



Shri Suresh Chandra Patel
Chairman G.B.

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"Success seems to be
connected with action.
Successful people keep
moving.

They make mistakes,
but they don't quit."

-Conrad Hilton

Shri Gujarati Samaj, Indore

PMB Gujarati Science College

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

PERIHELION



Quarterly Newsletter -
October-November-December 2017-
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Year-5-

From the Principal's Desk

In the last quarter of the year 2017, we have conducted Half-Yearly exams for our B.Sc. I year students. We also had semester end exams of B.Sc. III and V semester students. The attendance percentage of 1st year students has been compiled by all the departments. In short, this has been a busy period for all. Faculty members have also been involved in paper presentations and publications, and other academic, cultural, literary activities, other than those of the college. Various activities which had academic relevance were organized for the students, as also those which fostered their personality

development. At the end of the year we have to introspect about our shortcomings and achievements both, so that we can usher in the New Year with a balanced and positive mindset. We also have to prepare ourselves for the forthcoming classes of B.Sc. IV and VI semesters, M.Sc. exams and the activities of the annual function. I take this opportunity to reinstate that all of us should make a proactive contribution in making Indore the number one city yet again in the Swaccha Bharat Sarvekshan 2018. Let us all be guided by the motto "Quality always scores; let's keep ours high."

News at a Glance

Dr. G.D. Sharma was honoured by a medal & a certificate for successful completion of a 21 Km marathon on 19-11-2017 organized by Airtel, in 2hrs.25 min in New Delhi. The opening was done by Ethiopian Olympic champion Mr. Leges.

Dr. K. Venkataraman and Mr. Mayur Mota were invited as judges in the project category in NTSE State Level competition for various schools of Madhya Pradesh on 8 November 2017.

Dr. Ketan Topiwala has been appointed as a member of the Selection Committee for DAVV Pistol Shooting competition held on 28 October 2017.

Dr. Dhananjay Dwivedi was invited as the judge in the State Level Science exhibition organized by M.P. Government School Education and State Science Education Institute and Teachers Education College, Jabalpur on 23 November 2017.

Dr. Sudip Roy and **Dr. Vimal Sharma** have been appointed as college representatives in the Governing body of the college.

Dr. Satyendra Sharma was invited as Chief Guest in the Annual Athletics Meet at Vidyasagar School, Indore.

Dr. Raksha Modi has authored a book titled 'Invertebrates' Paper I for B.Sc. 1st year.



Session on Interview Skills by Ms. Shweta Khandelwal during the certificate course 'Finesse'.



Students Involved in Finesse Activity



Celebration of Global Hand Washing Day at Shashikiya Madhyamik Vidhyalaya No.46, Indore



Mr. Nitesh Patidar, Director, Nature Agrocare, delivering lecture

English Department

'Finesse', the Communication Skills Development Programme for the registered UG and PG students of the college, which started in September 2017, concluded successfully in the month of October. Ms. Kusum Joshi was appointed as the team manager of the Kabaddi Girls team. She took the team to New GDC College, Indore on 8 November 2017. Dr. Poonam Nagar joined the department as faculty member in this session. The department displayed a poster on 'Some Linguistics' Terms' in the Knowledge Gallery in October 2017.

Dr. Deepa Vanjani's poem was shortlisted for publication by Proverse Publishers, Hong Kong in its Annual Poetry Prize Competition anthology 'Mingled Voices-2' due to be published in April 2018. Her poetry collection 'Shifting Sands' got a review in the international journal 'Word Matters' in December 2017. She was invited as a judge in the interschool debate competition organized by St. Paul H.S. School and Lions Club Sewa Ranjan on 30/11/2017. The topic was 'Social Networking Sites Have a Positive Impact on Society'.

Microbiology Department

The department of Microbiology celebrated Global Hand Washing Day on 14 October 2017. Students & faculty motivated children of Shashikiya Madhyamik Vidhyalaya No. 46, Indore, to wash their hands with soap. Awareness about importance of hand washing was created through role play and videos. A poster of hand washing steps & soaps was presented to principal of the school. Dr. Nandini Phanse & Ms. Vartika Mishra coordinated the event.

M.Sc. students, Surbhi Porwal, Namrata Chouhan, Aditi Bhavsar & Lubiana Kaba participated in the workshop on "How Next Generation Sequencing is Untying the Knots in Viral Pathogenesis" organized by IIT, Indore in association with University of Nevada, USA (23 - 30 Oct. 2017). Dr. N. Phanse participated in the workshop. Since 2013, the department has taken the initiative to celebrate Joy of Giving week (2nd to 8th October) under the banner of- *Gift Compassion*. In this campaign, staff and students of Microbiology department voluntarily contributed clothes, woolens, etc., which were donated to the old age home. Students along with faculty Ms. Paliwal, Ms. Chouhan, Ms. Gothwal, & Ms. Mishra participated in the activity.

As a part of Faculty Development Programme, expert lectures by industry experts were arranged on 17, 18 and 24 November 2017. Dr. Pranali Pingle, Microbiologist, Medicare Hospital, Indore, delivered expert talks on 'Multiple Drug Resistance' and 'An overview of MDR Organisms'. These lectures were arranged to promote "World Antibiotic Awareness Week" (13-19 November). Mr. Nitesh Patidar, Director, Nature Agrocare, Indore delivered a lecture on "Quality Control of Biofertilizers". Students of SGSJHS Innovative College also participated in this event.

Hindi Department

महाविद्यालय के हिन्दी विभाग में 10 अक्टूबर को श्रीमती ज्योति फड़के ने सहायक प्राध्यापक के रूप में कार्यभार सम्भाला। डॉ. ज्योति सिंह का एक शोध-पत्र पंडित दीनदयाल उपाध्याय शासकीय कला एवं वाणिज्य महाविद्यालय, सागर द्वारा प्रकाशित शोध पुस्तक 'विश्वभाषासाहित्य और राम कथा' अन्तरराष्ट्रीय शोध-संगोष्ठी का कार्यवृत्त में "रामकाव्य परम्परा में श्री नरेश मेहता के राम: रामत्व की ऊर्ध्व यात्रा का एक सोपान: प्रवादपर्व "खण्ड काव्य के विशेष संदर्भ में प्रकाशित हुआ। इस शोध पत्रिका का ISBN नं. था ISBN-978-93-86810-04-5 दि. 24-25 अप्रैल को आयोजित इस अंतराष्ट्रीय शोध-संगोष्ठी के दूसरे खण्ड में डॉ. तृष्णा शुक्ला का शोध पत्र "निराला और राम की शक्ति पूजा: राम की शक्ति पूजा का मिजाज क्लासिकी है" शीर्षक से प्रकाशित हुआ। विश्व हिन्दी रचनाकार मंच एवं जेएमबी पब्लिकेशन द्वारा प्रकाशित हिन्दी सागर साहित्यिक पत्रिका में डॉ. ज्योति सिंह को अतिथि-सम्पादक के रूप में सम्मिलित किया गया।

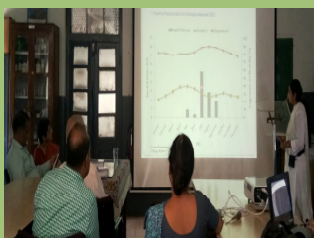
डॉ. ज्योति सिंह ने भारत तिब्बत सहयोग मंच द्वारा 21 नवम्बर को तवांग (अरुणाचल प्रदेश) में आयोजित राष्ट्रीय सेमीनार में डेलीगेट के रूप में सहभागिता की। डॉ. ज्योति सिंह महाविद्यालयीन खेलकूद गतिविधियों में भी विशेष रूप से सक्रिय रही। वे दिनांक 13.10.2017 को होल्कर महाविद्यालय में वालीवाल पुरुष दल, 9.12.2017 को सेन्टपॉल महाविद्यालय में बेडमिंटन महिला दल, 14.12.2017 को विश्वविद्यालय में फुटबाल पुरुष दल के साथ प्रबंधक के रूप में गईं।



Botany Department



Expert lecture by Dr. Santoshi Nagar,
Ex-Principal of the college



Ph. D. viva-voce of
Ms. Charulata Shah



Computer Science department
uploaded Perihelion on the JioMag
App



Cartoon-Making workshop



Dr. Devendra Sharma teaching a
student in the workshop

The last quarter of 2017 was full of various activities for the department. There was a Botanical Excursion & Educational Tour on 4-10-2017. All M.Sc. students participated in this tour to Jana Pav. Dr. Vidya Dubey and Dr. Charulata Shah were in charge of this activity. Students collected various plant specimens of Algae, Bryophytes and Pteridophytes. A poster making competition was organized on 9-10-2017 during World Wildlife Week along with the Mission Green committee of college on the topic "Save Biodiversity, Save Planet." The judges were Dr. G.D. Sharma and Dr. N. Phanse. A PTA meeting was held on 11-10-2017 for M.Sc. students. Dr. J. Sikka, HOD, Botany department addressed the meeting & talked about various departmental activities & previous year results. Dr. S. Ray & Dr. S. Shrivastava attended the same & gave valuable suggestions. A Student Seminar was organized on 12-10-2017 for B.Sc. III sem. students. Students of BT-3 Tasneem Dohadwala & Anjali Kumari presented their seminars using power point presentation. Prof. Priya Trivedi was in charge of this activity. Expert lectures were arranged for M.Sc. students in December. The speakers were Dr. O.P. Joshi and Dr. Santosh Nagar, both ex- principals of the college. The Ph.D. viva-voce of two faculty members of the department i.e., Ms. Charulata Shah and Ms. Preeti Parashar was held on 25-10-2017 and 15-12-2017 respectively. The supervisor of Ms. Shah is Dr. J. Sikka, while that of Ms. Parashar is Dr. C.M. Solanki, ex-head department of Botany. The pre-Ph.D. presentation of two candidates of Dr. Sudip Ray, Mr. Dariyaw Singh Chouhan & Mr. Prem Singh Baghel were held in the department in December 2017.

Computer Science and Information Technology Department

Mr. Sanjay Sharma was invited as the judge by RRMB Higher Secondary School, Indore in their science exhibition. He was a member of the registration committee during student union election 2017-18. An MOU with Reliance Telecom Limited has been signed under its Jio Magazines (JioMags, Campus Connect) services. Now all users who have installed JioMags app in their smart phones will be able to access the quarterly newsletter "Perihelion". The department has registered all the previous editions of Perihelion on this app.

DAVV result of IInd Semester was declared. 53% students have passed in Computer Science. DAVV Result of B.Sc. IVth semester has also been declared. Computer Science result was 88% and Information Technology result was 90%. The sixteenth edition of the quarterly newsletter of the college was printed in the department. The department received donation of books related to Computer Science and Information Technology from Mr. Mayur Mota for the departmental library.

Zoology Department

The department organized a guest lecture by Dr. Shailendra Sharma, Principal, Adarsh Institute of Management & Science, Dhamnod on Career Guidance for B.Sc. V semester students on 08-11-2017. Dr. G.D. Sharma was honoured by a medal and a certificate for successful completion of Marathon under the titles as follows: 22-10-2017, 10Km Marathon, organized by BSF under the title 'A Run for Martyr's' completed in 63 min's. 20Oct-17, 21Km Marathon 'A Run for Road Safety' organized by Indian Institute of Management completed in 2hr.33min's. As part of the celebration of 'Wild Life Week', M.Sc. I & III sem. Zoology students visited the exhibition & attended the three day seminar organized by Kamla Nehru Zoological Park, Indore under the guidance of Dr. Raksha Modi. On 24-11-2017, in view of P.G.A.D. Programme, the department organized an

inter-departmental P.G. workshop cum competition on Cartoon-Making under the direction of Dr. Devendra Sharma, nationally recognized cartoonist. About 80 UG & PG students attended the workshop & 20 students participated in the open competition. Ms. Ritu Mathuria joined the department as Assistant Professor. The department conducted a four day microteaching activity for P.G. students of Zoology from 4/12/2017 to 7/12/2017. The topics included Biological Clock, Malaria, Modern Technology in Sericulture & Vaccination. Dr. Rajesh Dixit published a paper with Baba Tabasum on 'Cytogenetic Analysis of Clarias Batrachus & Clarias Caripenus (Burchell)' in A Comparative Study Journal: Hydrobiology Pg.13-15 Vol. XIII July 17 & a paper titled 'Stimulatory Effect of Some Domestic Additives on Vermi-composting Biotechnology' in Journal of Hydrobiology Pg. 21-23.



Chemistry Department



Dr. O. P. Joshi, Ex-Principal of the college delivering a lecture



Expert lecture given by eminent Prof. Dr. P. S. Kalsi



Faculty members and students with the speaker Dr. A. K. Srivastava



Eye-check up camp for students and staff

Dr. O.P. Joshi, ex-principal of the college delivered a lecture on current environmental issues to P.G. students on 13 October 2017. On 25 November 2017 eminent Professor Dr. P.S. Kalsi delivered a lecture on Stereochemistry of Organic Compounds to P.G. students of Chemistry.

Dr. C.K. Shinde, Prof. Jiwaji University, Gwalior gave a lecture on IR Spectroscopy and Dr. D.K. Gupta, I.E.H.E. College, Bhopal delivered a lecture on Role of Reactive Intermediates to P.G. students of the department.

Ph.D. viva-voce of Ms. Mayuri Thanwar was held on December 1, 2017 under the supervision of Dr. A.K. Gharia, Ex-HOD, Chemistry department.

Ms. Juhi Verma, Mr. Rana Ravi Ranjan and Dr. Darshana Rodric have joined the department on the post of Assistant Professor.

Dr. Ketan Topiwala was appointed as convener, March Past Committee and Marshal of the meet organized on 7th November 2017.

Dr. Dhananjay Dwivedi published a research paper on 'Availability of Heavy Metal Ions in Extracts of Different Medicinal Plants' in Journal of Chemistry and Chemical Sciences. He delivered a lecture in National Conference, "Recent Trends on Spectroscopic Techniques" organized by APJ Abdul Kalam University, Indore on 17 and 18 November 2017. He delivered a lecture on 'M.O. Correlation, Organometallics and Spectroscopy' to P.G. students in SRJ College, Indore.

Physics Department

The department organized various expert lectures for students & staff. Their details are as follows:

| S. No. | NAME OF EXPERT | DATE | SUBJECT |
|--------|--|----------|--------------------------------|
| 1 | Dr. H.S. Dagar, Holkar Sci. College, Indore | 18/08/17 | Higher studies in Physics |
| 2 | Dr. Sunil Khartri, Guj. Prof. College | 15/09/17 | EXAFS |
| 3 | Dr. M. Varshney, School Of Physics | 22/09/17 | Laser Physics |
| 4 | Dr. M. Banerjee School Of Physics | 13/10/17 | Nano Particle Physics |
| 5 | Dr. Netram Kaurav, Holkar Sci. College, Indore | 27/10/17 | Solid state Physics |
| 6 | Dr. Apoorva Trivedi, SICA College, Indore | 06/11/17 | Application of Nuclear Physics |
| 7 | Dr. Uttam Sharma, Shri Vaishnav Vidhyapeeth | 18/11/17 | Plasma Physics |
| 8 | Dr. U.Singh, Gwalior | 17/11/17 | Careers in Physics |
| 9 | Dr. A.K. Srivastava, Gwalior | 11/12/17 | Digital Electronics |
| 10 | Dr. Swati Dubey, School of Physics, Ujjain | 20/12/17 | Plasma Physics |

Dr. Venkataraman was invited as judge for Science Exhibition organized by R.R.M.B. Gujarati H. Sec. School, Indore. Mr. Dron Mishra was appointed as team manager by DAVV for Men's Wrestling team. He took the team to Haryana MDU Rohtak University from 1-11-2017 to 7-11-2017. He was also the team manager of the District Level Inter-College Cricket Tournament college cricket team. Shri Gopal Dangi and Smt. Reena Bhatt qualified the SVVV Ph.D. entrance exam and are pursuing their course work. The department organized an eye-check up camp for students and staff by Lawrence and Mayo Optical on 8 December 2017. More than 100 students participated in it.



Poster-competition organized by
Biotechnology department



Seminar on Vaccine Preventable
CANCERS



Expert talk on Future Scope in
Electronics by Prof. P. Purey



Prof. Tarjani Sevak giving a lecture
on Java



All India Vayu Sainik camp
(AIVSC), Jodhpur



Blood donation by cadet at M.Y.
Hospital organized on NCC day



Dr. Satyendra Sharma at prize
distribution ceremony

Departmental Activities Cont.



Biotechnology Department

The department organized various responsible for transmitting diseases like awareness programs and activities to impart knowledge of different topics to the students and staff members. On 7 October 2017, a poster competition was organized on the topic "Swaccha Bharat Abhiyan". Fifteen students of B.Sc. (Biotech) participated in it and displayed beautiful posters. Tanishq Jain and Jitendra Singh of B.Sc.(Biotech)V sem. secured first position. Tanishq Jain beautifully presented 'Swaccha Bharat Unnat Bharat' and also focused on cleanliness against corruption, poverty, terrorism etc. Madhu Shah Jain and Khushbu Sharma of B.Sc. (Biotech) III sem. stood second & third respectively.

On 4 December 2017, a seminar was arranged on the topic 'Vaccine Preventable Cancers'. It was conducted by International Federation of Medical Student Association and MSAI. In this event information about HBV and HPV was imparted to the students in order to enhance their knowledge about cancers caused by these viruses. The presentation focused on all the aspects of these cancers and vaccines available to prevent them. A pre and post event questionnaire was also distributed to the students to get deeper insight of the topic.

An article on 'Five Facts about Aedes Aegypti' was circulated to all departments of the college on 28 November 2017. The idea was to spread awareness about the main vector, which is the causative agent,

Dr. Priti Vyas, Head, Department of Biotechnology was invited as judge for Science Exhibition in CMP Primary School on 7 December 2017.

Electronics Department

The department of Electronics organized some guest lectures for B.Sc. and BCA students. Their details are as follows:

- Prof. Pradeep Purey, from Maharaja Ranjeet Singh College delivered a lecture on 10-11-17 on the topic 'Future Scope in Electronics'.
- Prof. Tarjani Sevak from School of Computer Science, DAVV delivered a lecture on 11-11-17 on 'Java'.
- Prof. Rahul Singhai from IIPS, DAVV gave a lecture on 17-11-17 on topic 'Big Data'.

NCC Airwing Unit

In this session six cadets of our college Prashant Yadav (B.Sc. III year CS), Aayush Agrawal (B.Sc. II year CS), Vivek Kourav (B.Sc. II Year Elex), Rishiraj Awasthi (B.Sc. II Year Electronics), Krishan Chand (B.Sc. II Year CS) and Preeti Mandloi (BCA III Year) represented MP & CG team at the prestigious All India Vayu Sainik Camp (AIVSC) at Jodhpur. Along with that, the unit organized a blood donation camp at M.Y. Hospital on 8/11/2017 on the occasion of NCC Day. On Earth Day, the unit conducted a rally to save trees. The rally was from Nehru Stadium to Chawni circle. Two cadets of the unit, Ajay Rathore (B.Sc. II Year CS) and Himanshu Kankane (BCA I Year) attended the National Integration Camp (NIC) at Tezpur. Four college cadets Suraj Pal (B.Sc. III year CS), Pritesh Dubey (B.Sc. II year CS), Sunil Bondar (B.Sc. II year PCM) Javed Demrot (B.Sc. II year CS) attended the Sardar Patel Narmada Trekking Camp, Vadodra.

Sports Department

Dr. Satyendra Sharma was invited as special guest in Kendriya Vidyalaya No. 1 in prize distribution ceremony. Mr. Anil Gurjar a student of M.Sc. III Sem. represented DAVV in the All India Inter-Varsity Weight Lifting and Body Building competitions 2017-2018 held at Mohali (Punjab). Mr. Parag Jain of B.Sc. IV semester represented DAVV in the All India Inter-Varsity Weight Lifting competition 2017-2018 held at Mohali (Punjab). Mr. Kishor Mahediya of B.Sc. Ist year represented DAVV in West Zone Inter-Varsity Hockey competition held at Baroda from 25/12/2018 to 29/12/2018. Mr. Chandan Yadav of B.Sc. IV sem. has been selected in DAVV Volleyball (M) team 2017-2018.



Oath-taking ceremony



Environment Ambassadors at work



Plantation of Pollution Indicator plants

Patron:Shri Suresh Chandra Patel
[Chairman]**Chief Editor:**

Dr. Kiran Dixit [Principal]

Convener:

Dr. Deepa Vanjani

Co-Convener:

Ms. Reetika Shah

NSS Unit

On 17-10-2017, Dr. Vimal Sharma, Programme Coordinator NSS (Self Finance Unit) attended a one-day workshop at IMS, DAVV, Indore. Volunteers of NSS organized a rally from the college campus to Regal Square on 1-12-2017 (World Aids Day). Two students of the college Shubham Choudhary & Shubham Vishwakarma & members of Red Ribbon Club of the college attended a one-day workshop of Red ribbon on 06-01-2018 at DAVV Auditorium, R.N.T. Marg along with NSS Programme Officer [Self Finance Unit] Dr. V. Sharma.

Student Council Elections

The Student Union Elections were held in the college on 30-10-2017. Dr. Ketan Topiwala was the convener of the college elections committee, along with Dr. G.D. Sharma and Dr. Vimal Sharma as committee members. Mr. Nikhil Vipat was elected as President and Rohit Giri (B.Sc. I year) has been appointed as the vice-president. The oath-taking ceremony was held in the Zoology lab. on the same day. It was attended by all staff members. Principal Dr. Kiran Dixit administered the oath to the four post holders and class representatives.

Mission Green

A cleanliness drive was conducted in association with the NSS Unit on 7 October 2017. An oath of cleanliness was administered to the students by Principal Dr. Kiran Dixit. All students got together to clean the college campus. Members of the committee and the Environment Ambassadors participated enthusiastically in the activity and made it a success.

Some pollution indicator plants such as Ficus, Aloe Vera and Money Plant have been planted and kept in the college campus. The objective is to know the level of pollution in the college campus. Two plants have been adopted by the Botany department. An informal ceremony to display the plants was held in November in which apart from the principal, heads of departments, and committee members were present. Information about the plants was also displayed. Environment Ambassadors Ankit Verma (B.Sc. V sem.), Arya Munshi (B.Sc. V sem.), Anas Khan (B.Sc. III sem.) and Heer Purohit (B.Sc. V sem.) were actively involved in organising the event.

'ISRO's New Year Gift'

On 12-01-2018, ISRO, India's premier space research organization, gave the country's gift that can be best called 'one of its kind'. It launched its 100th satellite, along with 30 others, out of which 28 were from different countries. The satellite 'CARTOSTAT-2' will remain in orbit for five years. The launch took place from a PSLV from the Satish Dhawan Space Centre at Sriharikota.

Source: Business Today

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To,

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Indore.