



Shri Gujarati Samaj, Indore

# PMB Gujarati Science College

Accredited with grade 'A' by N.A.A.C.

## PERIHELION

Quarterly Newsletter -  
April-May-June 2022-

Issue-31-

Year-8-



G.B. Chairman  
Shri BharatBhai Bavisi



### From the Principal's Desk

The last quarter of every academic session has a double role, of conducting examinations as well as commencing the admission process for the forthcoming academic session. In the outgoing session 2021-22 the exams of B.Sc. II & III Year were conducted smoothly while the exams of PG even semesters and B.Sc. I Year are still running. The admission process for the new academic session 2022-23 has also been initiated and an admission committee is working in full swing.

Various staff members have continued with their academic activities and

achievements. Some of our faculty members were deputed as Master Trainers in Panchayat and IMC elections.

I would like to congratulate students who have performed well in the DAVV exams. I extend my good wishes to everyone for the forthcoming session so that we move ahead with allegiance and fervor to accomplish our vision as someone has said, "Push harder than yesterday if you want a different tomorrow."

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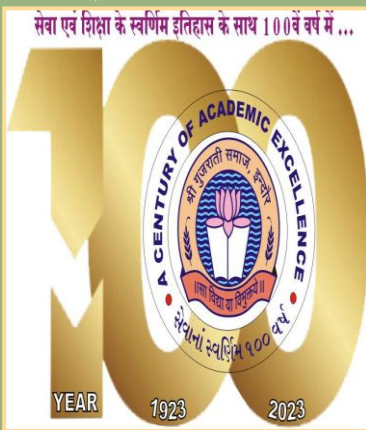
### News at a Glance

Dr. P.A. Kekre, Dr. Nandini Phanse, Prof. Mayur Mota, Dr. Vibhoj Parsai, Dr. Ketan Topiwala, Dr. Sudip Ray and Dr. Deepa Vanjani appointed as Master Trainers in the Local Bodies Elections.

Dr. K. Venkatraman is nominated by UGC as subject expert of Indian Knowledge System to frame syllabus of UGC NET and as the Chief Editor of Vidyarthi Vigyan Manthan (2021-22) by Vigyan Prashar (DST, Govt. of India).

डॉ. ज्योति सिंह ने भोपाल स्थित हिन्दी भवन में आयोजित 'महादेवी वर्मा स्मृति कवियित्री सम्मेलन' में नारी शक्ति इन्टरनेशनल अवार्ड प्राप्त किया ।

Dr. Deepa Vanjani presented a paper titled *Articulation of Community Identities through Songs, Stories and Motifs of Gujarat, Malwa, and Rajasthan and Inherent Environmental Practices in Them* in the 6<sup>th</sup> ESTIDIA Conference 'Dialogue Shared Experiences across Time and Space: Cross-linguistic and Cross-cultural Practices' at the University of Alicante, Spain (15-17 June 2022), which had 100 participants from 29 countries.



## Chemistry Department

### Departmental Activities:

- The department signed an MoU with Anusandhan Analytical & Biochemical Research Laboratory Pvt. Ltd., Indore in April 2022.
- A campus drive in coordination with “Your Global Mentors Expert of Overseas Education, Meritorium Consultancy Pvt. Ltd was held for B.Sc. III year, M.Sc. and pass-out students in the department on 30-04-2022. The program was conducted by Dr. Dhananjay Dwivedi, Convener College Career Guidance Cell.
- Dr. Arun Singh, Professor, M.L.B. Govt. Science College, Bhopal delivered an expert lecture on Applications of NMR Spectroscopy to M. Sc. Chemistry students on 15-06-2022.



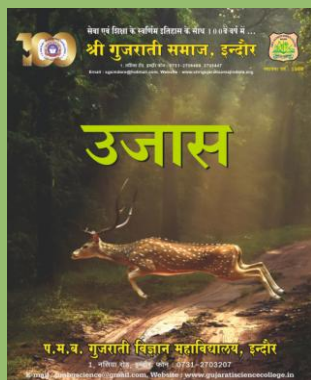
*Dr. Ketan Topiwala  
conducting the election  
training session*



*Chemistry department signed  
MoU with Anusandhan  
Research Lab. Pvt. Ltd.,  
Indore*



*Prof. Dr. Arun Singh  
delivering an expert lecture in  
Chemistry department*



### Research Activities:

- Ph.D. viva-voce of Mrs. Reena Paliwal was held in the department on 07-06-2022. Late Dr. M.L. Gangwal was her research supervisor.
- Ph.D. viva-voce of Smt. Supriya Chouhan held on 21-06-2022. Her research supervisor was Late Dr. A. K. Gharia.

### Faculty Enrichment:

- Dr. Ketan Topiwala and Dr. Dhananjay Dwivedi were invited to attend a National conference on Scientific Ethics and Advances in Chemical Sciences, SEACS-2022, on 28-04-2022, organized by School of Chemical Sciences, DAVV, Indore. They also judged the Poster Competition organized in the conference.
- Prof. Pragna Desai participated in an online Faculty Development Programme on ‘Emerging Paradigm in Forensic Science: A Multi-disciplinary Approach’ from 02-06-2022 to 04-06-2022, organized by Holkar Science College, Indore.
- Dr. Rishina Natu was appointed as Nodal Incharge of College Chalo Abhiyaan.
- Dr. Dhananjay Dwivedi was invited as Resource Person to deliver a lecture on Mossbauer Spectroscopy to PG students at SRJBN College, Sanawad on 18-06-2022.

## Physics Department

The department organized two expert lectures for PG students. The first lecture delivered by Dr. Mohd. Shakil (Medicaps University, Indore) on the topic “Quantum Dot” on 05-06-2022. In another lecture Dr. Uttam Sharma (SVVV University, Indore) talked about “Plasma Coating” on 17-06-2022.

### Dr. K. Venkatraman:

- Appointed as thematic expert for consultation on Madhya Pradesh Science, Technology and Innovative Policy (MP-STIP-2022), by MPCST.
- Invited as a resource person and committee member of Combined Selection Committee for the selection of students for National Initiative on Undergraduate Sciences, NIUS (Physics) 2022 and NIUS (Astronomy) 2022, conducted by Homi Bhabha Centre for Science Education (HBCSE), Tata Institute of Fundamental Research (TIFR), Mumbai (April 2022).
- Was the coordinator and expert during the national talent search examination of VVM. He attended the National Level Camp at IIT BHU, Varanasi (May 2022). The event was organized by Vigyan Bharati in association with Vigyan Prasara, Dept. of Science and Technology, Govt. of India, NCERT, Ministry of Education, Govt. of India.
- Published one research paper in May 2022.

Dr. Sanjay Shah published one research paper in *International Journal for Modern Trends in Science and Technology*.



## Botany Department

### Pre-Ph.D. Viva:

- Pre Ph D. Presentation of Mrs. Harsha Upadhyay was held on 5-4-2022 on the topic "Designing a tool and comparative data set analysis of Medicinal flora of M.P" under the supervision of Dr. J. Sikka.
- Pre Ph.D. Presentation of Mr. Suwalal Dawar was held on 8-7-2022 on the topic "Ethno-Agro biodiversity studies of Sorghum, Rice, Maize and Millet in tribal belt of Western M.P." under the supervision of Dr. Veena Satya.

### Research Activities :

- Dr. J. Sikka and Ms. Harsha Upadhyay published a research paper on "Trachyspermum ammi: Antimicrobial Activity and Biochemical Analysis against Pathogen Causing Gastrointestinal Disturbances." Vol.9, Issue 4, ISSN 2349-0659 in Asian Pacific Journal of Health Sciences.
- Dr S. Ray and Dr. Kamal Alawa published a research paper on "Medicinal Plants Used for the Treatment of Various Skin Diseases by Tribal of Dhar District and Adjacent Regions of Western M.P. ,India," Vol. 9 (3),538-544, May-June,2022 in International Journal of Scientific Research in Science and Technology.

### Staff Achievement :

- Dr. J. Sikka and Dr. Sudip Ray were the judges for Debate and Poster making competitions organized by Shri Vaishnav VidyaPeeth Vishavidyalaya, Indore on 22-04-2022.
- Dr. Sudip Ray appointed as Ph.D. Examiner to evaluate Ph.D. thesis of Mr. Amit Jagiya submitted to RTM Nagpur University, Nagpur.
- Dr. Sudip Ray and Mr. Dinesh Sharma authored a book for Environmental Sciences, ISBN No. 978-81-947440-9-2 published by Devi Ahilya Prakashan (Hindi Medium).
- Dr. Sudip Ray and Mr. Rajiv Sharma authored a Yashraj series for Environmental science (foundation course) for B.Sc. I Year (Hindi Medium).
- Dr. Sudip Ray participated in a 5 day Faculty Development Programme on "DNA Bar coding organized by MLAC, Bengaluru and MGGAC, Puducherry.
- Dr. S. Ray and Dr. Preeti Parashar authored a series of botany for B.Sc. I Year for paper I and II (English Medium) published by Yashraj Series.
- Dr. S. Ray and Dr. S. Shrivastava attended a seven day FDP on "Statistical Tools using SPSS". It is organized by Rama University and Foundation of India.
- Dr. Preeti Parashar Published a chapter in a book on the topic "Environment Conservation Challenges and Threats in conservation of Biodiversity, Vol. II, ISBN 978-98-94766-04-4 published by Science Publication.

### Awards :

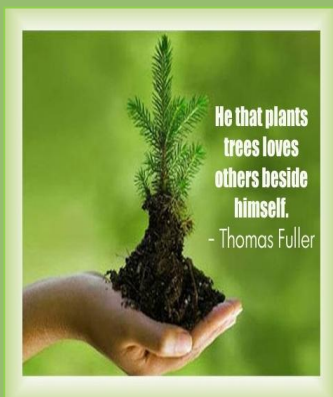
- Ms. Krishna Joshi, Lab. Technician of the department awarded with Prem Samman, Sahitya Maharathi Samman, Arogyadoot Samman, Yogbali Samman, Sahitya Sadhak Samman, Sahitya Gaurav Samman.
- Ms. Krishna Joshi was the co-author of book "Adbhut Pari Dharti" published by Rooh se Publication ISBN 938-93-90864-62-1. She also published articles in the books Hai mere Ram, Shreyanjali, VOICES: An Anthology published by ShabdShilp and Shanti Doot.



Pre-Ph.D. presentation of Mrs. Harsha Upadhyay



Sahitya Gaurav Award received by Ms. Krishna Joshi





## Hindi Department

देवी अहिल्या विश्वविद्यालय द्वारा अखिल भारतीय अन्तर विश्वविद्यालयीन पॉवर लिफ्टिंग पुरुष प्रतियोगिता सत्र 2021–2022 में दल प्रबन्धन के लिए दिनांक 16.04.2022 से 20.04.2022 तक जे.आर. एन. राजस्थान विश्वविद्यालय, उदयपूर डॉ. ज्योति सिंह को मैनेजर के रूप में नियुक्त किया गया।

14–15 अप्रैल को भोपाल स्थित हिन्दी भवन में आयोजित 'महादेवी वर्मा स्मृति कवियित्री सम्मेलन' में कार्यक्रम का संचालन किया।

'अंतर्राष्ट्रीय योग दिवस-2022 की और बढ़ते कदम' की कड़ी में सामान्य योग अभ्यास क्रम पर डॉ. अनिता शर्मा योग विशेषज्ञ द्वारा दिनांक 30.4.2022 को एक कार्यशाला प्राणीशास्त्र प्रयोगशाला में आयोजित की गई है। जिसमें महाविद्यालय की पूर्व छात्रा प्रार्थना दुबे ने बहुत सुन्दर योग प्रदर्शन किया। अंतर्राष्ट्रीय योग दिवस कार्यक्रम के अन्तर्गत योग व ध्यान पर विद्यार्थियों से आलेख एवं स्लोगन भी बनवाए गए। कार्यक्रम का संचालन एवं संयोजक डॉ. ज्योति सिंह ने किया। उन्होंने 14–15 मई 2022 को हिंदी न्यूज पोर्टल घमासान डॉट कॉम एवं वामा साहित्य मंच इन्दौर का संयुक्त आयोजन के कार्यक्रम में रचना पाठ पर सहभागिता निभाई।

28 मई गौरव दिवस मध्यप्रदेश शासन द्वारा प्रत्येक शहर में गौरव दिवस मनाया गया। अभूतपूर्व राज्य स्तरीय इस कार्यक्रम की कड़ी में शा.अहिल्या केन्द्रीय पुस्तकालय द्वारा एवं मातृभाषा उन्नयन संस्थान के सौजन्य से आयोजित साहित्य समागम में डॉ. ज्योति सिंह ने सक्रीय सहभागिता की।

22 जून से 15 दिवसीय योग शिविर श्री गुजराती समाज द्वारा प्रारम्भ किया गया। डॉ. ज्योति सिंह ने इस शिविर का संयोजन किया।

## Zoology Department

The department conducted Ph.D. viva-voce of the following candidates :

1. Mohd. Amjid Parry on topic "Effect of mercuric chloride on liver and kidney of *Heteropneustus fossilis*" supervised by Dr. Rajesh Dixit on 17-05-2022.
2. Baba Tabassum on topic "Pathological effects of helminthes parasites on skin & gills of some cat fishes" supervised by Dr. Rajesh Dixit on 03-06-2022.
3. Sameer Ahmad Ganaie on topic "Studies on the identification and classification of pathogens causing diseases in selected fresh water fishes under the supervision of Dr. G.D. Sharma on 20-06-2022.

Dr. G.D. Sharma participated in Ralamandal Hill Run organized by Indore Superchargers Health Welfare Society & successfully completed 8.2 km run in 1.08 hrs. on 01-05-2022. He honoured with a medal after the completion. Dr. Sharma also participated in Indore Gourav Run organized by Academy of Indore Marathons to celebrate Azadi ke 75 years and completed 10 km successfully in 1.05 hrs. on 29-05-2022.

Dr. Raksha Modi published a research paper on "Study of Effect of Heavy Metals  $\text{CuSO}_4$  &  $\text{ZnSO}_4$  on GSI of Fresh Water Teleost through HPG Axis" in April 2022. She also published a research paper on the topic "Study of Effect of Heavy Metal Pollutants on Testis of *Anabas Testudineus* through HPG axis" in May 2022. Both the papers are published in International Journal of Emerging Technologies and Innovative Research, ISSN: 2349-5162, Volume-9.

Dr. Shitika Barkale published her research paper on "Study of physico-chemical parameters to assess the water quality of Bilawali Talab, Indore city (M.P.)" in International Journal of Creative Research Thoughts, ISSN: 2320-2882, Volume-10 in May 2022.



साहित्य समागम में डॉ. ज्योति सिंह की सहभागिता



डॉ. ज्योति सिंह द्वारा महादेवी वर्मा स्मृति कवियित्री सम्मेलन में कार्यक्रम का संचालन



Ph. D. Viva voce of Sameer Ahmad Ganaie



Dr. G. D. Sharma after completing the Marathon

## Microbiology Department

To explore career opportunities and enhance subject knowledge of students, a webinar on “Understanding of current trends in Microbiology and a bright career in food industry” was organized on 23-05-22. Dr. Kamlesh Patel, Live path Diagnostic Laboratory and Mr. Amey Jadhav, Factory Manager, Sirius Foods were expert speakers of the webinar.

### Dr. Nandini Phanse:

- Appointed as an expert during the national talent search examination of Vidyarthi Vigyan Manthan. She attended the National Level Camp at IIT BHU. The event was organized by Vigyan Prasar, (DST, GoI), NCERT, Vigyan Bharti.
- Invited to attend a conference on Indian Calendar System organized at Ujjain (22-23 April 2022).
- Appointed as Convener of college prospectus committee.

Dr. Nandini Phanse and Ms. Vartika Mishra published a research paper in May 2022.

Dr. Mahima Golani published book series for B.Sc. I year (Microbiology) Paper I & II & B. Sc. I year (Biotechnology) Paper I & II. Ms. Kiran Paliwal published research paper in June 2022.

Ms. Vartika Mishra stood second in University in M.Sc. Zoology Sem. I exam. She published Microbiology book series with Dr. Mahima Golani for B.Sc. I year. She conducted programme of ‘Shabdshilp : Azadi ka Amrit Mahotsav’ and published an article in-“Voices : An Anthology of Thoughts-Vision and Dreams”. She was a member of conceptualizing team of “Jay Gatha” video.

Ms. Shraddha Dehure contributed as committee member in the release of the annual college e-magazine ‘Ujaas’ on 02-06-2022.

Ms. Darshna Dusane qualified DAVV DET in April 2022.

## English Department

The activities under various heads for the period April-June 2022, were as follows:

### 1. Examination Work:

- Practical exam of B.Sc. I Year students for the vocational subject Personality Development was conducted on 24-06-2022 in which Ms. Kusum Joshi was the internal examiner.
- Dr. Deepa Vanjani was helper and AS in B.Sc. II and III year exams.
- Ms. Kusum Joshi was invigilator in M.Sc. IV & II semester examination.

2. **College Activities:** Dr. Vanjani and Ms. Joshi contributed as committee members in the release of the annual college e-magazine ‘Ujaas’.

3. **Extension activity:** Under the aegis of Amrit Mahotsav the literature group ShabdShilp founded by Dr. Deepa Vanjani in 2010, published an anthology titled VOICES based on the theme “My Country My Dream”. The anthology was released by MP Shri Shankar Lalwani ji on 16-10-2022 at EMRC, DAVV Indore.



Ms. Vartika Mishra Conducting the programme of Book Release



Release of Anthology VOICES by Shri Shankar Lalwani



Welcome of Dr. Vanjani before presentation



Release of College Annual e-Magazine ‘Ujaas’

## Magazine Release



Participants of Yoga Camp  
with certificates

**Patron:**  
Shri Bharat Bhai Bavisi  
[Chairman]

**Chief Editor:**  
Dr. Kiran Dixit [Principal]

**Convener:**  
Dr. G. D. Sharma

**Co-Convener:**  
Ms. Kusum Joshi

Our college annual e-magazine 'Ujaas' has been released on 02-06-2022. Shri Amit Bhai Dave, Chairman Education Board College (Nasia and Maharani Road) was the Chief Guest and Shri Akhil Hardiya was the Special Guest of the programme. Vice President of Shri Gujarati Samaj Indore, Shri Govind Bhai Patel presided over the programme. Chairman Governing Body, Shri Bharat Bhai Bavisi, Principal, Dr. Kiran Dixit and Administrative Officer, Dr. Rashmikant Sanghvi were also present on the occasion. The programme was conducted by Dr. Rishina Natu.

## योग एवं ध्यान प्रशिक्षण शिविर

महाविद्यालय द्वारा 15 दिवसीय योग एवं ध्यान प्रशिक्षण शिविर दिनांक 22 जून 2022 से 09 जुलाई 2022 तक आयोजित किया गया। इस प्रशिक्षण शिविर का समापन समारोह प्राचार्य डॉ. किरण दीक्षित, प्रशासनिक अधिकारी डॉ. रश्मिकांत संघवी, योगगुरु श्रीमती अनिता शर्मा एवं वरिष्ठ क्रीड़ा अधिकारी श्री किशन ओझा सर के आतिथ्य में सम्पन्न हुआ। इस मौके पर योगगुरु श्रीमती अनिता शर्मा को सम्मानित किया गया तथा योग प्रशिक्षणार्थियों को भी प्रमाण पत्र प्रदान किये गए। इस अवसर पर प्रशिक्षणार्थियों द्वारा विभिन्न योगासनों की सुंदर प्रस्तुति दी गई। छात्र प्रसाद नेवे ने इस 15 दिवसीय शिविर का अनुभव साझा किया। डॉ. ज्योति सिंह एवं डॉ. सत्येंद्र शर्मा शिविर के संयोजक थे।

## Student's Achievement

Dr. Zaffar Iqbal Bhat, our alumnus and Ph. D. student of Dr. G.D. Sharma got the prestigious "Post Doctoral Scholarship" from China.

From:

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To,

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Indore.