



Shri Jayendra Bhai Patel
G.B. Chairman

The academic year is now its last trimester. This is the time of examinations as both theory and practical exams go on in full swing during this period. My good wishes to all the students. Work hard and study well to achieve good results. The college is also an examination centre. We have conducted exams smoothly and I believe this tradition will continue in future. I would want the departments and faculty members will continue with the activities in their departments and academic upgradation in the next session. Students should be encouraged to engage in research related activities. For achieving the goal of viksitbharat@2047, students should be channelised towards the right values and our Indian Knowledge System.



Shri Gujarati Samaj, Indore

PMB Gujarati Science College

Accredited with grade 'A' by N.A.A.C. in second cycle

PERIHELION

Quarterly Newsletter -
Apr-May-Jun 2024
Issue-37
Session-2023-24



From the Principal's Desk

The College conducted theory and practical examinations of UG and PG classes smoothly, and in a well-managed manner. The admission process started, with the committees responsible for admissions, both online and offline, working enthusiastically after the summer break. The B.Sc. 1st Year and M.Sc. exams are scheduled to begin in July, which will involve the staff in examination duties. Some fruitful departmental activities were also organised by departments. Staff members were engaged in publishing

research papers and in paper presentations. Some faculty members cleared exams and registered for their Ph.D.

This is also the time to introspect and work on the shortcomings of the previous academic session which is now coming to an end, so that we can begin the new session with more vigour. The College has adopted and implemented the NEP pattern and in the coming academic year we should aim to strengthen it so that it can become a tool to fulfil the dream of ViksitBharat@2047.

News at a Glance

Dr. Pravin Kekre, Dr. Nandini Phanse, Prof. Mayur Mota, Dr. Vibhoj Parsai, Dr. Ketan Topiwala, Dr. Sudip Ray, and Dr. Deepa Vanjani were Master Trainers in Lok Sabha 2024 elections. Dr. Kekre and Prof. Mota were also trainers in counting duty.

Dr. K. Venkatraman, Dr. Nandini Phanse, Dr. Deepa Vanjani and Dr. Shilpa Parikh authored the book *Shanti Swarup Bhatnagar: A Gifted Genius*. The book, published by Vijnana Bharati, was released on 23 June 2024 at MIT ADT University, Pune.

Dr. Mahima Golani appointed as Ph.D. Supervisor in Life Science at School of Life Sciences, UTD, DAVV, Indore on 5th June 2024.

Dr. Dhananjay Dwivedi published a research paper on "Estimation of soil organic carbon of the agricultural soil of Sendhwa city in the South-Eastern zone of Barwani district of Madhya Pradesh" in International Journal of Scientific and Development Research (IJS DR), Peer Reviewed and Refereed Journal, Impact factor 8.15, Volume 9 Issue 4 April-2024, Pg. 983-987, ISSN : 2455-2631.

Dr. Krishna Joshi Lab Assistant in Botany Department was awarded International Yoga Award 2024 by Hamara Pyara Hindustan Sahitya Sansthan.



P.G. Department of Chemistry

Departmental Activities:

On 15-06-2024, Department of Chemistry and Career Guidance Cell organized placement interview for undergraduate students in ICICI Bank. M. Sc. Chemistry I and III Semester results were declared in May 2024. Ms. Priyanka Singh stood first in M. Sc. III Semester with 73.66% and Ms. Anuradha Singh Choudhary stood first in M. Sc. I Semester with 69.16%.

Participation of Staff in Academic Activities:

Dr. Ketan Topiwala was invited to Acropolis Institute of Technology and Research, Indore on 06-04-2024 to deliver a motivational lecture to the UG students and promote the spirit of scientific education among them.

Dr. Ketan Topiwala was appointed as Observer by RGPV, Indore for even semester classes at Parijat College of Pharmacy, Indore, in June-2024.

Dr. Dhananjay Dwivedi was invited as resource person to deliver lecture on "Career Opportunities in Chemistry for Students" in a workshop organized by Govt. College Mandleshwar on 24-04-2024.

Department of Computer Science & IT

All the practical exams were conducted successfully during April-June 2024. Results of B.Sc. III Year Computer Science & Information Technology students were 90 % and 100 % respectively.

Prof. Brajesh Vijaypuriya appointed as a Board Member of Skill Development Committee in Holkar Science College, Indore.

Prof. Sanjay Sharma was appointed as Convener, Admission Committee for session 2024-25. Prof. Brajesh Vijaypuriya has been appointed as Convener of Online Admission Committee.

The department made available one computer and printer for use in the Lok Sabha Elections 2024.

Stock checking was conducted successfully under the supervision of Prof. Govind Kaithwas.

Department of Electronics & BCA

The department organized many expert lectures for enhancing knowledge of students, develop their skills and to create among them awareness regarding. The details are as follows:

- Dr. Pradeep Purey from Maharaja Ranjit Singh College & Dr. Nitin Uikey, School of Computer Science, DAVV, topic "Applications of Arduino "Effective Creative E-R Diagram from Live Case Study "for II year "on 12 April 2024 and 13 April 2024 respectively.
- Dr. Ajay Jain, from Cloth Market Girls College, topic "Application of Digital Marketing" on 25 May 2024 for I year students.
- Dr. Manish Pundalik, topic "Industrial Application of Electronic Devices" 08 June 2024 for I year students.

Prof. Vaishali Bhale has been appointed as member of Online Admission Committee.



Dr. Ketan Topiwala giving lecture at Acropolis Institute



Interview Session held on 15-06-2024



Guest lecture by Dr. Pradeep Purey, Maharaja Ranjeet Singh College



P.G. Department of Physics



Book release of Dr. Shanti Swarup Bhatnagar at MIT ADT, Pune in presence of ISRO Chairman

Dr. Pravin Kekre and Prof. Mayur Mota were appointed as Master Trainers, while Dr. Rashmi Sanghvi and Dr. Sanjay Shah were appointed as Level 1 officers for distribution and collection of polling material from Nehru Stadium in the Lok Sabha elections 2024.

Dr. K. Venkatraman was actively involved in various activities of VIDYARTHI VIGYAN MANTHAN (VVM) as a Member of its Core Committee. He also authored the book Shanti Swarup Bhatnagar: A Gifted Genius which has been published by Vijnana Bharati and was released at MIT ADT University, Pune on 23 May 2024. The book has also been translated into Hindi and Marathi languages.

VVM is an initiative of Vijnana Bharati (VIBHA), in collaboration with National Council of Educational Research and Training (NCERT), an institution under the Ministry of Education, Government of India and National Council of Science Museums (NCSM), an autonomous organisation under the Ministry of Culture, Government of India. VVM is a national program for popularizing science among school students of standard VI to XI under Vigyan Bharti.

P.G. Department of Microbiology

Dr. Mahima Golani published a research paper in Brazilian Journal of Science, titled "Purification and characterization of lipase from a new strain *Staphylococcus argents* MG 2 CMTCC 12820", May 2024, Vol. 3 no. 5 page no. 1 - 18. ISSN: 2764 - 3417.

Dr. Mahima Golani published a research paper in JMBES (Journal of Microbiology, Biotechnology & Food Sciences) titled "Evaluation of novel immobilized lipase from *Staphylococcus argents* MG2 & its application as detergent additive" June 2024, Vol. 13 (6), page no.1 - 5. ISSN 1338 - 5178.

Dr. Mahima Golani appointed as Ph.D. Supervisor in Life Science at School of Life Sciences, UTD, DAVV, Indore on 5th June 2024.

Ms. Shraddha Dehure, Ms Darshana Dusane & Ms Divya Parnaik attended the "International Symposium on Environmental Governance for Suitable Future ISEGFSF - 2024" jointly organized by DAVV Indore & I-Shou university, Kaqushing Taiwan on 18th June 2024.

Ms. Shraddha Dehure qualified DAVV Ph.D. DET 2023.

Ms. Darshana Dusane was registered as Ph.D. scholar in DAVV University, under the guidance of Dr. Nandini Phanse.

NCC Air Wing

Four cadets from the college were selected in the Air Force Attachment Camp, Gwalior from 19 May- 31 May four cadets. The cadets are as follows:

Cdt. Sumit Singh Rajput, Cdt. Tanmay Mishra, Cdt. Akash Ahirwal , Cdt. Vansh Thakur



Air Wing cadets at the camp in Gwalior



Department of English

The last leg of the academic session 2023-24 was the time for examinations, publications and election duty.

Examination Related Work:

- UG Practical Exams:** Personality Development (Voc.) and Communicative English (Open Elective) practical exams of B.Sc. I, II and III years were conducted by the department.
- Exam Duty:** Mrs. Kusum Joshi was invigilator in B.Sc. I and II year exams. She is also member of the admission committee.
- Paper Setting:** Dr. Vanjani and Mrs. Joshi were paper setters for DAVV, Kasturbagram Rural Institute, Indore and Mata Jijabai PG Girls Autonomous College, Indore.
- External Examiner:** Dr. Vanjani was external examiner in BA II year English Literature practical exam at Kasturbagram Rural Institute, Indore on 8/04/2024.

Research Paper Publication:

A research paper of Dr. Deepa Vanjani and Dr. Rashmi Sahi titled *Graphical Representation of Otherness, Subversion and the Subaltern in Presepolis* was published in the Interdisciplinary Research Journal for Humanities [a Peer Reviewed Journal], ISSN 2249-250x, vol. -14, No. 1, St. Xavier's College, Palayamkottai, Tamil Nadu.

Research Supervisor:

Sajad Ahmad Mir, research scholar of Dr. Vanjani was awarded his Ph.D. in June 2024.

Extension Activity: Literature Club of Dr. Vanjani, *Shabd Shilp*, organised an online session on the Art and Craft of Tagore and

NCC Infantry Wing

The unit is 9 M.P. Bn. NCC, Indore gave training to cadets under the guidance of Lt. Brajesh Vijaypuriya, Associate NCC Officer. The rank holders are SUO Adarsh Shrivansh, UO Mansi Dhangar, UO Aditya Raj Singh Sisodiya, SGT Deepak Choudhary, SGT Manish Birla, CPL Hridyansh Chaudhary, CPL Smriti Hardia, LCPL Nitin Parjapati, LCPL Palak Kachawa.

Cadets organized and participated in different extension activities like International Day of Yoga, Kargil Vijay Diwas, Puneet Sagar Abhiyan, Traffic Awareness Rally, NCB drug trafficking and abuse Rally, Blood Donation Camp on Martyr's Day and Trekking activity at Ralamandal Wildlife Sanctuary in Indore.

Achievement of PMB Gujarati Science College NCC Cadets are as follows: UO Rohit Dawar (Republic Day Camp), SUO Adarsh Shrivansh (Republic Day Camp), UO Aditya Raj Singh Sisodiya (Rock Climbing Camp), CPL Smriti Hardia (Army Attachment Camp), LCPL Palak Kachawa (Army Attachment Camp), CDT Dheeraj Yadav (Trekking Camp Balaghat).

"I am not afraid
of storms, for I am
learning how to sail
my ship."
-Little Women by Louisa May Alcott



Registration of the College Alumni Association



Activities of NCC Infantry Wing



Department of Hindi

ग्रीष्मकालीन अवधि में विभाग में कुछ गतिविधियाँ सम्पन्न हुईं। दिनांक 17.6.2024 को महाविद्यालय की एन.सी.सी यूनिट एवं एयर विंग इकाइयों के कैडेट्स हेतु नारी सशक्तिकरण विषय पर एक कार्यक्रम आयोजित किया गया, जिसमें उपयुक्त विषय पर डॉ. ज्योति सिंह ने कैडेट्स से संवाद किया। विभाग की सहा.प्रध्यापक ज्योति फडके ने दिनांक 18.6.2024 को देवी अहिल्या विश्वविद्यालय द्वारा आयोजित अन्तराष्ट्रीय संगोष्ठी में अपनी सहभागिता निभाई।

AISECT Learn द्वारा रवीन्द्र नाथ टैगोर विश्वविद्यालय मानविकी एवं उदार संयोजक कला संकाय, प्रवासी भारतीय साहित्य एवं संस्कृति शोध केन्द्र द्वारा संचालित लघु कथा एवं लेखन कौशल (त्रैमासिक पाठ्यक्रम दिनांक 4.3.2024 से 30.5.224) को डॉ. ज्योति सिंह ने पूरा किया।

दिनांक 26.6.2024 को भारतीय ज्ञान परम्परा के विविध सन्दर्भ विषय पर अटल बिहारी वाजपेयी शासकीय कला एवं वाणिज्य महाविद्यालय द्वारा आयोजित राष्ट्रीय वेबीनार में डॉ. ज्योति सिंह ने अपनी सहभागिता निभाई।

कनकेश्वरी देवी शा.महाविद्यालय इन्दौर द्वारा दिनांक 28.6.2024 को एक दिवसीय राष्ट्रीय वेबीनार शिक्षा में प्रौद्योगिकी का महत्व एवं संभावनाएँ में डॉ. ज्योति सिंह ने अपनी सहभागिता निभाई।

P.G. Department of Zoology

As per guidelines received from department of Higher Education, following activities were conducted under the guidance of Dr. Vibha Dave to increase the voter percentage during the Lok Sabha elections 2024:

- 'Matadata Pati' (google form) filled by students on 20.04.2024.
- Lecture on voter awareness delivered by college employees in slums in the vicinity on 24.04.2024.
- Signature campaign for voter awareness was conducted on 26.04.2024 from 12.00 pm onwards. The college gate and the crossings on either side of the college were covered for the campaign. Students walked in a procession for voter awareness.

Dr. G.D. Sharma successfully completed following marathons:

1. 10 km. Ahimsa Run in 1 Hrs. Bib No 10028 on 7/04/ 2024
2. 10 km. run for Vote Marathon in 01.05 Hrs. Bib No. 5317 on 05/05/2024
3. 12 km. Ralamandal Hill Run completed in 2Hrs. Bib No. 1090 On 19/05/2024.
4. 10 km Indore Ki Daud Paryavaran Ki Or completed in 1.05 Hrs. Bib No. 1149 on 30/06/24 on the occasion of C.A. Foundation Day organized by the Institute of Chartered Accountants Indore Branch.
5. 10 km. Jay Mahesh Marathon completed in 01.10 Hrs. on 16/06/ 2024 under 'Swachh Jal Campaign'.
6. Dr. G.D. Sharma planted 38 saplings on Bijasan Tekri to celebrate Clean

Indore Green Indore drive being led in the state by the Chief Minister Dr. Mohan Yadav.



डॉ. ज्योति सिंह प्रवासी भारतीय साहित्य संस्कृति शोध केन्द्र के तत्वावधान में प्रथम दीक्षांत समारोह में प्रशस्ति पत्र प्राप्त करते हुये।



डॉ. ज्योति सिंह एन.सी.सी एवं एयर विंग इकाइयों के कैडेट्स को संबोधित करते हुये।



Dr.G.D. Sharma:
Marathon Completion
and its Certificate



Matdata Jagrukta Oath
Taking Being Conducted





Mobile Food Testing Laboratory



MBSI Best student Award to Ms. Lekhika Karpe

Patron:
Shri Jayendra Bhai Patel
[Chairman, GB]

Chief Editor:
Dr. Kiran Dixit [Principal]

Convener:
Dr. Deepa Vanjani

Co-Convener:
Prof. Vaishali Bhale

P.G. Department of Biotechnology

An Awareness program and workshop on “Food safety and Adulteration” was organized by the Department, in collaboration with FSSAI, on 8th April. The workshop was conducted by Food Safety Officer (FSO) Mr. Agrawal, from FSSAI. He gave valuable insights on food adulteration and explained how to test food for adulteration. He explained the benefits of eating millets and the concept of “आज से थोड़ा कम”. He was accompanied by a chemist, Mr. Sharma, who demonstrated checking adulteration in food by certain chemical reactions. MFTL, a Mobile Food Testing Laboratory was introduced to the students. The workshop was very beneficial as the students got to know about mobile food testing van and FSSAI.

P.G. Department of Botany

On the occasion of World Environment Day, the department organised guest lecture on 6th June 2024. Dr. Uday Chitnis Professor of Botany Holkar Science College, Indore was the guest speaker and delivered lecture on topic “Ecosystem restoration”. All the faculties of the department and more than 90 students attended the program.

Dr. S. Ray evaluated the Ph.D. thesis of Mr Balaji Keshav Rao Dudhate of SRTM University, Nanded, Maharashtra and was appointed as examiner to evaluate the Ph.D thesis of S.G.M. Amravati University Amravati.

Symposium / Webinar

- Dr. Preeti Parashar has participated in one day International symposium on Environmental Governance for sustainable future which was jointly organized by Devi Ahilya Vishwavidyalaya Indore and I-Shou University Kaoushing, Taiwan on 18th June.
- Dr. M. Adhav, Dr. S. Shrivastava and Dr. P. Parashar participated in a one day National webinar on strategies on Intellectual Property Rights and Patents, organized Mata Jijabai Govt. PG Girls college, Indore on 28th May, 2024.

Publication

Dr. S. Ray has authored a paper *Datura ferox* L. an invasive plant first time reported from Indore, MP June, 2024 vol.-11(6), 893-895 Int. J. of emerging technologies and innovative research. ISSN: 2349-5162.

A poem “Apni Kavita Apni Pehchan” contributed by Dr. Krishna Joshi, Lab asst. was published in Vaidik Prakashan, ISBN no. 978-81-970763-4

Student Achiever

Microbiology Society of India (MBSI), presented the best student award to Ms. Lekhika Karpe of B.Sc. (Biotechnology) III Year, session 2022-23.