



G.B. Chairman
Shri Atul Bhai Somaiya

Contents:

Individual Highlights

- Page 1:** News at Glance
Page 2: Departmental Activities
Page 3: Departmental Activities
Page 4: Departmental Activities
Page 5: Departmental Activities
Page 6: Departmental Activities
Page 7: Departmental Activities
Page 8: Departmental Activities
Page 9: Miscellaneous Activities
Page 10: Miscellaneous Activities



Don't be afraid to start over. It's a chance to build something better this time.

Shri Gujarati Samaj, Indore

PMB Gujarati Science College

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

PERIHELION

Quarterly Newsletter -
July-December 2021-
Issue-29-
Year-7-



From the Principal's Desk

Greetings to all,
"A positive attitude creates a chain of positive thoughts, events and outcomes."
 This quote truly relates to the current circumstances. The new academic year began with a new hope, after the dark clouds of Covid 19 a silver lining of getting back to normal life from the new normal will appear soon. New normal is what we adapted in the pandemic time. Due to Corona virus situation the university conducted open-book exams of B. Sc. and M. Sc. in the month of July-2021. Our college was one of the collection centers to collect the answer sheets.

M.P. Higher Education implemented the first phase of NEP-2020 for B.Sc. I year students. The vision of National Education Policy is to empower students and to develop scientific temper from a young age through flexibility in course choices. This new policy proposes to adjust the length of

degree programmes and allow students to experience the full range of holistic and multidisciplinary education in addition to a focus on the chosen major and minor subjects according to their interest. Theory classes of B. Sc. II and III year and M. Sc. III semester commenced from 15 September whereas B. Sc. I year and M. Sc. I semester from 6 October in offline mode. The syllabus of B. Sc students is almost complete now and practical exams of M.Sc. students have been conducted in the month of December 2021 as per the university time-table.

I appreciate all the teachers for all the knowledge that they are sharing with students and preparing a new team of professionals. At last, I wish you all good health, success, and good fortune. Stay safe, stay healthy.

News at a Glance

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

Dr. Nandini Phanse appointed as Member, Board of Studies, Life Science and Microbiology (2021-2024).

Dr. K. Venkatraman was the Chief Editor and Core committee member for "Vidyarthi Vigyan Manthan (VVM) - 2022", a student talent search examination, jointly organized by the Vigyan Prasara, Govt. of India, NCERT and CBSE.

Dr. Deepa Vanjani appointed as Member, Board of Studies, Kasturbagam Rural Institute Discourse Net International Association for Discourse Studies.

Dr. Dhananjay Dwivedi appointed as Member, board of studies, Govt. M. J. B. Girls P.G. College, Indore.

Fig. Offr. Manish Joshi (Airwing) and **Lt. Dron Mishra (Infantry)** awarded with Best Associate NCC Officers (ANO) 2021-22.

Ms. Kiran Paliwal appointed as Member, Board of Studies, Microbiology (2021-2024).

Ms. Poonam Vijaypuriya has qualified ICAR- NET 2021 exam.

Ms. Krishna Joshi awarded with "Honorary Ph.D. Degree" by International Internship University Delhi. She was also honoured with "Bharat Mata Abhinandan Samman 2021" by Haryana Unit and "Sahitya Minishi Samman" by Sahitya Sangam Sansthan. Her name was included in Golden Book of Records.

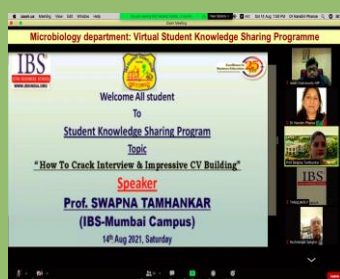
Microbiology Department



An orientation programme for B. Sc. I year



Exhibition of Posters on AIDS awareness and prevention



Virtual knowledge sharing programme

A **rangoli competition** on the theme “The Power of Microbes” was organized to observe International Microorganisms Day, 17/9/2021. The competition was judged by Mrs. Smriti Chouhan. Winners of the contest were: UG Category: Dikshika Chouhan-I prize, Jaya Prajapati-II prize. PG Category: Ayushi Patidar & Tejas Khatri-I prize, Priti Geed II prize, Shraddha Vagde & Deepika Sawalani- III prize.

An orientation programme for B.Sc. I students was organized on 11/10/21. Students were introduced to laboratory etiquettes, importance of microbial techniques, etc., through videos and power-point presentation. Dr. Nandini Phanse & Mrs. Kiran Paliwal addressed the students.

A poster competition on “AIDS awareness and prevention” was organized to observe World AIDS Day, 01/12/2021. The event was organized under the aegis to Post Graduate & Under Graduate development programme of the college. An exhibition of these posters was held on 02/12/21 at the Microbiology department. Students enthusiastically participated in the event. There were 25 posters from UG category and 10 posters from PG category of the contest. Dr. Pravin Kekre and Dr. Deepa Vanjani were judges of the contest. Winners of UG category: Sakina Cyclewala-I prize, Dikshika Chouhan-II, Shrishti Dwivedi-III. Consolation Prizes : P. Laxmi Rao & Prathana Patel. PG category : Pratima Soni-I prize, Rahul Ahir-II prize, Pooja Kushwah & Priya Prajapat-III prize. Consolation Prize: Priti Geed.

A virtual knowledge sharing programme on “ How to crack Interview & Impressive CV Building” by Prof. Swapna Tambankar of IBS, Mumbai, was organized in collaboration with ICFAI Business School on 14/8/2021. The programme was graced by Principal, Dr. Kiran Dixit, Administrative Officer Dr. R.C Sanghvi, Heads of department & faculty members. Dr. Mahima Golani introduced the speaker, Dr. Nandini Phanse proposed vote of thanks.

Informative posters of Nobel Prize in Physiology/Medicine-2021 and Strategies of vaccine production were displayed in the Knowledge Gallery in December 2021.

Faculty Upgradation and Achievements:

Dr. Nandini Phanse delivered an expert talk at Shri Cloth Market College of Professional Studies on 16/12/2021. Dr. Phanse completed two training programmes on Immunology in July and October 2021, respectively. She attended an International faculty development programme and a National Conference. She was appointed as reviewer of a research publication for Archives of Microbiology, a Springer Nature Journal.

Ms. Kiran Paliwal and Ms. Shraddha Dehure presented research papers at the virtual 6th Asian PGPR National Conference organized by Barkatullah University, Bhopal, (3-4 September 2021). Ms. Vartika Mishra, Ms. Darshana Dusane & Dr. Nandini Phanse were co-authors. M.Sc. Microbiology students participated in the Rangoli Competition organized during the conference. Purva Desavare received the I prize, Priti Geed -II prize, Shraddha Vagde -III prize.

Ms. Vartika Mishra and Dr. Phanse presented a research paper at Madhya Pradesh Vigyan Sammelan 2021 organized at IIT, Indore (22-25 December 2021).

Students of Microbiology participated in an online survey on “Literacy of antibiotic use.”

Department of Electronics & BCA

For holistic development of our college students department in collaboration with ICFAI Business School conducted an online knowledge sharing programme on “ How to Crack Interview & Impressive CV”. The session was conducted by Professor Swapna Tambankar from IBS Mumbai on 14/08/2021 on Zoom platform. Dr. Vimal Sharma appointed Member, Governing Body of college on 21/12/2021. Prof. Vashali Bhale appointed as manager of college Badminton team.



Chemistry Department

Departmental Activities:

- Under PGAD programme, the department organized a poster competition on "How can we overcome from Pandemic situation (COVID-19)" for all PG students on 03/12/2021. Ms. Himanshi Chaurasia and Mr. Vishal Gole (M. Sc. III sem. Zoology) won 1st position; Ms. Muskan Tiwari (M. Sc. III sem. Chemistry) won 2nd position and Ms. Ankita Paul (M. Sc. I sem. Physics) won 3rd position. Dr. Nandini Phanse was the judge and Prof. Pragna Desai was the convener of this competition.
- The department and Career Guidance Cell organized an online quiz "JQL- 2021" for UG students in coordination with Jaipuria Institute of Management on 13/12/2021. The event was conveyed by Dr. Dhananjay Dwivedi.
- Dr. Mushtaq Ali, (retired Prof.) delivered a guest lecture on Photochemistry of Alkenes to M. Sc. III sem. Chemistry students on 09/12/2021.

Ph. D. viva-voce of the following research scholars was held in the department on virtual and open platform -

S. No.	Name of Research Scholar	Research Guide	Date of viva-voce
1.	Ms. Neha Sengar	Dr. A. K. Gharia	19-07-2021
2.	Mr. Mohit Chouhan	Dr. Kumud Modi (Co-guide)	15-09-2021

Pre-Ph. D. viva-voce of the following research scholars was held in the department on virtual platform -

S. No.	Name of Research Scholar	Research Guide	Date of viva-voce
1.	Ms. Supriya Chouhan	Dr. A. K. Gharia	18-09-2021
2.	Ms. Monika Sanyal		09-10-2021

Research Paper Publication:

Faculty	Title of Paper	Journal	ISSN No.
Dr. Ketan Topiwala	Synthesis and characterization of benzylidene derivatives of benzothiazole.	International Journal of Research in Applied Science and Engineering Technology (IJRASET), Vol.9 Issue-VIII Aug. 2021	ISSN No. 2321-9653 (Impact factor - 7.429)
Dr. Ketan Topiwala, Dr. Rashmi Sharma & Dr. Darshana Rodric	Ultrasonic study of molecular interactions and compressibility behaviour of samarium soaps in benzene-DMSO mixture.	(IJRASET), Vol. 9 Issue IX Sept. 2021	ISSN No. 2321-9653 (Impact factor - 7.429)
	Microwave assisted synthesis and characterization of substituted pyrazoline derivatives.	International Journal of Innovative research in Technology. e-Journal vol. 8 Issue 4, Sept. 2021	-
Dr. Dhananjay Dwivedi	Seasonal variation of Physicochemical parameters in water stream of Mahi River in M.P. region, India.	Journal of emerging tech. and innovative research (JETIR) (an International Scholarly open access peer reviewed, referred journal) Oct. 2021 volume 8, Issue 10.	ISSN-2349-5162 (Impact factor - 5.610)
Dr. Dhananjay Dwivedi & Dr. Vandana Sharma Choubey	Kinetics and mechanism of micellers catalysed permanganate oxidation of L-Glutamic acid in acidic medium in	JETIR, Oct 2021 volume 8, Issue 10.	

Participation in Conference/Webinar :

S. No.	Faculty	Webinar (National) attended
1.	Dr. Ketan Topiwala	01
2.	Dr. Dhananjay Dwivedi	01
3.	Dr. Rashmi Sharma	01
4.	Dr. Darshana Rodric	02

Dr. Ketan Topiwala, appointed member of selection committee of University Pistol shooting (men and women) team by DAVV, Indore. He was also appointed as Master Trainer for MP Panchayat Election of 2021-22.



Poster Competition held in Chemistry Department



Dr. Mushtaq Ali giving lecture to M.Sc. Chemistry students



Ph. D. viva-voce of Mr. Mohit Chouhan



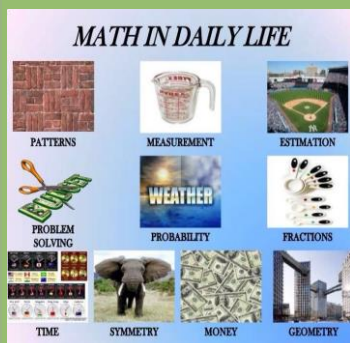
Dr. Dhananjay Dwivedi at department of Forensic Science, Holkar Science College, Indore



सपनों की उड़ान संस्था द्वारा आयोजित राष्ट्रीय समागम में डॉ. ज्योति सिंह



डॉ. ज्योति सिंह की ऑनलाईन साहित्यिक कार्यक्रम में सहभागिता



Dr. Dhananjay Dwivedi invited as resource person and delivered two expert lectures on Water quality complication, restoration and environmental conservation on 04/08/2021, organized by IPS Institute Indore, sponsored by AICTE and on Chromatographic Techniques in a certificate course organized by Govt. Holkar Science College, Indore on 07/12/2021. Dr. D. Dwivedi also attended meeting of board of studies at department of Forensic Science, Govt. Holkar Science College, Indore.

Dr. Rushina Natu, Dr. Vandana Sharma Choubey and Ms. Rachana Dwivedi were the members of college admission committee.

Hindi Department

आधारभूत पाठ्यक्रम के अन्तर्गत सत्र 2021-2022 में हिन्दी विभाग द्वारा नई शिक्षा नीति के द्वारा निर्दिष्ट पाठ्यक्रमों के शिक्षण का दायित्व निभाया गया। इस सत्र में हिन्दी के पाठ्यक्रम एवं पर्यावरण विषय का अध्यापन किया गया। व्यावसायिक पाठ्यक्रम के पर्यटन परिवहन और यात्रा सेवाएँ विषय का अध्यापन भी किया। इस सत्र में शिक्षण ऑफलाईन पद्धति से ही पूर्ण किया जा रहा है।

सत्र की पूर्वाह्न अवधि में डॉ. ज्योति सिंह ने महाविद्यालय की विभिन्न गतिविधियों में संयोजक एवं सदस्य की भूमिका निभाई, जो निम्नानुसार हैं -

- प्रवेश समिति में सदस्य के रूप में रहीं।
- नोडल अधिकारी नियुक्ति की गई। इसके अन्तर्गत इन्होंने मतदाता परिचय पत्र बनाने हेतु विद्यार्थियों को सजग किया। जीवन थापा व यशराज पटेल (सी.3बी) को ब्रांड एम्बेसेडर बनाया गया। इसके अन्तर्गत पोस्टर प्रदर्शनी का आयोजन किया गया।
- दिनांक 13.8.2021 को मूंदी में "भक्ति सगुन काव्य धारा" राष्ट्रीय संगोष्ठी में मुख्य अतिथि वक्ता के रूप में सम्मिलित हुई।
- मीडिया लिटरेसी ऑफलाईन सेमिनार एवं 4 ई वेबिनार में सहभागिता।
- 7 ऑनलाईन राष्ट्रीय अन्तराष्ट्रीय काव्य पाठ कार्यक्रम में हिस्सा लिया एवं 8 साहित्यिक कार्यक्रम का संचालन किया।
- 2021 के इन्दौर लिट-फेस्ट एवं लिट-चौक में सहभागिता एवं मंच प्रस्तुति।
- 10.2.2021 बेडमिन्टन (पु.) दल के साथ प्रबन्धक दल के रूप में आय.के.डी.सी. गई।
- साहित्यिक समूह शुभ-संकल्प के दो कार्यक्रमों में सहभागिता।
- उनकी आठवीं शोध विद्यार्थिनी संगीता बघेल की पी.एच.डी. मौखिकी ऑनलाईन करवाई गई।
- 26 सितम्बर 2021 को अखिल भारतीय लघुकथा सम्मेलन में सहभागिता की।
- राष्ट्रीय तैराकी स्पर्धा में दिनांक (19.12.2021 से 27.12.2021) तक वि.वि. के दल की प्रबंधक बन भुवनेश्वर गई।
- दिनांक 29.12.2021 से 30.12.2021 अन्तराष्ट्रीय महिला समागम एवं अखिल भारतीय महिला साहित्य समागम में सहभागिता की।

डॉ. तृष्णा शुक्ला

- प्रकाशित शोध पत्र : "आत्मा का सत्य और शिल्प: बापू के विचार", शोध समग्र, मधुर अक्षर प्रकाशन: सामाजिक सांस्कृतिक व साहित्यिक पुनर्निर्माण की पत्रिका।
- प्रकाशित शोध पत्र : "स्वाधीनता की वाणी हिंदी" नवीन शोध संसार अक्टूबर- दिसंबर 2021।
- सत्र 2021-2022 की प्रवेश समिति के सदस्य की भूमिका निभाई।
- 5 ई.वेबिनार आयोजन में सहभागिता निभाई।
- महाविद्यालय वार्षिक पत्रिका समिति में 2021 में सदस्य के रूप में सम्मिलित किया गया।

Mathematics Department

चार्ट प्रदर्शनी : दिनांक 07.12.2021 मंगलवार को पी. जी. एकेडमिक डेवलपमेंट प्रोग्राम के अन्तर्गत गणित विभाग में एक दिवसीय चार्ट प्रदर्शनी का आयोजन किया गया। जिसमें Maths Used IN Daily Life, Map OF Mathematics, Relation Between Maths And Music आदि विषयों पर विद्यार्थियों ने चार्ट बनाए। कार्यक्रम का उदघाटन प्रार्चाय डॉ. किरण दीक्षित ने किया। प्रदर्शनी में कुल 27 चार्ट बनाए गए। डॉ. प्रवीण केकरे (भौतिकी विभाग) एवं श्री संजय शर्मा (कम्प्यूटर विज्ञान विभाग) निर्णायक के रूप में उपस्थित थे। प्रथम पुरस्कार सतीश वर्मा, द्वितीय पुरस्कार अकिंता कुल्मी एवं तृतीय पुरस्कार पलकेश राठी एवं अंजली पटेल को दिया गया। प्रदर्शनी में कुल 58 Visitors अवलोकन करने आए एवं विद्यार्थियों ने भी उत्साह से भाग लिया। संपूर्ण कार्यक्रम का संयोजन रिकू जैन ने किया।

गणित दौड़ प्रतियोगिता : यू. जी. एकेडमिक डेवलपमेंट प्रोग्राम के अन्तर्गत गणित विभाग में गणित समूह के विद्यार्थियों के लिए गणित दौड़ प्रतियोगिता का आयोजन दो चरणों किया गया। जिसमें 100 विद्यार्थियों अपने नाम दर्ज कराए। प्रतियोगिता का प्रथम चरण दिनांक 20.12.2021 का आयोजन किया गया।



Ms. Krishina Joshi Awarded with Honorary Ph. D. Degree



Ph. D. open viva-voce of Mr. Balram Baraiya



Rangoli Competition "Causes and prevention from AIDS"

जिसमें मेरिट के आधार पर 12 विद्यार्थियों का चयन अगले चरण के लिए किया गया। जिसका आयोजन 22.12.2021 को किया गया। इस लेवल में अधिकतम अंक समय के आधार पर प्रथम द्वितीय एवं तृतीय स्थान पर विद्यार्थियों पुरस्कार को दिया गया। प्रथम स्थान पर विशाल चौहान, द्वितीय स्थान पर शुभम जायसवाल एवं तृतीय स्थान पर विशाल साहू रहे। संपूर्ण प्रतियोगिता का संयोजन प्रो. भूपेन्द्र सिंह गहलौत ने किया। साथ ही गणित विभाग द्वारा 22.12.2021 को रामनुजन का जन्म दिवस राष्ट्रीय गणित दिवस के रूप में मनाया गया। इस आयोजन में गणित दौड़ प्रतियोगिता एवं चार्ट प्रदर्शनी के प्रथम द्वितीय एवं तृतीय स्थान प्राप्त प्रतिभागियों को पुरस्कृत किया गया कार्यक्रम की मुख्य अतिथि प्रार्चाय डॉ. किरण दीक्षित थी।

Botany Department

Ph. D. open viva voce of Mr. Balram Baraiya was held in the department under the co-supervision of Dr. Sudip Ray on 14/07/2021.

Staff Achievements

Dr. Sudip Ray

- Authored a book series for B.Sc. III year (Paper II) entitled "Cell Biology, Genetics and Biotechnology" under Yash Raj Publication Indore.
- Appointed as Master Trainer for MP Panchayat Election of 2021-22.
- Evaluated Ph.D. thesis of Swami Ramanand Teerth Marathwada University Nanded, Maharashtra.
- Participated and successfully completed an online National Quiz on Botany organized in the honour of Dr. D.A. Patil, an eminent Taxonomist by Department of Botany, Shri D.H. Agarwal Art, Shri Rang Avadhoot Commerce and Shri C.C. Shah and Shri M.G. Agarwal Science College, Navapur, Nandurbar on 10/09/2021.

Dr. Madhavi Adhav, Dr. Smita Shrivastava and Dr. Preeti Parashar attended a nine day Faculty Development Program on NAAC Accreditation Framework: An overview in respect of New Guidelines organized by SAGE University from 17 to 25 August 2021.

Participation of Faculty members in different online program :

S. No.	Name	International Webinar	National Webinar
1.	Dr. J. Sikka	-	2
2.	Dr. S. Ray	2	2
3.	Dr. Madhavi Adhav	-	2
4.	Dr. S. Shrivastava	-	2
5.	Dr. P. Parashar	3	2

Research Paper Publication:

- Krati Ghavri and Dr. Madhavi Adhav jointly published two research papers entitled 'Thin layer chromatographic analysis in the ethanolic leaf extracts of Thevetia peruviana (Pers) K. Schum Thevetia white' in International Advanced Research Journal in Science, Engineering and Technology Vol. 8, Issue II, Nov. 2021 pp. 29-33 and 'Infrared and Ultraviolet spectroscopic analysis of ethanolic leaf extract of Thevetia peruviana (Pers) K. Schum Thevetia orange' in International Advanced Research Journal in Science, Engineering and Technology Vol. 8, Issue 10, October 2021 pp. 110-116.
- Dr. Smita Shrivastava published two research papers entitled "Yield and Yield parameters in Zea Mays (H405, Chandan-3) in NPE and PE" in International Journal of Agriculture and Environmental Science, Vol. 8 Issue 6, Dec.2021 pp. 4-6 and "Plant Height at Successive Crop Growth Stages of Maize varieties (H405 and Chandan-3) in NPE and PE in International Journal of Agriculture and Environmental Science. Vol. 8 Issue 6, P. No. 7-9, Nov-Dec. 2021.
- Dr. Preeti Parashar Published a research paper entitled "Ethno-veterinary Plants in the treatment of Cattle intestinal worms in the Nimar region (M.P.) in International Journal of Innovative Science, Engineering and Technology, Vol. 8 Issue 7 July 2021.

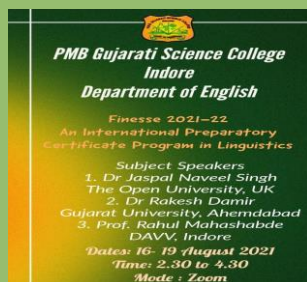
Biotechnology Department

The department organized Rangoli competition for B.Sc. (Biotechnology) students on 1st Dec. 2021, to celebrate "World AIDS Day", which depicted causes and prevention from AIDS. The winners were: Ms. Vrinda Mudgal : 1st prize & Ms. Kavita : 2nd prize.

An off campus recruitment drive was organized by the department, for the post of Management trainee sales. It was open for B.Sc. Biotechnology and B.Sc., M.Sc. Microbiology students. Four candidates appeared for the interviews, out of which Ms. Aditi Jain (B.Sc. Biotechnology Final year) was selected and hired for the job. Ms. Poonam Vijaypuriya & Ms. Kriti Joshi were the members of admission committee.



English Department



Poster of Finesse



Dr. Jaspal delivering a talk in Finesse



Dr. Jaspal's session on Linguistics



Talk on Mind Control

The academic session 2021-22 began with classes back to the offline mode. The classes of B.Sc. I, II and III year are on in full swing, apart from the BCA classes. With the NEP in place, Personality Development and Environmental Studies have been added in the I year curriculum.

Apart from the classes, faculty of the department has been involved in research, academic pursuits for self-upgradation, and other college activities.

Departmental Activities:

Online Certificate Programme 'Finesse'

The department conducted its annual certificate workshop Finesse in the online mode from 16 to 20 July 2021. The topic was An Introduction to Linguistics and it was open for research scholars, faculty members and PG students. The participants were from across India and the galaxy of resource persons and their topics included:

- Language, Politics & Identity : Dr. Jaspal Naveel Singh, Open University, United Kingdom.
- Use of Technology in Linguistics: Dr. Rakesh Damir, Gujarat University, Ahmadabad.
- Speech, Language, Hearing and the Brain: Prof. Rahul Mahashabde, DAVV, Indore.

Dr. Vanjani was the convener of the activity, while Prof. Kusum Joshi was the co-convener.

Talk on Mind Control

The department organized a talk on Mind Control on 30/11/2021. The talk was delivered by Swami Amrit Gaur Das from ISKON in the Electronics lab and was attended by students, faculty and non teaching staff.

Dr. Deepa Vanjani

- Published a research paper titled *Folk Elements in "Shah Jo Risalo" of Shah Abdul Latif* in Socio-Cultural Indicators of Indigenous People: A Study in Regional Cuisine, Costumes and Folk Art, Society, Culture and Literature", Volume II .
- Presented a paper titled *The Politics of Language Minotarasation* presented in online DN-27 International Conference organized by Discourse Net International Association for Discourse Studies and Open University of UK on 11-12 July 2021.
- Ph.D. awarded to her two research scholars on 17 and 18 November 2021 respectively.
- Member, Working Committee, State Women's Press Club.
- Convener: Press Committee, Women Self-defense & Women's Grievance Redressal cell of the college
- Nodal Officer: Amrit Mahotsav
- Judge: Poster-Making competition on World Aids Day on December 1 organized by the Microbiology department.

Ms. Kusum Joshi

- Presented a paper entitled 'Representation of Cultural Change in Kazuo Ishiguro's An Artist of the Floating World' in International Conference organized on 17 July 2021.
- Delivered an online expert lecture for the students of AISECT Compefeeders, College, Rau.
- Attended a 26 day Faculty Induction Programme (Orientation) organized online by HRDC, DAVV, Indore from 20/08/2021 to 16/09/2021.
- Done PG diploma in Translation Studies from IGNOU.
- Co-convener: College Magazine and Newsletter committee.
- Member: Sports Committee.

Physics Department

An interaction of B.Sc. students with the alumni of Physics department was held on 27/09/2021 in which Mr Shivam Kushwah (IIT Indore) and Mr. Ankit Farkiya (VNIT Nagpur) guided our CS final year students.

An industrial visit to Digital Integrator Pvt. Ltd., a pioneer industry in microprocessor and micro controller based application, for PG and UG final year students was organized on 24/10/2021.

The department organized an essay competition and a poster making competition for M.Sc. (Physics) students on 01/12/2021 and 03/12/2021 respectively.

An expert lecture of Dr. Mohd. Shakil Qureshi (Medicaps, University, Indore) was organized for PG Students on the topic "Non linear optics and basic quantum information processing" on 13/12/2021.

Dr. P.A. Kekre

- Presented two research papers.
- Attended five webinars and one international conference
- Attended 35th Annual IAPT Convention 2020-2021 and National seminar organized by IAPT RC-9 and Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore.
- Nominated in DAVV sports committee by the Vice Chancellor.

Dr. Ashish Dubey

- An article on "Dr. Ashish Dubey's Physicist Photographer Obsessed with an Indian lake" was written by Nini Huang which was published in Artbuzz (<https://artbuzz.in>).



Expert lecture for PG students held in Physics department



Prof. Mayur Mota giving lecture in a workshop organized by the college



Lt. Dron Mishra (Infantry) receiving best ANO award



Ph. D. viva-voce held in Zoology department

Prof. Mayur Mota

- Attended a 7 day FDP on Micro Teaching to Peer Learning organized by Ramanujan College, Teaching & Learning center, Delhi University with MHRD from 5 to 11 October 2021.
- Invited as a Subject Expert for teacher's interview at Shri Cloth Market Inst. of Professional Studies in November 2021.
- Convener, IQAC of our college for the academic year 2021-22.
- Prepared progress report card for 1st year students of CS and PCM.

Dr. Sanjay Shah

- Published one research paper entitled in B. Aadhar International peer-reviewed indexed research journal. "Antibacterial properties of Transition metal complexes with Schiff base ligands". in August 2021
- Attended a six day international FDP on Advance Topics in Physics organized by Dept. Physics, from 12 to 17 July 2021.
- Invited as the Judge for college level Debate competition organized under the celebration of Azadi ka Amrit Mahotsav 21/12/2021.

Dr. K. Venkataraman

- Member of organizing committee for the India International Science Festival (IISF) - 2021, organized by the Department of Science and Technology and CSIR, and held in Goa from 10-13 December, 2021.
- Was the Chair Person in international virtual Conference on "Global Advanced Trends in Applied Mathematics, Physical Sciences and Humanities (ICGAMPH - 2021)", organized by Department of Science and Humanities, Sri Ramakrishna Institute of Technology, Pachapalayam, Coimbatore held on 21st October, 2021. He is also a member of the advisory committee of the conference.
- Co-Convener of Madhya Pradesh Vigyan Sammelan(MPVS)-2021, organized by IIT, Indore and MPCST, Govt. of MP, held in IIT, Indore from 22-25th December 2021.

Mr. Dron Mishra

- Attended two national webinars.
- Participated in a one day national level panel Discussion on "National Education Policy(NEP) 2020" organized by North Eastern Hill University, Shillong, Meghalaya.
- Attended a one day workshop on "Role of Mathematics Software in Real Applied and computational field organized by SAGE University, Indore.
- Organized a one day National webinar on "Nation Integration" in September 2021.
- Invited as the Chief Guest in Medicaps University on the occasion of Rashtriya Ekta Diwas Pledge.
- Invited as the Subject Expert for teacher's interview at Shri Vaishnav Academy in October 2021.
- Worked as a member of selection committee of NSS students for the Republic Day Camp in October 2021.
- Appointed as the Camp Adjutant in Inter Directorate Sport Shooting Championship 2021 organized by N.C.C Indore Group in September 2021.
- Invited in a meeting conducted by the collector on the issues regarding SC & ST students' hostel facilities.

Ms. Reena Bhatt published one paper entitled "Antibacterial properties of Transition metal complexes with Schiff base ligands" in B. Aadhar International peer-reviewed indexed research journal on 7/08/2021.

Dr. P.A. Kekre, Dr. K Venkatraman, Dr. Sanjay Shah and Ms. Reena Bhatt attended a five day international FDP on Nanomaterials from 23 to 27 November 2021 organized by Dept. of Physics, St. Mary College, Thoothukudi Tamil Nadu.

Zoology Department

Pre-Ph.D. Viva-voce of two students under the guidance of Dr. G. D. Sharma and one student under the guidance of Dr. Rajesh Dixit was conducted in the department.

Dr. G. D. Sharma:

- Published a research paper entitled "Adverse impact of Heat Stream on Bovine development causes and strategies for Mitigation" in Open Access Books citations in Web of Science Intech Open Authors and Academic Editors. Peer Reviewed Research Papers.
- Published a research article entitled "GC-MS analysis and antiteedent activity of Azaridia cht. Indica-leaf extract stechnolock plant Biology and Research."
- Conducted online viva-voce of M.Sc. II sem. practical Exam of Mata Jija Bai Girls P. G. College, Moti-tabela, Indore on 13/07/2021.
- Attended meeting of Board of studies for the syllabus of Zoology P. G. organized by Mata Jija Bai Girls P.G. College, Moti-tabela, Indore.



Dr. G. D. Sharma at National Translation Review workshop



Certificate of International Virtual Ram Run awarded to Dr. G. D. Sharma



Ganesha-making workshop



Mr. Prasheel Patidar giving lecture on Cyber security

- Participated in “Blood Donation Camp” and donated blood in Choithram Hospital & Research Centre for thalassemic child on 5/08/2021.
- Attended National Translation Review Workshop as a subject expert (Zoology) at Govt. Madhav Science College, Ujjain organized by National Translation Mission, Central Institute of Indian Languages, Ministry of Education, Govt. of India, Manasagangotri, from 1 to 7/12/2021.
- Invited as guest lecturer in Govt. Girls P. G. College, Motitabela, Indore and delivered lecture on “Taxidermi” to P.G. students on 20/12/2021.
- Participated in International Virtual Ram Run & completed 21 Km. successfully in 2.23Hrs. on 7/10/ 2021, Bib No. R20211000129.
- Completed 66.5 Km. run in 12 Hrs. 10K stadium Run jointly organized by DAVV, Indore and Indore supercharger at synthetic track of DAVV, Khandwa Road, Indore, Bib No. 12013 and won 4th position (age group of 50-60 years).
- Participated in colour run- cairn pink city half marathon 6th edition on 24-12-2021 & completed 10 kms. run in 1.5 hrs. successfully.

Dr. Vibha Dave was the judge of college level Rangoli-making competition organized to celebrate Azadi ka Amrit-Mahotsav on 18/12/2021.

Dr. Rajesh Dixit published a research paper on the topic “Seasonal incidence of eco-parasites in catfishes of District Indore, Madhya-Pradesh, India” in Res. Jr. of Agril. Sci. 12 (1): 235-241, p-ISSN: 0976-1675, E: ISSN: 2249-4538.

Dr. Raksha Modi:

- Published a research paper in the Special issue of an International Journal on Biological Sciences titled, “Histopathological study of effect of toxicant ($ZnSO_4$) on HPG axis of male Anabas testudineus”, 9(1): 14-21, ISSN No. : 0974-6065; NAAS rating 3.14.
- Published a research paper in International Journal of Creative Research Thoughts titled, “Histological study of effect of heavy metal on Hypothalamo-Neuro hypophysial System of Teleost”, 9(12): c1-c7, ISSN No :2320-2882; IF-7.97.
- Presented a paper on the topic “The socio-economic impact of Covid-19, strategies and recovery to survive” in SAGE National Conference, Aatmnirbhar Bharat organized by SAGE university on 24/07/2021.

Dr. Shitika Barkale conducted online viva-voce of M.Sc. II sem. Biotechnology Practical of Mandsaur University, Mandsaur on 6/08/2021 & 10/08/ 2021. She is member of PG Academic cell of our college. She was also member of Inter-college district level youth-festival 2021-22 & was the scorer in a quiz conducted by our college in the same event.

Computer Science & Information Technology Department

The department organized a two day Ganesha making workshop on both online and offline mode as well as live streamed on youtube on 3 and 4 September 2021. Ms. Priyasi Jain was the convener of this workshop.

An orientation program for CS students was organized on 24/12/2021. Prof. Mayur Mota was the chief guest of this event.

An expert lecture on Cyber security and ethical hacking was delivered by Mr. Prasheel Patidar from NND Infosec to CS students. Mr. Vaibhav Patel, Chairman NND Infosec was also present in the event.

A poster on Machine Learning and Cyber Crime, prepared by Ms. Anjali Shivhare and Ms. Priyasi Jain, displayed in Knowledge Gallery.

Mr. Sanjay Sharma was the Judge in a Chart competition organized by Mathematics department. Ms. Manisha Shah was the judge for college level Rangoli competition organized to celebrate Aazadi ka Amrit Mahotsav. Ms. Priyasi Jain was the team manager of our Kabaddi team and taken the team to Mata Laxmibai PG College, Kila Maidan, Indore.

Mr. Govind Kaithwas coordinated a one day NSS camp of our college unit organized at Gram Kalasura, Betma. He also attended a one day Orientation Program organized by DAVV at Women Polytechnic College, Rajendra Nagar, Indore.

Mr. Sanjay Sharma, Ms. Manisha Shah, Mr. Govind Kaithwas and Ms. Priyasi Jain completed Faculty Induction Program (Orientation) of 28 Days.

NSS Unit



Flg. Offr. Manish Joshi (Airwing) receiving best ANO award



Induction programme for NSS volunteers



Judges assessing the rangolis



Slogan writing under the aegis of self-defence

Induction Programme for NSS volunteers was organized on 16/11/2021. Dr. Sachin Sharma, District coordinator NSS was the chief guest of this program.

An online lecture on Indian Constitutional Day was organized on 26/11/2021. Dr. Nidhi Tiwari from Government Law College, Indore was the chief guest of the program.

A blood donation camp with red ribbon club of college was arranged at MY hospital, Indore on 30/10/2021.

A program on World AIDS day was organized by NSS volunteers in Electronics lab on 02/12/2021, Dr. Prakash Gadwal, NSS Coordinator DAVV, Indore was the key note speaker on this occasion.

A one day NSS camp was organized at Kalasura village at Betma Tehsil. Seventy NSS volunteers participated in the camp. Volunteers organized different activities like games, nukkad natak, patriotic songs and slogan writing for school students of the village. Tree plantation was also done at school premises. The camp was coordinated by Mr. Govind Kaithwas.

Amrit Mahotsav

Convener: Dr. Deepa Vanjani

Various activities are being organized in the college under the aegis of 'Amrit Mahotsav' to commemorate 75 years of Indian Independence as per the guidelines of the Department of Higher Education, Bhopal.

Ayush Aapke Dwar

On 4/09/2021 a talk on 'Ayush Aapke Dwar' was organized in the college. The speaker was Dr. SP Singh, Principal, Shri Gujarati Samaj Homeopathy College, Indore. GB Chairman Shri Bharat Bhai Bavisi, Principal Dr. Kiran Dixit, AO Dr. Rashmikant Sanghvi and faculty members were present on the occasion, apart from the non-teaching staff.

POSTER MAKING

On 10/11/2021 the college organized poster-making activities. The topic of the activity was *Greener and Sustainable Future for Every Child*. The posters made by students were then displayed in the Microbiology department. Many faculty members visited the venue to motivate the participants.

Article and Poetry Writing

An article and poetry-writing competition is being organized in the college in collaboration with the literature group of the city *Shabd Shilp* on the topic 'My Country, My Dream'. This is part of the Amrit Mahotsav activities being organized by the city based literature group Shabd Shilp. The selected entries will be published in an anthology and distributed in libraries. This activity is still ongoing.

Rangoli Making Competition

On 18/12/2021, a rangoli making competition was organized in the college. The theme was *Freedom Movement of India*. Dr. Vibha Dave and Prof. Manisha Shah were the judges. Krishna Yadav of B.Sc. II year won the first prize, while Aashi Agrawal and Prarthna of B.Sc. I year stood second.

Debate Competition

A debate competition was organized in the college on the topic 'Takniki Vikas se hi Desh Ka Vikas Sambhav Hai'. The judges for the same were Dr. Sanjay Shah and Dr. Mahima Golani. The event was conducted by Prof. Vartika Mishra from department of Microbiology. Divya Parnaik of M.Sc. Microbiology won the 1st prize in favour of the topic and Aashi Agrawal of B.Sc. I year was given the II prize. Against the motion Krishna Makwana of B.Sc. II year won the 1st prize while Prarthna Patel of B. Sc. I year stood II.



*Workshop on National
Education Policy-2020*

Patron:
Shri Bharat Bhai Bavisi
[Chairman]

Chief Editor:
Dr. Kiran Dixit [Principal]

Convener:
Dr. G. D. Sharma

Co-convener:
Ms. Kusum Joshi

Self-Defence

Convener: Dr. Deepa Vanjani

Self Defence Talk

A talk on women self-defence techniques was organized on 26/08/2021 with Mr. Vishal Sharma as the expert speaker. Mr. Sharma is winner of Arjun Award by the government of Madhya Pradesh in 2008. He is also a martial arts expert. The program was attended by ladies teaching and non-teaching staff members.

Self Defence Demonstrative Talk

A demonstrative talk on women self-defence was organized on 17/09/2021 with Mr. Vishal Sharma as the expert speaker. Girl cadets of NCC Air Wing participated actively in the program. The program was attended by ladies teaching and non-teaching staff members.

Slogan Writing

On 10/11/2021, a slogan writing activity was organized in the college. This was under the aegis of the self defence activities being organized as per the guidelines of the honourable Chief Minister. In the activity students of UG and PG prepared slogans on the spot on the theme Safety and Rights of Women.

National Education Policy-2020

A four day workshop on National Education Policy was organized in our college for B.Sc. I year students and faculty members in the month of September 2021. The workshop was conducted by Prof. Mayur Mota.

A “**Workshop**” regarding the guidance of field projects/internship/apprenticeship/ community engagement and services under National Education Policy-2020 was also organized on 27/09/2021. Mr. Swapnil Parkhya, Dr. (Ms.) Mayuri Thanwar, Mr. Santosh Choudhary, Mr. Pradeep Chhajed, Mr. Rajendra Patel and Mr. Sunil Vyas were the experts for this workshop. The programme was conducted by Prof. Mayur Mota and Dr. Ketan Topiwala.

From:

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