



G.B. Chairman
Shri Atul Bhai Somaiya

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Shri Gujarati Samaj, Indore

PMB Gujarati Science College

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

PERIHELION



From the Principal's Desk

New beginnings are always a fresh start and this is true of the academic session as well. The academic session 2019-20 began with new admissions of both UG and PG students. The college has good admissions this year also. The session has been in full-swing since the commencement of B.Sc. I year classes in the second week of July and the practical classes in the third week. Theory and practical classes of II year and III years also began according the academic schedule of DAVV. Departments chalked out their academic planners with various

academic and non-academic activities for students. Induction programme 'Aarambh' for I year students was also arranged on 30/08/2019 and 31/08/2019. Various committees have been formed for carrying out various responsibilities and conducting activities of the college. ATKIT exams for III & V semesters were conducted in the month of July and August, 2019. I hope we will all put together great efforts with dedication in our future endeavors and make this a positive and successful year.

News at a Glance

- Dr. K. Venkataraman, coordinated national level orientation workshop for Resource Persons organized by Vigyan Prashar, DST, Govt of India, in Pune university on 21-22 July 2019. He has been nominated as a member of the Project 'Vigyan Kosh' of Vigyan Prashar, DST.
- Dr. S. Ray was the examiner for Ph.D. open viva voce test of Mr. Rameshwar Kumbhkar at Department of Bioscience, Barkatullah University Bhopal.
- Dr. G. D. Sharma participated in DAVV synthetic track, Indore Tiranga stadium run of 62.4 km in 12 hrs on 18/08/2019.
- Dr. Priti Vyas has been appointed as member of board of studies at DAVV, for 3 years.
- Dr. Deepa Vanjani was felicitated with the Nari Shakti Ko Pranaam award by Brijbhumi Foundation on 13 September 2019.
- Prof. Dron Mishra was conferred with the rank of Lieutenant of N.C.C. 2.M.P. Armed Sqn.
- Ms. Rashmi Sharma awarded Ph.D. from Madhav Science College, Ujjain.



Microbiology Department

An Orientation Programme for BSc I students was arranged on 5.8.19 during which students were informed about their course details & good laboratory practices. Prof. Vartika Mishra co-ordinated the event. Induction programme for M.Sc. Microbiology students, *Insight*, was organized on 21-22.8.19. Dr Krishnan Hajela, Professor, SLS, DAVV, delivered a talk on "Career Opportunities in Microbiology". Principal Dr Kiran Dixit & Dr Nandini Phanse addressed students. Inauguration of "Gyan Vistas" the information corridor for sharing knowledge, felicitation of meritorious students and distribution of Biochemistry Modules were other highlights of inaugural programme. Dr. Mahima Golani, Programme Coordinator, proposed vote of thanks. Darshika Sen & Aniket Bhargava compered the event.

On 22.8.19, highlights of the department were presented by Dr. Golani. Highlights of Gyan Vistas & Student Award Policy: *Upward Frontiers* were presented by Prof. Mishra. National level *Immuno-Rangoli* competition, in collaboration with Microbiologists Society, India, was organised on 22.8.19. Dr Priti Vyas and Dr Deepa Vanjani judged the competition. Ms. Mishra coordinated the event. Winners were: BSc. group: I prize- Sunanda Roy, II: Mariya Ahmad, III: Akansha Kumari. MSc. group: I prize: Purva Joshi, II: Rumana Parveen, III: Kanak Khanderia.

As a part of innovative teaching practices, M.Sc.I students were taught microbial techniques through activity based methods, viz determination of micro-flora of cell phones. Dr Phanse and Prof. Shraddha Dehure coordinated the activity.

International Micro-organism Day was observed on 17.9.19. *Microbiota*, an exhibition on the microbial world was inaugurated by Dr. Kiran Dixit. B.Sc. Microbiology students staged a skit on "Avengers of Microbiology". M.Sc. students explained various aspects of Microbiology to faculty/ students of the college. A poster depicting scope of Microbiology, prepared by Prof. Vartika, was also displayed. The programme was coordinated by Prof. Kiran Paliwal and all faculty members contributed in its making. This activity was a peer interaction programme in which students of MSc and BSc III explained concepts and aspects of Microbiology to newly admitted peers of BSc I year.

Chemistry Department

Dr. Ketan Topiwala along with M.Sc. students attended Entrepreneurship workshop on Mushroom Cultivation, on 27 & 28/9/19 at Acropolis Institute of Management Studies and Research, Indore. They also attended 4th Aryabhata Memorial Oration by Padma Bhushan Prof. Padmanabhan Balaram on 27/09/19 at Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore.

Dr. Rushina Natu, Dr. Dhananjay Dwivedi and Dr. Rashmi Sharma were members of college admission committee. Dr. R. Natu was the convener of College Induction programme "Arambh" on 30 & 31/08/19. Dr. A.K. Gharia attended a meeting of Board of Studies for revising the syllabus of M.Sc. Chemistry at M.J.B. Govt. Girls P.G. College, Indore, on 26/07/19.

Dr. Ketan Topiwala attended a workshop on New Framework of NAAC Assessment and Accreditation for colleges on 26/08/19 at DAVV, Indore. He was invited as Resource Person in faculty development programme and workshop on Computer Applications for chemistry and Science teachers from 02/09/19 to 07/09/19 at M.J.B. Govt. Girls P.G. College, Indore.

Dr. A.K. Gharia, Dr. Ketan Topiwala and Dr. Dhananjay Dwivedi published chemistry theory books, R.P.P. Unified Chemistry (Physical, Inorganic and Organic Chemistry) for B. Sc. II year (ISBN no. 978-93-85630-224) and III year (ISBN no. 978-93-85630-323). Dr. Kiran Dixit has co-authored the book for B. Sc. III year. Dr. Dhananjay Dwivedi published Chemistry practical books, Pragati edition, for B.Sc. I year and II year.

Dr. Rishina Natu conducted a workshop of making eco-friendly Ganesha idol for the teachers and students of the college on 29-08-2019. She was invited in P.M.B. Gujarati Commerce College, Indore for the same. She has also conducted this activity at Jeevan Umang ashram and in various slums. She was honored by Pragya Girls School, Indore on Hindi Diwas for her work and devotion to Hindi. She was invited as judge in a dance competition, by A.M.N. Gujarati Science College,



Induction Programme



Microbiology Induction Programme



Micro Skit Participants



Chemistry Lab Visit of First Year Students



Students at Mushroom Cultivation Workshop



Botany Department



Museum Visit



Lecture on "Effects Of Tobacco Chewing on Oral Health" by Dr. Akshansh Jain



Induction Programme for P.G. Students

Museum visit for B.Sc. I Year students was conducted in Carl Linnaeus Museum and Hargobind Khorana Lab in the month of September. The teachers explained about varieties of plants such as Lichens, Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperm and fossils of plants existed millions of years ago.

Ph.D. open viva-voce of Mr. Dariaw Singh Chouhan was held on 29/07/19 in the department under the supervision of Dr. S. Ray. Dr. T.R. Sahu, retd. Professor and ex. Dean of Dr. H.S. Gour University, Sagar was the external.

Dr. J. Sikka and Dr. S. Ray attended a meeting of Board of Studies at Kasturba Gram Rural Institute for the subjects Environmental Science and Microbiology respectively.

Dr. S. Ray attended Vikram Sarabhai Memorial Centenary Oration Program on 28/08/19, organized by Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore. The speaker was Padmashri Dr. Chandrakant Pithwa.

Dr. S. Ray delivered an Expert lecture for B.Sc. III Year students on the topic 'Biodiversity and consequences.' on 3/09/19 at Govt. M.J.B. Girls College, Kilamaidan, I. Dr. S. Ray was invited by Govt. M.J.B. Girls College, Kilamaidan, Indore to identify plants in the college campus.

Zoology Department

The department conducted Induction Programme for P.G. Students on 9/9/19, in which Dr. Rajesh Dixit introduced the salient features of the department. Dr. G. D. Sharma talked about the future Prospects after M.Sc. while Dr. Raksha Modi gave important instructions regarding P.G. activities.

The department organized a one day Dental Health check-up camp under 'Oral Health Awareness Programme' on 20/9/19 for staff members of the college. More than 60 staff member benefited in the camp. Dr. Akshansh Jain & their team members Mr. Bhupendra Singh, Mr. Nitin Jain & Mr. Deepak Harsol gave advice regarding oral health awareness.

Department organised two guest lectures for UG & PG students. Dr. Akshansh Jain talked about 'Effects of Tobacco Chewing on Oral Health' on 20/09/2019. Dr. (Prof.) Sandeep Arya delivered a lecture on 'Environment and its Impact Assessment with Special Reference to Water' on 30/09/2019.

Dr. G. D. Sharma attended two days workshop on mushroom cultivation organized by Department of Bioscience, Acropolis Collage, Indore on 27th - 28th Sept. 2019.

He participated in Hill Run at Pachmadi marathon on the theme "Donate Organs & Save life" on 21 /07 2019, and Night marathon, by Indore Marathon Academy on the theme "Raytheon" 3/08/2019, he completed 21 km in 2.25 hrs and in 2.26 hrs. respectively.

Ph.D. viva voce of Mr. Mangilal Maida on the topic "Comparative Physiological studies of stato-acoustic organ in Chicken and Rat" was organized on 30/9/19.

Electronics & BCA Department

The department organised a guest lecture on the topic "Measuring instruments Bridges" on 7/09/2019. The lecture was delivered by Prof. Devendra Bais, Mediacaps institute, Indore.

A 10 days workshop was organised by the Department for BCA final year students from 14/09/2019 to 24/09/2019 by Mr. Dushyant Kunte, CEO Trinaabh Infotech under the MOU signed between department of Electronics & Trinaabh Infotech last year.



Physics Department



Eye Checkup Camp



Prof. Dron Mishra
Being Conferred with
The Rank of
Lieutenant.



Chart Exhibition in
Computer Science
Department

The Department organized a workshop for U.G. students "Fun with Physics" on 27/08/2019 in association with IAPT (RC-09). Many experiments based on mechanics & electricity were demonstrated by Dr. P.K. Dubey, Dr. K. Venkataraman, Dr. Uttam Sharma, Dr. Sanjay Shah & Prof. Gopal Dangi. Department also organized workshop for U.G. students, on 28/08/2019 in which demonstrations were given by Prof. Shekher Muni, Asst. Prof. of Somaiya College, Ghatkopar Mumbai.

The Department organized an eye- screening programme in association with Lawrence & Mayo on 16/09/2019, in which 176 people got their eyes checked.

Dr. Pravin Kekre was the subject expert in interview conducted for selection of Physics faculty in Holkar Science College on 9/09/2019.

Dr. Ashish Dubey posted an augmented reality video of his art work on Artivive apps.

Prof. Mayur Mota attended the workshop on NACC at DAVV Indore on 26/08/ 2019. He was also the subject expert in interview conducted for selection of Lecturer of Computer Science at Shri Cloth Market Institute of Professional Studies. He worked as Superintendent in university examination of M.Sc. II sem held in July.

Dr. Sanjay Shah attended a two day workshop on Innovative Experiment for U.G. students of Physics on 17-18 Sep. 2019 at UGC Consortium, DAVV Indore.

Dr. K Venkataraman Presented a research paper ' Study of Glass transition kinetics of Xanthan Gum Biopolymer' in National conference on Emerging interface of Physical science and Technology (EIPT-2019), organized by Vikram University, Ujjain On 29th and 30th August 2019. He attended a faculty development program organized by IBS college of ICFAI university on 14th sep 2019.

Prof. Dron Mishra was a member of selection committee, district level N.S.S. (University level) at Holkar Science College on 07th Sep. 2019.

Computer Science and Information Technology Department

The department organized a chart exhibition from 19/09/2019 to 24/09/2019. Prof Govind Kaithwas was the Convener of this activity.

Departmental website <http://www.pmbgscsit.in> got tremendous response and has 150000 HITs till today.

Discussion on "Condition of Women in Present Scenario" was conducted on 27-08-2019, in which Ms Arshi Khan, Ms Saumya Singh and Ms Bhumika Singh from Akhil Bhartiya Mahila Sanskratik Sangathan expressed their views. Prof Govind Kaith was the convener of this activity.

Mr Brajesh Vijaypuriya has been appointed as Care Taker of College NCC Unit.

Prof Sanjay Sharma, Prof Manisha Shah, Prof Govind Kaithwas, and Prof Priyasi Jain have been appointed as members of sports committee.

Prof Sanjay Sharma has been appointed as Co-Convener Time Table and Feedback, Prof Manisha Shah has been appointed as convener of Women Grievance Cell as well as POC SO, Prof Govind Kaithwas has been appointed as convener NSS and Prof Brajesh Vijaypuriya as convener anti ragging committee (SPB Building).

Prof Sanjay Sharma was appointed as observer in CTET exam conducted by CBSE, Delhi.

Result of B.Sc. II year Computer Science is 71.91% and Information Technology is 100%, B.Sc.1st Year result is 68.53% and that of Information Technology is 80.8%



Inaugural Session of Finesse



पौधारोपण कार्यक्रम



Creative Avenues



काव्य पाठ



पौधारोपण कार्यक्रम



Kargil Vijay Diwas

Departmental Activities Cont.



English Department

The session began on a hectic note and has been continuing in full swing. Theory classes have been going on regularly. As part of celebrating 150th birth anniversary of Mahatma Gandhi students gave classroom presentations on Gandhian thoughts in July, 2019. The Communication Skills Certificate Workshop Finesse, which started on 28 August, ended on 28/9/19. The articulation session was conducted by Mr Sameer Chinchwadkar, RJ and voice trainer, and continued by Dr Dhara Pandey, EMRC, DAVV. The listening session based on the film My Fair Lady was taken up by Dr Deepa Vanjani as also the two reading sessions. The writing sessions were conducted by renowned copywriter Mr. Arish Nandekar and Dr. Deepa Vanani. More than fifty students have registered for the workshop this year.

Dr. Deepa Vanjani was invited as judge in inter school debate competition at Lokmanya Vidya Niketan on 30/7/19. She was the chief guest on the occasion of magazine release and badge distribution to post holders of student committees at BM College of Education and Pharmacy, Indore on 11/9/19, where she also delivered a talk. She was invited as the keynote speaker at St. Pauls' Professional Institution in the conference on 25/9/19.

Prof. Kusum Joshi was convener and Prof. Shweta Patidar was co-convener of 'Creative Avenue', the activity for developing entrepreneurial skills of I year students. During the activity a two day workshop on art and craft was conducted by Mrs. Varsha Patidar, followed by stalls in which things prepared by students were displayed and sold in the college. About 40 students took part in the activity. Revision tests were taken in B.Sc I year classes.

Hindi Department

सत्र 2019 के तहत म.प्र. शासन उच्च शिक्षा विभाग के आदेशानुसार "गाँधी जी की 150 वीं जयंती के उपलक्ष्य में होने वाले कार्यक्रमों, भारत रत्न राजीव गाँधी के 75 वें जन्मोत्सव के आयोजन में, हरियाली-महोत्सव, स्मार्ट गर्ल प्रोजेक्ट, संयोजक-महाविद्यालय की सांस्कृतिक एवं ललित कलाओं की संयोजक, एवं वार्षिक-पत्रिका परामर्शदात्री डॉ. ज्योति सिंह बनाया गया। डॉ. तृष्णा शुक्ला सदस्य-महाविद्यालय प्रवेश-समिति, संयोजक-मिशन ग्रीन एवं स्वच्छता समिति। प्रो. ज्योति फडके गाँधी जयंती कार्यक्रमों व वार्षिक-पत्रिका समिति की सदस्य बनाई गई। डॉ. सिंह द्वारा गतिविधियों का आयोजन-हरियाली-महोत्सव के तहत पौधारोपण, सेल्फी प्रतियोगिता, भाषण, चित्रकला, निबंध प्रतियोगिता का आयोजन किया गया एवं शपथ भी दिलवाई गई। दिनांक 20/8/2019 को "महात्मा गाँधी एवं देश प्रेम" विषय पर काव्य पाठ आयोजित किया गया। संचालन प्रो. ज्योति फडके ने किया। 28/8/2019 को ब्रह्मकुमारी ईश्वरीय विश्वविद्यालय की बहनों द्वारा ध्यान की कार्यशाला आयोजित की गई। हिन्दी पखवाड़े के तहत दिनांक 18/8/2019 को काव्य पाठ का आयोजन किया गया। राष्ट्रीय शोध संगोष्ठी दिनांक 7 सितम्बर 2019 को शासकीय गृह विज्ञान स्नातकोत्तर अग्रणी महाविद्यालय होशंगाबाद में आयोजित की गई जिसमें डॉ. ज्योति सिंह ने स्रोत व्यक्ति के रूप में शीर्षक 'जल-चिन्तन' एवं प्रबंधन 'इंदौर के भू जल स्तर एवं बड़े तालाबों' की वर्तमान स्थिति का विवेचन एवं पुनर्जीवन के प्रयास' पर व्याख्यान दिया। इसी संगोष्ठी में डॉ. तृष्णा का भी "जल-संचय:सामूहिक यज्ञ से" विषय पर शोध-पत्र शोध-स्मारिका में प्रकाशित हुआ। दिनांक 3/9/2019 से 5/9/2019 तक राष्ट्रीय कार्यशाला क्रिश्चियन एमिनेन्ट महाविद्यालय इन्दौर में विषय "कम्प्यूटेशनल स्किल: ट्रेनिंग एण्ड डेवलपमेंट के आयोजन में डॉ. तृष्णा शुक्ला उपस्थित रही। 22 सितम्बर 2019 को विश्व हिन्दी लेखिका मंच, इंदौर द्वारा आयोजित महादेवी वर्मा स्मृति कवयित्री सम्मेलन में 'महादेवी वर्मा स्मृति सम्मान डॉ. ज्योति सिंह को दिया गया। वे कार्यक्रम की विशेष संयोजक-संचालक थीं। "वे भारत के प्रतिभाशाली कवि एवं कवयित्रियाँ जे.एम.डी. पब्लिकेशन प्रथम सं. 2019 ISBN-978-93-82340-49-2 के सम्पादक मण्डल की सदस्य रहीं।



Making Of Eco-Friendly Ganesha



Prize Winners during Independence Day Program



पौधारोपण कार्यक्रम

Patron:
Shri Átul Bhai Somaiya
[Chairman]

Chief Editor:
Dr. Kiran Dixit
[Principal]

Convener:
Ms. Kusum Joshi

Co-Convener:
Ms. Vartika Mishra

Member:
Ms. Shweta Patidar

Miscellaneous Activities



Biotechnology Department

Dr. Priti Vyas was a judge in “Immuno Rangoli” competition organized by Microbiology department on 22/8/19.

A workshop of making “Eco-friendly Ganesha” organized by the department on 26 & 27/8/19. Its aim was to create awareness towards environment. Mrs. Parul Soni, Assistant professor (Fine Arts), MKHS Gujarati College, Indore, conducted the workshop.

NCC Airwing Unit

Activities of NCC Air-wing unit started from 21 July with the enrollment of 1st year cadets. The selection was based on different parameters like, physical test, written exam and interview conducted by the unit Commanding Officer. “Kargil Vijay Diwas” was celebrated in the college campus on 26/7/19. All the cadets participated in Independence Day program and took oath to serve the nation. Nine cadets of our college unit were honored by the President of Shri Gujarati Samaj, Indore. Combined Annual Training camp for all the cadets was organized from 28 August to 06 September, 2019 at Emerald Heights International School, Rau. The cadets experienced flying and adventure activities, along with routine activities during the camp.

Mission Green

सत्र 2019 के तहत दिनांक 28/8/19 को मिशन ग्रीन समिति का गठन एवं दिनांक 9/9/19 को पर्यावरण-प्रतिनिधि विद्यार्थियों का चयन किया गया। सर्वप्रथम दिनांक 30/9/19 को महाविद्यालय की एसपीबी बिल्डिंग में पौधारोपण कार्यक्रम आयोजित किया गया। प्राचार्या डॉ॰ किरण दीक्षित द्वारा पौधारोपण का कार्य किया गया। समिति सदस्य एवं पर्यावरण प्रतिनिधि विद्यार्थियों के सहयोग से नए पौधों का रोपण एवं पूर्व में लगाए पौधों के संरक्षण का कार्य सम्पन्न किया गया। तत्पश्चात् सभी विभागों के विभागाध्यक्षों को नए एवं पूर्व में लगाए पौधों का संरक्षण करने के लिए (विभागवार) सौंपे गए।

Students' Achievements

- Mahak Agrawal of M.Sc. Physics 1st semester secured II position in the University exam 2018-19.
- Namrata Chouhan and Surbhi Prwal of M.Sc. Microbiology 4th semester secured I and II position respectively in University exam 2018-19.
- Hazra Sheikh and Khadija Lokhandwala of M.Sc. Microbiology 2nd semester secured I position in University exam 2018-19.

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