



Shri Gujarati Samaj, Indore

PMB Gujarati Science College

Accredited with grade 'A' by NAAC

PERIHELION

Quarterly Newsletter -
April-May-June 2015-

Issue-7-

Year-2-



Shri Bharat Bhai Bavisi
Chairman G.B.



From the Desk of Principal

The 'A' grade accreditation by N.A.A.C., was a worthy achievement for our college and for Shri Gujarati Samaj, Indore. Along with jubilation and a sense of success, we now have an added responsibility on our shoulders. We have stepped into the new academic session with the resolution to uphold the vision and mission of our college and keep going on with our endeavours, so that we can continue moving from strength to strength. The

classes have commenced and various committees have been formed to delegate responsibilities. The Academic Calendar has also been planned and distributed to various departments. I wish good luck to all students of B.Sc. I semester and M.Sc. I semester and welcome them to our fraternity. I am hopeful that we will fulfill our responsibilities with vigour and perform successfully.

Dr. Santosh Nagar

News at a Glance

The college was accredited with grade 'A' by N.A.A.C. The Peer Team comprising of Prof. Rahman [Chairman], Dr. Pandey and Dr. Savita Gandhi visited the college on 27 & 28 March 2015.

Dr. Santosh Nagar delivered a lecture on Mendelian Genetics in the Faculty Development Programme for faculty members of the college aspiring for CSIR-NET, Life Science. Dr. Jayshree Sikka, delivered two lectures on Ecology while Dr. Nandini Phanse delivered lectures on Molecular Biology.

A joint international paper of Dr. Vibha Dave Joshi, Dr. Shobha Chaturvedi & MS Chetna Savita has been published in IJLSR vol.3 Issue 2 (100-102) April-June 2015 titled 'Analysis of correlation coefficient between physico-chemical parameters and population of fishes of kishanpura lake of Indore MP'. Two papers of Dr. Shobha Chaturvedi & Dr. Vibha Dave Joshi have been published in IJSRES Vol. 2 Issue 5 May 2015 on the topic 'Histochemical changes in peroxidase activity in the reproductive tract during pregnancy in rabbit' and IJIRAS Vol. 2 Issue 5 May 2015 on the

topic 'Acth induced changes in ascorbate and peroxidase activity in the adrenal of hypophysectomized rat'.

Dr. K Venkataraman was invited as Member of the "Academic Assessment Group" for the experimental component of the 46th International Physics Olympiad (Ipoh) organized by Homi Bhabha Centre for Science Education (HBCSE), TIFR, Mumbai, 5-12 July 2015.

Two papers of Dr. Deepa Vanjani have been published in international journals. 'Disgrace: A Study of Pluralistic, Fractured Identities', published in the online peer reviewed Global Journal of Literary Studies, [ISSN 2395-4817, Issue 1, Vol.1, May 2015] and 'India's Oral Traditions: Voices from the Margins' published in International Journal of Business, Management and Social Sciences [ISSN 2249-7463, Impact Factor 1.3409, Vol. IV, Issue 8 (III), April 2015].

Dr. Nandini Phanse, Ms. Kiran Paliwal, Ms. Smriti Chouhan from Micro Dr. Jayshree Sikka, Dr. Sudeep Ray, Ms. Priya Trivedi from Botany Dr. Preeti Vyas from Biotech and Dr. Rajesh Dixit from Zoology Department have been awarded minor UGC Projects.

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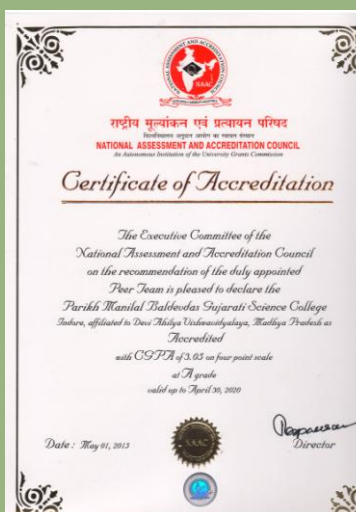
Departmental Activities

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Departmental Activities

**"Defeat is not the worst of failures
Not to have tried is the true failure."**

-George Woodbury



Computer Science and Information Technology Department

The Department organized a series of spiritual lectures as a part of the faculty development program covering various topics like Anger by Mayur Mota, Religion by Sanjay Sharma, Faith by Manisha Rudra Shah, Responsibility & Liability by Brajesh Vijaypuriya, Life by Govind Kaithwas, Success by Monika Yadav, Love by Priyasi Jain and Happiness by Pragma Mehta.

The results of various semesters as declared by DAVV for session Dec-2015 were:

B.Sc. Ist Sem. [CS-85.08%, IT-80.76%]

B.Sc. IInd Sem. [CS-84.56%, IT-85%]

B.Sc. IIIrd Sem. [CS-97.03%, IT-94.73%]

B.Sc. VIth Sem. [CS-93.33%, IT-100%]

A science seminar was held by the department on 11.April.2015. The chief speaker was **Dr. Parimal Mishra** - Professor, Biology and Dean Administration, Dr. Reddy's Institute of Life Sciences, University of Hyderabad, India. He delivered a lecture on the topic "Take Control: Stress can play havoc with your blood sugar level".



Department started E-Waste Management from Apr-2015



Expert lecture by Dr. Parimal Mishra
11th April 2015



Faculty Development Program
Microbiology Department



International Yoga Day
21-06-2015

Microbiology Department

Minor Research Projects were sanctioned by UGC, CRO, Bhopal to Dr. Nandini Phanse, Ms. Kiran Paliwal & Ms. Smriti Chouhan.

Ms. Devshree Joshi & Ms. Mona Bhatnagar attended a workshop on Bio-Nanotechnology at Maharaja Ranjit Singh College, Indore from 27th-29th April 2014.

A Parents -Teacher Meeting was organised for the parents of B.Sc. VI & M.Sc. students on 2nd May 2015. Parents were acquainted with progress of their wards and departmental activities.

Ms. Mona Bhatnagar attended a N.A.A.C. sponsored National workshop on 'Quality Issues in Higher Education Policies in Context of Self Financed Institutions', organized by Christian Eminent College, Indore held on 19th & 20th June 2015.

As part of enrichment of the Microbial Culture Bank of the department, a study on determining the biodiversity of economically important actinomycetes has been initiated. This work, which is one of the best practices of the department, is being performed by Dr. Nandini Phanse and Ms. Amruta Geed.

Botany Department

Pre- Ph. D Presentation: 1. Pre Submission Presentation for Ph.D. thesis of Ms. Vidya Dubey teaching faculty in our department & student of Dr. Kishore Pawar, (Head of Seed Technology Department, Holkar Science College) was held on 16/04/2015. The title of her study is "Ecophysiological studies on few threatened medicinal plants of Indore with special reference to their floral biology."

2. Pre Submission Presentation for Ph.D. thesis of Miss Kiran Suage, student of Dr. C.M. Solanki, (Ex head, department of Botany) was held on 13/06/2015. The title of her study is "Diversity distribution and ethnobotanical studies on the Grasses of Nimar region of MP".

Minor Research Projects Sanctioned by UGC in 2014: Three research projects have been sanctioned by UGC for two years (2015-2017) to the following faculties:

1. Dr. J.Sikka - "Evaluation of cadenolide function between Calotropis and Aphis nerii-A plant herbivore association."
2. Dr. S. Ray - "Floristic diversity of Harda district of MP With Special emphasis on assessment and conservation Strategy of rare endangered and threatened taxa".
3. Ms. P. Trivedi - "Monitoring of air Pollution with the help of tree bark in Indore city".

Ph.D. Viva Voce (29 June- 2015): Ph.D. Open Viva of Prof. Kamal Singh Alawa guided by Dr. Sudip Ray was held in the department. Dr. T.R. Sahu, Ex Head department of Botany, Hari Singh Gour University, Sagar was external examiner for the Viva. The title of the thesis is "Ethnobotanical studies of Dhar District of MP".



Languages Department

Dr. Jyoti Singh won the second prize in speech competition organized by 'Indore Lekhika Sangh' on Father's Day (24-06-2015) on the topic "Pita ki Badalti Bumika; Kal or Aaj". Two poems of Dr Singh titled "Rang - Badrang" & "Vidai" were published in "Nai Sadi ke Sreshth Hindi Rachanakar" by Raghvendra Thakur, ISBN :978-93-82340-32-4 (2015): JMD Publication, New Delhi.

The department displayed the best CCES of the Environmental Studies paper prepared by students of B.Sc. IV semester for overview by students and staff on 9 and 10 April 2015. The topic assigned was 'Preparing Pamphlets/Posters on Various Environmental Issues'. The issues covered a range of subjects such as waste-management, pollution, plantation, polythene-free surroundings

and cleanliness etc. Earlier the department had conducted a workshop to guide students of IV semester on pamphlet making. Apart from giving positive messages, the activity was also intended to motivate students.

On 9 and 11 April students of B.Sc. IV semester were shown CDs on environmental issues which are part of their syllabus of the Environmental Studies paper. The CDs are from the Center for Science and Environment, New Delhi. On 9 April the first part of 'Our Beautiful Planet' was shown, while on 11 April the students watched 'Changing Climates: The Future'. Various topics raised in the films were also discussed with the students. For the Knowledge Gallery, the department contributed a poster paying tribute to the great cartoonist R.K. Laxman.



Students take a loop at displayed pamphlets/posters
Language Department



Madhya Pradesh Forest
Department Visit
Biotechnology Department



International Day of Yoga
NCC Airwing Unit



Invited Talk by Dr. P.K. Dubey
Physics Department

Zoology Department

The department arranged four expert lectures namely:

I Dr. Milind Dange, Prof & Head, Govt. Degree College, Ratlam, for P.G. students.

Topic : 'Instrumentation'.

II. Dr. Javed Khan, Prof. & Head, Safia Science College, Bhopal, for P.G. students.

Topic: 'Research Methodology'

III. Dr.A.A. Khan, Prof. & Head, Islamia Karamia Degree College, Indore, for U.G. students.

Topic: 'Career Guidance'

IV. Dr. Rekha Sharma Prof., Holkar Science College, Indore, for U.G. students.

Topic: 'Scope of Zoology'

Dr Rajesh Dixit visited Govt. Sericulture Research Centre, Pampore, Srinagar and Govt. Sericulture Research

Centre, Kallipong, Darjeeling as part of his ongoing UGC Project on Sericulture.

Two articles of Dr Dixit have been published in 'Kisaan Vardaan' on 'Modern Methods of fishing' and 'Apiculture' (Culture of Honey Bee) and one on 'Rearing of Silkworm in Kashmir Valley' in Pragya Sanchaar.

Physics Department

Dr. P.K. Dubey delivered two invited talks in seminars:

(1). Shri Sitaram Jajoo Govt. Girls Degree College Neemuch on "Application of Nanoscience" on 20.03.2015.

(2). Sadhu Vaswani College Bairagarh Bhopal, on 'Application of Nanotechnology' on 30.03.2015.

Dr. P.K. Dubey, Dr. P.A. Kekre and Shri D. Mishra participated in the "National Conference on Emerging Trends in Nanoscience" organized by

Medicaps Institute of Science and Technology, Indore.. Dr.P.A. Kekre presented his research paper and Dr. P.K. Dubey chaired one session in this seminar.

M.Sc. students of the department Ms. Pooja Paliwal, Ms. Nikita Soni, and Ms. Priyanka Sharma actively participated in a two day laboratory workshop on "Experimental Physics" organized by Institute of Science and Laboratory Education, Physics Department, IPS Academy Indore on 25 & 26 March 2015.

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Departmental Activities Cont.

Biotechnology Department

A laboratory visit was done at Forest Extension and Research Circle, which comes under Madhya Pradesh Forest Department. Three staff members of the department, Prof. Heena Soni, Prof Poonam Vijaypuriya and Prof. Kwiti Thakkar, along with 12 students of B.Sc. VI Semester were part of this educational visit which proved to be a great help for concept building in various aspects of P.T.C.

Dr. Priti Vyas received a Minor Research Project approved by UGC/CRO, Bhopal. She has received a grant of 2, 50, 000/- for project entitled "In - vitro propogation of vanilla planifolia and study of its antimicrobial activity against MDR

entrobacterial pathogens.

The department signed an M.O.U. with Shri Uttam Foods Pvt. Ltd. which deals with frozen and lyophilized food products. The department is offering consultancy services for Microbiological analysis of freeze dried, lyophilized food samples tested for microbial contamination. Sampling & testing has been performed for 6 freeze dried samples (greenpeas, drumsticks, Papaya, green chilli powder, banana and sweet corn) for various microbial contamination. Department also generates revenue for this microbial analysis with a charge of Rs. 300/- per sample. The department conducted campus recruitment for the post of Microbiologist. The recruitment was for Shri Uttam Food Pvt. Ltd.

International Yoga Day

International Yoga Day was celebrated on 21 June 2015 in a joint programme of five colleges of Shri Gujarati Samaj, Indore, namely PMB Gujarati Science College, Arts and Law College, Commerce College, MKHS Gujarati Girls and B.Ed. Colleges. Principals, faculty members and students of the institutions participated in the event conducted by Dr Abhay Jain of Commerce College and coordinated by Dr Satyendra Sharma of Science College.

NCC (Airwing) Unit

NCC cadets under MP & CG Headquarters participated in a nationwide effort by the largest uniformed youth organization, to create a new Guinness world record for the largest participation by a single organisation in the International Day of Yoga on June 21 2015.

NCC made a spirited bid to create a new world record by roping in 13 lakh cadets across the country to simultaneously take part in the event.

NCC cadets of our college also participated in it enthusiastically. 16 cadets from the Airwing unit participated in the event organised at Malwa Institute of Technology along with caretaker Prof. Manish Joshi.

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