



G.B. Chairman
Shri Atul Bhai Somaiya

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Miscellaneous Activities

**Success is a vehicle
which moves on a wheel
called "Hard work".
But, The Journey is
Impossible without the
Fuel called
"Self-Confidence".**



Shri Gujarati Samaj, Indore

PMB Gujarati Science College

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

PERIHELION

Quarterly Newsletter -
January-February-March 2022-
Issue-30-
Year-8-



From the Principal's Desk

"Educating the mind without educating the heart is no education at all." The quote truly explains the purpose of education. Ultimately, the enthusiasm of students to gain knowledge conquered the fear of corona virus.

As the situation is getting normal day by day the college conducted the examination of M.Sc. III and I Semester in the month of January and February respectively on offline mode as per the university time table. Special exam for COVID batch of M.Sc. III Sem. was conducted in the month of March. **The syllabus is over now.** Practical exams of M.Sc. III & I Sem. and B.Sc. III & II year have been conducted as per university time-table. Theory and practical classes of M.Sc. II and IV Sem., BCA IV and VI Sem. are running on offline mode.

We are also conducting the theory exam of B.Sc. III and II Year as per University time table.

Since the establishment to till date we have been striving towards maintaining high academic standards and excellence in the field of science. Our institution has a dedicated team of faculty members who work hard to provide the students with latest knowledge and skills that would help them to stand out in this fierce competitive world. Our motto to excellence is 'To Work Together and Learn Together to Achieve the Best'.

I wish you all to be successful in life.

News at a Glance

Dr. Pravin Kekre, appointed as Member, Board of Studies (Physics) DAVV, Holkar Science College and Christian Eminent College, Indore.

Dr. Deepa Vanjani awarded by Indore press Club on the occasion of International Womens Day 2022.

Dr. Dhananjay Dwivedi appointed as member, board of studies, department of Chemistry, Kasturba Gram College, Indore, on 15 February 2022.

Ms. Krishna Joshi, Lab Technician of Botany department awarded with "Savitribai Phule" National Award by Karnataka state.

Botany Department

Online Ph.D. Viva

Online Ph.D. Viva-voce of Mrs. Nitu Singh was held in the department on 12/01/2022 under the supervision of Dr. K.C. Patidar, Retd. Prof., M.K.H.S. Gujarati Girls College, Indore. The title of her thesis was "Phyto-chemical Analysis & Antimicrobial Activity Determination in Selected Plants." Dr. J.K. Tidke, Prof., SGB Amrawati University, Maharashtra was the External for this viva.

Expert Lecture

The department organized an Expert Lecture for M.Sc. students under PG Academic Development Programme on 26/03/2022 in Birbal Sahani Lab. The lecture was delivered by Dr. Manish Mishra, Sr. Scientist, IIFM, Bhopal on the topic "Ethnobotanical knowledge and its role in Plant Conservation: A Case Study of Central Indian Tribes." Principal Dr. Kiran Dixit, Heads of all PG department, faculty members and PG students attended the programme. The lecture was very informative and beneficial.

Staff Achievements

- Dr. Sudip Ray appointed as examiner to evaluate Ph.D. thesis of Swami Ramanand Teeth Marathwada University Nanded, Maharashtra.
- Dr. S. Ray and Dr. Smita Shivastava attended Faculty Development Programme on Statistical tools using SPSS organized by RAMA University Kanpur (U.P.), Research Foundation of India and REI-care, from 3rd March to 9th March, 2022.

Research Papers

- Dr. J. Sikka & H. Upadhyay Published a research paper entitled "Structure-based Drug Design on Mycobacterium Tuberculosis (Mtb) Targeting Unsaturated-Phospholipid Methyltransferase - An In silico Analysis" in Indian Journal of Applied & Pure Biology, vol. 37(1), P. No.275-283(2022).

Awards

- Ms. Krishna Joshi received "Earth award" by Sawaran Bharat Pariwar on Women's day, Kala Nidhi Samman, Nari Sanchetna award and Sahitya Shringar Samman.

Physics Department

Departmental Activity :

The department organized an expert lecture for PG students on the topic "Inverse free electron laser accelerator" on 08/02/2022. Dr. Roma Khullar (Govt. College of Khategaon) delivered the talk.

Faculty Enrichment :

Dr. P.A. Kekre Presented two research papers and attended five webinars and one international conference.

Dr. Sanjay Shah

- Presented one research paper in International Conference on Recent Advancements in Science and Technology (IRAST - 2022) conducted by Govt. Motilal Vigyan Mahavidyalaya, Bhopal.
- Published one research paper in GIS Science journal on 02 Feb. 2022.
- Presented research paper in National level Doctoral Conference "Shodh" on "Multi Disciplinary Approach to Research: Emerging Paradigms on 26th March 2022.

Prof. Dron Mishra

- Presented one research paper "Enhancement of Thermoelectric properties of Ceramics" in International Conference on Recent Advancements in Science and Technology (IRAST - 2022) conducted by Govt. Motilal Vigyan Mahavidyalaya, Bhopal.
- Presented research paper "Optimization of thermoelectric properties of LaCoO_3 by Sr-Substitution" in National level Doctoral Conference "Shodh" on "Multi Disciplinary Approach to Research: Emerging Paradigms on 26th March 2022.

Prof. Reena Bhatt

- Published one research paper "Antibacterial properties of transition metal complexes with Schiff base ligands -A review" in GIS Science journal on 02 Feb. 2022.
- Presented research paper "Transition metal complexes of Schiff base ligands with antibacterial properties - A Review" in National level Doctoral Conference "Shodh" on "Multi Disciplinary Approach to Research: Emerging Paradigms on 26th March 2022.

Electronics Department

The department signed an MOU with Trinabh Infotech in March 22
Dr. Vimal Sharma & Dr. Dinesh Jajoo are promoted to the post of Professor in college.



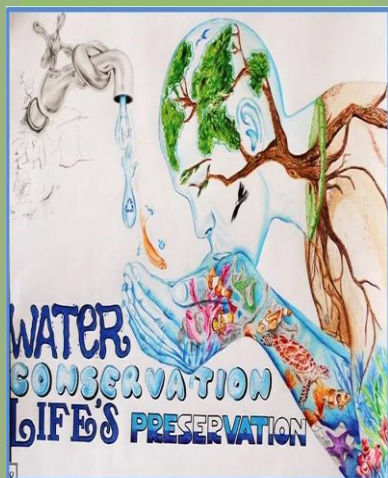
Online Ph.D. viva-voce held in Botany Department



Expert Lecture by Dr. Manish Mishra, Sr. Scientist, IIFM, Bhopal



Ms. Krishna Joshi awarded with "Savitribai Phule" National Award by Karnataka state





Chemistry Department

Departmental Activities:

- The department signed an MoU with the department of Chemistry, MJB Govt. PG Girls College, Indore under which a seven day training programme for a project work (on Physico-chemical analysis of water sample) for the students of MJB Govt. Girls P.G. College, Indore was organized by the department in February 2022.
- The department organized a lecture on Ayurvedic and Herbal products on 04-02-2022 for all staff members. The lecture was delivered by Mr. Ambuj Pathak, OMS Intercontinental Private Limited.
- On the occasion of Science day on 28-02-2022, Dr. Arun Singh, Professor, M.L.B. Govt. Science College, Bhopal delivered a lecture to the students of M. Sc. I semester Chemistry.
- Ph. D. viva-voce of Ms. Monika Sanyal was held on 03-03-2022. Her research supervisor is Dr. A. K. Gharia.
- Dr. Rushina Natu and Dr. Dhananjay Dwivedi have been promoted to the post of Professor.
- The department arranged an online Induction programme on NEP-2020. The programme was organized under the aegis of Govt. of M.P. Higher Education.

Faculty enrichment:

Dr. Ketan Topiwala

- Published a book titled 'RPP, Fundamentals of Chemistry B. Sc. I year (I semester) Rashtriya Shiksha Niti - 2020', common minimum syllabus for all UP State Universities and Colleges, ISBN 978-93-85630-78-1 (in Hindi) and ISBN 978-93-85630-77-4 (in English) as per CBCS curriculum.
- Published a book titled 'Bioorganic and Medicinal Chemistry with Practical : Bioorganic Analysis' B. Sc. I Year (Semester II) Ram Prasad Publication, as per CBCS curriculum NEP-2020, ISBN: 978-93-85630-08-8 (in English) and ISBN: 978-93-85630-01-9 (in Hindi).
- Attended virtual meeting of Board of Studies at Sadhu Vaswani Autonomous College, affiliated to Barkatullah University, Bhopal on 01-02-2022.
- Appointed as member, selection committee of DAVV, Indore, pistol shooting (men and women) team.
- Attended a workshop on NEP-2020 and revised framework of NAAC assessment and accreditation at DAVV Indore, on 11-02-2022.
- Member of Technical Committee Inter-district Squash Racket competition.

Dr. Dhananjay Dwivedi

- Published a paper on "Micellar catalyze oxidation of L-aspartic acid by acidic permanganate - a kinetics and mechanistic studies" in International Journal of Creative Research Thoughts (IJCRT) an International open access peer reviewed, referred journal, ISSN: 2320-2882, volume 9, issue 12 December 2021.
- Sent a research paper on "one pot MCR reaction via different base used as catalyst and PEG-400 as a solvent" for publication.
- Presented a paper on the topic "A critical overview of the challenges and opportunities in education with the implementation of the New Education Policy-2020" in National Webinar organized by Institute for Excellence in Higher Education Bhopal (M.P.), sponsored by Department of Higher Education Govt. of M.P., Bhopal, on 15-02-2022.
- Delivered expert/guest lectures on virtual mode to M. Sc. previous Chemistry students of Institute for Excellence in Higher Education, Bhopal, from 02 to 04-02-2022 on the following topics : (i) Metal carbonyls and Nitrosyls, (ii) Metal pi-complexes of alkenes and alkynes, (iii) Homogeneous hydrogenation.
- A research candidate of him submitted the Ph. D. synopsis for registration.
- Appointed as Nodal Officer of the college for NEP-2020 and provided guidance to the faculty members and students regarding project work, internship and apprenticeship, community engagement as per NEP-2020 on 05-02-2022 and 14-02-2022.



MoU with department of Chemistry, M. J. B. Govt. PG Girls College, Indore



Expert Lecture by Dr. Arun Singh in Chemistry Department



Dr. Ketan Topiwala receiving certificate of appreciation in a workshop



Dr. Dhananjay Dwivedi giving online lecture as expert



Hindi Department



'मतदान जागरूकता दिवस' पर आयोजित कार्यक्रम



नॉलेज गैलरी में हिन्दी विभाग द्वारा प्रस्तुत किया गया पोस्टर



डॉ. ज्योति सिंह द्वारा साहित्यिक सामाजिक संस्था अखंड संडे इन्दौर के तत्वाधान में सहभागिता



Poster on 'Azadi Ka Amrit Mahotsav' displayed by Department of English

25 जनवरी को 'मतदान जागरूकता दिवस' पर महाविद्यालयीन विद्यार्थियों से शपथ दिलवाई गई।

फरवरी माह में नॉलेज गैलरी में आवंटित पोस्टर प्रस्तुति के अन्तर्गत विभाग द्वारा संसार की भाषाओं का वर्गीकरण एवं अमृतोत्सव के अन्तर्गत ग्रंथालय के डिस्पले बोर्ड पर 'सूर्य नमस्कार' शीर्षक से पोस्टर प्रस्तुत किए गए।

5 फरवरी को विभाग द्वारा बसंतपंचमी के अवसर पर महाविद्यालय में कार्यक्रम आयोजित किया गया। जिसमें आजादी के तराने कार्यक्रम की प्रस्तुति दी गई।

14 फरवरी को ताकत एक वोट 'मतदाता जागरूकता प्रतियोगिता' के सम्बंध में डॉ. ज्योति सिंह ने एक इंडक्शन कार्यक्रम का आयोजन किया। जिसमें भारत निर्वाचन आयोग द्वारा 'मेरा वोट मेरा भविष्य' विषय पर विद्यार्थियों को विस्तृत रूप में जानकारी दी गई।

अंतरराष्ट्रीय महिला दिवस के अवसर पर 8 मार्च को शुभ संकल्प समूह द्वारा आयोजित अंतरराष्ट्रीय संगोष्ठी में विषय विशेषज्ञ के रूप में स्त्री को अपनी नई छवि स्वयं गढ़नी होगी? 'शीर्षक से व्याख्यान दिया। अक्नी-सृजन समूह द्वारा भी सम्मानित किया गया। यह आलेख <https://www.mediapatten.com> पर प्रकाशित भी हुआ।

डॉ. ज्योति सिंह ने ऑनलाईन सम्पन्न होने वाले साहित्यिक कार्यक्रमों का सांस्कृतिक संचालन का शतक पूर्ण किया। उन्होंने साहित्यिक सामाजिक संस्था अखंड संडे इन्दौर के तत्वाधान में प्रकाशित होली आई रे 2020-2022 विशेषांक उडे रंग गुलाल में सहभागिता की।

English Department

The syllabi of subjects taken by the department in B.Sc. and BCA were completed. Online entry of marks of CCEs was done. Paper setting and assessment of internal test of BCA I year was also done in February.-

The department displayed a poster based on 'Azadi Ka Amrit Mahotsav' in the Knowledge Gallery of the college in the month of February.

Research Work:

Dr. Deepa Vanjani-

- Paper titled *Language and Identity in Social Media* National Research Journal *Sameeksha-Shodh* Vol. IV ISSN 2348-2362 published by MU College of Commerce, Pimpri, Pune.
- Paper titled *Articulation of Community Identities in Folk Songs, Motifs, and Oral Traditions of Malwa, Gujarat and Rajasthan and Inherent Environmental Practices in them* has been accepted for presentation in the 6th ESTIDIA Conference being organized in the University of Alicante, Spain in June 2022.

Prof. Kusum Joshi-

- Presented a paper titled 'A Study of Memory, Trauma and Identity in Select Novels of Kazuo Ishiguro' in the international conference Samantrana organized by Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore on 17-01-2022.
- Presented a paper titled 'Thematic Analysis of Kazuo Ishiguro's Never Let Me Go' in National level Doctoral Conference Shodh-2022 on "Multi Disciplinary Approach to Research: Emerging Paradigms Shodh-2022 organized by Vaishnav Vidyapeeth Vishwavidyalaya, Indore, on 26 March 2022.

Biotechnology Department

- Dr. Priti Vyas appointed on the post of Professor under college code 28 in March 2022.
- Dr. Priti Vyas and Ms. Poonam Vijaypuriya attended an e-seminar on "Recent Researches in Bio fertilizers: From Lab to commercialization", organized by Department of Biotechnology, IPS Academy, Indore on 12 February 2022.
- Ms. Poonam Vijaypuriya conducted extra problem solving sessions for I yr students.
- Ms. Poonam Vijaypuriya had qualified IGNOU Ph.D. entrance exam in March 2022.



Microbiology Department



MoU with Department of Biochemistry, M. J. B. Govt. PG Girls College, Indore



Farewell Programme of Shri Dayaram Sarode



Microbial Food Festival: Micro Fiesta



Vermiculture Technology Training Programme organized by Zoology Department



Dr. G. D. Sharma as Resource Person in a National Seminar

"Pharma-Skills," a job oriented, skill development workshop on "Techniques in Pharmaceutical Microbiology" was organized by the Department in February-March, 2022. Mrs. Kiran Paliwal was the coordinator & resource person of the course. Students were provided hands-on training and theoretical knowledge on basic & advanced pharmaceutical techniques. This workshop was conducted under the aegis of the add-on certificate course offered by the Microbiology department and PG academic development programme. The aim of the workshop is to develop awareness about the job functions in the pharmaceutical industry among students and prepare students ready for employment by imparting technical skills required in pharmaceutical industry.

The department arranged a farewell for Shri Dayaram Sarode on 31-01-2022. Shri Sarode gave 40years of his services to the institute. We wish him good health and happiness. The department entered into an MoU with Department of Biochemistry of Mata Jijabai Govt. PG Girls College, Indore for academic and research collaboration, on 03-03-2022. Another MoU was signed with Plantika Tissue Culture Pvt. Limited, Indore.

Dr. K. Venkataraman delivered series of expert lectures on "Nanotechnology" to students of M.Sc. IV Sem., Microbiology.

With the purpose of engaging and motivating students to learn microbiology while celebrating some traditional fermented foods and drinks, the department organized a Microbial Food Festival, "Micro Fiesta" on 31-03-2022. Food items produced by microorganisms were included in this food festival.

Faculty Enrichment :

Dr. Nandini Phanse attended a five day International FDP on "Smart Materials for new Technology" (18 - 23 Feb. 2022) organized by St. Mary's college, Thoothkudi (TN).

Dr. Mahima Golani promoted to the post of Professor on 03-03-2022. She has published 3 research papers.

Dr. Phanse and Mrs. Shraddha Dehure attended a one day seminar on "Recent Researches in Biofertilizer : From Lab to Commercialization " on 12-02-2022 on virtual mode, organized by Students of IPS Academy Indore.

Ms. Shraddha Dehure was invited as expert lecturer for a Certificate course on "Biofertilizer Production Technology" at Dadu Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur. The session was held on online mode from 17 to 22 January 2022.

M.Sc. students Deepika Sawlani and Divya Paraniik participated in the online live Quiz Contest organized by IPS Academy, Indore.

Zoology Department

Departmental activities:

- The department organized a guest lecture on "Corona" for P.G. students by Retired Professor Dr. Lata Bhattacharya, Dept. of Zoology, Vikram University, Ujjain on 04-03-2022. She also visited Vermi-composting Technology prepared for new education policy-2020 under M.P. Higher Education, Bhopal.
- Two MOUs with Dept. of Zoology, Govt. Mata Jijabai Girls P.G. College, Motitabela, Indore and Bherulal Patidar Govt. P.G. College, Mhow respectively have been signed under NEP 2020.
- A one week 'Vermiculture Technology Training Programme' for P.G. students (Dept. of Zoology) of Govt. Mata Jijabai Girls P.G. College, Indore was conducted by the department under the direction of Dr. G.D. Sharma and Dr. Raksha Modi.

Staff Enrichment :

- Dr. G.D. Sharma invited as Resource Person in a National Seminar on 'The Impact of Air & Water Pollution on Human Health' organized at S.K.P. Govt. P.G. College, Dewas. Dr. Sharma participated in 10Km. marathon conducted by 'Indore Marathon Academy' on 6-02- 2022 and completed the run in 1.02 Hrs. He also completed 5Km run on 'World Kidney Day' (06-03-2022) organized by Super Speciality Hospital, Indore.
- Dr. Vibha Dave and Dr. Rajesh Dixit have been promoted as Professor and Dr. Raksha Modi as Associate Professor.
- Dr. Rajesh Dixit was the manager in following sports activities conducted by DAVV Indore:
 - Table Tennis, Inter College-Saint Paul's College
 - Swimming, Inter College-Taran Puskar
 - Chess Competition-Holkar Science College

Departmental & Miscellaneous Activities



Computer Science & Information Technology Department



*Mr. Vijay Sohni giving lecture
on Time Management*

Patron:
Shri Bharat Bhai Bavisi
[Chairman]

Chief Editor:
Dr. Kiran Dixit [Principal]

Convener:
Dr. G. D. Sharma

Co-Convener:
Ms. Kusum Joshi

The department successfully conducted B.Sc. III and II year practical exams as per the university time table. The faculty members of the department are now engaged in invigilation duty of university exams and valuation work.

Prof. Anjali Shivhare resigned from the college and appointed as Bank PO with Madhyanchal Gramin bank.

Azadi Ka Amrit Mahotsav

Lectures on Healthy Lifestyle and Time Management

The Department of Zoology organized two talks on Healthy Lifestyle and Time Management on 15 March 2022 and 24 March 2022 respectively under the aegis of Azadi Ka Amrit Mahotsav. Assistant Commissioner State Tax M.P. Mr. Vijay Sohni was the speaker on both occasions.

In his first talk Mr. Sohni threw light on sleep, stress reduction and healthy food as important keys for a healthy lifestyle. He emphasized on reducing junk food, mobile usage before sleeping and eating a light dinner. He gave valuable tips on time management in his second talk.

The programme commenced with lamp lighting to pay respect to goddess Saraswati. Dr. Rashmikant Sanghvi, Administrative Officer, welcomed the guest. Dr. G.D. Sharma, Head of the Zoology Department introduced the guest, while Dr. Raksha Modi conducted the programme which was attended by the staff members. Dr. Rajesh Dixit proposed the vote of thanks. Shri Sohni honoured Shri Kishan Ojha, senior Sports Officer of the college, as his guru, which was a special moment.

From:

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To,

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Indore.