



Shri Suresh Chandra Patel
Chairman G.B.

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Shri Gujarati Samaj, Indore

PMB Gujarati Science College

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

PERIHELION



Quarterly Newsletter -
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From the Principal's Desk

The New Year ushered in the new semester of this academic session 2016-2017. In the first week of January, theory classes of all subjects started and soon practicals also commenced in the laboratories of respective departments. The departments were involved in arranging departmental activities for students' upgradation, while at the same time staff members were involved in their academic upgradation through seminars, conferences, workshops, paper presentations and publications and research projects. The annual uncton of the college was organized and new activities were introduced to maximize

News at a Glance

Shri Suresh Chandra Patel assumed charge as Chairman of the college Governing Body.

Dr. Nandini Phanse presented a research paper at International conference on-"Environmental Management and Sustainability", organised by SIES-IEM, Nerul, Navi Mumbai (04-06 January 2017). The paper was also published in the conference proceedings.

Dr. K. Venkataraman was Jury Member, Innovative Science Fair for Engineering students, organised by Medicaps University, on 28 February 2017.

Papers presented in International Conference on 'Ecosystem Response to Global Environmental Change & Their Impact' (ERGECI - 2017) organized by the School of Life Science, DAVV & P.G. department of Zoology, AIMS, Dhamnod in collaboration with Zoological Society of India:

Dr. J. Sikka and Ms. Charulata Shah

Dr. Rishina Natu on Drug Design

Dr. Vibha Dave, **Dr. Raksha Modi** & **Dr. Chetna Savita** on 'Ecosystem Responses to Global Environmental Changes and Their Impact'

Dr. J. Sikka and **Dr. S. Ray** were co-chair persons in various sessions of International

participation of students. The cultural, literary, and sports activities that were part of the annual function 'Excellence -2017', were successful due to team efforts of staff and students. Our faculty members were also invited as expert speakers, resource persons and judges in various schools and colleges. I congratulate the students who have acquired meritorious positions in the college or have won prizes in various inter-college competitions. My best wishes to all students for the forthcoming examinations.

Conference on ERGECI 2017 organized by School of Life Science, DAVV & Adarsh Institute of Management and Science Dhamnod, 16-18 Feb., 2017.

Dr. Vibha Dave was honoured with a medal & certificate of the Fellow Membership Award by the Zoological Society of India.

Dr. Jyoti Singh and **Dr. Trishna Shukla's** research papers were published in International Conference proceedings on 'Changing Trends of Election campaign in Democratic Countires, Kasturbagram Rural Institute, Indore.

Dr. Deepa Vanjani was invited as subject expert for delivering three lectures on 'Communication as Employability Skill' at Industrial Training Institute (ITI), an ISO 29990:210 certified institute, at Tonk khurd, Dewas on 4/03/ 2017. Her paper titled *Shakespeare on Celluloid* was published in *Daath Voyage: An International Journal of Inter disciplinary Studies in English*, ISSN 2455-7544, Vol. 1, No. 4.

Shri Dron Mishra presented a paper on "Fabrication of Tungsten Coated Graphite Tiles" in National Conference on Advances in Science & Technology at Indian Military Academy, Dehradun on 24th - 25th March 2017.

Computer Science and Information Technology Department



*Android Technology Workshop
Computer Sc. and IT Department*



*Android Technology Workshop
Computer Sc. and IT Department*



*Mr. Darpan Chopra- Pharma Skills
Workshop
Microbiology Department*



*Virtual Lecture by
Dr Arvind Deshmukh
Microbiology Department*



*Praveen Saini being awarded 1st prize in
Inter College Singing Competition
Student Achievers*

Mr. Sanjay Sharma, Principal Representative, coordinated and guide the activities of various committees in the annual function of the college.

Ms. Manisha Shah was the convener of Fun-n-Food and Play-Fun, which was introduced as a part of the annual function for the first time in the college. The event was a great success. Mr Govind Kaithwas was convener of the skit staged in the annual function. All the other staff of CS and IT department was members of various committees in cultural and sports activities this year. A one- day workshop on Android Technology was organized by the department 2 March

2017. The speakers in it were Mr. Vidyut Singhai, Mr. Rafay Nabdi and Anurag Jain of RAYS technology.

MsManisha Shah was invited as judge in the inter departmental M.Sc. Extempore competition held in Zoology department on 30-03-2017.

The department arranged a talk by Secretary of All India Mahila Sanskratik Sangthan Mrs. Goyal on International Women's Day On 8 March 2017.

Result of B.Sc. 4th semester (CS) were 96.87% and B.Sc. 4th semester (IT) were 82.35%. Prof. Anjali Ray attended a guest lecture on "M.Tech. Dissertation-4" by Dr. Sanjeev Tokekar (Director -IET DAVV Indore) on 10/12/2016 at Patel College.

Microbiology Department

A Workshop on "Techniques in Pharmaceutical Microbiology" PHARMA-SKILLS, a job oriented, skill development workshop on "Techniques in Pharmaceutical Microbiology" was organized from 03 to 11 March 2017. The programme highlights included -Industry Institute Interaction (I-I-I):

To enhance the interaction between of institution and industry, Mr. Darpan Chopra, Lead, QC, Sun Pharma, Dewas, was invited to deliver an expert talk on "Design & Analysis of Biological Assays" on 04 March 2017.

- Virtual Lecture by Dr. Arvind Deshmukh, President, Microbiologists Society, India, on "Techniques & Instruments in Pharmaceutical Research", 06 March 2017.
- Hands-on training on basic & advanced pharmaceutical techniques.
- Peer Learning: Students of M.Sc. Semester IV (Microbiology) volunteered in demonstration and presentation of techniques through power point presentations and videos.

The programme was convened by Dr. Nandini Phanse and Ms. Kiran Paliwal was the coordinator.

Peer Learning Programme

Asim Sarkar, student of B.Sc. Semester VI delivered a lecture on "Antigen and Antibody" to students of B.Sc. Sem IV on 17.02.2017. Ms.Smriti Chouhan was the event coordinator.

Faculty Upgradation

- Dr. Phanse attended a Regional Workshop on "Social Intelligence in Teaching" at MKHS Gujarati Girls College, Indore (18-25 March 2017)
- Dr. Phanse, Ms. Mahima Golani, Ms. Kiran Paliwal and Ms. Smriti Chouhan presented poster papers at the International conference on "Ecosystem response to global environmental changes and their impact" organized by School of Life Sciences, DAVV, and AIMS, Dhamod (16-18 February 2017).
- Ms. Golani attended a National seminar on "Basic & Applied Immunology" at SLS, DAVV (27- 28 January 2017).

NSS Unit

The students of the NSS Unit of the college attended a seven day unit camp at Pigdambar, Rau. They participated in many activities of

community service in nearby areas and cultural activities as well. Thirty students of the unit appeared for the B certificate exam of NSS.



Ms. Anjana Tiwari delivering her talk
English Department



Classroom seminar on Entrepreneurship by
B.Sc. II semester students
English Department



IFMSA Team during the event on
'Depression'
Biotechnology Department



Placement Drive by Duke Thomson
Biotechnology Department



Expert lecture being delivered by Dr.
O.P. Joshi
Botany Department



Dr. Jyoti Singh with the runner-up
Women's Badminton Team of Indore
Division,
Hindi Department

English Department

The department arranged a talk of Ms. Anjana Tiwari, Chief Superintendent Fire Services, Indore on International Women's Day 8 March 2017 on Safety of Women and Cyber Crime. Dr Deepa Vanjani was the activity coordinator. Students of B.Sc. II semester, NCC and NSS Unit cadets attended the talk. A classroom seminar of students of B.Sc. II semester was conducted in which four selected teams of students presented charts on 'Indian Industries'. Ms. Kusum Joshi was the activity in charge.

Charts prepared by participating teams will be used as study material for students in the next academic session. Syllabi of subjects were completed and CCEs of all semesters collected. Ms. Varsha Bhandari, Ms. Kusum Joshi and Dr. Deepa Vanjani were members of various committees in the annual function Excellence 2017.

Ms. Kusum Joshi was one of the judges of the Essay Writing competition for PG

students of the college held on 30/03/2017. Best CCEs submitted by B.Sc. VI semester students have been compiled into charts to be used as study material.

Dr Deepa Vanjani presented a paper titled *Redefining Gendered Spaces* in the National Seminar on 'Urban Gender Spaces' held at IIS University, Jaipur from 17-18 February 2017. She was invited as speaker at Shri Jain Diwakar Mahavidyalaya, Indore on 8 March 2017. As part of her extension activity, her literary group *ShabdShilp* published its group anthology on Kindle, published by Voice Verso on Women's Day, in which story of student of Ankit Verma of B.Sc. IV semester (Biology) was also published.

Ms. Varsha Bhandari, Ms. Kusum Joshi and Dr Vanjani attended a FDP on 'Social Intelligence in Teaching' organized by MKHS Gujarati Girls College, Indore, from 18-25 March 2017.

Biotechnology Department

Ms. Poonam Vijaypuriya and Ms. Kwiti Thakkar were members of dance and food committees in the annual function of the college. Ms. Kwiti Thakkar was member in anchoring committee.

An event on "Depression" was organized by the department on 11th Feb. 2017 in collaboration with IFMSA (International federation of Medical Student Association) to spread awareness about this global mental problem. Medical students of MGM Medical College, Indore gave a presentation on depression's types, causes, symptoms etc., followed by an informative video about how to deal with depression & contribute to the betterment of depressed person's life. About 80 students of Biotechnology and Microbiology attended the lecture and actively participated in the interactive session.

Dr. Priti Vyas, Ms. Poonam Vijaypuriya and Ms. Kwiti Thakkar attended one day regional seminar on "Recent Trends in Physics" on 17th February, sponsored by IAPT RC-9, organized by Physics Department, P.M.B. Gujarati Science College.

A campus Recruitment Drive was conducted on 16th March 2017 for B.Sc. (Biotechnology) final year students. The recruitment was conducted by Duke Thomson's India Pvt. Ltd., which deals with dairy products diagnostics, food biotechnology, microbiology, probiotics, etc. It started with a short aptitude test of 20 minutes followed by the 1st round of interview was conducted. The interviewers were Ms. Vijitha Varghese (Asst. Manager) & Ms. Abha Sharma (Asst. Manager, Administration) from Duke Thomson's. Seventeen students appeared for the test and interview session. Four students namely, Mr. Devisingh Pawar, Ms. Kalpana Soni, Mr. Gaurav Patidar, Ms. Megha Patidar were shortlisted for the second round of interview, which was conducted at the city office. Mr. Gaurav Patidar got appointed for the post of marketing executive.

Dr. Priti Vyas judged an Extempore Speech Competition held on 30th March 2017 conducted by the Department of Zoology in context of 'PG Academic Development Program'.

Student Achievers

Praveen Saini, B.Sc. IV Sem. won 1st prize in Inter-College Singing competition at Rukmani Pannalal Laddha Maheshwari College,

26/02/2017. Ujjawal Sharma, B.Sc. IV semester of NCC Boy's Wing was selected in Army Air Defence Regiment and joined training in Odisha after clearing technical and physical exams.



Botany Department

An expert lecture for M.Sc. students was arranged on 23 /02/2017 on “Speciation spectrum in family Marsileaceae”. The speaker was Dr. D.P. Bhartwaj, Ex-Vice Chancellor, BMOU Kota.

An Expert Lecture was arranged for M.Sc. students of all departments on 25/03/2017. Principal Prof. R.B. Patel was chairperson .Dr. Jaishree Sikka gave an introduction of the department. Dr. O.P. Joshi, Ex. Principal P.M. B. Gujarati Science College, Indore delivered a lecture on the topic “Environmental Awareness in Celebrating Festivals.” The programme was conducted by Ms. Charulata Shah and vote of thanks was given by Dr. S. Shrivastava.

Pre-Ph.D. submission presentation of Ms.P. Parashar was held on 25/01/2017. Her supervisor is Dr C.M. Solanki, Ex Head of Botany Department.

Dr. S. Ray was appointed co-supervisor by DAVV University for Ph.D. thesis of Mr. Balram Balliya. He was appointed as member of committee by DAVV for listing of flora of DAVV campus.

Dr. Madhavi Adhav was invited as judge for science exhibition organized by R.R. M.B. School for session 2016-17.

Ms. P. Parashar was appointed as a judge for Junior Bal Vigyan Science organized by Sahahodaya Group at Sanmati Hr. Secondary School, Indore.

Ms. Charulata Shah was appointed by the College as team leader for Athletics DAVV, Indore.

In the International conference on ERGECI, organized by School of Life Science, DAVV and Adarsh Institute of Management and Science Dhamnod, 16-18 Feb., 2017, Dr. S. Ray and Jitendra Saikhediya published an abstract as also Dr. Manjeet Kaur Arora. She also published an abstract in Sanmantrona 2017, sponsored by Shri Vaishnav Vidyapeeth, Indore.

Dr. S. Ray and Jitendra Saikhediya published a paper in Journal of Association for Plant Taxonomy 2016, Vol.16, ISSN: 09724206.94-98.

Dr. S. Ray, Kamal Alawa and Anuradha Dubey published a paper in Journal of Bioscience Discovery 7(1)60-62 January 2016. ISSN-2229-3469.

Students of B.Sc. VI semester and M.Sc. IV semester attended 60 hour Internship for job oriented projects on Food Preservation, Nursery Techniques and Pharma industries.

Chemistry Department

The Department displayed posters, entitled “Smart Phones Chemistry” and “Science of Chocolates” in the Knowledge Gallery on 10th January, 2017.

On 30th March, 2017 the department organized an essay competition entitled “Applications of Solar Energy in Our Daily Life” for all P.G. students of the college. Dr. A.K. Gharia and Dr. Dhananjay Dwivedi attended a lecture on “Address of Electron in Atoms & Molecules” delivered by Dr. Ghosh (BARC) in GSITS, Indore.

Dr. A.K. Gharia, Dr. Ketan Topiwala and Dr. Dhananjay Dwivedi attended a national seminar on “Frontiers of Chemical Science” organized in School of Chemical Sciences, DAVV, Indore, on 21st March 2017.

Dr. Rishina Natu-

1. Worked as a core committee member for DAVV in Yuva Utsav for state & zonal competitions.
2. Invited as a judge in Maheshwari College for Inter-College dance competition.
3. Represented P.M.B. Gujarati Science College as Chess (women) team member.
4. Invited as a guest lecturer in Digthan (M.P.) by Vivekanand Kendra on the topic “Sanatan Dharm ki Swikaryata”.

➤ Dr. Dhananjay Dwivedi delivered a guest lecture in P.G. College, Dhar on the “Electronic Spectra & Magnetic Properties of Transition Metal Complexes”.



Regional Seminar
Physics Department



Dr. G.D. Sharma with the certificate
Physics Department



Dr. G.D. Sharma with the certificate
Zoology Department



Dr. Vibha Dave being awarded
certificate of Fellow
membership Award,
Zoological Society of India
Zoology Department



Staff members of Chemistry Department
after the poster display in Knowledge
Gallery
Chemistry Department



Alumni
Excellence - 2017



Fun-n-Food and Play Fun
Excellence - 2017



Quiz
Excellence - 2017



Inaugural Ceremony
Excellence - 2017



Skit
Excellence - 2017

Physics Department

The department conducted the Bharati Gyan Sanskriti examination, with Dr. S. Shah as its co-ordinator.

Dr. A. Dubey participated in "Safar", an artist talk & discussion during an exhibition of ten artists from Mumbai at Canary Art Gallery on 5th Jan. 2017. Our department conducted the National Graduate Physics Examination (NGPE) 2017 on 22/01/ 2017.

Dr. Ashish Dubey delivered a talk on Solar Energy in a programme organized on National Science Day on 28 February 2017.

Dr. Nagendra Chaturvedi, Jiwaji University delivered expert lecture on "Importance of Measurements" to the PG students on 28/01/ 2017. Prof. A. K. Shrivastava, Professor, Jiwaji University delivered expert lecture on "Semiconductor Applications" to the PG students on 30/01/ 2017.

Zoology Department

A Slogan Competition on AIDS was organised by the Dept. of Biotechnology on 1st December 2017 (World AIDS Day).

Winners from Zoology Department:

1st Bhavana Raghuvanshi (M.Sc. IV Sem.)

11nd Keerti Sheigaonkar (M.Sc. IV Sem.)

In college annual gathering Excellence-2017 Dr. Vibha Dave was convener of Music Committee & Dr. Rajesh Dixit of Alumni Committee. Dr. Raksha Modi was member Anchoring Committee, Dr. Shobha Chaturvedi of Alumni Committee and Dr. Chetna Savita of Music Committee.

Dr. Chetna Savita appeared & qualified S Eligibility Test 2017 (SLET).

Under P.G. Academic Development Program-2017, Inter departmental P.G. Debate Competition was organised on 6 March 2017 by the Department of Mathematics on the topic 'Demonetization'.

Dr. Vibha Dave was invited as one of the judges for the competition.

Winners of the competition from

Dr. R.C. Sanghvi attended the National workshop on "Language Translation" organized by NCERT, at New Delhi in January 2017.

The department organised a Regional Seminar of Physics in collaboration with IAPT, on 17/02/ 2017. Dr P.A. Kekre was its coordinator. The expert lectures were given by Dr Sripathy, UGC-DAE, Prof K. P. Joshi, Retired Professor, DAVV and Prof P.K Sen, SGSITS.

Shri Dron Mishra presented a paper on "High Performance nanostructured thermoelectric material" in national level seminar "Shodh" at Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore on 4/03/ 2017.

Dr. P.A. Kekre, Dr. R.C Sanghavi, Prof. Mayur Mota, Dr. K. Venkatraman have attended Regional Level Workshop on "Social Intelligence", organized by M.K.H.S G.G. College, 18th to 25th March 2017.

Zoology department were -

(For the motion) 1st Bhavana Raghuvanshi, (Against the motion), 1st - Sonia Yadav, 2nd - Keerti Sheilgaonkar.

On 7 March 2017 Dr. Vibha Dave was invited as a Chief Guest on the eve of International Women's Day by Adarsh Institute of Management & Science, Dhamnod.

In context of 'The P.G. Academic Development Program' the department organised 'Inter Departmental Extempore Speech Competition' for P.G students on 30 March 2017.

Dr. Vimal Sharma Dr. Preeti Vyas & Prof. Manisha Shah were invited as judges.

Priyanka Patil of M.Sc. II sem, Zoology was 1st.

Apporva Vyas of M.Sc. IV Sem., Microbiology was 11nd.

Ifra Sheik of M.Sc. II Sem. Zoology stood 11rd.

Electronics and BCA Department

Student's prepared innovative projects under the guidance of experts from Sai Electronics. These projects are useful

for B.Sc. and M.Sc. (Physics) student's in laboratory.



Dance
Excellence - 2017

Patron:

Shri Suresh Chandra Patel
[Chairman]

Chief Editor:

Prof. R.B. Patel
[Principal]

Convener:

Dr. Pravin A. Kekre

Editorial Team:

Prof. Mayur A. Mota
Dr. Deepa Vanjani
Prof. Sanjay Sharma

Mathematics Department

विभाग के प्राध्यापक शुभराज पाल की पीएच.डी. मौखिक परीक्षा विक्रम विक्रम विश्वविद्यालय में आयोजित हुई ।

विभागाध्यक्ष डॉ. विभोज परसाई एवम श्रीमती सीमा वोरा एवं श्रीमती जयश्री शाह श्रीमती इति तिवारी ने 20-21 जनवरी 2017 को एस.जी. एस. आई. टी. एस. कॉलेज द्वारा आयोजित सेमिनार **Recent Advances In Mathematics and Its**

Application में भाग लिया ।

गणित विभाग द्वारा वाद् विवाद प्रतियोगिता दिनांक 06 मार्च 2017 को विमुद्रीकरण विषय पर आयोजित की गई जसमें पक्ष में 07 तथा विपक्ष में 04 प्रतियोगियों ने भाग लिया प्रतियोगिता में विद्यार्थियों ने काफी उत्साह से भाग लिया ।

यह प्रतियोगिता विद्यार्थियों के लिए काफी ज्ञानवर्धक रही ।

Hindi Department

हिन्दी विभाग ने इस वर्ष महाविद्यालयीन-अध्यापन के अतिरिक्त कई गतिविधियों में भाग लिया । डॉ. ज्योति सिंह सदस्य-वार्षिकोत्सव संगीत समिति रहीं । वहीं डॉ. तृष्णा शुक्ला वार्षिकोत्सव में एंकरिंग समिति एवं रांगोली, मेहंदी में सदस्य रहीं ।

कस्तूरबाग्राम रूरल संस्थान में आयोजित दो दिवसीय अंतरराष्ट्रीय संगोष्ठी जिसका विषय था "चेंजिंग ट्रेण्ड्स ऑफ इलेक्शन केम्पेन इन डेमोक्रेटिक कन्ट्रीस्" में "सन् 2014 में भारत में हुए चुनावों में सोशल मिडिया की भूमिका इन्दौर के विशेष संदर्भ में शीर्षक से डॉ. ज्योति सिंह का शोध पत्र प्रकाशित हुआ एवं इसी संगोष्ठी में डॉ. तृष्णा शुक्ला का एक शोध पत्र "प्रजातांत्रिक देश में बदलती चुनाव प्रणाली" प्रकाशित हुआ ।

म. प्र. शासन उच्च शिक्षा विभाग की राज्यस्तरीय शिक्षक, क्रीडा अधिकारी व कर्मचारी खेल कूद स्पर्धा में इन्दौर संभाग की टीम ने ओवर आल चैंपियनशिप जीती । इसमें महिला बेडमिंटन टीम में डॉ ज्योति सिंह ने संभाग का प्रतिनिधित्व किया एव टीम उपविजेता रही । डॉ. ज्योति सिंह का तीसरा शोधपत्र दो दिवसीय अंतरराष्ट्रीय संगोष्ठी विज्ञान, आध्यात्म और साहित्य दिनांक 17, 18 फरवरी की शोध पत्रिका में प्रकाशित हुआ । जिसका शीर्षकथा "ऋग्वैद भारतीय संस्कृति का प्रथम राग" इसी शोध पत्रिका में डॉ. तृष्णा शुक्ला का शोध पत्र "विज्ञान और आध्यात्म का समन्वय सर्वांग प्रगति का सूचक" शीर्षक से प्रकाशित हुआ । पत्रिका का आयएसबीएन नं. 817677305-0 था । 8-3-17 को डॉ ज्योति सिंह को 'आदर्श मैनेजमेंट ऑफ प्रोफेशनल स्टडीज, धामनोद में वार्षिक महोत्सव में मुख्य अतिथि के रूप में आमंत्रित किया गया । श्री अटलबिहारी वाजपेयी शासकीय कला एवं वाणिज्य महाविद्यालय, इन्दौर में आयोजित सेमिनार (27-28 मार्च 2017) शीर्षक वैश्वीकरण और भाषाई चुनौतिया में विषय विशेषज्ञ के रूप में डॉ. ज्योति सिंह ने उपस्थिति दर्ज करवाई । उनके व्याख्यान विषय था भूमण्डलीकरण की प्रक्रिया में भाषा विज्ञान, भाषा समाज विज्ञान और प्रयुक्तियाः हिन्दी भाषा के विशेष संदर्भ में । इसी संगोष्ठी में डॉ. तृष्णा शुक्ला ने सहभागिता की ।

Sports Department

Anil Gurjar of M.Sc. previous, Botany, participated in All India Inter-University Body Building (7/02/17-9/02/17) and Power Lifting competition (23/02/17-26/02/17) at Punjab University, Chandigarh. He won 1st prize in inter college Power Lifting competition on

12/02/17 in the 59 kg category and 1st position in inter college Body Building on 23/01/17. Dr. Jyoti Singh was member, Runner Up team of Indore division Badminton Team of State Level Teachers, Officers and Employees Tournament at Ujjain on 28/01/17.

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