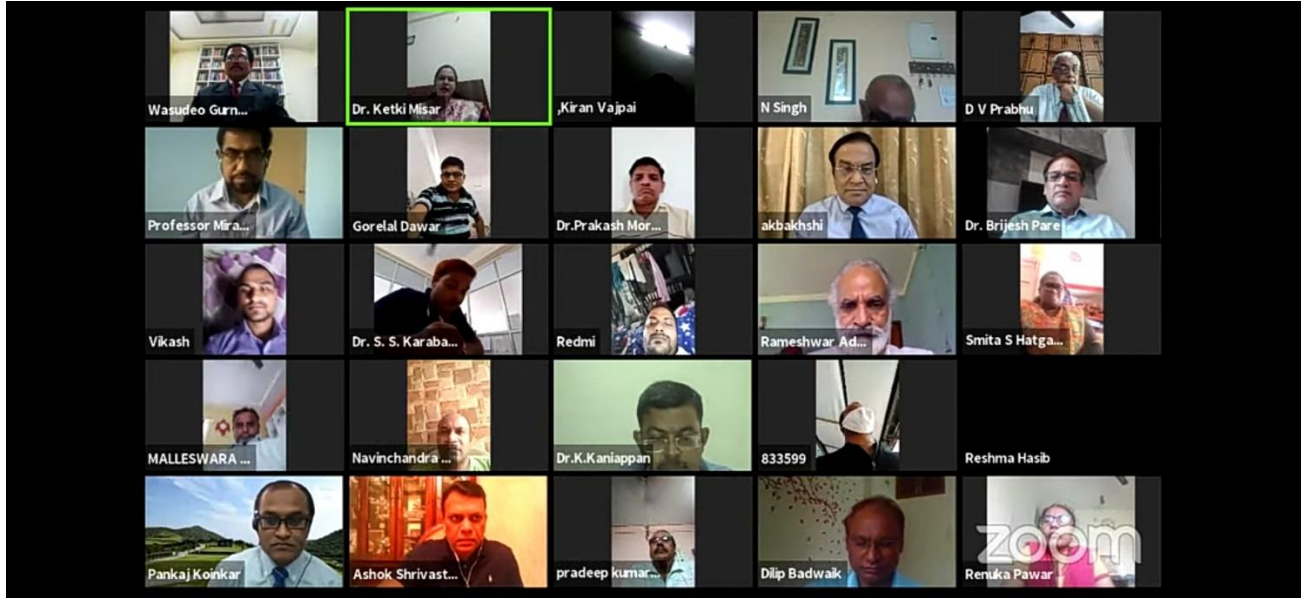
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List of participants from Govt. Madhav Science College Ujjain (M.P.)

List of Faculty Members

1. Dr. Arpan Bhardwaj
2. Dr. Brijesh Pare
3. Dr. Ajay Chaturvedi
4. Dr. Kalpana Singh
5. Dr. Manmeet Kour Makkad
6. Dr. Shakuntala Pandey
7. Smt. Pratibha Namdeo
8. Dr. Deependra Singh Raghuvanshi
9. Dr. Rekha Nagwanshi
10. Dr. Jeevan Singh Solanki

List of Students

S. No.	Enrolment No.	Name of Students	Class
1.	v15r166050635	Alkar Singh	M.Sc. Chemistry
2.	V14R398040004	AMIT MALVIYA	M.Sc. Chemistry
3.	V17R396050003	ANITA GAMAD	M.Sc. Chemistry
4.	v14r166250422	Antim	M.Sc. Chemistry
5.	v15r166050627	Arvind Rathore	M.Sc. Chemistry
6.	V15R166050666	Arvind Rathore	M.Sc. Chemistry
7.	V13R165150191	ASHOK SHARMA	M.Sc. Chemistry
8.	V14R166070003	Bhawana Goyal	M.Sc. Chemistry
9.	v15r166250166	Damodar Bansiya	M.Sc. Chemistry



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10.	V15R166050321	Dashrath Sharma	M.Sc. Chemistry
11.	v14r166180041	DIVYANSH SOLANKI	M.Sc. Chemistry
12.	V14R166250015	Durga Akela	M.Sc. Chemistry
13.	V15R166250037	Gopal Sharma	M.Sc. Chemistry
14.	V13R166350095	HARISH KUMAR JATWA	M.Sc. Chemistry
15.	V14R166110026	Harshita Rohllan	M.Sc. Chemistry
16.	V13R166020012	HARSHITA SHARMA	M.Sc. Chemistry
17.	V13R166250183	KRIPAL MALVIYA	M.Sc. Chemistry
18.	V15R166050359	Kuldeep Sharma	M.Sc. Chemistry
19.	V13R166050030	LOKENDRA SINGH DODIYA	M.Sc. Chemistry
20.	V14R166050021	Lokendra Singh Rajput	M.Sc. Chemistry
21.	V18R396050002	Mahendra Vishwakarma	M.Sc. Chemistry
22.	V15R166010020	Mamta Deshmukh	M.Sc. Chemistry
23.	v14r166250096	MANGU SINGH PARIHAR	M.Sc. Chemistry
24.	V15R166050409	Manisha	M.Sc. Chemistry
25.	v14r166250456	MANISHA KATARIYA	M.Sc. Chemistry
26.	v13r166350100	MANISHA NISHAD	M.Sc. Chemistry
27.	V14R166050048	Omprakash Parasiya	M.Sc. Chemistry
28.	v15r166250188	Pavan Gothen	M.Sc. Chemistry
29.	v15r166050623	Pooja Bodana	M.Sc. Chemistry
30.	V13R166220025	POOJA CHANDEL	M.Sc. Chemistry
31.	V18R396050015	Pooja Nandi	M.Sc. Chemistry
32.	V13R166350105	PRAGYA KHATRI	M.Sc. Chemistry
33.	V15R161310012	Preeti	M.Sc. Chemistry



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34.	V13R163040055	PREMLATA SHARMA	M.Sc. Chemistry
35.	V15R166050749	PRIYA MORYA	M.Sc. Chemistry
36.	V13R166100013	PRIYA PARMAR	M.Sc. Chemistry
37.	V15R161310015	Priya Patidar	M.Sc. Chemistry
38.	V13R166100018	PRIYANKA SAHU	M.Sc. Chemistry
39.	v15r166500011	Punam Rajoriya	M.Sc. Chemistry
40.	V14R166200095	PURVA JAIN	M.Sc. Chemistry
41.	V13R166050320	RAHUL RATHORE	M.Sc. Chemistry
42.	V18R396050001	Rajat Kumar Dubey	M.Sc. Chemistry
43.	V18R396050020	RAJENDRA CARPENTER	M.Sc. Chemistry
44.	V13R166460015	RAVI PANCHAL	M.Sc. Chemistry
45.	V14R166050462	Ritu Sharma	M.Sc. Chemistry
46.	v13r166050534	RUPALI TILWANKAR	M.Sc. Chemistry
47.	V11R166250455	SANGITA PORWAL	M.Sc. Chemistry
48.	V15R166010004	Shanu Tiwari	M.Sc. Chemistry
49.	V13R166050407	SHIVANGI VYAS	M.Sc. Chemistry
50.	v15r166050562	Shree Vallabh Bansiya	M.Sc. Chemistry
51.	V14R166050466	Sunil Kapadiya	M.Sc. Chemistry
52.	V13R166050040	SUPRIYA JAIN	M.Sc. Chemistry
53.	V12R166200004	SURBHI MALVIYA	M.Sc. Chemistry
54.	V17R396050009	TEENA RATHOD	M.Sc. Chemistry
55.	V15R166010013	Vaidehi Vyas	M.Sc. Chemistry
56.	v13r166200123	VARSHA BAIRAGI	M.Sc. Chemistry
57.	v15r164010500	Vijay Parasiya	M.Sc. Chemistry



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58.	V17R396050004	Vishal Chandravanshi	M.Sc. Chemistry
59.	V14R165150075	Yashwant Bairagi	M.Sc. Chemistry

OFFICE OF THE PRINCIPAL GOVT. MADHAV SCIENCE P.G. COLLEGE M.P.
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NATIONAL SCIENCE DAY CELEBRATIONS FEBRUARY 28TH 2020

SPONSORED BY: NATIONAL ACADEMY OF SCIENCE BHOPAL CHAPTER
SUPPORTED BY: JANABHAGIDARI SAMITI
INTERNAL QUALITY ASSURANCE CELL

SCIENCE EXHIBITION ON THE THEME OF
“PLANT HEALTH A DECISIVE FACTOR FOR HUMAN HEALTH”
AND
WOMEN IN SCIENCE

Govt. Madhav Science P.G.College Ujjain celebrated National Science day on 28/02/2020 different competitions were organized in the science exhibition 2020 based upon the themes. The inaugural session was presided over by the principal of the college Sh. Aslam Lala Chairperson Janabhagidari was the Chief Guest of the function and Dr. Sudha mall veteran plant biologist was the key note speaker. The inaugural welcome speech was given by the Head of the Department of Chemistry Dr. Brijesh Pare vote of thanks to the dignitaries was extended by the coordinator of the event Dr. Kalpana V. Singh

THEMES OF SCIENCE EXHIBITION

- “PLANT HEALTH A DECISIVE FACTOR FOR HUMAN HEALTH”
- WOMEN IN SCIENCE

Themes were selected as year 2020 is declared as International Year of plant health by FPO and women in science is the theme for National Science Day 2020. SARS COV 2 has also started to tap India. The Corona Virus outbreak is declared a Public Health Emergency of International Concern on 30 January 2020. On 11 February 2020, WHO announced a name for the new coronavirus disease: COVID-19, Students voluntarily included COVID 19 awareness in their schedule of Science Day. Total 228 students participated in this event. Following competitions were organized

- **POSTER COMPETITION ON THEMES (84 POSTERS PRESENTED)**

PLANT HEALTH A DECISIVE FACTOR FOR HUMAN HEALTH
WOMEN IN SCIENCE
COVID 19

- **DOCUMENTARY AND SHORT PRESENTATIONS COMPETITION ON THEMES (06 ENTRIES)**

PLANT HEALTH A DECISIVE FACTOR FOR HUMAN HEALTH (03entries)
WOMEN IN SCIENCE (02 entries SHEROES OF INDIA)
COVID 19 (01 entry)

➤ **STUDENT LECTURES ON THEMES (TOTAL 09 ENTRIES)**

PLANT HEALTH A DECISIVE FACTOR FOR HUMAN HEALTH
WOMEN IN SCIENCE
COVID 19

- EXPERT LECTURE BY DR. SUDHA MALL EMINENT PLANT BIOLOGIST AND RESEARCHER DOING HER ORGANIC FARMING TOO.

Certificates and Prizes were distributed to achievers in every segment.

Department of Bioinformatics and Department of Chemistry theoretically pledged to start an interdisciplinary project on anti-carcinogenic activities and properties of plants which should include in silico and in vitro studies on anti-carcinogenic properties of plants.

Dr. Kalpana V.Singh
Coordinator Event

Dr. Arpan Bhardwaj
Principal



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National Science Day

List of Participants

Sr. No.	Enrolment No.	Students	Class
1.	V17R166050062	Abhishek Soni	B.Sc. Micro Biology
2.	V17R166050641	Adil Khan	B.Sc. Biotech
3.	V17R166050053	Aditi Bhardwaj	B.Sc. Micro Biology
4.	V17R166050001	Alkesh Gurjar	B.Sc. Biotech
5.	V17R166050098	Anil Dangi	B.Sc. Biotech
6.	V17R166050735	Arbaz Khan	B.Sc. Biotech
7.	V17R166050096	Arun Prajapat	B.Sc. Bio info.
8.	V17R166050736	Asha Verma	B.Sc. Biotech
9.	V17R166050642	Balram Rawat	B.Sc. Biotech
10.	V17R166050341	Deepak	B.Sc. Biotech
11.	V17R166050634	Deepak Gandharve	B.Sc. Biotech
12.	V17R166050644	Dharmendra Rathore	B.Sc. Biotech
13.	V17R166050337	Gajraj Singh Chawda	B.Sc. Bio info.
14.	V17R166050342	Ganesh Rathor	B.Sc. Biotech
15.	V17R166050060	Gopal Singh	B.Sc. Micro Biology
16.	V17R166050334	Kamal Parmar	B.Sc. Bio info.
17.	V17R166050056	Kishan Mewada	B.Sc. Micro Biology
18.	V17R166050648	Kishan Rajput	B.Sc. Biotech
19.	V17R166050058	Ku Radha	B.Sc. Micro Biology

20.	V17R166050737	Lalita Choure	B.Sc. Biotech
21.	V17R166050652	Manglesh Sharma	B.Sc. Biotech
22.	V17R166050654	Mohammad Aashik	B.Sc. Biotech
23.	V17R166050097	Mohan	B.Sc. Biotech
24.	V17R166050339	Mohd Hafeez Khan	B.Sc. Bio info.
25.	V17R166050650	Mukesh	B.Sc. Biotech
26.	V17R166050649	Narayan Choudhary	B.Sc. Biotech
27.	V17R166050340	Pappu Singh	B.Sc. Biotech
28.	V17R166050651	Pawan Tewa	B.Sc. Biotech
29.	V17R166050055	Piyush Rathore	B.Sc. Micro Biology
30.	V17R166050637	Pradeep	B.Sc. Biotech
31.	V17R166050335	Rajesh	B.Sc. Bio info.
32.	V17R166050635	Rajpal Singh Bhati	B.Sc. Biotech
33.	V17R166050640	Rishikesh Yevle	B.Sc. Biotech
34.	V17R166050636	Ritika Yadav	B.Sc. Biotech
35.	V17R166050052	Rohit	B.Sc. Micro Biology
36.	V17R166050866	Sandeep Mandloi	B.Sc. Biotech
37.	V17R166050812	Satish Nagar	B.Sc. Biotech
38.	V17R166050645	Satyam	B.Sc. Biotech
39.	V17R166050336	Shahrukh Khan	B.Sc. Bio info.
40.	V17R166050054	Shailendra Sharma	B.Sc. Micro Biology
41.	V17R166050059	Sharda Gundiya	B.Sc. Micro Biology
42.	V17R166050638	Shisham Tadvi	B.Sc. Biotech
43.	V17R166050643	Shivnarayan	B.Sc. Biotech

44.	V17R166050632	Simran Kushwah	B.Sc. Biotech
45.	V17R166050061	Somya Mehar	B.Sc. Micro Biology
46.	V17R166050639	Subeta Meena	B.Sc. Biotech
47.	V17R166050655	Sushmita Chouhan	B.Sc. Biotech
48.	V17R166050095	Tushar Soniya	B.Sc. Bio info.
49.	V17R166050633	Vinod	B.Sc. Biotech
50.	V17R166050653	Vishal Malviya	B.Sc. Biotech
51.	V17R166050646	Vishal Rathore	B.Sc. Biotech
52.	V17R166050338	Ziyauddin Qureshi	B.Sc. Bio info.









National Online Quiz & Poster Competition



Chemistry in Managing Corona Virus & Chemistry against COVID 19

organizers

Madhav Science PG College UJJAIN and IPS Academy Indore

**Catalysed by Association of Chemistry Teachers (ACT)
c/o Homi Bhabha Centre for Science Education (TIFR) Mumbai**

**Dep't of Chemistry, Madhav Science PG College, UJJAIN and ISLE,
IPS Academy, Indore announces a national level Quiz competition
on "Chemistry in Managing Corona Virus" and Poster on
"Chemistry against COVID 19" for the students of post graduate
chemistry and early career faculty members.**

contd....

The Quiz will be held on 27th April at 5 pm and Soft copy of the posters need to be submitted online on or before 30 th April 2020.

No entry fee. Certificates will be given to winners and all the participating students and faculty.

Dr. Brijesh Pare
Prof & Head, Chemistry
President ACT

Mrs. Ruchi Shrivastava
Head, Chemistry

Prof Arpan Bhardwaj
Principal, Madhav Science
College, UJJAIN

Prof Premlata Gupta
Principal, IPS Academy

For any clarifications and queries, please contact to

Dr. Vijendra Singh

Mob: 8602567928

WhatsApp: 7879871528

Email: vijendrasingh0018@gmail.com

Email: brijeshpare2009@hotmail.com

Note: Quiz and Poster will be submitted on the above email or WhatsApp number



ASSOCIATION OF CHEMISTRY TEACHERS

National Online Quiz Competition

Chemistry in Managing Corona Virus

RULES:

1. Quiz will be conducted online, through email/whatsApp.
2. Quiz paper will have 25 multiple choice questions in pdf format.
3. Questions will be sent 5 minutes before commencement of the quiz.
4. Participants will have to answer like Que 1 – D, Que 2 – A, Que 3 – C etc on or before 5.15 pm by email or whatsApp.
5. Alternatively write answers on a blank paper like Que 1 – D, Que 2 – A, Que 3 – C etc , take a photo by mobile and send us on the given whatsApp number immediately.
6. No answer sheet will be entertained reaching after 5.15 pm.
7. Three winners will be adjudged from each category, M.Sc. Previous & Final and early career faculty members.
8. All participants, whose answers reach well in time will be given participation certificate.
9. Last date of entry will be 25th April by 5.00 pm.



National Online Poster Competition

Chemistry against COVID 19

RULES:



1. Poster should be based on the given theme.
2. Poster should be presented as E-Poster.
3. Poster should be visible and clear.
4. Size of the poster is 3×2.5 feet.
5. Poster should be designed by computer graphics or by hand on any paper.
6. Best 5 posters will be selected and 5 questions will be asked by coordinator to each participant then winner will be selected.
7. Three winners will be adjudged from each category, M.Sc. Previous & Final and early career faculty members.
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National Online Quiz & Poster Competition



Chemistry in Managing Corona Virus & Chemistry against COVID 19

organizers

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Principal, IPS Academy

For any clarifications and queries, please contact to
Dr. Vijendra Singh
Mob: 8602567928
WhatsApp: 7879871528
Email: vijendrasingh0018@gmail.com
Email: brijeshpare2009@hotmail.com

Note: Quiz and Poster will be submitted on the above email or WhatsApp number



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