



Activities Academic Year 2013 – 2014

Sr. No	Date	Department / Committee	Resource Person	Event / Activity
1	10 June 2013	College	Prin. Dr. (Mrs.) M. K. Pejaver	The inaugural lecture for S.Y.B.Sc. & T.Y.B.Sc
2	10 June 2013.	College	Prin. Dr. (Mrs.) M. K. Pejaver	The inaugural lecture for S.Y.B.Sc. & T.Y.B.Sc. (Unaided Courses)
3	11 June 2013	College	Prin. Dr. (Mrs.) M. K. Pejaver	Inaugural lecture for S.Y.B.Sc. & T.Y.B.Sc. (I.T)
4	19 June 2013	College	Prin. Dr. (Mrs.) M. K. Pejaver	Inaugural Lecture of F.Y.B.Sc.
5	24 -25 June, 09 July 2013	Workshop for key persons	Rising above and beyond excellence.	
6	02 July 2013	College	Prin. Dr.(Mrs.)M. K. Pejaver	Orientation lecture related to Semester V & VI examinations & Add on Courses for T.Y.B.Sc students
7	02 July 2013	College	Prin. Dr.(Mrs.)M. K. Pejaver	Inaugural lecture of M Sc. Environmental Science Part I & II
8	04 July 2013	NSS	Dr. Kiran Pariya	Orientation programme for students
9	13 July 2013	Department of Biotechnology & Microbiology	One day seminar to celebrate 60th year of DNA structure discovery. "Unveiling Life, Beyond DNA Discovery"	
10	16 July 2013	Research Committee	Dr. Sane	Guest Lecture
11	16 July 2013	Research Committee	Dr. Pushpalata Sarjekar , PATENT TECHNOLOGY	
12	17 July 2013	Department of Biotechnology & Microbiology	"How to prepare for competitive Exam" 102 students participated	
13	20 July 2013	Department of Biotechnology & Microbiology	Parent meeting for S.Y.B.Sc & T.Y.B.Sc Microbiology & Biotechnology Students	
14	27 July 2013	Zoology	First Preparatory Workshop on Biodiversity	
15	27 July-2013	Physics	Mr. Amit Saini Senior Software Engineer from Cadre Design Systems, Delhi.	Guest lecture



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16	27 July 2013	Physics	T.Y. B. Sc.-Parents meeting	
17	01 August 2013	College	VPM Foundation Day – Tree Plantation	
18	03 August 2013	Statistics	T.Y. B. Sc.-Parents meeting	
19	06 August 2013	Sahitya Sahavas	Programme on 'Nature & Rain'	
20	07 August 2013	Zoology	Green force Nature Club Inaugural Function	
21	07 August 2013	Chemistry Department	Guest lecture	
22	09 August 2013	Biotechnology & Microbiology Department	Journal Club Activity	
23	06 August 2013	Placement cell	Interviews of L&T	
24	09 August 2013	Information Technology	Lecture on Credit System	
25	09 August 2013	Botany excursion	T.Y. B.Sc. Botany One day excursion to Vangani.	
26	10 August 2013	Botany Club	Inauguration	
27	10 August 2013	Literary Association	Poetry and story writing competition (33 participated)	
28	15 June - 10 August 2013	Yoga class	Batch 1- of the certificate course in Yoga (25 students participated)	
29	12 August 2013	Cultural Association	Youth Festival 2013	
30	14 August 2013	DLLE	Student Enrollment Meeting	
31	14 August 2013	IQAC	Academic Audit	
32	15 August 2013	College	Dr. Bedekar	Independence day
33	16 August 2013	NSS	Workshop on "How to be A Smart Investor"	
34	17 August 2013	NCC	Lecture on Interviews Skills	
35	18 August 2013	NSS	Blood donation	
36	23 August 2013	Mathematics	Guest lecture on "VARIOUS CAREER OPPORTUNITIES"	



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37	24 August 2013	Department of Biotechnology / Microbiology	F.Y. B.Sc., Parents meeting Biotech	
38	29 August 2013		Lecture “ future prospects “	
39	31 August 2013	Statistics	Inaguration of Sankhya . Guest lecture Ramu. “Importance of Vision , Mission and Goal “	
40	31 August 2013	Zoology	T.Y.B.Sc Excursion.	
41	31 August 2013	Cultural Association	Singing competition	
42	01 September 2013	Trekking and Hiking	122 Students and 12 staff members visited “Matheran	
43	05 September 2013	Statistics	Dr. A. P.Patil	TY Students lecture
44	05 September 2013	College	Teacher's Day Convocation(VPM Courses)	
45	06 September 2013	Literary Association	Essay and Story writing	
46	07 September 2013	Chemistry workshop for PG students.	“Career in Chemistry after Post graduation & NET/SET preparation guidance	
47	14 September 2013	Jagar Janivancha	Shri Rampyare Singh ‘Raghuwanshi’, Assistant Manager in Mahanagar Telephone Nigam, Mumbai	Hindi Divas
48	24 September 2013	Zoology	Movie Club	
49	25 September 2013	Jagar Janivancha	An Evolution of Consciousness	
50	25 September 2013	Staff Academy	Dr. Vijay Bedekar	Lecture
51	28 September 2013	Zoology	Second Preparatory Workshop on Biodiversity	
52	05 October 2013	IQAC	Role of IQAC in Quality enhancement.	
53	09 October 2013	Sahitya sahavas	Sanskrit Day Programme	
54	05 to 10 October 2013	Statistics Department	Basics of R programming 5 days programme	
55	27 to 29 October 2013	DLLE	Imitation Jewellery (12)	
56	25 October 2013	DLLE	Instant food and chocolate (14)	



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57	22 - 29 October 2013	Botany, IQAC	Personality Development and Leadership	
58	29 - 30 November 2013	Zoology / EVS	National Conference on Biodiversity : Status and Challenges FAVEO	
59	28 November 2013	Jagar Janivancha	Mukta Dabholkar	Lecture on Mukta Chintan under Jagar Janeevancha Lecture series
60	06 December 2013	Cultural	Kalakar tumchya Bhetila	
61	07 December 2013	Cultural	Workshop on Calligraphy	
62	14 December 2013	Cultural	Dance Workshop on Hip Hop and Salsa	
63	19 December 2013	Cultural	Workshop on Drawing	
64	26 December 2013 – 01 January 2014	NSS	NSS Camp	
65	04 January 2014	Employment Cell	Session on Careers in Photography	
66	11 January 2014	Alumini Association	Anubandha Meet	
67	16 January 2014	Gymkhana	Gymkhana Annual Prize Distribution	
68	17 January 2014	Botany	Excursion of FYBSc Botany students to BPT Garden ,Colaba	
69	23 - 25 January 2014	Botany	Excursion of TYBSc Botany students to Goa	
70	26 January 2014	VPM	Republic Day	
71	13 February 2014	Botany	Flower arrangement competition	
72	28 February 2014	Marathi vibhag	Marathi Bhasha Divas	
73	28 February 2014	Science square and library	National Science Day	
74	01 March 2014	IQAC & Jagar Janivancha	Health Check up	
75	14 April 2014	VPM	Smruti Din	



Activities 2013 – 14

A) INAUGURAL LECTURES:

Each new academic year starts with a series of inaugural lectures delivered by the principal Dr. (Mrs.) M. K. Pejaver for students of different grades. During the Inaugural lecture Principal gives the information about working of college, rules and regulations facilities provided, various activities conducted. At end oath is given to all students. This year, the lectures conducted were as follows:

- 10th June 2013- S.Y.B.Sc. & T.Y.B.Sc students of aided and unaided courses.
- 11th June 2013 – S.Y.B.Sc. & T.Y.B.Sc. (Information Technology).
- 19th June 2013 – F.Y.B.Sc. CBZ / PCM / PMS / IT / Biotechnology / Microbiology.
- 2nd July 2013 – M Sc. Environmental Science Part I & II.

B) ORIENTATION SESSIONS:

The Principal as well as the in charge /co-ordinators of different committees hold orientation sessions at the commencement of new academic year as per the requirement. This year following sessions were held:

- Orientation lecture related to Semester V & VI examinations & Add on Courses for TYBSc students on 2nd July 2013 by Prin, Dr. (Mrs.) M. K. Pejaver.
- Orientation programme for FYBSc, SYBSc and TYBSc NSS students was conducted by NSS coordinator Prof. Pariya on 4th July 2013.
- Orientation lecture related to Semester I, II examinations for FYBSc students on 22nd August 2013 by Dr N.N.Patil.
- Dr N.N.Patil has conducted a lecture for Junior Supervisor regarding Exam supervision and marking systems on 29th September 2013.

C) PARENTS MEETING:

Department of Biotechnology & Microbiology

The parents meeting for the students of SY and TY Microbiology and Biotechnology was arranged on Saturday 20th July 2013, in Patanjali Sabhagriha. On behalf of Department of Biotechnology and Microbiology, Dr. Kalpita Mulye addressed the gathering.

With the welcome note, the talk began with the introduction of every staff member. Overall functioning of the department with the daily schedule for TY and SY students was told to the parents. The parents were informed about the Credit based system, importance of attendance and punctuality, Journal and movie club, mini research projects, summer training, conferences, carrier guidance, competitive exams etc.

The attention was drawn specifically towards physical and mental health of the students. The talk was then followed by the interactive session with all the staff members. Total parents present for the meeting were 75 (9 – TY micro, 19 SY micro., 24 TSY biotech, 23 SY BT)



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Parent meeting for FY Biotechnology and Microbiology students was arranged on 24th August, 2013, at 4:30 pm in Patanjali Auditorium. On behalf of teaching staff, Dr. Kalpita Mulye addressed the meeting and introduced the teaching, nonteaching staff members of the department.

The parents were initially informed about the CBGS System of examination and evaluation. The importance of attendance, punctuality, class test, assignment submission etc. was the points that were stressed. The parents were made aware about the departmental activities -Journal club, movie club, guest talks also about the facilities available in the department like Departmental library, internet, book bank, mentor and college activities NSS, NCC, Cultural activities etc.

The significance of summer training, mini research project, seminars, and conferences in overall development of students was highlighted. The importance of physical health, mental health was discussed and parents were informed about the counseling cell in the college.

Total 34 parents of students from FY Biotech and 14 parents of students from FY microbiology attended the meeting. The meeting was concluded by 6:00 pm. Many parents appreciated the efforts of college staff and thanked the authorities.

Department Of Physics

The parents meeting for the students of T.Y B.Sc. Physics was arranged on Saturday 27th July 2013 in the Physics department . Dr M.N. Nyayate addressed the gathering. With the welcome note, the talk began with the introduction of every staff member, functioning of the department with the daily schedule for TY B.Sc. Students. The main points in the discussion were students' behaviour, attendance, exam system.

Department Of Statistics

The parents' meeting for the students of T.Y. B.Sc. Statistics was arranged on Saturday 27th July 2013. Dr A.P. Patil addressed the gathering. With the welcome address, the talk began with the introduction of every staff member and parents, overall functioning of the department with the daily schedule for TY B.Sc. Students. The main points in the discussion were students' behaviour, attendance, exam system, carrier opportunities after B.Sc.



D) CO-CURRICULAR ACTIVITIES:

i) Bridge Courses/ Certificate Courses:

1. **Advanced Physics Practical: Skill Development Bridge Course:** In order to develop special skills and good experimental temperament among few inspired students to perform Advanced Physics Practicals, a bridge course was conducted from 18th Oct, 2013 to 29th Oct, 2013 at physics department. Eight students from F.Y.BSc. and S.Y.BSc. enrolled for the course. The course was conducted by Prof. Ashish Koli and Prof. Sarika Nipane. Some of the experiments covered included Measurements using Vernier calliper, micrometer screw gauge, travelling microscope; usage of Spectrometer; breadboard; CRO, DSO and FFT.

A scientific movie named "October sky" was shown to motivate the students in research. Video lectures and scientific documentaries were shown to give information about development of science in the world. On student's demand the schedule of the course was extended from 26th Oct to 29th Oct and Sky observation was planned on the terrace of the college building. During the Sky observation celestial and horizontal co-ordinate system, refracting and reflecting telescopes and apparent magnitude system were introduced. Venus and Vega were observed with the telescope.

Some of the enthusiastic students opted to take part in the competition held by mars society of NASA and corresponding research has been started.

2. **R-Software course:** Statistics Department conducted six days course on Basics of R programming for S.Y. B. Sc. Students from 5th Oct 2013 to 10th Oct 2013. Twenty eight students attended. Prof (Ms) M.J. Gholba and Dr.(Ms) K.D.Phal worked as resource persons.
3. **Gas Chromatography** is a technique used for separation of volatile materials. It can analyze multi component mixtures such as essential oils, volatile derivatives of non-volatile compounds like amino acids, steroids, pesticides etc. This technique has wide applications in chemical & pharmaceutical industry and has become a common technique used in industry. As such there is a growing demand of chemists who have working experience on GC. However, there are very few centres available, which can provide practical training to students & aspiring chemists. Even Post Graduate students & Research students have limited access to the instrument & rarely get the opportunity to work on it. This year 11 students of Advanced Study Centre, 11 of B. N. Bandodkar College of Science & 1 candidate from CIPLA Ltd. have successfully completed the said training on Chemito GC 8610 instrument, in the month of November – December 2013.

ii) Departmental Club Activities:

Zoology Club Green Force Nature

Inaugural Function was held on 7th August, 2013 at 12.30p.m in department of Zoology. Total 69 students from S.Y.B.Sc and T.Y.B.Sc Zoology and M.Sc Environmental science alongwith 8 teachers from different departments attended the programme.

There was a power point presentation given by Mr. Samrat Tambat, student of S.Y.B.Sc, on the topic- *The beauty and some unseen facts of snakes*. He explained classification of snakes along with examples and their distribution all over India. Along with the description about snakes he also mentioned the status of these species as rare, endangered, extinct etc. He elaborated on the medicinal



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as well as toxic effects of venom on humans. He gave brief idea about bad practices during handling and mentioned conservation strategies along with different species identified in year 2013.

Botany Club “Srishti”

The “Srishti” inauguration ceremony was held on 10th August, 2013 at Patanjali Sabhagruha. The Chief Guest Principal Dr. (Mrs.) M. K. Pejaver had graced the occasion and she gave a beautiful presentation on “My life my career”. She took this opportunity in not only helping the students with their choice of career but at the same time also made them understand the importance of value education. She told them about various qualities which must be there in a person if he wants to be successful in life. She made the learning interesting by presenting it skilfully with photographs of birds and animals depicting all those characters which must be there in a person like; hard work, teamwork, determination, patience... etc. She encouraged the students to observe and learn from Mother Nature. 100 students, 10 teaching and 8 non-teaching staff participated in this event.

Activities:

- i) Flower arrangement competition
- ii) Lecture and demonstration on Flower arrangement.

A flower arrangement competition was organized on 13th February 2014. The topic for this competition was “Best from less”. The idea was to create splendid arrangements with few flowers, using little bit of imagination and expressing a beautiful theme or an idea. Simplicity in arrangement was the norm. Three flowers, some foliage and oasis were provided to the participants for the flower arrangement.

The competition was judged by Dr. (Mrs.) Geetha Menon, Associate Professor in Botany, R.K.T. College Ulhasnagar. After judging the competition Dr. Geetha Menon delivered a lecture on flower arrangement. She explained basics of an arrangement and told the students that any flower arrangement made should please the creator. There are different styles of flower arrangements namely the Western style which uses mass concept and the Ikebana style, based on specific rules and angles, using less material. Dr. Geetha elucidated that you can create attractive effects in flower arrangements using humblest of materials, like twisted branches, blooms, fruits and seeds gathered from the garden, coloured foliage etc. She described the general concept of both types of arrangement and also gave the demonstration for the round bowl (circular) arrangement and Ikebana arrangement for the students.

Mathematics Club “Siddhant”

Mathematics department had organized a guest lecture on “VARIOUS CAREER OPPORTUNITIES” on August 23, 2013. Mr. Niketan Taware, Director and founder of Nirmala Consol Private Limited was invited to deliver a talk. One hundred and forty five students of FYBSc, SYBSc and TYBSc attended the lecture.

Mr. Niketan Taware (B.Tech from VJTI and MMS from JBIMS) threw light on various job opportunities available in different sectors such as Real Estate, Travelling, Education, Share Market, private companies, competitive exams and so on. He made the students aware of how one should prepare oneself to face the challenges in today's scenario. His talk was an interactive session which was appreciated by the students.



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Statistics Club "Sankhya"

On 31st August, 2013 Mr. Rajnish Ramu, Asst. General Manager, Johnson Lifts Pvt. Ltd. Pune was invited by the Statistics Club. He spoke on "Vision setting & strategy". 122 students and all teachers of statistics department attended the same. Mr. Ramu spoke about what is vision? What are visions of famous organizations? He also helped to some students to form their visions. Further he said that only vision setting is not useful, but you will have to plan a strategy which will be used to bring into reality your vision. At the beginning of session Prof. A .P. Patil gave small presentation especially for F.Y.B.Sc Students about "Careers in statistics". Handbills about career in statistics were also distributed to F.Y.B.Sc. Students.

Biotechnology and Microbiology Journal / Movie Club

Department of Biotechnology and Microbiology had organized lecture on 'Future Prospects in Microbiology and Biotechnology' on 29th August 2013 at Patanjali auditorium. Ms. Jayashree Pawar gave detailed information regarding various opportunities for life Sciences students after graduation. She elaborated on various competitive exams like JGEEBILS, JAM, JNU, JNCASR, NIV, CFTRI etc. Information about paper pattern of these exams and preparation for the same was also provided. 132 students from F.Y., S.Y. and T.Y. Microbiology and Biotechnology attended the lecture.

This session was followed by a presentation on 'Green Fluorescent Protein' by Madhushri Lokhande, S.Y.B.Sc. Biotechnology student. She explained the source, advantages and disadvantages of GFP in various molecular biology experiments.

Movie Club

Dr. Madhuri Pejaver Principal, B. N. Bandodkar College of Science, conducted the programme for Zoology T. Y. B. Sc. Students under Movie club on 24th September 2013. In this she discussed on various scientific movies available on YOUTUBE. The main topic of movies was Embryology. Movies discussed were mainly on following topics:

Structure of DNA, Cell division- mitosis and Meiosis, Gametogenesis, Fertilization and implantation, Cleavage, blastula, gastrula and neurulation, organogenesis, Incubation of chicken eggs at home, Placenta formation and types, Chick and Human embryology. About 29 short and long films were shown and discussed.

Sahitya Sahvas (B h a s h a M a n d a l)

The Sahitya Sahvas (B h a s h a M a n d a l) conducted programme on 'Nature & Rain' on 06/8/2013 that was attended by the students of Junior and Degree College. The students presented poems in the languages Hindi, English and Marathi. Students were joined by active participation from the teaching staff who presented the poems as well.

In the programme various aspects of the Rain and the Nature were described. The photographs of the Rain from the internet were displayed on the screen. The audio song in Marathi on 'Rain and Nature', one each song by Lata Mangeshkar and Asha Bhosale were also played at the programme. The programme was successful thus describing the importance of 'Rain and Nature'.



iii) Lecture Series:

1. A lecture cum demonstration with computer simulation was arranged by Department of Physics on 27th July 2013 at 10 AM in physics Laboratory. The lecture was given by Mr. Amit Saini, Senior Software Engineer from Cadre Design Systems, Delhi. He gave an elaborate demonstration of how to make a semiconductor device like p-n junction diode, MOSFET, MESFET etc. the entire fabrication along with characterization could be simulated on the visual T-CAD software. He gave us a demo on the working of the software by actually making a p-n junction diode. This simulation software is very useful for project work of students of M. Sc. and a must for researchers working on semiconductor devices. There were guest from TIFR and VPM's Polytechnic along with seven teaching staff members from physics department. Twenty eight T. Y. B. Sc. students and seven M. Sc. students attended the lecture.
2. Department of Environmental science organized a talk on Eco toxicology by Dr. Mrs. S. V. Mahajan for M. Sc. I & II on 20th September 2013. Dr. Mrs. S. V. Mahajan is a retired Associate Professor from B. N. Bandodkar College of Science, Department of Zoology. She is a guide for Ph. D. in Zoology and her research area is toxicology. She enlightened the students on various impacts of pollutants and toxicants on human health in her talk.
3. **Careers In Photography:** An interactive session was organized by the Employment Cell- 'Grab it' on 'Careers in Photography' on 4th Jan 2014. Renowned photographer Ms. Anju Mansing was invited to interact with the college students and throw some light on various aspects of photography as a career choice. She is a free lance photographer and has her regular tie ups with daily newspapers like Maharashtra Times, Thane Vaibhav etc. 128 energized students attended the session. Ms. Mansing commenced the session with an appeal to appreciate the brain and the effort of the photographer than the high-end camera used. She further stressed on the recent rage that has caught up the young generation of buying SLR cameras. She urged the students to use their basic digital camera to the optimum and then move ahead to purchase other costly gadgets. The importance of learning to read the light was highlighted, also various types of photography were introduced to students viz commercial, portfolio, press, wedding. Students were appealed to select one specialization and chose one central choice as it helps in selecting premium lenses accordingly. Along with this, specific courses in photography conducted by leading colleges were told to the students. As an added motivation towards this photography Principal, Dr. (Mrs.) M. K. Pejaver invited students to click photographs with newly acquired insight and handover them to magazine committee. The session ended with viewing of some special photographs taken by Ms. Mansing.
4. Department of Biotechnology & Microbiology had organized guidance lecture for F. Y., S. Y. and T. Y. Biotechnology and Microbiology students on Wednesday, 17th July 2013 in Patanjali Auditorium. Two alumni, Ms. Shirish Gole and Mr. Jayesh, Kedare who have cleared competitive exams, interviews and got into esteemed Institutions IISc Bangalore (for Integrated Ph.D.) and IIT Powai respectively, guided the students regarding preparation for these competitive exams. In their talk, both of them stressed on the importance of developing the conceptual understanding of the subject. They elaborately explained the whole selection procedure and also how selection criteria differ according to the institution. Their speech was followed by an interactive session wherein the students asked questions regarding these exams and Institutions. All the teaching faculty members (6) and The total number of students from department of Biotechnology and Microbiology, who attended the session was 102.



iv) Excursions:

Department of Botany

- One day botanical excursion to various gardens of Mumbai for students of F.Y.B.Sc. Botany was arranged on 17th January 2014. Fifty students actively participated in the excursion. First visit was to 'Sagar Upvan' a famous botanical garden also known as 'Bombay Port Trust (BPT) in Colaba, Mumbai. Banyan, peepal, some thorny cactus and coconut trees were observed there. Next in line was the Hanging Garden also known as Ferozeshah Mehta Garden. The garden features several hedges carved into the shapes of animals (topiary). In the end students also visited Jijamata Udyaan - formerly called Rani Bagh or Victoria Garden, and now also known as Veermata Jijabai Bhonsle Udyan. It is a well known zoological and botanical garden located at Byculla. The escorting teachers enlightened students on the flora of the area. Students were shown different types of garden location and the types of plants grown at such locations in accordance with their syllabus on landscape gardening.
- Botanical excursion was conducted for T.Y.B.Sc. students to Goa from 23rd to 25th January 2014. 16 students actively participated in the excursion. First visit was to the National Institute of Oceanography (NIO) which is an autonomous research organization in India. Students observed various specimens obtained from oceans and different devices used for studying underwater activity. Next visit was to Goa University. At the university, students visited department of Botany which is equipped with student and research microscopes with photographic facilities, Fluorescence microscope, HPLC, UV-VIS spectrophotometer, chlorofluorometer, rotary shakers, PCR, gel documentation system, tissue culture laboratory, laminar flow chambers, digital and film cameras, fungus culture collection centre, herbarium, polyhouse, glass house, botanical garden for teaching and research. Department is involved in various research activities and thrust areas include biodiversity and taxonomy, stress physiology, mycorrhizae, medicinal plants, wasteland reclamation, histochemistry of rice, endemic plants and bioprospecting. Dr Nandkumar Kamat from department of botany gave guidance to the students on the role of young scientist in conserving the biodiversity of country. He also showed an innovative way of wine making from yeast and a glimpse of his research work. After that the group met Dr. B.F . Rodrigues. He enlightened them about the research work done under mycology. Next visit was to Dona Paula, a former village, and tourist destination, in the suburbs of Panaji. Students also visited Baga, Calangute and Aguada Old Portuguese fort. The main focus of the excursion was on research work going on at University of Goa and National Institute of Oceanography.
- A One day excursion was arranged for T.Y.B.Sc. Botany students to, 'Sawantwadi' Agro-tourism area, Donegaon, Vangani, Dist. Thane on 9th August 2013 by Department of Botany. Twenty students actively participated in the excursion. The students were accompanied by Dr. (Mrs.) M. S. Mulgaonkar (Head, Dept. of Botany), Dr. Moses Kolet (Excursion InCharge), Ms. Chetana Shetty and Shri R.B. Ambhore (Field Collector). The escorting teachers enlightened students on the flora of the area. They also visited the plant nursery at 'Sawantwadi Agrotourism Centre' in the vicinity. Shri Vishwanath Sawant of 'Sawantwadi Agro-Tourism Centre' provided valuable information on the type of vegetation seen. The flora of the area included various plant species belonging to gymnosperm, angiosperm, ornamental and plants with medicinal value etc. Collection of some useful class work material (*Xylaria*) was also done.



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Department of Zoology

- T.Y.B.Sc students visited ACTRECs open day to visit various laboratories, animal house etc. to learn sophisticated techniques in cancer study at Kharghar on 6th and 7th Dec 2013. T.Y.B.Sc. Zoology, excursion to Kerala, Cochin backwaters silent valley. Date: 11th to 21st January 2014 Dr Kiran Pariya, Mr. Abhay Morajkar and lab assistant Sayali lad accompanied the students.
- S.Y.B.Sc Excursion to Kokan Krishi Vidyapith, Dapoli from 29th Jan to 31st 2014 Prof. S.D. Rathod, Dr. Manjramkar and Dr Kiran Pariya accompanied the students.
- F.Y.B.Sc Excursion to Museum – Raja Shivaji Vastu Sanghralaya on 10th Jan 2014 Dr N.N. Patil, Dr. Manjramkar and Dr Kiran Pariya accompanied the students 120 students

Department of Environmental Science

- An excursion to Velneshwar was arranged for M. Sc. (Part 1 and 2) students of Environmental Science Department on 16th and 17th September, 2013. 34 students attended the excursion and were accompanied by 5 staff members of the same department. Maharshi Parshuram Engineering College and Velneshwar sea shore were visited during the excursion.
- On 16th September, at the college, Dr. Desai explained various models of equipment utilizing solar energy namely a small house running entirely on solar power, electric fencing with alarm, Diwali lighting, multiple mobile charger, water pump motor etc.
- On 17th September students visited the Velneshwar temple early in the morning followed by a visit to the Velneshwar beach, where different shells were observed. Dolphins were also spotted diving in sea which was a unique experience for the students.
- A short nature trail was arranged for the students during which insect identification was done and insectivorous plants like *Utricularia* and *Drosera* were seen in the wild. Desai sir then guided the students through the library and various laboratories of the institute. He also explained the students about the vermi-composting and bio-composting done for the villagers and lastly the students were taken for a visit to nursery. The excursion was highly informative and inspiring because everyone realised the implementation of non-conventional resources in such technologically deprived place like Velneshwar.

v) Seminars/Workshops/Conferences:

- 1) **One day Seminar** on 13th July 2013 titled “Unveiling Life beyond DNA Discovery”. It was on April 25th 1953, that biologist James Watson, an American and Francis Crick, an Englishman discovered and published in Nature the three dimensional double helical structure of DNA. This was a discovery which has had enormous impact on human understanding of the secret of life. To celebrate the 60th Year of DNA structure discovery, the Department of Biotechnology and Microbiology, B. N. Bandodkar College of Science, Thane organized one day Seminar on 13th July 2013 titled “Unveiling Life beyond DNA Discovery”. The Inaugural Address of the seminar was given by the Principal Dr. (Mrs.) M.K. Pejaver, who creatively came up with the idea of seminar which was then executed by



the Department of Biotechnology and Microbiology. The inaugural address was followed by Lecture on Discovery of DNA structure by Ms Rutuja More, Asst.Prof, Department of Biotechnology. The first speaker Dr. Abhishek Mule, Research Scientist, Institute of Chemical Technology (ICT), Mumbai gave a talk on Recombinant DNA Technology. In his speech he explained Genetically Modified organisms by giving examples such as Golden rice, Flood resistant rice (Swarna sub1), Spider silk, edible cotton seed, insulin producing lettuce, edible vaccines (potato and tomato), genetically modified algae and Biofortified soybean. He further explained the Biomass fractionation technology which takes place in his ICT laboratory using wonder yeast and bacteria (GMO). This was followed by lecture on "Development of Anti tumor vaccine" by Dr Disha Mody, Former Research Associate, St. Jude Children's Research Hospital, Memphis, Tennessee. She explained in detail about the development of CD-40 Targeted Adenovirus as Anti Tumor vaccine which has now entered clinical trials. Post-lunch, speaker Dr. R. C. Patil, Associate Professor, Department of Microbiology, Bhavans College, Mumbai spoke about Personalized Medicine. He also explained about patenting of products. The last speaker, Dr. Prashant Khadke Product Manager (Asia Pacific) Biorad Laboratories spoke about Advances in PCR Technique. He covered in his speech many different types of PCR specifically giving insight on RT PCR, Digital and Droplet PCR. The total number of faculty, students from Biological Sciences and junior college students who attended the seminar was 208. Active participation of our students was also seen who presented 5 posters and a DNA structure model.

- 2) **Workshop On "Career In Chemistry After Post Graduation & NET/SET Preparation Guidance"**: Workshop for post graduate students of Chemistry was organized on 7th September, 2013 on "How to prepare for NET Examination" by our faculty member Mr. Saurabh Shette & on "Career in Chemistry after Post graduation" by our own student Mr. Ritesh Oza. Mr. Shette emphasized more on topics like maximum accuracy, organic synthesis, dynamic organic stereochemistry, reactive species, selectivity in organic synthesis, topic related to Inorganic chemistry such as coordination chemistry, group theory, Chemical bonding, Chemical periodicity: Physical chemistry-Chemical thermodynamic, chemical Kinetics, electrochemistry, problems on Beer-Lamberts Law. He also gave tricks to remember chemical formulae to read in between alphabets as well as in sentences and also emphasized on paper pattern, marking scheme etc. Dr. Anita S. Goswami-Giri, Research guide in Chemistry explained about different career opportunities in Chemistry after completion of post graduation and also gave information about various Scholarships, Fellowship in Government & Non-govt. Institution. Mr. Ritesh Oza, PhD student in Chemistry also explained about types of qualities and skills required for career in industry. He also discussed about CV writing. Students from Birla, Smt. CHM, BNN & B.N.Bandodkar College participated in this workshop.
- 3) **1st Preparatory workshop of National Conference on Biodiversity: Status and Challenges in Conservation-Faveo-2013**: The first preparatory workshop of National Conference on Biodiversity: Status and Challenges in Conservation-Faveo-2013 was held on 27th July 2013 at Patanjali Subhagruha. Post inauguration Dr.M.K. Pejaver- Principal of the college gave welcome address where in the main aim of initiating these preparatory workshops was addressed, the purpose of initiating these preparatory workshops was to acquaint students with the theme of the conference and thus generate a zest to participate actively in the final conference. It was well attended by students as well as staff; approximately 130 students attended the workshop including 21 external students. The chief speakers for the day were Dr.Amol Patwardhan: Asst. Professor K.J.Somaiya College of Science and Commerce, Mr.Vishal J Bhawe: Scientist-B BNHS. Dr.Patwardhan briefed the students on the



documentation of biodiversity through various ways and means. He urged the students to use the photography, graphs, tables, charts and REDP process to document the biodiversity.

While Dr. Patwardhan explained the need of documentation for any kind of observation, Mr. Vishal Bhavne enlightened the audience on marine diversity of Konkan Coast of Maharashtra through his outstanding photographs. He also introduced the students to new area of research- Opisthobranchs from India. The challenges and opportunities in the field of marine biodiversity were also aptly stated. Thus the first preparatory workshop of National Conference on Biodiversity: Status and Challenges in Conservation-Faveo-2013 came to conclusion on the note of upcoming lecture series.

- 4) **2nd Preparatory Workshop of National Conference on Biodiversity Status and Challenges in Conservation: FAVEO 2013:** Second Preparatory Workshop of National Conference on Biodiversity Status and Challenges in 'Conservation: FAVEO 2013' was organized by Department of Zoology and Environmental Science on 28th September 2013 at Patanjali Sabhagruha. Dr. Ketan Thatte, Asst. Professor, Department of Biotechnology, and Mr. Ashutosh Joshi, Asst. Professor, Department of Environmental Science delivered lectures for students. Dr. Ketan Thatte guided the students through informative presentation on 'How to write a research paper'. Mr. Ashutosh Joshi gave an elaborate talk on 'Biodiversity and its measurement'. The guiding session was followed by 5 paper presentations made by the students and teachers.
- 5) **National Conference On Biodiversity: Status And Challenges In Conservation 'Faveo 2013':** Faveo 2013 was organised by the Department of Zoology and Environmental Science in collaboration with Salim Ali Center for Ornithology and Natural History (SACON) and World Wide Fund for Nature (WWF)-India, Maharashtra State Office. On the day of conference 29th November 2013, during the inaugural session Organizing secretary Dr. (Mrs.) Poonam N. Kurve gave a brief overview of idea behind the theme of conference and its significance in the current scenario. Dr. (Mrs.) Madhuri K. Pejaver, Principal of the college while addressing the gathering spoke about the role of B. N. Bandodkar College of Science in research, in the field of Biodiversity and its Conservation. Padmashree Dr. Sharad Kale Scientist, Bhabha Atomic Research Center was the chief guest for the inaugural function. Mr J.N. Kayal, Joint Secretary of Vidya Prasarak Mandal attended the inaugural function on behalf of the management. Dr Sharad Kale was felicitated for his achievement in the field of research. His model 'Nisarg Roon' (Nature's debt) has received numerous accolades for which he is been awarded. The Padma Shree Award one of the most prestigious civilian award of our country. With a simple experiment on mini-nature model he explained the self sufficiency of various components of environment. Through the elaborations from Veda, ancient literature, the Bible, Einstein's theory of relativity, etc. he lucidly explained the need to have a feeling of being custodian of the nature and hence, the need to be considerate about it. His speech could clearly show how nature and human are absolutely interdependent. Dr. Sharad Kale shared important principles of 'Ahm Bhramasmi' and 'Idam na mam' which should be followed in life to take care of conservation action.

Dr. Ganesh-Wankhede Head, Department of Zoology, Amravati University gave a keynote address on world of spiders. His area of interest being Arachnida he has collected over 95 different species of spiders in a span of 5 years. In his speech, he explained how tiny creatures



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like spider are important in detritus cycle. Their role in enriching humus was elaborated. Many morphological peculiarities of spiders were also described with beautiful pictures. Commercial applications of spider web (silk used in the web) were also explained. Medicinal importance of spider web, spider venom was also one of the points in his discussion. He expressed a concern over threat to spiders due to modern agricultural practices. It thus, exhibited the significance of an otherwise insignificant organism spider.

Dr. Raju Kasambe, Scientist, Bombay Natural History Society gave a talk on Indian Grey Hornbills. The courtship behavior and parental care in grey hornbill as he explained was found to be fascinating. Many specs of information were give by him about nesting in hornbills, certain peculiar habits like collection of pieces of bark, feeding young ones and female by the male really enriched the audience.

Dr. Vinay Deshmukh, Principal Scientist, Central Marine Fishery Research Institute, Mumbai delivered a talk on Indicator Species. Animal or plant species as indicator of a particular environmental state was explained by him with various examples. He invited students to be careful while collecting specimens during excursions as excessive exploitation can affect the food web. In his lecture lichens and dragonflies were shown to be indicator of good air quality and owls as indicator of old forest. He introduced the concept of exploitation ratio for conservation.

Next keynote address was by Dr. Goldin Quadros Senior Scientist, Salim Ali Center for Ornithology Natural History. He talked about the rich flora and fauna in Maharashtra. The various ecosystem services and their importance were also stressed upon. Carbon sequestration to mitigate air pollution was discussed in the lecture.

Dr. Raghunandan Athalye, Associate Professor, Department of Zoology, B. N. Bandodkar College of Science addressed the gathering there after. He described the rich biodiversity of Thane creek of the last twenty years ago. It was illustrated in the talk as to how pollution took a toll on this biodiversity and today the area has become a dumping place for solid wastes. The urgent need for proper solid waste management so as to minimize the pollution was stressed. Awareness amongst the researchers was stated to be need of the hour.

The second day of the conference started with the keynote address of Dr. R. Nagrajan Faculty, Department of Zoology, AVC College, Chennai. He gave a talk on behavioral peculiarities of oystercatchers. While foraging the birds were said to be cracking shells through particular points of the shell. He also discussed selection of bivalves by the birds according to the nutrient content of them.

Dr. Geetanjali Deshmukhe Principal Scientist, Central Institute for Fishery Education, Mumbai gave a talk on marine biodiversity in Maharashtra and the role of community. The expanse of mangrove cover in Maharashtra and the threat to it due to developmental activity, agriculture and pollution was stressed upon. She explained how edible marine algae can be used as vegetables.



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Dr. Narsinh Thakur Senior Scientist, National Institute of Oceanography, Goa delivered a lecture on DNA bar-coding. Apart from explaining the methodology in DNA sequencing and DNA bar-coding, he updated our knowledge on application of the technique for taxonomy and identification of species. The lecture also elaborated techniques of Molecular marking and its importance. The different gene banks and access to them was also discussed. In the current research scenario, information about bar-coding technique is essential in almost every species' level identification, particularly when it comes to study of biodiversity.

Dr. Kauresh Vacharajani Associate Professor in Zoology, M.S. University, Baroda delivered a talk on ecologically sensitive marina. He stressed the importance of interdisciplinary research for better understanding of various aspects of biodiversity. Some pictures showed varying pattern of ripples on the sandy intertidal zone. The formation and pattern of burrow formation by crabs was studied by applying technology like, digital X-ray, CT scanning, etc and underground activity of the crabs was investigated. Aerobic and anaerobic areas around the burrows and also the importance of soil turnover by crabs were explained by him in the presentation. Hazardous effect of events like oil spill, pollution on coastal biodiversity was discussed in the talk. Shipwrecking units in Gujarat were shown to be responsible for significant harm to marine life.

Ms. Gauri Gurav Education Officer, WWF-India, Mumbai gave a talk on Environment Education. She conveyed the benefits of imparting environment education at young age. It was explained that, awareness can be generated in school and college kids through environment education.

Dr. Baban Ingole Chief Scientist, National Institute of Oceanography, Goa gave a talk on Coastal Biodiversity and Ecosystem Functioning. He insisted upon involvement of people in conservation and sustainable utilization of ecosystem services. Significance of the conference and its title was discussed in details. He explained human involvement in caring for nature with the example of efforts put in by him and his team in restoration of Chilika Lake and its proper saline nature. Conference as an initiative towards conservation was appreciated in his lecture.

The conference was attended by 216 participants which included 142 students of B.Sc, M.Sc and Ph.D and 32 teachers and 5 researchers of B.N.Bandodkar College of Science. There were 31 participants from other colleges and institution from Mumbai while 6 were from various institutions across the country.

The Valedictory function was presided over by Dr. Baban Ingole, Principal Dr. Mrs. M.K. Pejaver, Vice –Principal Dr. R.P. Athalye and Organizing secretary Dr. Mrs. P.N. Kurve. Dr. Ingole was impressed and appreciated the overall arrangement and management of the conference. Dr. Kauresh Vacharajani shared his views about the conference as a participant. He lauded the discipline and the entire organization of the conference. All the keynote speakers and guests were pleasantly surprised by the involvement; participation and discipline maintained by the students throughout and the students were spell bound by the research carried out by the keynote speakers. Guests and keynote speakers were also all praise for the entire organization effort in the conference.



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- 6) **Basic Microbiological Technique Workshop:** Department of Biotechnology and Microbiology had organized a three day workshop on basic microbiological techniques for students. The workshop would be conducted in two batches. The first batch was conducted on 2nd, 3rd and 4th April 2014 in the Microbiology laboratory. The workshop covered techniques which are not included in Biotechnology syllabus, but are important in their career, such as bacteriophage assay, use of selective media and biochemical tests for identification of microorganisms, acid fast staining etc. Seventeen students attended the workshop. Dr. Kalpita Mulye, Ms. Jayashree Pawar, Ms. Rutuja More, and Ms. Vanita Gadagkar conducted the theory and practical sessions. The students were also provided with hand outs and online self learning microbiological resources. This workshop received immense response and immediately second batch was arranged for students on 10th, 11th and 12th April 2014.

vi) Carnivals:

1. **Physics Carnival 2014:**

Soon after the New Year, the much awaited festival 'Physics Carnival' of B.N. Bandodkar College of Science saw its commencement from 22nd to 27th January, 2014. The event was inaugurated by honourable Prof. Athlye, Vice Principal, Degree College. The events saw young enthusiastic physics students from B. N. Bandodkar as well as other colleges participating in various competitions organized for them. The 'Department of Physics' wore a festive look. 22nd January, saw the interests of eager physicists taking part in various 'Demonstration Experiments', based on the theme 'Fun with science'. 37 students participated in the competition to demonstrate 34 varied physics experiments, related to our day-to-day life. Non-Newtonian liquid, ultrasonic waves to create fog, non-bursting balloon (!), magnetic levitation, bending of lasers, Orange lamp, water level sensor etc. were some of the experiments displayed. Dr. Manohar Nyayate, Head, Dept. of Physics, Prof Athlye and other physics professors were spell bound by watching the enthusiasm of these students. It was indeed a very PHYSIONIC experience!

2. **KIOSK - Department of Biotechnology and Microbiology:** Department of Biotechnology and Microbiology organized one day Departmental fest KIOSK on 4th January 2014 in Patanjali Auditorium. Dr. Kalpita Mulye, Coordinator, Department of Microbiology inaugurated the fest and also addressed the students. This has been second consecutive year of the fest. Students of S. Y. B. Sc. Biotechnology and Microbiology had organized the event. The fest started at 7.30 a. m. with 'Biorangoli' - a rangoli competition involving executing biological concepts in rangoli. In addition to this, students from all classes enjoyed participation in various competitions like Bang on time, Quiz and Treasure Hunt. Faculty members of the Department judged different events. Prize distribution was in hands of Principal Dr. M. K. Pejaver. She encouraged the students and appreciated their efforts in her speech. Ms. Jayashree Pawar delivered concluding address.

vii) Science Square Activities:

An event to commemorate the National Science Day was held in the Patanjali auditorium on 28th February, 2014 at 10.00 am. jointly organised by science square committee and Library committee . Dr. R. P. Athalye inaugurated the programme and addressed the students. He delivered a heart-warming speech and motivated the students to continue working on such innovative research projects. His positive feedback on the posters was instrumental in stimulating new ideas and inspiring the students in their future studies.



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He gave an important message to the students to stay focused on their goals and ambition as these are the formative years which are the foundation of their careers.

After this, an introduction of the National Science Day was delivered by Dr. Pooja V. Jagasia. She highlighted the importance of National Science Day and made the students aware of the contribution of Prof C. V. Raman Sir to science by the discovery of Raman effect. She not only motivated the students but also expressed appreciation for their enthusiastic and voluntary participation, without which this event would not have been successful. She also encouraged the students and teachers present to visit the book exhibition on Marathi vidyan and nanotechnology hosted by the Library Department headed by Mrs. Kadambari H. Manjrekar. Also 2013 was the International statistics year, so wall papers on eminent statistician were displayed under the guidance of Mrs. M. J. Gholba. *Following this the poster exhibition began. Many departments including Chemistry, Botany, Mathematics, Statistics, EVS, IT had participated in the event. The Poster presentation session was really interactive. Total 15 posters including 28 students and 10 teachers participated in the same.*

viii) **Research Committee:**

1. **Lecture was organized on 16th July 2013** for research students including undergraduate post graduate, Speaker was Dr. R. T. Sane Director, Guru Nanak Institute of Research and Development, emphasized on National Facilities for Biopharmaceuticals (NFB) situated at G.N. Khalsa College Matunga. He spoke on "NATIONAL FACILITY FOR BIOPHARMACEUTICALS."
2. **Lecture was organized on 16th July 2013** for research students, speaker Dr. Pushpalata Sarjekar, Senior Manager, ARCH Pharmalabs Ltd gave the information about PATENT TECHNOLOGY.
3. 'Career after Post-Graduation in Chemistry' and 'How to prepare for NET (National Eligibility Test)' on 7th September, 2013.

ix) **Friends of Library:**

Book display/poster display were arranged to aware the students about great personalities, importance of specific days, to improve their General Knowledge, library has take the initiative and arranged different Book Exhibitions, information Displays, Wall papers on various themes. This year following days were celebrated.

Book Exhibition	<ul style="list-style-type: none">• Mahatma Gandhi on 30th Jan 2014• Swami Vivekananda Jayanti 11th Jan 2014• National Science Day 28 Feb 2014
Information Display	<ul style="list-style-type: none">• Savitribai Phule Jayanti, 8th Jan 2014• World Kidney Day - 13 March 2014• World Sparrow Day - 20 Mar 2014• World Water Day 21st March 2014• World Meteorological Day 23th March 2014



E) EXTRA-CURRICULAR ACTIVITIES:

i) Cultural:

- **46th University Youth Festival 2013 – 2014** :The 46th Intercollegiate Competitions (Youth Festival) of Mumbai University Zone IV, (Thane Central) for the Year 2013 – 2014 was hosted by B. N. Bandodkar College of Science, Thane on Monday 12th August 2013. Around 23 colleges comprising of 1200 students participated in various events like Dance, Music, Theatre, Literary and Fine Arts. The Programme started with One Act Play (Marathi). Nine colleges participated in this event which was judged by Mr. Angad Mhaskar well known cine Actor, Mr. Rajan Patil and Mr. Hemant Bhalerao. Competitions in music (Indian / Western vocal & instrumental) were judged by Mr. Prashant Kalundrekar, Mr. Vivek Bhagwat, Mrs. Varada Godbole, Ms. Indumati Pethe, Mr. Rushiraj Salavi, Mr. Mukund Marathe, Mr. Vidyadhar Oak, Mr. Bhushan Nagdive, Mr. Joy Day, Ms. Romiya Day, Mr. Gautam Vaidya who appreciated the performances of around 70 students from 20 colleges. Dance event started with great pomp & show with various students eagerly dressed up and waiting for their performances. Classical & Group Folk dance was patiently observed by the judges Ms. Radhika Nair, Ms. Madhuri Deshmukh, Ishani Desai, Jitendra Chaudhary & Mr. Naresh Megeri. Around 100 students from 15 colleges participated in this event. Theatre events like mono Acting (Group A) & skit were judged by Mr. Rahul Vaidya, Mr. Ashok Kendre & Mr. Ramkrishna Gadgil, Around 130 students from 22 colleges participated in these events. Remaining theatre events like Mime, One Act play & Mono Acting (Group C), Mimicry was judged by Mr. Bhalchandra Jha, Mr. Pradeep Rane & Mr. Naryayan Jadhav well known Actor. It involved the participation of around 70 students from 23 colleges. Literary events like Elocution & Debate (Group A & C) involved the participation of about 60 students from 20 colleges and were judged by Dr. Ajay Kamble, Mr. Vaibhav Jagtap, Prof. Sunil Patil, Mr. Neeraj Pandit, Mr. Mahesh Bhagwat and Dr. Manprit Kaur. Fine Art events like Rangoli, on the spot painting, poster making, cartooning, clay modeling, and collage got good response from 104 students of 20 colleges. The judges Mr. Amit Sonawane (Principal, Arts School, Vashind) and Mr. Sunil Nandoskar appreciated the performances of the students. District coordinator Prof. Nitin Arekar, Mr. Deepak from student's welfare Department. Principal Dr. Mrs. Madhuri Pejaver, Vice Principal of Junior College Mr. Haribhau Katkar, Supervisor Mrs. Pushpa Krishnan, Prof. Prakash Mali, Cultural Coordinator & Judges were present for the prize



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distribution ceremony. Joshi Bedekar from Thane bagged most of the prizes followed by CHM College, Ulhasnagar.

- **“Kalakar Tumchya Bhetila”**: This program was organized on Friday 6th December 2013 to entertain, enlighten and motivate the students for career in music, theatre and films. Mr. Vighnesh Joshi Marathi TV Serial Actor, Mr. Mohan Pathak Director and producer, Mr. Soham Pathak Musician, Mr. Raju Patwardhan Cine Actor and Actress Mrs. Purnima Ahire were invited for the programme. Mr Vighnesh Joshi came with the superb poem for teenagers. Very young and talented Mr. Soham Pathak who is just 21 years old won the Maharashtra time's award for music. He told the students to listen to your heart no matter what. Mr. Mohan Phatak shared his experience in film industry. His punch line was if you sow your seeds now and water them daily, then only you will get a big green tree tomorrow.. Mr. Raju Patwardhan who played a character in three idiots and even various drama came up with wonderful messages. Last but not the least the laughter of Maharashtra; Mrs. Purnima Ahire started her speech with her famous laugh. She welcomed young talents to come into film industry .At this occasion Mr. Raturaj Sawant, Ms. Aishwarya Rane and Mr. Shubham Chaughule from F.Y.J.C performed the mono act and received suggestions from respective guests. Nearly 200 students and Teaching and Non- teaching staff enjoyed the programme.
- **“Vedakshare”**: Cultural Association organized the programme on Calligraphy on 7th Dec. 2013. Mr. Ram Kasture, Proprietor of Vedakshare Art gallery, a well-known artist in Calligraphy was the invited guest of honour. He explained the importance of legible hand writing for an artist. There was power point presentation of different ways of writing alphabets in English, Hindi and Marathi which makes the print look very impressive. Mr. Ram Kasture displayed “VEDATIL PAVITRA RUCHANCHE AKSHARCHITRA - VEDAKSHARE”. He exhibited T-Shirts with different forms of script embossed on it which was purchased by teachers and students. Fifteen teachers and eighty students attended the program.
- **Dance Workshop on Hip-Hop And Salsa**: A dance workshop was organised on 14th Dec. 2013. Mr. Rajdeep Pilawan, the managing director of Dance Villa, an architect by profession and having a passion for dance, along with Priyanka Nimbkar, AbhijIt Pol, Sophiya Koli (Student of B. N. Bandodkar College) conducted the workshop. Mr. Pilawan's intention for teaching these new dance forms of HipHop and Salsa was to spread international Latin dance. He taught the steps so passionately that even the non-dancers got in to the mood to groove. About 150 students from Junior and Degree College and about 15 teachers participated in the 2 hours workshop.
- **Workshop On Drawing & Painting**: The cultural association organised the helpful workshop on Drawing & Painting (Fine Arts) on 19th December 2013. Mr. Swapnil Padhye from T.Y.B.Sc



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(I.T.) of our own college gave valuable tips to draw the poster and also how to paint the same poster with different colours. Near about 35 students from Junior & Degree College participated in this workshop.

- **Annual Programme "Aakanksha":** As a part of Aakanksha various indoor events such as Rangoli, Bridal Make up, Mehendi, Tattoo Making, Flower Arrangement, Vaggi Art, Poster Paintnig, Cartoon Drawing, Photography, Love letter writing, Nail Art etc. were organized. The judges for these competitions were Mrs. Charulata Deshmukh, Incharge Physics Department and Mrs Ishita SenGupta, Teacher in English (Dnyansadhana College, Thane), Mrs. Jayshree Solenki & Mrs. Preet Tuli, Proprietor, Beauty Parlor, Thane also Dr. Moses Kolet from our own college. Outdoor activities of Akanksha were formally inaugurated by Mrs. Gauri Subramanian, Head Physics Department, Menon College, Bhandup and Mr. Narayan Barse, Librarian, from Joshi Bedekar College, Thane on 23rd December 2013. The first event was personality contest. Out of 150 students Mr. Satish Shinde from TYBSc was selected as "Mr. Bandodkar" where as Miss. Manali Kunte from TYBSc "Miss.Bandodkar" through this contest. Mr. Narayan Barse and Mrs. Gauri Subramaniam were the judges for this event. This programme was compared by Mr. Frhan Ansari and Ms. Pranali Shetty.

Personality contest was followed by Acting chi Factory. Prof. Anil Bhabar, from Joshi Bedekar College, Thane was the judge for this competition. Out of 20 students Mr. Yadav and Group won the first prize in this competition. On the same day group dance competition also took place. About 61 students gave their performances before a large crowd of students, teaching and non teaching staff. Mrs. Neha Dixit, Owner of Dance Academy in Mulund and Mrs. Shilpa Working as a Dance Teacher in Nalanda School, Thane were judges for this competition. The first prize was awarded to Miss. Chetana and Group while phaenix group and Mr. Kush Kode and group own second and third prize respectively.

On 24th December 2013 the first event was light vocal singing competition. About 22 students participated in Singing Competition. Mrs. Kirti Agashe, ME (Electronics), Head of Electronic Department, VPM Polytechnic, Thane was the judge for this event. Mr. Rohit Thakur from FYJC secured the first prize in Light Vocal solo and Anay Mali and Rohit Thakur from FYJC secured first prize in duet singing competition. Special performance was given by Prof. Prakash Mali through his folk song. The audience literally rocked due to his electrifying performance.

Solo & duet competition started late in the afternoon. 38 groups participated in this competition. Judges were Mrs. Neha Dixit & Mrs. Shilpa. Miss. Spohiya Koli, from SYBSc secured the first prize in solo and Mr. Rupesh Farade and his partner secured the first prize in duet dance competition. Our beloved Principal Dr.Madhuri Pejaver madam along with Prof. Prakash Mali, Cultural Coordinator and Ms. Sonal Mathias from Biotechnology also presented an exclusive performance on traditional folk lore which is a form of "Garba" "Rangilo Maro Dholna". The most awaited event "Fashion Show" started early evening. Total 104 students participated in this event. "Empower Girls" selected as best group. Ms. Rohini Singh won the best choreographer prize while Mr. Surendra Vishwakarma selected as best model (Male) and Ms. Soniya Benjamin selected as best model (female) in this competition. The judges were Mr. Nitin Pagi, M.Com, Assistant Professor, & Mrs. Urmila Gawade, M.Com., B.Ed., pursuing MBA working BMS department from Joshi Bedekar College. After this event Judges, teaching and non teaching staff, Association members and volunteers of Cultural Association did the ramp walking. Students were highly excited to watch their teachers walking on the ramp.



ii) SPORTS:

Gymkhana Indoor activities were started from 11 th June 2012. Mr. Pradhan Mayuresh Nikhilesh (T.Y.B.Sc.) was selected as Gymkhana Secretary for the year 2012-2013.

Participation of Students in various Competitions:

About 189 students from Junior and Degree College participated in Group Events as well as Individual Events in tournaments / competitions arranged by Zilla Parishad, University and State Level.

Group Participation and Achievements:

1. Chess: Our Degree college team participated in University of Mumbai organized Tournaments. Our Junior College boys' team participated in District Level Chess competition. VARUN ARJUN VAIKAR (F.Y.J.C) & NEHA RAMAKANT GUPTA. (S.Y.J.C.) are selected for Division Level in Chess competition organized by Zilla Parishad.
2. Cricket: Our Degree college & Junior college Cricket team participated in Inter collegiate Cricket Tournament of University of Mumbai & Tournaments organized by Zilla Parishad under the able guidance of our cricket coach Mr. Kiran V. Salgaonkar.
3. Table Tennis: Our Degree college Boys' team participated in Table Tennis Inter colligate Tournaments of University of Mumbai. Our Junior college boys' & girls' team participated in Table Tennis competition organized by Zilla Parishad. ASHWINI SACHIN CHAWATHE (F.Y.J.C) & APATE BHAIKAVI BALKRISHANA (F.Y.J.C.) were selected for Division Level.
4. Athletics : Two Boys from Degree College participated in Inter colligates Athletic Meet of University of Mumbai. Our Junior college boys participated in District Level Athletics competition organized by Zilla Parishad.
5. Football: Our Degree and Junior College Football Team participated in different competitions under the able guidance of our Football coach Mr. Aloysius Vaz. Our Degree college Boys' team participated in Football Tournament of University of Mumbai Our Junior college boys' team participate in District Level Football competition organized by Zilla Parishad.
6. Kho – Kho : Our Junior college Boys' team participated at District Level tournament organized by Zilla Parishad.
7. Power Lifting: Our Degree College students JAGTAP SAMEER SHRIKANT & JADHAV SOHAN SIDDHESHWAR won BRONZE Medal in Power Lifting Tournament organized by University of Mumbai.



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8. Kick Boxing: Our Junior college student AARATI SURESH JAGDALE (F.Y.J.C.) won Bronze Medal in District Level Kickboxing competition organized by Zilla Parishad.
9. Shooting: Our Degree College girl Student participated in Shooting Competition of University of Mumbai.
10. Taekwando: Our Junior College girl Student AARATI SURESH JAGDALE (F.Y.J.C.) won Bronze Medal in District Level Taekwando competition.
11. Carrom: Our Degree college Men team participated in Inter collegiate Carrom Tournament of University of Mumbai. Junior college Boys' & Girls' team participated at District Level Carrom Competition Organized by Zilla Parishad
12. Judo: One of our Degree College girl Student participated in Judo competition of University of Mumbai. Our Junior College girl Student AARATI SURESH JAGDALE (F.Y.J.C.) won Bronze Medal in District Level Judo competition. Organized by Zilla Parishad
13. Badminton: Our Degree College Men and Women team participated in Inter collegiate Badminton Tournament of University of Mumbai. Our Junior college boys' team won in District Level Badminton competition and was selected for division level Badminton competition.
14. Swimming: Our Degree College Men and Women participated in Inter collegiate Swimming Competition of University of Mumbai. Our Junior college boys' & girls' team participated in Swimming competition. SIYAL AMISH ANANT (F.Y.J.C.) (50 mts Breast) & PAWAR SHARDHA YUVARAJ (F.Y.J.C.) (50 mts. Breast, 50mts Free 100mts Breast) were selected for Division Level.
15. Yoga: One of our Degree College boy Student participated in Inter collegiate Yoga competition of University of Mumbai
16. Volleyball: Our Degree college Boys' team participated in Inter collegiate Volleyball Tournament of University of Mumbai. Our Junior college boys' team participated in District Level Volleyball competition.
17. Handball: Our Junior college boys' team participated in District Level Handball competition organized by Zilla Parishad.
18. Cross Country : Our Degree college Boys' team participated in Inter collegiate Cross Country Competition of University of Mumbai.



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Individual Participation and Achievements (Students' Participation)

Sr.No.	Name	Tournament / Competition	Medal	Organized by
1	Jagdale Aarati Suresh	Judo, Kick Boxing, Taekwondo	Bronze Medal at District level	University of Mumbai
2	Chawathe Ashwini Sachin	Table Tennis	I st Rank	Zilla Parishad
3	Apate Bhairavi Balkrihna	Table Tennis	IInd Rank At District level	Zilla Parishad
4	Siyal Amish Anant	Swimming	I st Rank	Zilla Parishad
5	Pawar Shardha Yuvaraj	Swimming	I st Rank	Zilla Parishad
6	Jagtap Sameer Shrikant	Power lifting	Bronze Medal	University of Mumbai
7	Jadhav Sohan Siddheshwar	Power lifting	Bronze Medal	University of Mumbai

Annual Sports Activities:

Indoor Activities were held from 30th November 2012 to 14 th December 2012. Annual Athletic Meet was organized on 20 th December 2012 on college ground. 244 Students and 35 teaching faculty participated in various events.

Annual Sports Prize Distribution Ceremony 2013 – 2014

The Annual Prize Distribution ceremony of the gymkhana for the year 2013-2014 was held on 16th January 2014. The chief guest for the occasion was Mrs. Minal Palande, Chhatrapati Puraskar winner, Sports officer, Thane Municipal Corporation, Thane.

Gymkhana secretary Ms. Mrudula Sawant then addressed the audience by presenting the annual report of gymkhana. She began her talk with an inspiring Japanese poem. She mentioned fulfilling her clear objective of increasing the girls' participation in various sports activities.

Respected Principal Dr. Mrs. M. K. Pejaver began her address by congratulating gymkhana secretary for her successful tenure mentioning the increased participation of girls. In her talk she highlighted the importance of sports in maintaining the total health and importance of yoga in long run.

Chief Guest of honour Mrs. Minal Palande congratulated all winners and found worth mentioning the increased participation of science college students in various sports events. She also assured us that she would be there as resource person in future to guide students in their career in sports. 200 students, 50 teaching and 30 non-teaching staff participated in this function.



iii) Literary:

Gandhi Vichar Sanskar Pariksha

Literary Association conducted “Gandhi Vichar Sanskar Pariksha” for “Gandhi Research Foundation”, Jalgaon, for Junior college and Degree College students on 10th October 2013. This competition was held as a part of celebration for Gandhi Jayanti, which falls on 2nd October 2013. Four types of books – in three languages- Hindi, English and Marathi, were distributed among the students.

The medium for examination was Hindi, or English or Marathi. One hundred eighteen students participated in the competition as follows:

Students	Numbers of females	Numbers of males
Degree College	52	07
Junior College	38	21

F) EXTENSION ACTIVITIES:

i) NSS:

1. Yuvak Biradari Bharat organized State Level Camp ‘Yuva Sneh Chhavani 2013’ at Mahiravni, Traimbakeshwar Road, Nashik. 27th April 2013 to 1st May 2013. 03 volunteers Mr. Prashant Raghwan, Mr. Amit Hande, Mr. Suhas Gosavi participated in the camp.
2. Volunteers participated at State level camp further selected for national level camp. Yuvak Biradari Bharat organized National Level Camp ‘Yuva Sneh Chhavani 2013’ at New-Zealand Hostel, Aare colony, Goregaon. 26th May 2013 to 2nd June 2013.
3. Governor of Maharashtra created a force that will help the administrative system at the time of disaster. NSS volunteer Mr. Prashant Raghwan from S.Y.B.Sc. participated at Avhan, organized at Swami Ramanandtirtha Marathwada Nanded, from 2th June 2013 to 12th June 2013.
4. 100 Trees planted on 28th July at Airoli near Highway in association with Hariyali, NGO based at Thane.
5. On 4th July, 16th July and 2nd August 2013 Orientation Programmes were arranged for new enrolment in NSS and for existing volunteers to discuss plans and its execution.
6. 100 trees planted and post plantation care activities conducted on 14th and 21st July 2013 at Monda Dongar, Kajupada, Ghodbunder road, Thane, in association with Hariyali, NGO based at Thane.
7. On 09th August 2013 50 Volunteers attended Seminar organized by Enviro – Vigil, Thane on “Carbon Foot printing” by Dr. Priyadarshini Karve at Marathi Granth Sangrahalaya.
8. 1500 saplings prepared at BMC – Hariyali Plant Nursery, Mulund, on 04th and 11th August 2013 in association with Hariyali, NGO based at Thane.
9. 50 Volunteers managed Mob Control at “Youth Festival 2013” of University of Mumbai on 12th Aug 2013 organized by B. N. Bandodkar College of Science, Thane.
10. Yuvak Biradari Bharat, organized a programme “Ek Sur Ek Tal” at Savitri Bai Phule Rang Mandir, Dombivali (East) on 14th August 2013. 23 Volunteers participated in this event. With NSS leader Mr. Prashant Raghwan.



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11. 125 volunteers participated at "Rally- Project Tiranga" organized by A Kartavya Foundation on 15th August 2013 at Thane City.
12. 150 volunteers participated for Flag Hoisting on 15th August 2013 at college campus.
13. Interactive session organized on Friday, 16th August 2013 'How to Manage Money and be a Smart Investor' in three sessions, sponsored by National Stock Exchange (NSE) in association with Consumer Guidance Society of India (CGSI).
14. 02 volunteers attended Workshop on "Water Audit" to sensitizing college students for optimizing water use their colleges, organized by Indian Institute of Environmental Medicine on 28th August 2013 at Kasturba Hospital, Byculla, Mumbai.
15. "NSS Garden Theme Park" designing and execution started from 18th August 2013 and continued work on 01st September 2013 at college campus.
16. 2200 Rakhis (Rs.10/-each) sold by volunteers to support mentally and visually Challenged children in association with SOBATI, NGO based at Thane.
17. NSS Unit organized First Blood Donation Drive in the college on 21st August 2013 in association with Deepak Foundations, Anviksha Blood Bank and Lions Club of Kanjurmarg. 162 Units of blood collected during the drive.
18. 02 Volunteers along with Programme Officer participated at 02 Days "Chhatra Sansad" on 24th and 25th Aug.2013 at Prashikshan Shibir Shram Vigyan Sanstha, Parel, Mumbai in association with Chhatra Bharati and V. S. Page Sansadiya Prashikshan Kendra, Maharashtra Vidhanmandal, Sachivalaya.
19. 25 volunteers attended workshop on "Electoral Roll" of Election Commission of India, organized by Joshi Bedekar College in association with NGO 'Mera Vote Mera Haq' on 11th August 2013.
20. 05 NSS leaders are participating at 05 days Leadership Training Programme from 2nd September to 06th September 2013 at Tyson Farm House, Goveli, Kalyan.
21. 03 volunteers participated at UTKARSH A Cultural Fest Elimination Round at District level organized at Karnataka Sangha's Manjunatha College of Commerce Thakurli (E). Ms Pratiksha Taleker and Mr. Akshay Gavkar cleared the round and selected for University level round. They performed at NSS Cell. Further Akshay Gavkar selected for state level. He performed at Bhartiya Vidyapeeth, Pune on 14th December 2014.
22. Mr. Prashant Raghatwan, student of S.Y.B.Sc. selected for Pre State Republic day / National Republic day camp. He reached at three rounds of selection.
23. NSS unit of our college was the host to conduct "Consumer Empowerment Programme" for Thane District 59 colleges (Central Line) organized by Consumer Protection Service Council (CPSC), Thane on 24th October 2013. 300 volunteers participated in the event. "What is Consumerism?" session conducted by Mr. Ganesh Gopal Joshi, national President, Consumer Protection Service Council (CPSC), Filling of consumer Complaints, acts and laws session conducted by Advocate Mr. Anand Patwardhan, Food adulterants and its menace session conducted by Mr. S.R. Shenoy, Principal Scientist, UDCT and Food Adulterant Testing Demo shown by Mr. Gajanan Patil, Project Officer, CPSC. Food Adulterant Testing Kit developed by NSS unit and CPSC to for consumers. Participants were enlightened with the topic of Consumer Empowerment as it is a need of the hour.



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24. NSS unit of our college organized Health Check up camp in association with Social Youth Foundation and Dr. D. Y. Patil College of Medicine, Navi Mumbai, at Maan Ashramshala, Maan Village, Vikramgad (Adopted Area) on 11th October 2013. 550 students were examined for Eyes, Ear, Nose, Throat and general check up. Medicines were given to the students.
25. In collaboration with Thane Collecterate NSS unit organized Disaster Management workshop on 10th and 11th Oct. 2013. The training was given by Dr. Jaydeep, Project Officer, Thane Disaster Management Cell and officers from Home Guard. The various aspects of Disaster Preparedness, actions to be taken at the time of disaster and post disaster help by volunteers explained by them. The availability of material and making of equipments and stretcher concept taught thoroughly. The first AID at the time of disaster and managing psychology of victims are discussed.
26. On the 1st December 2013, HIV AIDS Day, NSS Unit of our college participated at "Prabhat Ferry" at Thane, organized by Civil Hospital, Thane to mark HIV AIDS Day with the Slogan of "Getting to Zero". 500 volunteers participated from different NSS units, civil hospital, nursing college, AIDS patients and groups of Eunuchs.
27. NSS unit organized Talk of Ms. Mukta Dabholkar from Andhashraddha Nirmoolan Samiti (ANIS) on the issue of "Assassination of Shri Narendra Dabholkar". She talked on various issues of Cheating by BABAs, "Andhashraddha Bill in the Sansad, role of youth in this movement. Mrs. Vandana Shinde, volunteer of ANIS demonstrated tricks and techniques of BABAs and scientific base of the same.
28. Civil hospital in association with University of Mumbai organized Blood donation drive on 26/11/13 at Thane station. NSS unit of our college took lead to arrange it and motivated blood donors at Thane stations. 75 units of blood collected during the drive.
29. From environment conservation point of view and to celebrate pollution free festivals, Thane Municipal Corporation, in association with Jidnyasa Trust, Thane, first time on practical basis organized Demonstration Project on "Thermocol reduction to 98%". NSS unit of our college as a part of conservation project shouldered the responsibility to create awareness amongst Thane citizens in collaboration with Thane Municipal Corporation and Jidnyasa Trust, Thane, and demonstrated Thermocol Reduction to 98% technique at various malls such as Viviana Mall – Eastern Express Highway, Big Bazar – Kapurbawadi, R- Mall – Lawkim, Ghodbunder Road and Hypercity – Kasarvadavali, Ghodbunder Road, Thane on Saturdays and Sundays from 19th October 13 to 27th October 13. Volunteers appealed citizens not to throw used thermocol in any water bodies but reduce to 98% and help Municipal Corporation in environment conservation at local level to contribute at global level. Further jelly prepared from thermocol used to prepare various articles. The technique of reduction of thermocol by treatment of acetone to 98% is developed at Dr. Homi Bhabha Nuclear Research Centre by senior scientist Dr. Devidas Naik.
30. Seven days residential camp at Maan Ashramshala, Maan Village, Vikramgad from 26th December 2013 to 01st January 2014. Activities such as hand writing, essay, elocution competition, sports and cultural activities conducted for ashramshala students from class I to X. NSS volunteers were the guide, mentors, skippers and coach for such activities and competitions were judged by accompanying professors. IG awarded Mr. Bhupendra Mishra conducted self discipline, self defense, mind games and physical training for



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volunteers. Yoga teachers Mrs. Mahale, Mrs. Laxmi and Mr. Tushar from Ambika Yoga Kutir, Thane conducted Yoga sessions for ashramshala students and our volunteers. Various ministries (Departments) were formed through election and responsibilities of work for the 07 days, such as education, discipline, food, sports, cultural, labour and over all in-charge were shared by the volunteers. Shramdaan activities were performed by the volunteers such as NSS garden Theme Park, Kitchen garden, Volley ball court, steps created on the way to Deharje River and marking of boundary, in the campus etc.

31. Andhashraddha Nirmoolan Samiti volunteer Mrs. Vandana Shinde conducted session on scientific approach towards miracle and facts. Under her able guidance, 31st December 2013 was celebrated at Cremation ground to understand the mis-conception of ghosts and its existence. The activity was well covered by e- media such as Z-24Taas and IBN Lokmat as well as by print media Pudhari. Volunteers performed at various segments such as street play, TV AD, Radio AD on social theme, covering the events by e-media cameraman and journalist.

ii) NCC:

Lecture on Interview Skills:

An invited lecture by NCC alumni Mr. Devdutt Kadrekar, Head (HR), Lloyd's Register, Asia, was arranged on Saturday 17th August 2013. The topic selected was 'Interview skills'. The eminent guest has been conducting interviews for several corporate giants in India as well as abroad and he readily shared his vast experience with the gathering that comprised of 67 students and 8 faculty members. In his presentation, the speaker started with the basics of interviews, guided students on various aspects of preparations for interviews, how to present oneself for interviews, what and what not to ask from the panel and above all how to banish fears of interviews and rejection.

Mr. Prashant Bagade, another NCC alumni and marketing executive, summed up the session, during which the gathering was also guided on how to derive the maximum benefits from such lectures.

iii) DLLE:

- The first DLLE meeting was held at the DLLE office, Churchgate on August 3rd 2013. The teacher coordinator and three student managers attended the same.
- After completing the enrolment, meeting of enrolled students for the same was held in college on 14th October 2013. 102 students enrolled for the programme. (No. of girl students 86, No. of boy students 16).
- The programmes undertaken were
 - (a) Social status of women SWS (b) career project CP (c) Annapoorn yojna APY.
- Other programmes conducted were for entrepreneur skill development such as mehendi , hairstyle, instant food and chocolate making, imitation jewellery.
- From 27TH Oct. 2013 to 29TH Oct. 2013, four Hrs/day imitation jewelry making workshop was conducted. 12 students participated.



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- Instant food and chocolate making was conducted on 25th October for 6hrs duration. No. of boy student one and one male staff member from physics department, no. of girl student participants were fourteen.
- Earthen pot painting is done by girl students and almost 70 pots of various sizes were sold this year.

iv) Jagar Jaanivancha:

1) **The following competitions were held in association with literary committee:**

- Elocution competition for the languages English and Marathi on 6th and 7th September 2013. 63 students participated. Mr.Bipin Dhumale and Mr.Anil Athavle were the judges for Marathi elocution while Mrs. Thomas was the judge for English.
- Essay and handwriting competitions on 27th July and 6th August respectively. 67 students participated. Some of the topics for essay competition included "Child abuse", 'Natural calamities', 'Cyber crime'. These were judged by Mr.Bipin Dhumale, Mr.Anil Athavle and Mrs. Thomas. Mr.Avinash Burange judged the handwriting competition.
- Poetry and story writing competition on 3rd October 2013 and 4th September 2013 respectively. The topics for poetry were love, nature, corruption. 50 students participated in poetry while for story writing there were 8 participants.
- Quiz competition on 7th December 2013. 131 students participated.
- Poster and slogan competition on 2nd December 2013. The exhibition was inaugurated by Mr. Jaydeep (In Charge, Disaster Management, Thane). Topics allocated were Andhashraddha nirmulan, domestic violence and gender equity.
- Paryavaran Pradnya Pariksha 2013 on 14th December 2013 organised by Goa government. This exam is organised to spread awareness about conservation of the environment. 151 students participated and Kumar Gaikwad was the winner.

2) **Guest Lectures:**

- The first guest lecture was organised on 22nd August 2013 on the occasion of inaugural function of Jagar Janeevancha. The speaker invited was Mr.Uttam Kamble (Editor, Sakal newspaper). His talk threw light upon the overuse of technology and its effects seen in the form of decrease in interpersonal relationships. 250 students, teaching and non-teaching staff attended this event.
- Principal Dr.(Mrs.) M.K.Pejaver delivered a talk on 'Utkranti Janeevanchi' (An Evolution of Consciousness) on 25th September 2013. 230 students attended the session. During the 3talk, she explained about the importance of evolution process of the brain and feelings by the brain in the insects, animals and human beings. The development of various stages of various circuits of consciousness was well described. Dr.Pejaver also discussed about the importance of yoga, meditation and rekki practice.
- Workshop on Disaster Management was organised on 2nd December 2013. This was inaugurated by Dr. Jaydeep (In charge. Disaster Management, Thane). 140 students registered for this workshop.



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- 'Mukta Chintan' program was organised on 28th November 2013 in association with NSS committee of the college. Adv. Mukta Dabholkar (President, Andhashraddha Nirmoolan Samiti) was the key note speaker. She enlightened the students about superstitions, gender equity, black magic, etc and insisted that a new strong law against the practice of black magic and superstition is required. On this occasion, Mrs. Vandana Shinde (President, Andhashraddha Nirmoolan Samiti, Thane Division) showed how common man is deceived by demonstrating the tricks used in blackmagic, hypnotism, etc. 200 students attended this program.
- A session on 'Cancer Awareness' was conducted on 11th December 2013. Dr. Chetana Bakshi (M.D. oncologist) was the speaker. She elucidated on the causes and treatment of cancer and also emphasized on the different types of cancer reported in women.
- A lecture by Dr.Deepali Athavle on 'Balanced Diet' was organised to create awareness amongst students about the disadvantages of junk food. While interacting with the students, she stressed upon the nutritional requirements for youth and healthy diet.

3) **Street Plays:**

Street plays on various topics were performed.

- 'Rehabilitation' on 22nd February 2013. 15 students participated in the act.
- 'Crimes arising because of one-sided love' on 22nd august 2013.
- 'Female foeticide' on 22nd august 2013. 300 students attended the program.

4) **Rallies:**

- 'Shubhalahari' – in association with Shubhalahari Foundation and Tanishka Women Foundation on 21st September 2013 on occasion of World Peace Day. Messages like 'Save Girl child' and ' Stop domestic violence' were spread through this rally.
- 'Nirbhaya Rally' organised by VPM's Joshi-Bedekar College.
- 'AIDS Awareness' on 1st December 2013 on occasion of World AIDS day. 150 volunteers from cultural, NSS and NCC participated in this rally. This event included lectures, streetplays and interactive session to spread awareness about this disease.
- 'Walkathon' on 27th October 2013 in association with Fortis Hospital to impart the message about breast cancer and AIDS.

5) **Bhaasha Jagruti:**

- **Hindi Divas Programme:** Hindi Divas programme was conducted on 14/9/2013 by Hindi Department under Bhasha Mandal. The students performed one-act play on "Yuva Kranti Ke Sholey". They performed group dance on equality showing different cultures of India. The students from Junior and Degree College presented speeches on importance of Hindi language. The total students participated in dance/one-act play were more than forty. 350 students attended the programme. The Chief Guest for the programme was Shri Rampyare Singh 'Raghuwanshi', Assistant Manager in Mahanagar Telephone Nigam, Mumbai. He put forward his views on the importance of Hindi as the National Language uniting the entire country. He presented poems on topics related to the problems of women.
- **Sanskrit Day Programme:** Sanskrit Day was celebrated on 9th Oct 2013. It was organized by the Sanskrit department of junior college. The Chief Guest for the event was Mrs. Snehal



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Nandekar, Principal of 'Suravani Dyanmandir school', Thane. Students performed Bharanatyam dance on Sanskrit songs. They conveyed the message that Sanskrit which seems difficult is not at all difficult from Sanskrit song "Surassubodha". Wonderful speeches were given by students. It was also conveyed that Sanskrit is not dead language and is used in daily conversation. Sanskrit has given rise to concepts such as discovery of "zero" and its origin from Sanskrit. The relation of microbiology and Sanskrit was also explained by the students. The n followed the Sanskrit drama "Deepadanam" which was also brilliantly performed by students. The program concluded with the speech of chief guest who stressed on the rich grammar of this language and also highlighted the importance of pronunciation.

- **Marathi Day Programme:** Marathi Day Celebration was organised on 27th February 2013. The program was graced with the presence of famous comic actor Mr. Mandar Gaidhani as the Chief Guest. Various cultural and literary events were conducted. 250 students and teaching/non-teaching staff attended the programme.

v) College School Complex:

Educational visit to V.P.M's B.N. Bandodkar College by Sau. A.K. Joshi Students.

An educational and informative visit for the students of Sau. A.K. Joshi English medium School students of std. 9, was arranged on 28th and 29th January, 2014 between 8 to 12 noon. 6 groups containing 30 students each toured the various laboratories and college campus. 2 teachers accompanied the students on each day. The students were first scheduled to visit the Chemistry Research lab, where the process of sublimation and the titration of acid and base was demonstrated by Dr. Pooja V. Jagasia, Mrs. P. Krishnan, and Mr. P.S. Mali.

Dr. Anita Goswami-Giri explained to them the process of distillation, soxhlet extraction and working and uses of a spectrophotometer. M.Sc by research and Ph.D students helped the teachers for the same.

They were next taken to the Microbiology laboratory, where they were given information regarding identification of Bacterial and Fungal growth on culturing medium, Microscopic observations of fungi, growth of yeast culture by Dr. Ketan Thatte, Ms. Sonal M., Ms. Vanita G., From Microbiology, the students were shown to the Biochemistry laboratory, where the basic tools used in Biochemistry and fundamental experiments about UV chamber, Flame photometer, Haemocytometer, Most probable number for coliform count of sewage water, Haemocytometer and working of micropipette was explained to them by Ms. Monali and biochemistry students.

Next the students visited the Physics laboratory, where they got the information about mercury spectrum through prism, Double refraction, Resonance phenomenon through simple pendulum and were demonstrated about the operation and functions of Cathode Ray Oscilloscope by Mr. D.R. Chaudhari, Mr. Asish Koli and Dr. M.N. Nyayate.

Further the students were guided to the Zoology laboratory, where they could recognize and observe an array of preserved specimens of different species of the animal Kingdom. It includes

- i. Taxonomy and its importance in zoology or biological specimens.
- ii. Preservation of the specimens eg. wet preservation in formalin, a dry preservation through taxidermi and air-drying.
- iii. Animals from different phyla-from protozoa to chordate were shown.
- iv. The relation between the organism and their co-existence.
- v. Specimens collected by teachers and students were shown. Eg. The Butterflies, Moths and insects were explained in the museum by Dr. (Mrs.) N.N. Patil and Mr. S.D. Thorat.



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The students next arrived in the Botany laboratory, where the observation of herbarium and specimens and instrument were done. The teachers involved were Dr.M.Saha, Ms.Anita P., Ms.Chetana S., and Ms.Shraddha R. After which they were taken for a botanical college campus visit. The students of S.Y.BSc Botany department, accompanied them and showed and explained to them the various types of flowers, shrubs, trees etc. flourishing in the college campus.

The students along with their teachers were finally assembled to the college canteen, where tea, coffee and biscuits were served to them. At the end of the tour, the teachers and students were given feedback forms so that they could convey any suggestion or communicate their experience.

The purpose of this educational tour was to provide the students with an opportunity to witness and experience those things they had only read or heard about in the classroom.

The visit was a great success due to the enthusiastic input from students and teachers along with continued support from all the Departments concerned.

vi)Yoga:

Batch 1- of the certificate course in Yoga.

Duration- 15th June 2013 to 10th August 2013.

Number of students participated – 25.

Valedictory function was arranged on 10th August 2013. Shri Ramachandra Surveji , Secretary, Shri Ambika Yog Kutir was the Chief Guest of the function. He observed the practical session of the students and explained them the significance of practicing yoga regularly. He encouraged them to continue learning yoga further.

vii) Hiking/Trekking:

The Trekking and Hiking committee of our College along with 122 Students and 12 staff members visited “Matheran” (Hill station) on Sunday 1st September 2013. Two /Three picnic points like “Khanda point, Lake point” etc. were visited.

vii) WDC:

Through WDC lectures were conducted

- i. Diet and health
- ii. Woman empowerment

viii) Alumni:

• Anubandha Get-Together:

Alumni Association: Anubandha had organized a Get-together of our past students on 11th Jan 2014. On this occasion all retired Teaching and Non-teaching Staff were also invited. All the alumni were welcomed with a purple friendship band- color purple representing us on the VPM Group of institutes. The Alumni Association: Anubandha hosted an audience of 160.

Dr.(Mrs.) M. K. Pejaver enlightened the audience about the College's progress and seized the opportunity to interact with them.

Employment cell representative and also the College counsellor, Mrs. Aditi Deuskar, made an appeal to the alumni to come forward and reach out to the current batch students through various means of short courses, campus placements and interactive sessions.

Student from our first degree college batch Mrs. Jayashree Dharmadhikari (Chemistry) presented a beautiful poem reflecting her thoughts about the college. This encouraged other students to come ahead and share their views about the college.



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The vote of thanks was given by Mrs. Kadambari Manjrekar- Librarian. The alumni left with a small thank u card given to them by the college and only after relishing the snacks arranged for them.

ix) Staff Academy:

The Staff Academy had arranged and conducted a programme on Wednesday 25th Sept 2013 at Patanjali Sabhagruha. The introduction of Staff Academy was given by Principal of the college. The speaker of the programme was Dr. Vijay V. Bedekar, the Chairmen of Vidya Prasarak Mandal. The introduction of the Speaker was given by Prof. D.R. Chaudhary.

The felicitation of the teachers was made for their achievements by the Speaker. The following teachers were felicitated for various achievements like for their Minor and Major research projects sanctioned from UGC and Mumbai University, for Ph.D. degree, publishing papers in international journals and for receiving awards of honor from Government of Maharashtra.

1) Prof. A.P. Patil 2) Prof. Dr. M.V. Rathnam 3) Prof. Dr. M.N. Nyayate 4) Prof. M.J. Gholba 5) Prof. Dr. A.S. Goswami-Giri 6) Prof. Dr. Pooja Jagasia 7) Prof. S.R. Pawale. 8) Prof. A.S. Shinde 9) Prof: P. S. Mali.

Dr. Vijay V. Bedekar spoke on topic 'Did Copernicus Plagiarize?' The speaker highlighted on quality of education and research in foreign universities and said that the same should be developed in India. He stressed that Patents and quality research papers be produced. The speaker said that we should improve our knowledge and information on our subjects. There should be dialogue between the scholars for further research. There should be well co-ordination between the mentor and students.

The importance of English language in science was highlighted. The process could be enhanced if the research is represented in our own language. For this India has to adopt 'Sanskrit' as research language being most applicable and oldest unchanged language since 2000 years. He highlighted the importance of Sanskrit language and the importance of research work done by Copernicus.

x) Orientation Programme For Laboratory Staff:

For channelizing the process for record maintaining in the department IQAC conducted orientation lecture for Laboratory staff. The procedure of recording the data and maintaining it and updating the information was explained to them. During this discussion it was decided to arrange workshop on Basics of computer for this staff. This workshop was conducted with the help of IT department staff from 2nd July to 5th July 2013. In this workshop topics like creating a file, saving it in the proper folder, creating and editing of word and excel document, accessing internet and downloading of the data/file were taught. In addition to this how to use scanner and printer was demonstrated. Ten members actively participated in the workshop.



xi) State Level One DAY Workshop On The Role of IQAC In Quality Enhancement:

State level one day workshop on "The Role of IQAC in Quality Enhancement" was organized by IQAC of our college on 5th Oct. 2013. Principal Dr. (Ms.) M. K. Pejaver was convener and Prof.(Ms.) M. J. Gholba worked as organizing Secretary. Principals, IQAC coordinators from colleges in Maharashtra were invited to participate in the workshop. 90 participants attended the workshop.

Dr. B. S. Madhurkar, Deputy Advisor, NAAC, Bangalore and Dr. M. R. Kurup Founder Principal of Vaze College, Mulund were the chief guests.

Principal Dr. Madhuri Pejaver in her welcome address elaborated the role of NAAC and IQAC. She expressed that each and every one must audit himself/herself through introspection and should have his/her own Internal (Internal voice) Quality Assurance.

In first session Dr. B. S. Madhukar presented the data on the number of colleges in different grades A, B, C. In further guiding interaction he urged that "The colleges should move from State regulation to Self regulation." He also elaborated the concept of Measurement Matrix (Rubrics) with a very good example of Teacher Rubrics.

In second session Dr.M.R.Kurup gave an exhaustive 20 points program for Quality Enhancement. The highlights of his talk includes: "Think of Tomorrow", "Curriculum Enrichment can be done through add-on certificate courses, "Teachers Enrichment is essential" and the program should be "practical oriented(Do It Yourself)", "teaching should be done," student should be motivated to hear", "Go beyond Excellency through consultancy", "Student Centric".

In the third session, Prof. K. Venkatramani Registrar, Padmashree Dr. D.Y. Patil Deemed University, Navi Mumbai gave a brief idea about Academic audit and also discussed the duties of the Audit Committee.

Dr. Vijay Joshi Principal, K.J.Somaiya College shared his experience as a principal of autonomous college. He elaborated the novel practices which are implemented in his college. He explained how interdisciplinary optional credits are made available to students.

There was a Panel Discussion in the last session. Dr. B. S. Madhukar, Dr. M. R. Kurup , Prof. K. Venkatramani, Dr. (Ms.) M..K. Pejaver, Dr. (Ms) S.A. Singh, Dr. Vijay Joshi were the experts.

Dr. R. P. Athalye, vice-principal of our college while summarizing stated the bright as well as the dark side of the NAAC assessment.

xii) Other Activates:

1. **Health check-up camp:** Health check up camp for staff members in collaboration with Fortis hospital was conducted on 1st March 2014. Also on the same day Lecture on Healthy Living by Dr. Pratibha was arranged.
2. **Prize distribution and publication of College magazine "Sanyuja"and JBNB:**
College annual magazine Sanyuja publication was held on 28th January 2014 in Thorale Bajirao Sabhagruha. On the same Day E-Journal J-BNB was published by our Research committee.



Activities Conducted By VPM:

- 1) **Celebration of Foundation day:** On every 1st August we celebrate our Foundation day. On this occasion, all the principals on the campus and staff members gather together, plant one tree on the campus and then the programme begins. All principals read the reports of their institutions.
- 2) **Celebration of Independence day:** This event is jointly celebrated by all the institutes in our campus. Our chairman begins the programme by hoisting the flag, then after NCC cadet parade observation takes place. NSS, NCC candidates sing the patriotic songs. Inauguration of Wall papers prepared by the children from our sister concerned school.
- 3) **Celebration of Republic day:** This event is jointly celebrated by all the institutes in our campus. Our chairman begin the programme by hoisting the flag, then after NCC cadet parade observation takes place. NSS, NCC candidates sing the patriotic songs. Children from our Sister school performed different patriotic songs, dance dramas on this occasion.
- 4) **Teachers Day:** On the occasion of Teacher's Day VPM arranged convocation ceremony for the courses which are designed by VPM and degree awarded to the students. On this day, lecture by eminent personality is arranged and at their hands only degree has been awarded. Shri. Deepak Ghaisas, Chairman & Chief Mentor, Gencoval Strategic Services Pvt. Ltd. & Former President of Maharashtra Economic Development Council (MEDC).
- 5) **Smruti din:** In the memory of Late Dr V.N.Bedekar, on every 14th April Vidya Prasarak Mandal arranges guest lecture by some eminent personality. The lecture on the topic "SCIENTIFIC-KNOWLEDGE, WISDOM-PEDAGOGY, LEARNING-HUMANI " was delivered by Dr B. K.Passi. Dr Arvind Jamkhedkar spoke on " ARCHAEOLOGY, ART HISTORY AND ICONOLOGY".