



**Modern Education Society's
Nowrosjee Wadia College
Pune**

**Annual Quality Assurance Report (AQAR)
2012 - 2013**

The Annual Quality Assurance Report (AQAR) of the IQAC (2012-2013)

The Nowrosjee Wadia College, Pune is glad to present the Annual Quality Assurance Report for the academic year 2012 - 2013.

Part – A

1. Details of the Institution

| | |
|--------------------------------------|---|
| 1.1 Name of the Institution | Nowrosjee Wadia College |
| 1.2 Address Line 1 | 19, Late Prin. V. K. Joag Path |
| Address Line 2 | Camp, |
| City/Town | Pune |
| State | Maharashtra |
| Pin Code | 411001 |
| Institution e-mail address | principal@nowrosjeewadiacollege.edu.in |
| Contact Nos. | 020-26169108(Principal's Office) 020 -26162944(Office) |
| Name of the Head of the Institution: | Dr. B. B. Thakur |
| Tel. No. with STD Code: | 020-26169108 |
| Mobile: | 09822761862 |
| Name of the IQAC Co-ordinator: | Dr. S. L. Bonde |
| Mobile: | 09822761862 |

IQAC e-mail address:

iqac@nowrosjeewadiacollege.edu.in

1.3 NAAC Track ID:

N. A.

1.4 NAAC Executive Committee No. & Date:

January 08, 2004

1.5 Website address:

www.nowrosjeewadiacollege.edu.in

Web-link of the AQAR:

<http://nowrosjeewadiacollege.edu.in/aqar-2012-13/>

1.6 Accreditation Details

| Sr. No. | Cycle | Grade | CGPA | Year of Accreditation | Validity Period |
|---------|-----------------------|-------|------|-----------------------|-----------------|
| 1 | 1 st Cycle | A | -- | 2003 | 2008 |

1.7 Date of Establishment of IQAC:

22nd March 2010

1.8 AQAR for the year:

2012-2013

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

- i. AQAR of 2010-11 submitted to NAAC on 1st November 2016
- ii. AQAR of 2011-12 submitted to NAAC on 2nd November 2016

1.10 Institutional Status

University : State

Affiliated College : Yes

Constituent College : No

Autonomous college of UGC : No

Regulatory Agency approved Institution: Yes

(e.g. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women
 Urban Rural Tribal
 Financial Status Grant-in-aid UGC 2(f) UGC 12B
 Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI(Phys Edu)
 TEI (Edu) Engineering Health Science Management
 Others (Specify): Nil

1.12 Name of the Affiliating University (*for the Colleges*):

Savitribai Phule Pune University
 (Formerly known as University of Pune)

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc.

Autonomy by State/Central Govt. / University: No

University with Potential for Excellence : No

UGC-CPE : No

DST Star Scheme : No

UGC-CE : No

UGC-Special Assistance Programme : No

DST-FIST : No

UGC-Innovative PG programmes : No

Any other (*Specify*) : No

UGC-COP Programmes : No

2. IQAC Composition and Activities

2.1 No. of Teachers : 8

2.2 No. of Administrative/Technical staff : 2

2.3 No. of students : 0

2.4 No. of Management representatives : 2

2.5 No. of Alumni : 0

2.6 No. of any other stakeholder and : 0

Community representatives

2.7 No. of Employers/ Industrialists : 0

2.8 No. of other External Experts : 1

2.9 Total No. of members : 13

2.10 No. of IQAC meetings held : 06

- The IQAC held a meeting for the planning of yearly activities.
- The IQAC held two meetings with the faculty members for the verification of the API / PBAS forms.
- The IQAC held a meeting at the end of the year for review purpose.

2.11 No. of meetings with various stakeholders: No.: 06

Faculty : 2 Non-Teaching Staff: 01 Students: 01 Alumni: 02 Others: 00

2.12 Has IQAC received any funding from UGC during the year? No

If yes, mention the amount: N.A.

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total No. : 01*

International : 00 National : 00 State : 00 Institution Level: 01

*The IQAC organized an API / CAS workshop for the faculty of the institution. Dr. Sanjay Kharat was the resource person for the workshop.

(ii) Themes: Not Applicable

2.14 Significant Activities and contributions made by IQAC

- The IQAC organized Career Advancement Scheme workshop for the faculty of the institution.
- The IQAC implemented the PBAS (Performance Based Appraisal System) for the teaching staff.
- Planning of Programmes for the academic year, monitoring the programmes and reviewing the plan at the end of the year were also undertaken.

2.15 Plan of Action by IQAC/Outcome

The IQAC chalked out the year-wise plan in the beginning of the year towards quality enhancement. Regular reviews were taken and the outcome was achieved by the end of the year.

Academic Calendar: 2012-13

| Sr. No. | Academics/ Events | Dates |
|---------|------------------------------------|--|
| 1. | Commencement of the Academic Year | 15 th June 2012 |
| 2. | College Foundation Day | 21 st July 2012 |
| 3. | Mid Semester Examination (B.Sc.) | August 2012 (tentative) |
| 4. | NSS Day | 24 th September 2012 |
| 5. | Internal Examination (P.G.) | October 2012 (tentative) |
| 6. | Last working day of the first term | 1 st November 2012 |
| 7. | Term End Examination (B.A.) | December 2012 (tentative) |
| 8. | Gokhale Cup Elocution Competition | 9 th Jan 2013 |
| 9. | Exhibition Week | 13 th to 18 th Jan. 2013 |
| 10. | Scholars Day | 31 st Jan. 2013 |
| 11. | Gymkhana Day | 5 th Feb 2013 |
| 12. | Traditional Dress Day | 14 th Feb 2013 |
| 13. | Mid Semester Examination (B.Sc.) | Feb 2013 (tentative) |
| 14. | Science Day | 28 th Feb 2013 |
| 15. | Internal Examination (P.G.) | March 2013 (tentative) |
| 16. | Conclusion of Term | 30 th April 2013 |

| Plan of Action | Achievements |
|--|--|
| <ul style="list-style-type: none"> Promoting research environment | <p>Two international conferences were organized by the college in order to promote research culture in the organization.</p> <ul style="list-style-type: none"> International Conference on 'Perspectives of Computer Confluence with Sciences' (ICPCS12) from 10th to 12th December 2012. International Conference on 'Management of Coal Bed Methane, Gas Hydrates and Shale Gas Fields: Innovations and Opportunities' from 7th to 9th February 2013. |
| <ul style="list-style-type: none"> Promoting teachers | <ul style="list-style-type: none"> 6 faculty members attended refresher courses. 2 faculty members attended orientation programme. |

| | |
|---|---|
| <p>for refresher/ orientation programmes, workshops, conferences etc.</p> | <ul style="list-style-type: none"> • Several teachers participated in workshops, seminars and conferences. • Several research papers were published in various journals and proceedings. • 43 papers in International journals. <ul style="list-style-type: none"> • 3 papers in National peer reviewed journals. • 28 papers in International Conference proceedings. • Several faculty members worked as resource persons. <ol style="list-style-type: none"> i. 1 faculty member worked as resource person at the International Mathematical Olympiad Training Camp (IMOTC 2013) held at the Homi Bhabha Centre for Science Education, TIFR Mumbai in May 2013 ii. 2 faculty members worked as resource persons in National Conferences. iii. 3 faculty members worked as resource persons in Refresher courses. |
| <ul style="list-style-type: none"> • Encouraging students to participate in inter-collegiate and intra-collegiate competitions and events. | <p>The college encouraged students to participate in various intercollegiate events and competitions. Several students brought laurels to the institution. A few are mentioned below:</p> <ul style="list-style-type: none"> • Cadet SUO Mehrab Bhaya led the Indian Delegation of NCC to represent India in an International Cadet Exchange Programme at Singapore where the Best Cadets from all over the world meet to compete and undergo Singapore Military Training. He won the BEST FLYER award and was awarded the highest rank of CSUO in DG NCC HQ Delhi. He also won the 3rd prize in the intercollegiate debating Gokhale cup competition held in the college on 9th January 2013. • Cadet Captain Wilson Shinde won the Gold medal at the Boat pulling, Silver medal at Service subject at the All India NauSainik Camp, Vishakhapatnam. He was also awarded Nazare Trophy awarded to all-round best cadet from the Pune Group. • Mayur Barawkar(M.Sc. Chemistry) received a prize at the state level poster presentation held at S.P. College, Pune. • Nida Sheikh, a student of F.Y.B.A.(Logic) participated and won a prize in the “All Maharashtra Khan Bahayatulla Inter-collegiate Elocution competition”. • Sarika Jadhav (M.Sc. Chemistry) won the first prize at the Arnikar lecture competition held at University of Pune. • Vaishali Bhosale (M.Sc.Chemistry) won the first prize at the intercollegiate lecture competition held at S.P.College, Pune • Ms. Ankita Jain, Kirti Kadam and Amruta Jaikar T.Y.B.Sc.(Computer Science) won the “First Prize” in the Software project competition held at Poona College, Pune. • The students of S.Y. and T.Y. B.Sc. (Biotechnology) participated in “Avishkar 12” project competition organized by the University of Pune and the “Mimansa 13” quiz competition at IISER, Pune. • Ms. Akshata Patil and Afrin Sarlashkar of S.Y.B.A.(Logic) presented a paper on “Bhagwadgita” in the seminar held at S.P. College Pune. • Mohit Mirajkar of F.Y.B.Sc.(Computer Science) and Mr. Daniel Massy of F.Y.B.A. participated in the Gopal Ganesh Agarkar Smruti Karandak State level inter collegiate Debate competition. |

| | |
|--|--|
| <ul style="list-style-type: none"> Organizing competitions, soft-skill workshops for overall development of students. | <ul style="list-style-type: none"> The Department of Psychology organized an inter-collegiate Psychology fest “Beautiful Minds”. This included activities like poster competition, Extempore, games based on Psychology The Department of Psychology organized a workshop on Integrated Clinical Hypnotherapy, Art therapy and Mindfulness in Compassion and Wisdom in therapy for Post Graduate students. The Department of Biotechnology, organized an inter-collegiate competition “Biotechcellence2K13” on 7th and 8th February 2013. The department also organized a two day lecture series “Frontiers of Biotechnology” The Department of Geology and Petroleum Technology organized a three day Geological exhibition from 10th to 12th January 2013. The highlight of this event was the attendance of more than 5000 school students from in and around Pune. A short film on social activist groups entitled ‘Genetically Modified Food and Environmental Impact’ was screened for the students and staff of the college in collaboration with ‘Lokayat’, Pune. The Department of History conducted a ten day workshop on ‘Modi Script” from 21st August 2012 to 1st September 2012. The Department of Geography organised a competition “Geographica” comprising of poster, model and power point presentations. The Department of Computer Science organised “Tech-n-Talent” and “TechQriosity”, an annual technology and talent festival. The Department of Zoology organized the inter-collegiate “Zooplanet 2013” from 22nd to 23rd January 2013. The event comprises preparation of scientific models, charts, wildlife photography and quiz competition. |
| <ul style="list-style-type: none"> Encouraging teachers to take up major/minor research projects | <ul style="list-style-type: none"> The faculty from various departments continued to work on existing major and minor projects. No. of on-going projects started earlier is 02 No. of new projects undertaken this year is 04 |
| <ul style="list-style-type: none"> Active participation in curricular development at university level. | <p>Several faculty members participated in curricular development:</p> <ul style="list-style-type: none"> Syllabus Restructuring : 29 Curriculum Revisions: 12 Syllabus Development: 3 The Electronic-Science department organized a One Day Workshop on “Revision & Implementation of F.Y.B.Sc. Electronic Science Syllabus” on 4th February 2013. The Computer Science department organized a One Day Workshop titled “Implementation of F.Y.B.Sc (Computer Science) Syllabus” on 5th February 2013. |
| <ul style="list-style-type: none"> Organizing events highlighting duties and responsibilities of citizens | <ul style="list-style-type: none"> An activity of tree plantation was organized by NSS in the period from 15th to 30th August 2012. During this event, around 500 trees were planted in the college campus and at Dongargaon village in Pune district. Fifty students of the college participated in “Police Mitra” campaign of Pune police during the famous Ganesh festival in the period from 19th to 29th September 2012. A blood donation camp was organized by NSS on 24th September |

| | |
|---|---|
| | <p>2012. Around 125 faculty and students donated blood in this camp.</p> <ul style="list-style-type: none"> NCC cadets from Navy observed Earth Hour on 23rd March 2013 by switching off the lights in their homes between 2030 Hrs to 2130 Hrs. |
| <ul style="list-style-type: none"> Strengthening Industry Interaction and exposure | <ul style="list-style-type: none"> As many as twelve companies visited the campus for selecting under graduate students for placement and three Companies Wipro, HSBC and IBM global together recruited almost sixty students. About 35 companies visited the campus for placement of Postgraduate students in Computer Science and recruited around 63 students. The placement for the post graduate students of Petroleum Technology is about 95% in various companies this year. Several departments organized Industry visits and lectures by Industry experts. |
| <ul style="list-style-type: none"> Expanding the reach of Extension activities | <ul style="list-style-type: none"> As many as 95,434 students from 3417 schools appeared for the Maharashtra Talent Search Examination, conducted by our Centre for Talent Search and Excellence, from Maharashtra, Karnataka, Goa and Gujarat. About 681 Students from 45 colleges across Maharashtra participated in the Graduate Excellence Examination. About 7000 candidates from all over Maharashtra appeared for the ACEC, YASHADA Entrance Examination for the selection of SC/ST candidates to train them for UPSC/IAS examinations. |

2.16 Whether the AQAR was placed in statutory body: Yes

Management : Yes Syndicate: N. A. Any other body: Steering Committee

Provide the details of the action taken

- Rough draft presented before the Steering Committee on 10/08/2016
- Revised draft presented before IQAS and approved with suitable changes on 20/08/2016
- Presented before Management and approved by Management on 09/09/2016
- Uploaded on the College website www.nowrosjeewadacollege.edu.in on 28/10/2016

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

| Level of the Programme | Number of existing Programmes | Number of programmes added during the year | Number of self-financing programmes | Number of value added / Career Oriented programmes |
|------------------------|---|--|---|--|
| PhD | 04 Annexure 1.1(I) | 0 | 04 | 0 |
| PG | 18 Annexure 1.1(II) | 0 | 18 | 1 |
| UG | 16 (07Arts+07Sc.+02 Self-Financing) Annexure 1.1(III) | 0 | 02 *T.Y. Botany is also a self-financed course but only at the T.Y. level. | 0 |
| PG Diploma | 1 (P.G. Diploma in Analytical Chem.) | 0 | 0 | 0 |
| Advanced Diploma | 0 | 0 | 0 | 0 |
| Diploma | 0 | 0 | 0 | 0 |
| Certificate | 1 Annexure 1.1(IV) | 0 | 1 | 1 |
| Others | 1(B. Lib. & Info. Sc.) | 0 | 1 | 0 |
| Total | 41 | 0 | 26 | 1 |

| | | | | |
|-------------------|-----------------------|---|---|---|
| Interdisciplinary | 1 Annexure 1.1(V) | 0 | 1 | 0 |
| Innovative | 1 Annexure 1.1(IV) | 0 | 1 | 1 |

Annexure 1.1(I)

Ph. D. Programmes (The number of Ph. D. Programmes shown here is indicative of the number of recognized research centres in the college. There are however recognized research guides in 10 departments in all)

1. Chemistry
2. Physics
3. Geography
4. Geology

Annexure 1.1(II)

P.G. Courses

1. M. Sc. Computer Science
2. M. Tech (Industrial Mathematics with Computer Applications)
3. Master of Computer Applications
4. M. Sc Physical Chemistry (Aided)
5. M. Sc Physical Chemistry (Un-aided)
6. M. Sc. Analytical Chemistry
7. M. Sc. Organic Chemistry
8. M. Sc. Polymer Science
9. M. Sc. Petroleum Technology
10. M. Sc. Physics
11. M. Sc. Electronics
12. M. Sc. Zoology
13. M. Sc. Botany
14. M. Sc. Geography
15. M. A. Geography
16. M. A. Psychology
17. M. A. Economics
18. M. A. English

Annexure 1.1(III)

Under Graduate

Arts Faculty

Subjects at Special Level (upto 3rd year)

1. English
2. Economics
3. History
4. Politics
5. Psychology
6. Geography
7. Mathematics

Subjects at General Level (Not included in the count for UG Programmes)

1. French
2. Hindi
3. Defence and Strategic Studies
4. Industrial Mathematics
5. Mathematical Statistics
6. Optional English
7. Logic and Methodology of Science
8. Statistics
9. Applied Mathematics
10. General Mathematics
11. Philosophy

Science Faculty

Subjects at Special Level (up to 3rd year)

1. Mathematics
2. Physics
3. Chemistry
4. Zoology
5. Geology
6. Electronics Science
7. Botany

Subjects at Optional Level (Not included in the count of the UG Programmes)

1. Geography
2. Industrial Chemistry
3. Electronics Equipment Maintenance

UG Courses (Self Financing Courses) :

1. B.Sc. Computer Science
2. B.Sc. Biotechnology

B.Sc. Vocational

1. Electronics Equipment Maintenance
2. Industrial Chemistry

Annexure 1.1(IV)

Certificate Courses/ Innovative Courses

MODI Script: A 10 day certificate course was organised by the History Department from 21st August to 1st September 2012. It was attended by Staff and students of the college.

Annexure 1.1(V)

Interdisciplinary Courses:

M.Tech (Industrial Mathematics with Computer Applications)

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

Our UG and PG courses consist of core as well as elective courses, prescribed by the University of Pune, thereby providing flexibility in the curriculum. We offer several elective courses thereby giving the students a choice to select the subjects.

(ii) Pattern of programmes:

| Pattern | Number of programmes |
|-----------|-----------------------------|
| Semester | 18+7+2 (As explained below) |
| Trimester | 0 |
| Annual | 7+7+2 (As explained below) |

- For the UG Science programmes the First Year follows the Annual Pattern whereas the second and third year follows the Semester Pattern. For the UG Arts Programmes, the Annual Pattern is followed for all three years.
- For the PG programmes, the Semester Pattern is followed for all the subjects.
- Semester Pattern
 - P.G. : 18
 - T.Y.B.Sc. : 7
 - T.Y.B.Sc. (Self Financing) : 2
- Annual Pattern
 - F.Y.B.Sc : 7
 - F.Y.B.A. : 7
 - F.Y.B.Sc. (Self Financing) : 2

1.3

| | | | | |
|--|---------------|----------------|------------------|-----------------|
| Feedback from stakeholders (On all aspects) | Alumni Yes | Parents Yes | Employers Yes | Students Yes |
| Mode of feedback | Informal | Informal | Informal | Manual |

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

- We follow the curriculum as prescribed by the University of Pune.
- Certificate and innovative courses are designed in consultation with Industrial or Domain Experts.
- The U.G. syllabus is revised once in 5 years and P.G. syllabus is revised once in 3 years.
- The University has proposed the Credit based System to be implemented from the next academic year for Post Graduate courses. In view of this, several initiatives were taken for its implementation. These include arranging seminars and preparation of credit handbook.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No.

Criterion – II

2. Teaching, Learning and Evaluation

| | | | | | |
|------------------------------------|---------------|------------------|----------------------|------------|--------|
| 2.1 Total No. of permanent faculty | Total | Asst. Professors | Associate Professors | Professors | Others |
| | 77(Aided) | 33 (Aided) | 42 (Aided) | 0 | 2 |
| | 9 (Non Aided) | 5 (Non Aided) | 4 (Non Aided) | 0 | 0 |

2.2 No. of permanent faculty with Ph.D.: 40(39 from Aided, 1 from Non Aided)

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year:

| | | | | | | | | | | |
|-------|---------------------|----|----------------------|---|------------|---|--------|---|-------|----|
| Aided | Assistant Professor | | Associate Professors | | Professors | | Others | | Total | |
| | R | V | R | V | R | V | R | V | R | V |
| | 32 | 22 | 44 | 0 | 0 | 4 | 2 | 0 | 78 | 26 |

| | | | | | | | | | | |
|---------|---------------------|---|----------------------|---|------------|---|--------|---|-------|----|
| Unaided | Assistant Professor | | Associate Professors | | Professors | | Others | | Total | |
| | R | V | R | V | R | V | R | V | R | V |
| | 5 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 9 | 83 |

2.4 No. of Guest and Visiting faculty and Temporary faculty

| | | |
|----------------|-----------------|----------------|
| Guest | Visiting | Temporary |
| 21(Aided) | 29(Aided) | 33(Aided) |
| 10 (Non Aided) | 135 (Non Aided) | 75 (Non Aided) |

*Faculty other than permanent and on consolidated salary has been considered as visiting faculty.

2.5 Faculty participation in conferences and symposia:

| | | | |
|------------------|---------------------|----------------|-------------|
| No. of Faculty | International level | National level | State level |
| Attended | 75 | 23 | 2 |
| Presented papers | 17 | 11 | 00 |
| Resource Persons | 00 | 00 | 00 |

Refer Annexure 2.5

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- The faculty members were encouraged to adopt innovative methods for teaching-learning. These include:
 - Use of ICT tools like power-point and simulation software.

- Concept of Pre-reading was introduced to the students.
 - Subject related Quizzes to improve student interaction in the classroom.
 - Self study examples were given to students.
 - Students were encouraged to take up Hobby projects to generate interest in the subject.
 - Faculty members guided students to prepare Posters, charts, programs and models to explain subject related concepts.
 - Assignments comprising of objective as well as subjective questions after completion of every topic.
 - Audio Video Training is provided to Sportsmen by the Department of Physical Education.
 - Essay Writing competitions and poetry reading competitions provide a platform for students to develop their writing and reading skills.
2. The Geology Department held an Exhibition on rare minerals, preserved butterflies, zeolites, dinosaurs' eggs and fish fossils from all around the world. The geological evolution of these specimens was explained to the viewers. Several school students also visited this exhibition.
 3. The Department of Psychology used Stimulated Peer Review Teaching Method and Experimental Learning. The department also screened psychological issue based short films and activities like mock crime scene investigation for the students to have a better understanding of the psychological aspects.
 4. A six day drama workshop was organized by Department of English from 4th to 9th February 2013 in order to bridge the gap between classroom reading of the text of a play and performance on stage.
 5. The Department of Computer Science arranged a technology festival "TechQriosity2013" which comprises of poster competition and lecture series of professionals from the IT industry on current trends and technologies.
 6. The Department of Computer Science started an innovative practice to teach F. Y. B.Sc.(Computer. Science) students. The F.Y. students need to complete project in electronics along with other papers. Around 50 F.Y. students were selected and trained to make different experimental boards for the second year; this activity helps the students to learn designing and modelling of circuits.
 7. A unique concept of Wall magazines was introduced to provide the students a platform to share their technical talent in the form of crosswords, quiz and drawings.
 8. Students are encouraged to learn more about the subject by participating in project, poster, lecture competitions and participatory games arranged by different departments
 9. A one day workshop was organized for the post graduate students by the Department of Geology and Petroleum Technology on "Modern trends in Reservoir studies-Indian Perspectives" on 5th January 2013.
 10. The Department of Botany started the Nature club of Wadia on 14th September 2012. Dr. Mandar Datar of ARI, Pune delivered a lecture on "Biodiversity and its conservation". The students got a lot of valuable information regarding biodiversity.
 11. The Department of Zoology arranged a lecture on "Avian conservation in India" by Dr. Shirish Manchi of SACON, Coimbatore, on 18th September 2012.
 12. Students of the French Department were shown award winning short film L'Enfant(The child) in September 2012 so that the students could appreciate and understand the nuances of the French culture and language.

13. Dr. Somnath Waghmare prepared his personal home page http://sites.google.com/site/drsomnath_waghmare to answer the queries of students to provide study material and to update the subject content.

2.7 Total No. of actual teaching days during this academic year

| | |
|------|---------|
| Arts | Science |
| 199 | 194 |

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

The college used the computerized system for entering the marks and processing results of F.Y.B.A./B.Sc. examinations.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as members of Board of Study/Faculty/Curriculum Development workshop

| | | |
|--------------------------|----------------------|----------------------|
| Curriculum Restructuring | Curriculum Revisions | Syllabus Development |
| 29 | 12 | 3 |

Refer annexure 2.9

2.10 Average percentage of attendance of students

Exact Percentage varies from class to class. However, the average percentage is approximately 80%.

2.11 Course/ Programme wise distribution of pass percentage:

| Title of the Programme | Total no. of students appeared | Division | | | | |
|-----------------------------|--------------------------------|---------------|----------------|----------------|---------------|----------------|
| | | Distinction % | I % | II % | III % | Pass % |
| T. Y. B. A. | 363 | 9.09 (33) | 30.30 (110) | 76 (276) | 4.68 (17) | 65.01 (236) |
| T. Y. B. Sc. | 361 | 15.79 (57) | 27.70 (100) | 16.90 (61) | 0.55 (2) | 60.94 (220) |
| T. Y. B. Sc. (Comp. Sc.) | 171 | 11.11 (19) | 26.32(45) | 19.88(34) | 1.75 (3) | 59.06(101) |
| T. Y. B. Sc. (Bio Tech) | 40 | 5.00 (2) | 37.50 (15) | 40.00 (16) | 2.50 (1) | 85.00 (34) |
| M. Sc. | 473 | 4.44 (21) | 37.63 (188) | 24.31 (115) | 2.11 (10) | 68.50 (324) |
| M. A. | 115 | 5.22 (6) | 26.09 (30) | 32.17 (37) | 10.43 (12) | 73.91 (85) |

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes?:

IQAC has taken the following initiatives to contribute towards the monitoring and evaluation of teaching learning processes:

- Faculty members prepare teaching plan at the beginning of each term for their courses and discuss the same with the respective Head of department.
- Staff members maintain Teaching diaries to record day-wise academic and co-curricular activities
- A review of the teaching/learning process is taken at the end of each academic year/term.
- Faculty members are encouraged to prepare study material in the form of notes / books and laboratory manuals for the students.
- Departments are encouraged to periodically arrange syllabus revision workshops in collaboration with and with support from the University.
- Faculty members are encouraged to attend syllabi revision workshops organized by other Institutions.

2.13 Initiatives undertaken towards faculty development:

| <i>Faculty / Staff Development Programs</i> | <i>Number of faculty benefitted</i> |
|--|-------------------------------------|
| Refresher courses | 06 |
| UGC – Faculty Improvement Program | 01 |
| HRD programs | -- |
| Orientation programs | 02 |
| Faculty exchange program | -- |
| Staff training conducted by the university | 05 |
| Staff training conducted by other institutions | 03 |
| Summer / Winter schools, Workshops, etc. | 06 |
| Others | 27 |

See Annexure 2.13 for details

2.14 Details of Administrative and Technical staff

| Category | Number of Permanent Employees | Number of Vacant Positions | Number of permanent positions filled during the Year | Number of positions filled temporarily |
|----------------------|--------------------------------|--------------------------------|--|--|
| Administrative Staff | 37(Aided) 52 (Non Aided) | 11(Aided) 57 (Non Aided) | 3(Aided) -- (Non Aided) | -- 14 (Non Aided) |
| Technical Staff | 64(Aided) -- (Non Aided) | 18(Aided) -- (Non Aided) | 06(Aided) -- (Non Aided) | --(Aided) -- (Non Aided) |

Annexure 2.5

International Conference/Seminars

- List of faculty members participated in the International Conference on Perspectives of Computer Confluence with Sciences held at Nowrosjee Wadia College, Pune from 10th to 12th December 2012.

| | | | |
|----------------------|--------------------------|--------------------|--------------------|
| Dr. S.L. Bonde | Dr. K.S. Venkataraghavan | S. B. Deokar | Dr. V.V. Rambal |
| Dr. K.V. Desa | Dr. S.C. Shirwaikar | Dr. V.T. Dangat | Dr. U.D. Kulkarni |
| Dr. I.A. Khan | Dr. U. Ashtekar | Dr. S.V. Vadetwar | Dr. S.S. Gadekar |
| Dr. P.K. Bhadane | Dr. U.R. Khare | R.K. Nerakar | Dr. R.M. Pawar |
| V.S. Jadkar | R.T. Shisode | G.P. Pillai | M.H. Makkad |
| Dr. V.V. Chabukswar | Dr. M.S. Arora | S.G. Jamdade | Dr. M.A. Musmade |
| Dr. F.I. Surve | Dr. R.R. Sakhare | Dr. I.S. Patil | Dr. R.R. Sangpal |
| C.S. Nimkar | N.D. Abhyankar | H.R. Arvind | P.S. Ponde |
| N.V. Ranade | P.N. Shinde | J.R. Salve | Dr. R.P. Bhadane |
| B.K. Patil | N.K. Bhagat | Dr. J.S. Aniruddha | S. A. More-Madhale |
| A.K. Madhale | Dr. G.R. Aher | Dr. A.A. Dhorde | Y.M. Nandurkar |
| Dr. L.M. Chaudhari | Dr. S.V. Ahire | S.D. Kokate | S.R. Kudale |
| Y.N. Pawar | P.P. Dasture | V.S. Jadhav | S.G. Latpate |
| K.S. Bhosale | Dr. A.S. Phadke | Dr. A.V. Andhale | Dr. A.S. Limaye |
| Dr. S.B. Waghmare | K.A. Phatak | N.D. Mundlik | V. Borkar |
| Dr. S. S. Piwalatkar | A. Buxi | K.S. Hegde | N. Chavan |
| P. Joshi | A C. Wairagade | S. S.Bhadgaonkar | Dr. S. R. Sathe |
| P. K. Sargar | M.D. Bidarkar | K.S. Mutalik | Reena Bharathi |
| V.R. Babarekar | S.V. Purandare | | |

Papers presented at The International Conference on Perspectives of Computer Confluence with Sciences (ICPCCS12) from 10th to 12th December 2012.

| Name | Paper Presented |
|------------------|--|
| Dr. F.I. Surve | Room Acoustics Solution Provider: Reverberation Time Based Computational Diagnostics |
| Dr. R.P. Bhadane | Development of Computer based Differential Thermal Analysis. |
| P.S. Ponde | Cloud Computing in Education: Usage and Adoption Strategies. |

| | |
|-------------------|---|
| Reena Bharathi | Exploring Efficacy of MapReduce Paradigm for Scientific Data Analytics. |
| N.V. Ranade | Forward Problem of Electrical Impedance Tomography. |
| V.S. Jadhav | Computing Primitive Central Idempotents in Finite Group Algebra. |
| P.N. Shinde | Explorations of the Multi-peg Tower of Hanoi Problem. |
| Dr. A.S. Phadke | Generating MDS Code Using Vandermonde Matrix. |
| Y.M. Nandurkar | The Effect of Computer Assisted Instruction Material as Teaching Aid. |
| N.K. Bhagat | Application of Geographical Information System in Tourism Sector: A Case Study of Pune District. |
| Dr. U.R. Khare | A Study of the Changes in Land Use and Land Cover of Selected Villages in the Peri-Urban Areas of Pune City Using Remote Sensing and GIS. |
| P. Joshi | Identification of Suitable Areas for Major Rabi Crops in Hot Dry Semi Arid Agro-Ecological Sub-Region of Maharashtra Using Geoinformatics. |
| Dr. A.A. Dhorde | Population Density as an Indicator of Land Cover Modifications: A Case Study of Impervious Surface Growth Over the Mula-Mutha Basin from India. |
| Y.N. Pawar | Water Quality Mapping Using Geographical Information System(GIS): A Case Study of Kurkumbh Industrial Area, Maharashtra, India. |
| K.S. Bhosale | Computer perspectives in Modern Taxonomic Research- Plantaedroid: An e-herbarium tool. |
| Dr. S.B. Waghmare | Mapping of MHC Class Binfining Nonamers and Antigenic Epitopes from Lipid Binding Protein of Schistosoma Mansoni. |
| K.A. Phatak | Synthesis, Characterization of Zinc Oxide Nanoparticles and to Study its Applications. |

- Dr. U. D. Kulkarni, Dr. I. A. Khan, Dr. Sham Vadetwar and Dr. K.S.Venkatarghavan, participated in the International Conference on “Management of Coal Bed Methane, Gas Hydrates and Shale Gas Fields: Innovations and Opportunities” held at Courtyard Marriott, Pune from 7th to 9th February 2013.
- Dr. L.M. Chaudhari participated in 2nd International Science Congress 2012 from 8th to 9th December 2012 held at Bohn Maharaj Engineering College, Vrindavan, Mathura, UP, India.
- Dr. R.M. Pawar participated in 1st International Conference on Advance in Chemical, Biological and Pharmaceutical Sciences, held on 19th March, 2013 at Hotel Arora Towers, Pune and presented a paper entitled “Hydrobiological Studies on Stretch on back water of Mula Mutha River, Pune.”
- Dr. U.D. Kulkarni participated in International Geological Congress held at Brisbane (Australia) from 5th to 10th August 2012 and presented a paper “Palaeoenvironmental conditions during the formation of Intrabasaltic bole beds from the part of Deccan Traps, India.”
- J. R. Salve, participated in an International seminar organized by Modern College, Pune from 28th to 30th January 2013 and presented a paper “The Importance of Dialogue Between Education and

the World of Work with Reference to the Teaching of English Language and Literature at the UG and PG levels”.

National Seminar/Conference

- Dr. A. S. Limaye, attended one day National seminar on “Recent trends in Mycology” organized by Department of Botany, Fergusson College on 17th August 2012.
- Dr. R.M. Pawar, S.R. Kudale, Dr. A.V. Andhale participated in a two day National Conference on “Biodiversity Monitoring and Research Current Practice and Future needs” from 7th and 8th December 2012 held at Fergusson College, Pune.
- Dr. L.M. Chaudhari, Dr. A.V. Andhale participated in one day “National Seminar on, “Higgs Boson-the God Particle”, organized Abeda Inamdar Senior College, Pune in association with University of Pune on 1st September, 2012.
- Dr. L.M. Chaudhari participated in “100th Indian Science Congress 2013” from 3rd to 7th January 2013 held at Calcutta University, Kolkata.
- Raju T Shisode, participated in a three day National Conference on “Functional Nanomaterials, Synthesis, characterization and Application”, from 31st January to 2nd February 2013.
- Mrs. Rose Mascarenhas, participated in a two day National seminar on “French Gastronomy-reflection: French culture” in August, 2012 held at FLAME, Pune organized by Indian Association of Teachers of French.
- Mrs. Rose Mascarenhas, participated in “Third Asia-Pacific Regional Congress of French Teachers” in February 2013 held at Chennai, organized by Indian Association of Teachers of French.
- Dr. (Mrs.) Jyoti Aniruddha participated in a National Seminar on “Economic History of India (British Period)”, from 6th to 7th March 2013 held at Department of History, University of Pune.
- Dr. (Mrs.) Jyoti Aniruddha participated in a National Seminar entitled “Satyashodhak Movement and Contemporary Reform Movements in India”, from 24th to 25th August 2012 held at Bharatratna Dr. Babasaheb Ambedkar College, Aundh, Pune.
- Dr. (Mrs.) Jyoti Aniruddha participated in a National Seminar on “The Importance of Regional History in Indian History Writing”, 5th October 2012 held at Digambarrao Bindu Arts and Commerce College, Bhokar, Nanded.
- Dr. Indira Patil, Tenzing Palmo and Elaine Sequeira participated in National Seminar on “Experimental Psychology; History, current status and future prospects” from 26th to 27th Feb 2013, held at Department of Psychology Pune University, Pune.
- Dr. V.V. Rambal, Dr. S. B. Waghmare and K. A. Pathak participated in a National Conference from 7th to 8th December 2012 on “Biodiversity Monitoring and Research Current Practice and Future Needs” held at Fergusson College, Pune.
- Dr. A. S. Limaye, participated in a three day National Conference on Biodiversity, Biotechnology and Climate Change (NCBBC), and presentation a paper “Formulation of Gulmohar flower juice: An antioxidant rich energy drink”, from 26th to 28th July 2012 held at Sonai, Ahmednagar, Maharashtra.
- Dr. A.V. Andhale participated and presented a research paper, “Screening study of bio-pesticide from local plant, Eucalyptus globules (Nilgri) to control *Callisobruchus maculatus* that contaminated the food grains” in National Seminar on “Recent Trends in Life Science” from 28th to 29th January 2013, organized by Department of Botany and Zoology, Rajarshi Chhatapati Shahu College, Kholapur-416003 (MS) India.
- Dr. A.V. Andhale participated and presented a research paper, “Screening study of bio-pesticide from local plant, *Syzygium cumini* (Jambhul) to control *Callisobruchus maculatus* that contaminated the food grains” in UGC sponsored National conference on, “Eco-studies/Green-studies; Perspectives from Literature, Life Science and Earth Science” from 2nd and 3rd February, 2013 organized by M.S.P. Mandal’s Deogiri College, Aurangabad 431005 (M.S.) India.
- Dr. I.A. Khan presented a paper entitled “Evaluation of groundwater quality in Zarinshahr area, Central part of Iran” at the National Seminar on “Synergy of Geochemistry, Geology, Geophysics towards Natural and Energy Resources, Environment and Health”, organized by Department of

Geology, University of Pune and Indian Society of Applied Geochemist (ISAG), Hyderabad from 14th to 15th February 2013.

- Dr. A. S. Limaye, presented a paper entitled “Use of proteins isolated from adiantum aethiopicum as bacterial and fungal amylase inhibitors” at National Conference on “Recent Trends in Plant Sciences” organized by Department of Botany, Y. C. Institute of Science, Satara, from 17th to 18th January 2013.
- Dr. S.S. Gaddekar participated and presented a paper “Plant Pathology, Aerobiology and Plant Disease Forecasting” at 17th National Conference of Indian Aerobiological Society, Pune, from 13th to 5th December 2012.
- Sachin Bankar participated in a National Seminar and presented a paper entitled “Mass Media : A Tool for Teaching a English Language” presented and Published in Conference Proceedings “ Mass Media and Indian Languages”, from 8th to 9th March 2013 held at Arts, Science and Commerce College, Kolhar.
- Sachin Bankar participated in a National Seminar and presented a paper entitled “Introducing Elements of The Short Story through Short Films.” published in Conference Proceedings “Use of Information and Communication Technology in Teaching of English Language”, from 22nd to 23rd March 2013 held at Arts, Science and Commerce College, Satral.
- Dr. A. Dhorde participated in XXV National Silver Jubilee IGI Conference on “Upgrading Technologies and Degrading Earth’s Environment” and presented a paper entitled “Comparison of Pixel-Based and Object-Oriented Classification Methods for Feature Extraction in Coastal Zone”, from 22nd to 24th December, 2012 held at The Department of Geography, University of Allahabad, Allahabad.
- Dr. Phadke A.S. presented a paper “Using Jacobi Sums to Generate MDS Codes” in the National Conference on Discrete Mathematics, held and organized by “Department of Mathematics”, University of Pune, Pune, from 22nd to 24th December 2012.
- Shinde P.N., presented a paper “Study of the Set of Presumed Minimal Solutions of the Multi-Peg Tower of Hanoi Problem” in the National Conference on “Discrete Mathematics”, held and organized by Department of Mathematics, University of Pune, Pune, from 22nd to 24th December 2012.
- Jadhav V.S., presented a paper “MDS CODE of the Type [10, 5, 6] over finite fields F_p , $p \equiv 1 \pmod{11}$ using Jacobi sums” in the National Conference on Discrete Mathematics, held and organized by Department of Mathematics, University of Pune, Pune, from 22nd to 24th December 2012.
- Dr. M.A. Musmade presented a paper on “Joseph Stinglist’s -Jagatikikaranacha Manavi Chehara(Marathi)” at National Conference on Economics, Bhusawal, from 22nd to 24th, November 2012.

State Level Seminar/Conference

- Dr. (Mrs.) K.B. Lodhi, participated in a State Level Seminar on “Media aur Samajik Uttardayitwa”, on 28th August 2012 held at Sir Parshurambhau College, Pune.
- S.R. Kate participated in a State level conference from 22nd to 23rd February 2013 on “Raman Memorial Conference 2013” held at Department of Physics, University of Pune.

Annexure 2.9

Staff members involved in Curriculum Restructuring

1. Neeraj K. Bhagat and Dr. (Mrs.) A. A. Dhorde participated in a Workshop on “Reconstruction of Geography syllabus”, on 5th January 2013 held at Abasaheb Garware College, Pune.
2. Dr. K. S. Bhosale and Dr. A. S. Limaye, participated in a One-day workshop on 16th January 2013 for F. Y. B. Sc. syllabus restructuring organized by the Department of Botany, Arts, Commerce and Science College, Pirangut, Pune.

3. Dr. S.C. Shirwaikar organised and participated in the One Day Workshop titled “Implementation of F.Y.B.Sc.(Computer Science) Syllabus” on 5thFebruary 2013 at Nowrosjee Wadia College, Pune.
4. Poonam Ponde, Reena Bharathi, Seema Purandare and Vandana Babarekar, participated in the One Day Workshop titled “Implementation of F.Y.B.Sc.(Computer Science) Syllabus” on 5thFebruary 2013 at Nowrosjee Wadia College, Pune.
5. Dr. Usha Ashtekar and Dr. Waghmare S.B participated in a ‘One day workshop on F.Y.B.Sc. syllabus restructuring in Zoology’, on 9th Feb 2013 held at H. V. Desai College, Pune funded by B.C.U.D., University of Pune.
6. Dr. Aher G.R. participated in a One day workshop on the “Restructuring of F. Y. B. Sc. Physics Syllabus”, on 12th February 2013 held at Pune District Education Association’s Prof. Ramkrishna More Arts, Commerce & Science College, Akurdi, Pune.
7. Dr. L.M. Chaudhari participated in a Workshop for “Implementation of Credit System for P.G. Courses in Colleges affiliated to University of Pune” on 13thFebruary 2013at Abasaheb Garware College.
8. B.M. Sadhwani and Dr. Varsha Singh participated in a “One Day workshop on syllabus framing at M.Sc.-I, Zoology” on 23rdFebruary 2013 at Maratha Vidya Prasarak’s Science College, Nasik.
9. Dr. S.V. Ahire and Dr. A. S. Limaye, participated in a “One-day workshop on Framing of credit system for M. Sc. Botany syllabus” on 26th February 2013, organized by the Department of Botany, New Art’s, Comm., and Science College, Ahmednagar.
10. Mrs. V. S. Jadkar participated in a One Day Workshop on “Preparation and Implementation of M.Sc. Part-I Electronic Science Syllabus as per Choice Based Credit System” on 26th February 2013 at Fergusson College, Pune
11. Dr. K. V. Desa participated in a Workshop on ‘Restructuring of M.Sc. Syllabi’ on 5th March 2013, held at Fergusson College, Pune.
12. Dr. Indira Patil and Elaine Siqueira participated in a Workshop on the restructuring of the syllabus for F.Y.B.A. on 9th March 2013 held at Lonavla College.
13. Dr. S.C. Shirwaikar participated in a One day workshop “Credit Based System for PG Science Courses” on 30th March 2013 at MAEER’s Arts, Science, Commerce College, Pune.
14. Dr. Veena Rambal, Dr. M. S. Arora, Dr. Pawar Raghunath and B.M. Sadhwani participated in a ‘One day workshop for Credit system for Post Graduate students’ on 20th April 2013 held at H. V. Desai College, Pune funded by B.C.U.D., University of Pune.
15. Dr. S.L. Bonde, Dr. V.T. Dangat and Dr. V.V. Chabukswar attended a Workshop on Credit System for P.G. Courses in Colleges affiliated to University of Pune at Shirur.

Staff members involved in Curriculum Revision

1. Pramod N. Shinde, Dr. Aditi Phadke attended a “Workshop on Revision of Practicals for SYBSc Mathematics” on 5thJuly 2012 at S.P. College, Pune
2. Dr. P. K. Bhadane organized and participated in a “Syllabus discussion and revision workshop of vocational Electronic Equipment Maintenance (EEM)” on 16thSeptember 2012, held at Nowrosjee Wadia College, Pune.
3. Dr. I.A. Khan participated in a two Day Workshop on “Revision of F.Y.B.Sc. Geology Syllabus” from 22nd-23rdOctober 2012 at Poona College, Pune.
4. Mrs. V. S. Jadkar participated in a One Day Workshop on “Revision and Implementation of F.Y.B.Sc. Electronic Science Syllabus” on 4th February 2013 held at Nowrosjee Wadia College, Pune.

5. Dr. S. C. Shirwaikar, Reena Bharathi Seema Purandare participated in the “Revision of Syllabus for M.C.A.(Science) Workshop” on 11th February 2013 at New Arts, Science, Commerce College, Ahmednagar.
6. Jayant Salve and Sachin Bankar, participated in “Revision of Syllabus at UG level(English)” on 25th Feb 2013 held at Arts, Science and Commerce College Narayangaon.
7. Anil Madhale participated in a One Day Workshop for New Syllabus at FYBA in Political Science on 1st March 2013 held at Abeda Inamdar Senior College, Pune.
8. S.G. Jamdade participated in a One Day Workshop on “Revision of M.Sc. –I Physics Syllabus(Credit System)” on 5th March 2013 at Fergusson College, Pune.

Staff members involved in Syllabus Development

1. Dr. Indira Patil worked as a member of the subcommittee for the development of syllabus of the subject ‘Criminal & Forensic Psychology’ prepared for P.G. Diploma on Criminal & Forensic Psychology.
2. Dr. S.C. Shirwaikar worked as Coordinator of the subcommittee appointed by the University of Pune that prepared the draft of F.Y.B.Sc.(Computer Science) Syllabus.
3. Dr. Farhat I. Surve worked as a member of a sub-committee appointed by the University of Pune on Syllabus Revision Committee in Physics / Curriculum Development Committee in Physics.

Annexure 2.13

Refresher course:

1. Kudale S. R. participated in a “Refresher course in Life Sciences” from 4th February 2013 to 23rd February 2013, organized by the Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
2. Dr. Andhale A.V. and Latpate S.G. participated in a “Special Summer School Program” (Equivalent to Orientation or Refresher course), from 23rd July to 11th August 2012, conducted by UGC-ASC, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
3. Sangpal R.R. and Patil B.K. attended a “Refresher course in Environmental Science” from 1st March to 21st March 2013, organized by the ASC, University of Pune.
4. Kokate S.D. participated in a “Refresher course in Earth Science (Geography)” from 11th February 2013 to 3rd March 2013, held at Department of Geography, University of Pune.

Faculty Development Programme

1. Jadhav V. S. is on Faculty Development Programme of the UGC for pursuing his Ph.D.

Orientation Programme

1. Bankar S.V. participated in an Orientation Programme from 3rd to 30th December 2012 held at Academic Staff College, University of Pune.
2. Dr. Bhosale K.S. participated in Orientation Programme, from 1st to 28th March 2013 held at Academic Staff College, University of Pune.

Staff training conducted by the university

1. V. S. Jadhav and P.N. Shinde participated in a National Level Workshop on Ramanujan Graphs from 5th to 14th March 2013 held at Department of Mathematics, University of Pune.

2. Dr. Bhadane R. P. participated in a State Level workshop on Radiochemistry and Applications of Radioisotopes from 19th to 25th November, 2012 held at Department of Chemistry, University of Pune.
3. S.G. Latpate participated in “National Workshop on Fractional Calculus: Theory and Applications” from 5th to 7th November 2012 held at the Department of Mathematics, University of Pune.
4. S.D. Kokate, participated in a National Workshop on Application of RS & GIS in Resource Management on 24th February 2013, held at Department of Geography, University of Pune funded by The Deccan Geographical Society, India

Staff training conducted by other institutions:

1. Dr. Aher G.R. participated in a Six Days Training Program on Computer Interfaced Science Experiments, held at Inter-University Accelerator Centre (Formerly Nuclear Science Centre), Aruna Asaf Ali Marg, New Delhi 110 067, from 15th to 20th October 2012.
2. V.S. Jadhav participated in a training program at National Level Advanced Instructional School in Algebra, from 3rd to 21st July 2012, held at IISER, Mohali.
3. N.K. Bhagat participated in a Faculty Development Program in Geoinformatics, from 4th June to 23rd June 2012, held at C-DAC’s Advanced Computing Training School, Pune.

Summer /Winter schools, Workshops, etc.

1. Dr. Aher G.R. participated in a 2-day Experimental Physics Workshop from 13th to 14th May 2013, held at Indian Institute of Science Education and Research, Pune.
2. Dr. R. P. Bhadane participated in a DST sponsored Winter School on Radiation Research: Principles, Applications and Recent Trends from 15th to 25th January 2013 held at Department of Chemistry, University of Pune.
3. Dr. V. H. Raybagkar participated in a Workshop to review the study material produced by the Indira Gandhi National Open University, New Delhi from 23rd to 25th January, 2013.
4. Dr. V.H. Raybagkar worked as member of organizing team of the National Workshop on Changing Paradigms of Education held at the BMCC, Pune from 17th to 18th November 2012.
5. V. S. Jadhav and P.N. Shinde participated in a State Level Workshop on Mathematical software from 26th November to 1st December 2012 held at Abeda Inamdar College, Pune.
6. U.R. Khare, participated in a state level workshop entitled “Geomorphological Landscapes in Topographical Maps and Remote Sensing” from 15th to 16th April 2013 held at University of Mumbai, funded by Indian Council of Social Science Research.

Others

1. Dr. U.D. Kulkarni, Dr. I. A. Khan, Dr. K.S. Venkataraghavan, and Dr. S.V. Vadetwar participated in a workshop ‘Modern Trends in Reservoir studies-Indian Perspectives’ on 5th January 2013 held at Nowrosjee Wadia College, Pune.
2. Dr. A.S. Phadke participated in a Two-Day Problem Coordinator Camp for the Madhava Mathematics Competition from 1st to 2nd December 2012 organized by S.P. College at Bahai Academy, Panchgani.
3. Dr. Boxwala, S.A., Dr. Usha Ashtekar, Deokar S.B., Sathe S., Bhadgaonka S.S., Sargar P.K., Bidarkar M.D., Mutalik K.S., Wairagade A.C., Dr. Ahire S.V. and Buxi Abhishek participated in a ‘Lecture Series – Frontiers of Biotechnology’ from 21st to 22nd December 2012, held at Department of Biotechnology, Nowrosjee Wadia College, Pune.
4. Dr. Indira Patil organized a state level workshop on therapy trio workshop on “Integrated Clinical Hypnotherapy, Arts Therapy, Mindfulness compassion and wisdom in therapy” from 11th to 13th March 2013 at Department of Psychology, Nowrosejee Wadia College.
5. Tenzing Palmo and Elaine Sequeira participated in a state level workshop on therapy trio workshop on “Integrated Clinical Hypnotherapy, Arts Therapy, Mindfulness compassion and wisdom in therapy” from 11th to 13th March 2013 at Department of Psychology, Nowrosjee Wadia College.

6. J.R. Salve and S.V. Bankar organized and participated in a One Week Drama Workshop and Drama Rehearsal for the play “Final Solutions” from 4th to 9th January 2013 held at Nowrosjee Wadia College, Pune.
7. Dr. J. Aniruddha, Dr. M.A. Musmade, P.P. Dasture, S.A. More-Madhale, Y.N. Pawar and P. Gaikwad, participated in a Ten days ‘Modi Script Workshop’ conducted by Mr. Mahesh Joshi (Founder of Vasundhara Bhasha aani Modi Lipi Sanshodhan Kendra) from 21st August to 1st September 2012 held at Nowrosjee Wadia College, Pune.

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- In this academic year, two international conferences were organized. These conferences were organized with an aim to promote research in individual and interdisciplinary streams.
- All the science departments came together to organize the ICPCCS12 from 10th to 12th December 2012. It had four primary tracks (Life Sciences, Physical Sciences, Computational Sciences and Earth Sciences).
- It received an overwhelming response and about 130 research papers were received.
- As a part of the Silver Jubilee celebration of the Post Graduate department of Petroleum Technology, an International Conference on ‘Management of Coal Bed Methane, Gas Hydrates and Shale Gas Fields: Innovations and Opportunities’ from 7th to 9th February 2013.
- Faculty members were encouraged to participate in other national/ international conferences/seminars and present papers there.
- The potential researchers were identified and were encouraged to undertake major / minor project proposals.
- Applications from Teachers interested in pursuing their Ph. D. were invited for the UGC Faculty Improvement (FIP) programme.

3.2 Details regarding major projects:

| | Completed | Ongoing | Sanctioned | Submitted |
|---------------|-----------------------------------|-----------|------------|-----------------------------------|
| Number | 03 | 01 | 00 | 03 |
| Outlay in Rs. | 13,64,000 8,00,000 9,66,000 | 11,41,000 | 00 | 13,64,000 8,00,000 9,66,000 |

3.3 Details regarding minor projects

| | Completed | Ongoing | Sanctioned | Submitted |
|---------------|-----------|---|------------|-----------|
| Number | 00 | 03 | 00 | 00 |
| Outlay in Rs. | | 2,75,000/- 2,50,000/- 1,10,0.00/- | | |

3.4 Details on research publications

| | International | National | Others |
|--------------------------|---------------|----------|--------|
| Peer Review Journals | 43 | 3 | -- |
| Non-Peer Review Journals | -- | -- | -- |
| e-Journals | 2 | 1 | |
| Conference proceedings | 28 | 14 | - |

Refer Annexure 3.4

3.5 Details on Impact factor of publications: **Refer Annexure 3.4**

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

| Nature of the Project | Duration Year | Name of the funding Agency | Total grant sanctioned | Received |
|--|----------------|----------------------------|------------------------|----------|
| Major projects | 2011-2013 | ISRO RESPOND | 8,00,000/- | |
| | 2010-2013 | ISRO RESPOND | 13,64,800/- | |
| | 2012-2015 | UGC | 11,42,000/- | |
| Minor Projects | 2012-2014 | BCUD (UoP) | 2,75,000/- | |
| | 2012-2014 | Univ. of Pune | 2,50,000/- | |
| | 2012-2013 | UGC, WRO | 1,10,000/- | |
| Interdisciplinary Projects | -- | -- | -- | -- |
| Industry sponsored | -- | -- | -- | -- |
| Projects sponsored by the University/ College | -- | -- | -- | -- |
| Students research projects <i>(other than compulsory by the University)</i> | | | | |
| Any other(Specify) | 01* 2012-14 | Bishop's School, Pune | -- | -- |
| Total | | | | |

*Prof. Pramila Dasture was appointed as researcher and author to write the Coffee Table Book “The Bishop’s School Sesquicentennial Book”, for The Bishop’s School Camp, Pune to commemorate 150 years of its establishment.

3.7 No. of books published i) With ISBN No. : 10 Chapters in Edited Books: Nil

ii) Without ISBN No. : 1

Refer Annexure 3.7

3.8 No. of University Departments receiving funds from: NA

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges
Autonomy CPE DBT Star Scheme
INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy: Rs. 3, 24,000/-

Dr. V. V. Chabukswar has given consultancy for “Ground Survey and Development Agency” (GSDA), Government of Maharashtra for “Chemical Analysis of Water Sample” (Pune District). MoU was signed on 11-10-2012. The project was completed in June 2013. The amount sanctioned was 36,000/- per month for the period of nine months. Total amount received is 3, 24,000/-.

3.11 No. of conferences organized by the Institution

| Level | International | National | State | University | College |
|---------------------|---------------|----------|-------|------------|---------|
| Number | 02 | -- | -- | -- | -- |
| Sponsoring agencies | -- | -- | -- | -- | -- |

Refer Annexure 3.11

3.12 No. of faculty served as experts, chairpersons or resource persons: 10

Refer Annexure 3.12

3.13 No. of collaborations International : 01 National: 00 Any other: 00

3.14 No. of linkages created during this year: 00

Refer Annexure 3.13

3.15 Total budget for research for current year:

| | | | |
|---------------------|-----------------|---------------------------------------|----------------|
| From funding agency | Rs.33, 06,800/- | From Management of University/College | Rs.6, 35,000/- |
| Total | Rs.39, 41,800/- | | |

3.16 No. of patents received this year

| Type of Patent | | Number |
|----------------|---------|--------|
| National | Applied | 0 |
| | Granted | 0 |
| International | Applied | 0 |
| | Granted | 0 |
| Commercialised | Applied | 0 |
| | Granted | 0 |

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

| Total | International | National | State | University | Dist | College |
|-------|---------------|----------|-------|------------|------|---------|
| 15 | 04 | 02 | 01 | 00 | 02 | 06 |

Refer Annexure 3.17 for details

3.18 No. of faculty from the Institution : 12 (Ph. D. Guides)
 who are Ph. D. Guides
 and students registered under them : 22

3.19 No. of Ph. D. awarded by faculty from the Institution: 03

Students of the following Ph.D. guides received Ph.D. degree
 Guide: Dr. V. T. Dangat Student: V. T. Borkar
 Guide: Dr. U. D. Kulkarni Student: R. R. Sangapal

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level 300 State level 55
 National level 130 International level 0

3.22 No. of students participated in NCC events:

University level State level
 National level International level

University Level: Army – 50, Navy-35, Air- 5

State Level: Army – 1, Navy- 0, Air- 3

National Level: Army – 6, Navy- 8, Air- 5

International Level: Army – 0, Navy- 0, Air- 1

3.23 No. of Awards won in NSS:

University level State level
 National level International level

3.24 No. of Awards won in NCC:

University level State level
 National level International level

University Level: Army – 2, Navy-2, Air- 2

National Level: Army – 0, Navy- 0, Air- 4

International Level: Army – 0, Navy- 0, Air- 1

Refer Annexure 3.24

3.25 No. of Extension activities organized

University forum College forum
 NCC NSS Any other

Refer Annexure 3.25

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

Refer Annexure 3.25

Annexure 3.4

International Peer reviewed journals

1. **Vasant V. Chabukswar** , Anirudha Chabukswar, Bhanudas Kuchekar, “Design, Synthesis and Evaluation of Antibacterial activity of Novel Indazole derivatives”, Current Bioactive Compounds, 9, 2013, 263-269. (Impact factor 3.38).
2. **Vasant V. Chabukswar**, Sanjay V. Bhavsar, Amit S. Horne, Anirudha Chabukswar, B. S. Kuchekar, Swati C. Jagdale and Kakasaheb C. Mohite, “Study of Biological activity of Conducting Poly(N-ethyl-aniline) Nanoparticles doped with organic acid”, International Journal of Polymeric Materials and Polymeric Biomaterials 63, 2013, 7-10 (Impact factor 1.865).
3. **Vasant V. Chabukswar**, Sanjay V. Bhavsar, Amit S. Horne, Kalpana Handore, Vishwas B. Gaikwad and Kakasaheb C. Mohite, “Conducting Poly(N-propylaniline) nanoparticles useful for the detection of Hydrogen sulfide gas”, Macromolecular Symposia 327, 2013, 39–44 (Impact factor 0.913).
4. **Vasant V. Chabukswar**, Kalpana N. Handore, Sanjay V. Bhavsar, Amit S. Horne, Vishwas Gaikwad and Kakasaheb C. Mohite, “Conducting Polyaniline is an Efficient Catalyst for Synthesis of 4- dihydropyrimidin-2(1H)-one derivative Under Solvent-Free Conditions”, Journal of Macromolecular Science, Part A Pure and Applied Chemistry 50, 2013, 411-415 (Impact factor 0.85).
5. A.R.Chabukswar, B.S.Kuchekar, P.D.Lokhande, **V.V. Chabukswar**, S.D.Tambe, M.N.Mohokarand, B.D.Pagare, 'Synthesis and antibacterial activity of 4-chloro-2-phenyl quinoline derivatives",Asian Journal of Research in Chemistry; Vol: 5 No:9, September:2012 (Impact factor 0.266).
6. **Vasant V. Chabukswar**, Amit Horne, Sanjay Bhavsar and Kakasaheb Mohite, “Studies on synthesis and effect of dopants on conductivity and morphology of organically soluble Poly (o-anisidine)”, Journal of Macromolecular Science, Part A Pure and Applied Chemistry 49, 2012, 926-930 (Impact factor 0.85).
7. **Vasant V. Chabukswar**, Amit Horne, Sanjay Bhavsar, Anil Bhise, Kakasaheb Mohite and Vishwas Gaikwad, “Synthesis of Nano Conducting Poly(N-ethyl-aniline) and its Function as Reusable Catalyst for Bis-benzopyrrole Synthesis”, Journal of Macromolecular Science, Part A Pure and Applied Chemistry 49, 2012, 1035-1040 (Impact factor 0.85).
8. **Vasant V. Chabukswar**, Sanjay V. Bhavsar and Kakasaheb c. Mohite, “Synthesis and Characterization of Organically soluble conducting Poly(N- ethylaniline) Nanoparticles using Acrylic acid as a Soft Template”, Journal of Macromolecular Science, Part A Pure and Applied Chemistry 49, 2012, 547-553 (Impact factor 0.85).
9. **J. S. Aniruddha**, “Asprushyancha Punyatil Parvati Mandir Pravesh Satyagrah (1920)”, Universal Research- Multidisciplinary Peer Reviewed Research Journal, Nov. 2012, Vol-I, ISSN: 2279-0640.
10. **J. S. Aniruddha**, “Brahmanetar Chalval aani Dr. Babasaheb Ambedkar”, Shouryabhoomi – A Peer Reviewed International Journal, February - April 2013, Vol-I, ISSN: 2319-720X.
11. **L M. Chaudhari**, Raje D.V, “Attenuation coefficient of soil samples by gamma ray energy”, Res. J. Recent Sci. Vol.1(9), 41-48, 1-8, Sept. 2012, ISSN 2277-2502.
12. **L M. Chaudhari**, Girase S. B., “Study of attenuation coefficient measurements in buffalo milk at gamma energy 662 keV”, Res. J. Recent Sci. Vol 2(3), March (2013) , ISSN 2277-2502.
13. **L M. Chaudhari**, “Study of attenuation coefficients of leaves of Ashoka plant using Cs_s and Tl sources”, Res. J. Physical Sci. Vol.1(2), 1-8, March (2013) , ISSN 2320-4796.
14. **L M. Chaudhari**, Raje D.V, “Investigation of attenuation coefficients of soil samples”, Res. J. of Agriculture and Forestry Sci. Vol.1(2), 20-25, March(2013), ISSN 2320-6063.

15. **L. M. Chaudhari**, Girase S.B., "Investigation of adulteration in milk samples by linear and mass attenuation coefficient by nuclear technique", *Journal of Chem. Bio. Phy.Sci. Sec. C*, 2013, Vol.3. no.2, 1425-1432, e-ISSN : 2249- 1929
16. **L. M. Chaudhari**, Girase S.B., "Determination of adulteration in milk samples by attenuation coefficient using nuclear technique", *Archives of Applied Science research*, 2013, 5(2), 255-260, ISSN 0975-508X CODEN (USA) AARC9.
17. **L. M. Chaudhari**, Raje D.V., "Measurement of photon attenuation coefficients of soil samples at energy 360 keV", *Journal of Chem. Bio. Phy.Sci. Sec. C*, 2013, Vol.3. no.2, 1504-1510, e-ISSN: 2249-1929.
18. **L. M. Chaudhari**, Girase S.B., "Forensic parameter measurements in Buffalo milk by attenuation coefficient using gamma ray energy", *Res.Journal of Physical Sci.*, Vol 1(5), 1-6, June (2013) ISSN 2320-4796.
19. **L. M. Chaudhari**, Yadav N. K., "Study of attenuation coefficient of wet and dry wood of Jambul *Syzygiumcumini*) at different gamma ray energies", *Journal of Chem. Bio. Phy. Sci. Sec. C*, May-July 2013, Vol. 3(3), 2074-2079, e-ISSN : 2249-1929.
20. **L. M. Chaudhari**, Rathod S.Z., "Measurement of attenuation coefficient of glucose solution", *J. Chem. Bio. Phy.Sci. Sec. C* May-July 2013, Vol. 3(3), 2086-2091, e-ISSN : 2249-1929.
21. **L. M. Chaudhari**, S.B.Girase, "Analysis of adulteration in milk samples by attenuation coefficient using 840 keV gamma ray energy", *Journal of Advances in Applied Science Research (Pelagia Research Library)*, 2013, 4(4), 102-107.
22. **L. M. Chaudhari**, S.B.Girase, "Study of adulteration of milk by attenuation coefficient", *Journal of Chem.Bio.Phy.Sci.Sec. C*; Feb. 2014-Apr. 2014, Vol. 4 No.2; 1479- 1485.
23. **Nandurkar Yogesh**, "Synthesis of Pyrazolidines (5-membered heterocyclic rings) through 1,3-dipolar cycloadditions of azomethine imines", *IOSR-JAC*, ISSN-2278-5736, Referred, *Impact Factor- 1.327*.
24. **Nandurkar Yogesh**, "A mild efficient and green Route for acylation of Alcohols and phenols with Acetic anhydride and Na-Zeolite", *IOSR-JAC*, ISSN-2278-5736, Referred, *Impact Factor- 1.327*.
25. **Nandurkar Yogesh**, "Protection of Diol as Acetonide Using acetone and Cation Exchange Resin as a catalyst", *IOSR-JAC*, ISSN-2278-5736, Referred, *Impact Factor- 1.327*.
26. **Ponde P. S., Shirwaikar S.C.**, "Education Enterprise Service Repository using Service Oriented Architecture", (Pages: 172-178), *International Journal of Emerging Technology and Advanced Engineering* Volume 2, Issue 12, December 2012, ISSN 2250-2459.
27. **S.G. Jamdade**, P.G. Jamdade, "Extreme Value Distribution Model for Analysis of Wind Speed Data for Four Locations in Ireland", *International Journal of Advanced Renewable Energy Research*, Germany, Vol.1, Issue. 5, pp. 254 - 259, June 2012, ISSN : 2251-9408
28. **S.G. Jamdade**, P.G. Jamdade, "Analysis of Wind Speed Data for Four Locations in Ireland based on Weibull Distribution's Linear Regression Model", *International Journal of Renewable Energy Research*, Iran, Vol.2, Issue. 3, pp. 451 - 455, September 2012. ISSN : 1309-0127
29. **Nilesh Mundlik**, "Prime ideals in 0-distributive posets", *Central European Journal of Mathematics* Issue: 11(5), (2013), 940- 955
30. **Aher G.R.**, S. D. More, P. C. S. Devara, P Pradeep Kumar, Pawan Gupta, "Comparison of Aerosol Products Retrieved from AERONET, MICROTOPS and MODIS over a Tropical Urban City, Pune, India", *Aerosol and Air Quality Research*, 13: 107–121, 2013, doi: 10.4209/aaqr.2012.04.0102. *Citation index: 23, Impact Factor : 2.827*
31. Deore, G.B., **A.S. Limaye**, Y.A. Dushing, S.B. Dhobale, S. Kale and S.L. Laware, "Screening of protease producing fungi for microbial digestion of seed proteins and synthesis of amino acids-metalnutrient chelates", *Pakistan Journal of Biological Sciences.*, (2013) 16: 86-91.
32. **Valvi, S. R.**, Jadhav, V. D, Mahadkar, S. D, "Documentation and ethnobotanical survey of wild edible plants from Kolhapur district", *Recent Research Science and Technology*, 3(12): 58-63.
33. **Valvi, S. R**, Jadhav, V. D, Mahadkar, S. D., "Screening of antinutritional factors from some wild edible plants", *Scholar'S Research Library, Journal of Natural product and plant resources*, 2(2):251-255
34. **Valvi, S. R**, Jadhav, V. D, Mahadkar, S. D, "Nutritional assessment of some selected wild edible plants as a good source of mineral", *Asian Journal of Plant Science and Research*, 2012, 2 (4): 468-472.

35. **Valvi, S. R.**, Jadhav, V. D , Mahadkar, S. D , “Gas Chromatography Spectroscopic (Gcms) Analysis Of Some Bioactive Compounds Form Five Medicinally Wild Edible Plants. Life Sciences Leaflets. 6(1): 136-139.
36. **Sangapal R.R, U. D.Kulkarni**, “Effects of Thermal Stratification on Aquatic Environment at the village Pargaon”, District Pune Maharashtra (India), Poll Res. 32 (4) : 871-876 (2013) ISSN 0257–8050.
37. **Sangapal R. R.**, et. al, “Assessment of Groundwater quality: a fusion of geochemical and geophysical information via Bayesian neural networks”, Environmental Monitoring and Assessment, ISSN 0167-6369.
38. **Kulkarni, U.D.**, Dr. R. Joshi, **Dr. I. A. Khan** and **Dr. A.V. Vartak**, “An Ancient Water Exploration Technique based on Varahmihira’s Brhat Samhita”, Asian Agri-History Vol.17, No.2,(2013) pp. 175-181.(ISSN 0971-7730).
39. Jaywant Dhole, **Somnath Waghmare** and Ramrao Chavan (2012) Taxonomic Evaluation of a New Fish Tapeworm, *Gangesia shivajiraoi sp. nov.* From a Freshwater Fish *Wallago attu* of Marathwada region (m.s.) India With Revised Key to Species of Genus *Gangesia*. *Trends in Parasitology Research*. ISSN: 2319 – 314X (Print); 2319 – 3158 (Online) Vol. 1 No. 2 .Page 13-21.
40. Sherkhane A.S., Changbhale S.S., Chitlange N.R., **Somnath Waghmare**, Gomase V.S., Ramrao Chavan And Kale K.V., “Prediction of Major Histocompatibility Complex Binding Peptides and Epitopes from *Naja naja* Cardiotoxin (CTX)”, Drug Invention Today, ISSN: 0975-7619 (IF 0.64). 4(8), 435-438. www.ditonline.info
41. **Somnath Waghmare**, Virendra Gomase, Ramrao Chavan and Kale K.V., “Prediction of MHC Binding Peptides and Epitopes from Sj-FABP fatty-acid-binding protein of the human blood fluke *Schistosoma japonicum*.” *Metabolomics*, ISSN: 2153-0769. Volume 2, Issue, 4: 1000113. www.omicsonline.org <http://dx.doi.org/10.4172/2153-0769.1000113>.
42. **Somnath Waghmare**, Virendra Gomase, Jaywant Dhole, Ramrao Chavan and Kale K.V., “Immunoproteomics approach for development of synthetic peptide vaccine from thioredoxin glutathione reductase”, *Metabolomics*: ISSN: 2153-0769. Volume 2, Issue, 4:1000111. www.omicsonline.org <http://dx.doi.org/10.4172/2153-0769.1000111>.
43. Yadav R.P., Bonde S.L., Dangat V. T., Borkar V. T., “Rapid Iodination of Xylidines in Aqueous Medium”, Res. J. Chem Sci, Vol 2(6), ISSN 2231-606X

National peer reviewed journals

1. **J. S. Aniruddha**, “Pune Zilhyatil Asprushyamukti Chalavaliche Janak – Shivram Janba Kamble”, Regional Historical Heritage , October 2012, Vol-I. ISBN: 978-81-923477-8-3.
2. **Borkar, V.N.**, ”Social Networking Experiences – college students on facebook”, Indo-Indian Journal of social science Researches. Volume 9 Number 2 October, 2013. ISSN 0975-1343.
3. **Borkar, V. N.**, “Holistic approach to critical issues which impact public well being and health : A review”, Indian Journal of Health and Well being Vol. 4, Issue 9 Dec. 2013., ISSN-P-2229-5356, e-2321-3698 *Impact Factor = 0.47*.

e-journals

1. **A.V. Andhale, R. M. Pawar, P. N. Shinde**, “Morphological Study of *C. megacephala* in relation to its importance in forensic science in winter season”. World Journal of science and technology 2012, 2(11):01-05 ISSN2231-2587. Available online: www.worldjournalofscience.com
2. **A.V. Andhale, Pramod Shinde and M. S. Arora**, “Morphological Study of *C. megacephala* in relation to its importance in forensic science in rainy season”. World Journal of Pharmacy Research 2013, 1(1):01-05 ISSN: 2320-4435. Available online: <http://wjpronline.com/>
3. **Anargha Dhorde**, Amit Dhorde, Sayantan Das , “Evaluation of Land Use/Land Cover Change in Mula-Mutha Watershed, Pune Urban Agglomeration, Maharashtra, India, Based on Remote Sensing Data, Earth Science India, Vol. 5(III), , pp. 108-121.

International Conference

1. **Bhadane R.P.**, “Development of Computer based Differential Thermal Analysis”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pg.66-68, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
2. **Vikas Jadhav**, “Computing Primitive central idempotents in finite group algebra”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pg.66-68, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
3. **Anargha Dhorde**, “Population density as an indicator of land cover modifications: A case study of impervious surface growth over the Mula-Mutha basin from India”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp. 284-288, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
4. **Anargha D, Kopal Kumar** , “Impact of Impervious Surfaces on Surface Runoff in an Urbanized Watershed: A Case Study of Ramnadi Basin, Maharashtra, India”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
5. **Y. M. Nandurkar, Jog P.B., Shinde P.N.**, “The effect of computer assisted instruction material as Teaching aid”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
6. **Ponde P.S., Shirwaikar S.C.**, “Cloud Computing in Education: Usage and Adoption Strategies”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 146-151, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
7. **Ponde P.S., Nisha Chavan, Ram Kolapkar** , “Spatio-Temporal Dynamics of Urban Green Spaces - A case study of area under PCMC”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 393-398, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
8. **Vasant Chabukswar**, Vinchurkar Rama ,Chabukswar A.R Chabukswar V.V., Kuchekar B.S., Lokhande P.D. ,Londhe Ashwini, “ Designing of γ - butyrolactones for Analgesic Activity”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 393-398, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
9. **V.V. Chabukswar**, Aniruddha Chabukswar, Bhanudas Kuchekar, Pradeep Lokhande, Pandurang Kadam , Neha Ojha, “Designing of Indazole Derivatives as DNA Gyrase Inhibitors”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 393-398, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
10. **K.A. Phatak**, “Synthesis, characterization of Zinc Oxide nanoparticles and to study its applications”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
11. **K.A. Phatak**, “Effects of Calcium carbide on Drosophila melanogaster”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
12. **A.S. Phadke, P.N. Shinde, S.A. Katre**, “Generating MDS Code Using Vandermonde Matrix”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 122-126, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
13. **Ranade N.V.** “Forward Problem of Electrical Impedance Tomography”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 393-398, Published by Excel India Publ., New Delhi, ISBN : 978-93-

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14. **Farhat Surve**, “Room Acoustics Solution Provider: Reverberation Time Based Computational Diagnostics”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
 15. **Shinde P.N., Phadke A.S.**, “Explorations of the Multi-peg Tower of Hanoi Problem”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 393-398, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
 16. **Ponde Poonam, Bhosale K. S.**, “Computer perspectives in Modern Taxonomic research-Plantaedroid: An e-herbarium tool”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
 17. **A.V. Andhale**, “Hydrobiological Studies on Stretch on back water of Mula Mutha River, Pune”, 1st International Conference on Advance in Chemical, Biological and Pharmaceutical Sciences held on 19th March, 2013 at Hotel Arora Towers, Pune.
 18. **J.R. Salve**, “The Importance of Dialogue Between Education and The World of Work with Reference To The Teaching of English Language and Literature at The UG and PG levels”- Proceedings of the International seminar organized by Modern College, Pune from 28th to 30th January 2013.
 19. **Somnath Waghmare**, Virendra Gomase, “Mapping of MHC class binfing nonamers and antigenic epitopes from lipid binding protein of *Schistosoma mansoni*”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 238-240, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
 20. **Reena Bharathi, S. C. Shirwaikar**, “Exploring Efficacy of MapReduce Paradigm for Scientific Data Analytics”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 132-136, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
 21. Ravindra V. Kshirsagar, **Raghunath Pawar**, “Visualization of New Records of Cyclestheria Hislopi(Conchostraca) in Lentic Water Bodies of Pune District”, Proceeding of “International Conference On Perspective Of Computer Confluence With Science 2012” ISBN 978-93-82062-76-9 Page No 222-224. 10th -12th December 2012
 22. **Ujjwala Khare, Pradyumna Joshi**, Urmila Ghevade, “A Study of the Changes in Land Use and Land Cover of Selected Villages in the Peri-Urban Areas of Pune City Using Remote Sensing and GIS”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 261-265, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
 23. **Ujjwala Khare, Pradyumna Joshi**, Prajakta Thakur, “Temporal Changes in Urban Population in Maharashtra State Using GIS”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 266-272, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
 24. **Pradyumna Joshi**, “Identification of Suitable Areas for Major Rabi Crops in Hot Dry Semi-Arid Agro-Ecological Sub-Region of Maharashtra Using Geoinformatics”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 271-283, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
 25. **Neeraj Bhagat, Yogesh Pawar**, Dattatraya Harpale, Nimbalkar Manoj, “Water Quality Mapping Using Geographical Information System(GIS): A Case Study of Kurkumbh Industrial Area, Maharashtra, India”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 132-136, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
 26. **N.K. Bhagat, Y.N. Pawar** and Dattatra Harpale, “Application of Geographical Information System in tourism sector: A case study of Pune district”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December

- 2012, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
27. Saumen Maiti, V.C. Erram, Gautam Gupta, Ram Krishna Tiwari, **U.D. Kukarni, R.R. Sangpal**, “Cognitive Groundwater Quality Model: Confluence with Geochemistry and Geophysics”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, pp 369-375, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.
 28. Sunil W. Gaikwad, Sonali B. Sonawane, **Yogesh Pawar**, “Application of Geoinformatics in the Estimation of Siltation of Matoba Lake”, Proceedings of the International Conference on ‘Perspectives of Computer Confluence with Sciences 2012’, 10th -12th December 2012, Published by Excel India Publ., New Delhi, ISBN : 978-93-82062-76-9.

National Conference

1. **Dr. A.S. Limaye**, “Formulation of Gulmohar flower juice: A potent source of antioxidant”, in Proceedings National Conference Biodiversity and Climate Change, from 26th to 28th July 2012 organized by Department of Botany, College of Sonai, Ahemadnagar, Maharashtra
2. **Jayant Salve**, “Mahesh Dattani’s Experimentation With Time And Space in Final Solutions”, proceedings of National seminar held at St. Mira’s College, Pune. (ISBN No 978-81-926011-0-6)
3. **Andhale A.V.**, “Morphological data of Chrysomya megacephala studied to find out PMI in reference to its forensic importance from Pune region”, in UGC Sponsored National Conference on Recent Trends and Future Prospects in Life Sciences, from 27th to 28th December 2012 organized by Mahatma Gandhi Mahavidyala, Ahmedpur, dist Latur, (MS) India.
4. **Andhale A.V.**, “Screening study of bio-pesticide from local plant, Eucalyptus globules (Nilgri) to control Callsobruchus maculates that contaminated the food grains” in National Seminar on “Recent Trends in Life Science”, from 28th to 29th January 2013, organized by Department of Botany and Zoology, Rajarshi Chhatapati Shahu College, Kholapur-416003 (MS) India.
5. **Andhale A.V.**, “Screening study of bio-pesticide from local plant, Syzygium cumini (Jambhul) to control Callsobruchus maculates that contaminated the food grains” in UGC sponsored National conference on “Eco-studies/Green-studies; Perspectives from Literature, Life Science and Earth Science” on 2nd and 3rd February, 2013 organized by M.S.P. Mandal’s Deogiri College, Aurangabad 431005 (M.S.) India.
6. **Andhale A. V.**, (2012): “Morphological data of Chrysomya megacephala studied to find out PMI in reference to its forensic importance from Pune region” Proceeding of National Conference on, Recent Trends and Future Prospects in Life Sciences 27th and 28th December 2012;, p.no.238-246, with ISBN 978-81-924894-3-8. Edited by Dr. R. M. Kadam and organized by Department of Botany, MGM, Ahmedpur (MS) India.
7. **Andhale A.V.**, “Forensic study of Clematis gauriyana Roxb- A Poisonous Plant” presented in the National Conference on Current Trends in Life Sciences organized by the Dept. of Botany Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar Dist Pune on 27th& 28th Sept. 2013.
8. **Pawar R.M.**, “Limnological study of Mula-Mutha River Pune with respect diversity of insect”, National Conference on Animal Biodiversity:Its conservation and management for sustainable Development, on 3rd to 4th October 2013, organized by Dept. of Zoology, Shree Siddheshwar Mahavidyalaya, Majalgaon Dist. Beed. (M. S.) India, ISBN 978 . 1. 62951. 081. 1
9. **Khan, I.A.**, Miss. Zahra M. Pourrahim, “Evaluation of groundwater quality in Zarinshahr area, Central part of Iran, National Seminar on, Synergy of Geochemistry, Geology, Geophysics towards Natural and Energy Resources, Environment and Health”, organized by Department of Geology, University of Pune and Indian Society of Applied Geochemist (ISAG), Hyderabad on February 14th- 15th 2013.
10. **Y.M. Nandurkar, Kulkarni U.D, Sangapal, Pawar**, “Impact of Weathering Processes on groundwater environment in the region of Confluence of Bhima and Mula-Mutha rivers, Maharashtra”, Memoir Geological Society of India 97-108, 978-93-80998-00-8

11. **Mundlik N., Shinde P.N.**, “On Generalization of Hashimoto Theorem” in the National Conference on Recent Trends in Computer Science & Applications and Computational Mathematics, Indira College of Commerce and Science, Pune.
12. **Salve J**, “Religious, Cultural and Community Values in Arvind Adiga’s *The Last Man In Tower*’, National seminar organized by Bharatratna Dr. Ambedkar College, Aundh on 11th and 12th January 2013.
13. **G. R. Aher**, “Comparison of Angstrom exponent retrieved in different spectral ranges to infer Aerosol properties over urban polluted locations”, Bulletin of Indian Aerosol Science and Technology Association IASTA, Special Issue (2012), Page numbers 304-307 Vol 20 (1&2), ISSN 0971-4570.
14. **G. R. Aher**, “Impact of intense dust storm event on Aerosol characteristics and surface radiative forcing over Alibaug, western coast of India”, Bulletin of Indian Aerosol Science and Technology Association IASTA, Special Issue (2012), Page numbers 580-583 Vol 20 (1&2), ISSN 0971-4570.

Annexure 3.7

Books

1. R. P. Bhadane co-authored a text book of “Physical and Inorganic Chemistry” for F.Y. B.Sc., Paper –I, (first term), University of Pune, published by Manali Prakashan, Pune - 30 (Edition: 2013), ISBN – 978-81-926856-1-8.
2. R. P. Bhadane co-authored a text book of “Physical and Inorganic Chemistry” for F.Y. B.Sc, Paper-I, (second term), University of Pune, Published by Manali Prakashan, Pune - 30 (Edition: 2013), ISBN – 978-81-926856-6-3.
3. R. P. Bhadane authored a text book on “Advanced Practicals in Physical Chemistry” for Post-Graduate Students, by Manali Prakashan, Pune - 30 (Edition: 2013), ISBN – 978-81-926856-3-2.
4. Dr. Anargha Dhorde, co-authored a book entitled: “Surface Urban Heat Island: Assessment Using Remotely Sensed Data”, Published by LAP Lambert Academic Publishing, Saarbrucken, Germany, ISBN-13:978-3-659-20031-1, August 2012.
5. Poonam Ponde authored a book of “Programming in ‘C’” for FY Diploma Semester II, published by Vision Publications, ISBN 978-93-5016-161-6.
6. Dr. K. S. Bhosale co-authored a book “Mycorrhiza for Ginger cultivation” Published by Scholars Press, Germany in May 2013, ISBN 978-3-639-51366-0.
7. Dr. A. S. Limaye co-authored a book “Adiantum- A medicinal herb”, published by Lambert Publication, Germany In June 2012, ISBN 978-3-659-12018-3.
8. Dr. F. I. Surve authored a textbook of PHYSICS PART I (NCERT) for Class XI; November 2012; ISBN: 81-7450-508-3.
9. Dr. F. I. Surve authored a textbook of PHYSICS PART II (NCERT) for Class XI; November 2012; ISBN: 81-7450-566-0
10. Dr. I. A. Khan authored a text book “Concepts in Geology” for F.Y.B.Sc. published by Nirali Publication, Pune.

Annexure 3.11

Conferences Organized by the College

(a) International Conference on Perspectives of Computer Confluence with Sciences (ICPCCS12) from 10th-12th December 2012

All the science departments of Nowrosjee Wadia College, Pune, organized the ‘International Conference with Science (ICPCCS12)’ from 10th to 12th December 2012. Chief guest Dr Sourav Pal, Director, NCL, Pune and Guest of Honour Dr Anand Deshpande, Founder and Managing Director, Persistent Systems, inaugurated the conference. Prof. Moogat, Dean, Academic Council, Modern Education Society; Prin. Dr M. M. Andar, Secretary, Modern Education Society; Principal Dr. B.B. Thakur and Vice- Principals Dr S. L. Bonde and Dr K. S. Venkataraghavan graced the occasion by

their presence. The Proceedings of the conference were released in the form of a thoughtfully edited book with an ISBN number, in the presence of Dr. W.N. Gade, Vice Chancellor University of Pune.

Almost **130 papers** were received in **four different tracks** and after a thorough review process, **74** papers were selected for oral Presentation while 15 were chosen for poster presentation. These 74 papers, abstracts of the 15 posters and the outline of the talks of nearly 20 Plenary Speakers were included in the Proceedings. All the participants were given a copy of the Proceedings.

Dr Sourav Pal, Director, CSIR and NCL, Pune, kept the audience captivated with his talk on 'Multi Scale Simulation: An integrating tool in computational science'. He also referred to various other issues such as Molecular dynamics, Simulation techniques for hydrogen storage, Green chemistry and so on. Dr. Anand Deshpande spoke in brief on the Data Driven 4th research paradigm. Dr. W. N. Gade, in his speech, appreciated our venture and expressed the need for more interdisciplinary events of this kind in the present times. Convenor Dr K. V. Desa introduced the theme of the conference and Coordinator Dr S. C. Shirwaikar proposed the vote of thanks.

(b) International Conference on 'Management of Coal Bed Methane, Gas Hydrates and Shale Gas Fields: Innovations and Opportunities', from 7th to 9th February 2013.

To celebrate the 80th year of our college and the silver Jubilee of the Postgraduate Department of Petroleum Technology, an International conference was organized on 'Management of Coal Bed Methane, Gas Hydrates Shale Gas Fields: innovations and Opportunities' from 7th to 9th February 2013. This current burning topic was selected by the department after realizing that the demand for energy is on the rise and there is a need to bridge the gap between the demand and supply of energy in the country.

A total of 135 participants had registered for this conference which had representatives from three universities (University of Pune, Goa University and Dr. Babasaheb Ambedkar Technical University, BATU, Loneri) 5 colleges and 20 oil related research organizations / service companies. Speakers were invited from the United States of America, British Petroleum and Indian organizations such as Oil and Natural Gas Corporation Limited (ONGC), ESSAR, Reliance Industries Limited, Reliance Power, Geological Survey of India (GSI), Gujarat State Petroleum Corporation Ltd.(GSPC), GAIL (India) Ltd., Oil and Maritime, Cambay Petroleum, Halliburton, Indian Oil Corporation Ltd., Blade Energy, NIO NIOT, NOV, ERN, Central Institute of Mining Fuel Research (CIMFR) and ISRO.

The oil Industry had also sent their representatives in order to update them with the latest trends in the CBM. Shale gas and gas hydrate sectors. These included companies such as Halliburton, Reliance Industries Limited and ISRO. Officers from Geological Survey of India also attended the conference.

The inaugural function was held on 7th February, 2013. Shri P.K.Bhowmick, Exploration and Development, Western Offshore Basin, ONGC Mumbai was the Chief Guest at the inaugural function. Prof. K.B. Powar, Chancellor, Dr. D.Y. Patil Deemed University and Former Secretary General, All Indian Universities, New Delhi, was the Guest of Honour, along with Hon. (Mrs) Vaishali Bankar, (Mayor, Pune Municipal Corporation).

At the Valedictory Function, Dr. Shailesh Nayak (Secretary, Ministry of Earth Sciences, Govt. of India, New Delhi) was the Chief Guest. Mr. Ashok Anand (Director General, Petrotech, New Delhi) and Shri. A. K. Mittal (Managing Director, Maharashtra Natural Gas Limited, Pune) were the Guests of Honour. The main themes of the conference were based on the exploration, exploration and environmental scenario of the coal bed methane, shale gas and gas hydrates. These also included upstream and downstream activities related to the same energy resources. Other aspects such as physio-chemical, hydrodynamic and thermodynamic properties of the fluids in these types of hydrocarbons were also discussed across the table.

Annexure 3.12

Faculty number who served as Resource persons/ chairpersons

1. Dr. A. S Phadke trained the students at the International Mathematical Olympiad Training Camp (IMOTC 2013) held at the Homi Bhabha Centre for Science Education, TIFR Mumbai in May 2013. The training is aimed at the Selection and Orientation of the Indian Team for International Mathematical Olympiad.
2. Dr. A.V. Andhale chaired one session in the “National Conference on Recent Trends and Future Prospects in Life Sciences” from 27th to 28th December 2012, organized by Mahatma Gandhi Mahavidyalaya, Latur.
3. Dr. S. S. Gadekar was a resource person in the 17th National Conference of Indian Aerobiological Society on Impact of Airborne Microbes from 13th to 15th December 2012 at MAEER’s Arts, Commerce Science college, Pune.
4. Dr. S. C. Shirwaikar conducted a session on “Credit Based System for PG Science Courses” in a One Day Workshop on 30th March 2013 at MAEER’s Arts, Science, Commerce College, Pune.
5. P.N. Shinde and Dr. A.S. Phadke worked as resource persons in the Refresher course for Computer Science, Mathematics and Statistics Teachers organized by the University of Mumbai, Mumbai on 1st January 2013.
6. Poonam Ponde was resource person for the “Data Structures Workshop” organized by D. Y. Patil college, Pimpri on 21st June 2012.
7. V. S. Jadhav worked as resource person in the Workshop on Mathematical software organized by Abeda Inamdar College, Pune from 26th November 2011 to 1st December 2012.
8. Dr. R.P. Bhadane worked as a resource person in the UGC Refresher course in Environmental Science at University of Pune, on 19th March 2013.
9. Dr. R. M. Pawar worked as resource person in the one day Workshop on Revised Syllabus of Zoology (B. Sc.-Part I, Paper II, IV) at Lal Bahadur Shastri College Satara, Shivaji University Kolhapur on 15th October, 2013.
10. Dr. V. H. Raybaghkar worked as a resource person at University level workshop on “How to Enjoy Physics” for undergraduate students organized by S. P. College, Pune on 16th February 2013.
11. Dr. S.C. Shirwaikar worked as a Resource person in the “Revision of Syllabus for M.C.A.(Science) Workshop” on 11th February 2013 at New Arts, Science , Commerce College, Ahmednagar.

Annexure 3.13

Collaborations

International Collaboration:

Dr. V.V. Chabukswar had a collaboration with Quality Control Department “Bul Bio-NCIPD” Ltd., Sofia 1504, Bulgaria (Letter dated July 22, 2012).

Linkages

Academic linkage: University of Pune

Placement Linkages:

Various industries including: TCS, WIPRO, OMNISCIENT, Quick Heal Technologies, ONGC, Tech-Mahindra, Cytel, Cybage, Google, Amdocs, Infosys.

Research Linkages: ISRO, NCL Pune

Other Linkages

1. ONGC
2. YASHADA
3. BARTI
4. M.J. College, Jalgaon
5. Pt. Deendayal University,

Annexure 3.17**Research awards / Recognition won by teachers**

1. Dr. F. I. Surve received the C-DAC's Best Paper Award in the Physical Sciences Track at the International Conference on Perspectives of Computer Confluence in Sciences – 2012 organized by Nowrosjee Wadia College, Pune.
2. Poonam P.S. received the Best Poster award in the Life Sciences track at International Conference International Conference on Perspective of Computer confluence with Sciences organized by Nowrosjee Wadia College, Pune.
3. Dr. K. S. Bhosale received the Best Poster award in the Life Sciences track at International Conference International Conference on Perspective of Computer confluence with Sciences organized by Nowrosjee Wadia College, Pune.
4. Poonam P.S. received the Best Poster award in the Computational Sciences track at International Conference International Conference on Perspective of Computer confluence with Sciences organized by Nowrosjee Wadia College, Pune.
5. Dr. Lodhi received Recording and Broadcasting of Literary Critics Award by All India Radio, Pune for Critics on poems of Umakant Malveey.
6. Dr. Lodhi received Recording and Broadcasting of Literary Critics Award by All India Radio, Pune, for Critics on Bhishma pitamah lyrical book.
7. Dr. L. M. Chaudhari received the Shikshak Gaurav Purskar by Shikshan Mandal, Pune Corporation, Pune at the hands of Dy. Chief Minister, Government of Maharashtra at Bal Gandharv, Pune on 5th September 2013.
8. Dr. S. A. Boxwala received the Best Teacher Award by Pune Municipal Corporation on 8th Sept. 2012.
9. Dr. F. I. Surve received the Bhaskar Raye Best Teacher Award of the Indian Physics Association's Pune Chapter for the Year 2012.
10. Dr. S. V. Vadetwar received a special award for services to NSS on Gymkhana day at University of Pune.
11. Dr. R.P. Bhadane received the M. V. Gokhale prize for excellence in teaching and research awarded by Nowrosjee Wadia College on 31st January 2013.
12. Prof. Jayant Salve received the Platinum Jubilee Award for Distinguished work in Academics, co-curricular and Extra Curricular activities awarded by Nowrosjee Wadia College.
13. Dr. V. N. Borkar, Dr. K.S. Bhosale and Dr. V.T. Borkar were awarded scholar day certificates of Merit by Nowrosjee Wadia College for their Ph.D. Degree.

Annexure 3.24

Special Awards and Achievements won by NCC cadets

1. Cdt. SUO Mehrab Bhaya led the Indian Delegation of NCC to represent India in an International Cadet Exchange Programme at Singapore where the Best Cadets from all over the world meet to compete and undergo Singapore Military Training. He won the BEST FLYER award and was awarded the highest rank of CSUO in DG NCC HQ Delhi.
2. Cdt. Priyanka Patil bravely countered two emergency landings at the NDA airfield in the All India Vayu Sainik Camp.
3. Cadet Captain Wilson Shinde won the Gold medal at the Boat pulling, Silver medal at Service subject at the All India NauSainik Camp, Vishakhapatnam. He was also awarded Nazare Trophy awarded to all-round best cadet from Pune Group.

Annexure 3.25

NSS

1. This year 300 volunteers were selected for the NSS scheme.
2. NSS has organised AIDS awareness workshop on 2nd July 2012 on behalf of Red Cross Society of India.
3. It also organised 'Save a Girl Child' at Ganesh Kala Krida Manch, Swargate on 12th August 2012.
4. A street play was organised on 25th August 2012 on the issues related to AIDS awareness.
5. On 24th September 2012, a blood donation camp was held on the campus. Over 125 students donated blood on the occasion.
6. The NSS week was held from 24th-30th September 2012 during which various events were organized. This included a lecture on female foeticide, social awareness street plays, singing competition etc.
7. On account of Gandhi Jayanti, the volunteers carried out a "Clean Campus" drive on 2nd October 2012.
8. The students conducted street plays in various parts of the city on account of "Bus Day" which was organized by the Pune Municipal Corporation on 1st November 2012.
9. The NSS winter camp was held at Dongargaon from 10th-16th January 2013.
10. On 9th February 2013 a rally was organised from Sambhaji Udyan to Shaniwarwada to bring about awareness on 'Deaddiction'.

NCC

1. NCC cadets from Navy observed Earth Hour on 23rd March 2013 by switching off the lights in their homes between 2030 Hrs to 2130 Hrs.

Extension Units (College Forum)

1. Disha – Counselling centre
2. CTSE (MTS and GEE)
3. Anti Ragging Cell
4. Women's Forum
5. Cell against Atrocities and Harassment against Women
6. Louis Braille Writer's Club
7. Debating Society
8. YASHADA, ACEC Entrance Examinations
9. Geo Club
10. Samata Mandal
11. Arts Circle
12. Marathi Literature Mandal

C.T.S.E. conducted following activities in the year 2012 -13

1. MTS Examination
2. GEE Examination
3. YASHADA, ACEC Examination

Extension Activities and departmental contributions:

1. The Debating Society of the college organized the Elocution competition on 21st Sept 2012.
2. The Debating Society of the college organized The Extempore Speech competition on 8th October 2012.
3. The Debating Society of the college organized The Inter collegiate H. H. The Raja of Sangli's Gokhale Cup Competition on 9th Jan 2013.
4. The Department of History organized a 10-day workshop on Modi script from 21st August - 1st September 2012.
5. The Department of Mathematics organized the intra-collegiate event Tautology from 11th - 13th January 2013 which included Ramanujam quiz , poster competition and Sudoku competition
6. The Department of English organized a 6-day drama workshop from 4th to 9th Feb 2013.
7. The Department of Geology organized a 3-day State-wise geological exhibition of rare exhibits minerals, butterflies, fossils etc. from around the world from 10th -12th February 2013.
8. The Department of Computer Science organized the annual “Tech-n-Talent” event which showcased the Technical and artistic skills of UG and PG students. It included events like programming, poster, rangoli, Chess and Carom competitions and Treasure hunt.
9. The Department of Psychology organized a intercollegiate event - Beautiful Minds on 13th February 2013.
10. The Computer Science department organized an inter-collegiate technical event on Seminars – TechQriosity in February 2013.
11. The Geography department organized the annual event “Geographica” which included events like posters, models, rangoli and space junk etc.
12. The Electronics Department organised a Consumer Electronics Project Exhibition for T.Y.B.Sc. students.
13. The Botany Department organized BOTANICA an intercollegiate competition on 1st and 2nd February 2013 which has various competitions like project exhibition, flower arrangement etc.
14. The Zoology Department organized intercollegiate ZOOPLANET13 from 22nd to 23rd January 2013 where events like scientific models, charts wildlife photography were conducted.
15. The Department of Biotechnology organized an inter-collegiate BioTechcellence event on 7th and 8th February.
16. The Department of Psychology organized a regional Therapy Trio – workshop on Integrated clinical Hypnotherapy, Arts Therapy, Mindfulness compassion and wisdom in therapy during 11th to 13th March 2013.
17. The Department of Biotechnology organized a two days lecture series on “Frontiers of Biotechnology”.
18. The Samata Mandal arranged a special talk by well known renowned social reformist Ms. Sindhutai Sapkal. Staff members and students contributed around 1,50,000 in order to support her noble work.
19. The Geology department organized a special workshop on Modern Trends in Reservoir studies was conducted by ONCG chief Offshore Exploration geologist Mr. P. K. Bhowmick.
20. A Mahesh Dattani play titled “Final Solutions” was staged by faculty and students of drama workshop on 20th March 2013.
21. The Department of English organized a research club workshop for faculty members.
22. The Department of Chemistry organized a grand exhibition to apprise students of the power of Chemistry.
23. The Department of Economics arranged a student visit to the famous coin museum on 22nd August 2012.

24. The Chemistry Department held the Silver Jubilee Lecture Competition for PG students. A Chemistry Exhibition was held for UG and PG students.
25. The Department of Biotechnology Organized a short film 'Genetically Modified Food and Environmental Impact' with Lokayat on 15th December 2012.
26. The Department of Biotechnology organized a seminar on Career Avenues in food Industry for students on 5th March 2013.
27. The Department of Hindi organized an essay writing competition on 7th September 2012.
28. The Department of Hindi organized a self-written poetry reading competition on 27th December 2012.
29. The Department of History organized a seminar on "Violence against Women" on 5th January 2013.
30. The Department of Botany organized a visit for F.Y.B.Sc. students to the weather observatory at Mahatma Phule Agricultural college, Shivajinagar, Pune and at Indian Meteorological Department (IMD), Pune.
31. Students of the Zoology department visited the Water Treatment plant and Public Health Laboratory in Pune.
32. The Zoology department arranged a special talk on "Avian Conservation in India" for faculty and students. It was delivered by Dr. Shirish Manchi from Salim Ali Centre for Ornithology.
33. The department of Geography organized village surveys in Awhalwadi, Wagholi, Nighoj, Ralegan Siddhi etc.
34. The students of the Earn and Learn Scheme under the aegis of the Student Welfare Department did tree plantation in the botanical garden.
35. Dr. Aditi S. Phadke was selected as Deputy Leader for 'International Mathematical Olympiad' (IMO) to be held in Columbia in July 2013.
36. The College was a centre for the regional Mathematics Olympiad Examination and the National Level Madhava Mathematics Competition.
37. The staff members were appointed as members for Entrance Examinations YASHADA and ACEC.
38. The English department organized a Poetry reading competition for students of the college.
39. The Computer Science department has a unique Wall magazine "Zaroka" which publishes technical articles, quizzes and other artistic talents of staff and students.
40. The Geology department runs a "Geo Club" for popularization of geology. Under this club, various activities like guest lectures, quiz etc. were organized.
41. The P.G. students of Psychology volunteered with schools run by Gyanankur as a part of Community Service Programme.
42. The staff of Psychology department prepared a questionnaire to assess attitude of students towards women security issues in college, city and country.
43. NET/SET workshops were organized by the departments of Psychology, Chemistry and Economics.
44. The Department of Economics faculty participated actively in the Academic club where they gave presentations on various economic issues every month.
45. The Department of Computer Science conducted the unique activity of Electronics Hobby Projects.
46. The Department of French screened the film "L'Enfant" in September 2012.
47. Dr. Usha Ashtekar a member of Shivganga old age home at Waonorie gave a donation of Rs. 10,000/- on 15/02/2013 and Rs. 10,000/- on 15/5/2013.
48. Dr. M. S. Arora Organized Lunch and water bottles for Palenque of Dnyaneshwar Tukaram at 43 Bombay Puna Road for about 350 to 400 Devotes. Brief description of the service :- meeting with parents and teachers for improving the facilities in these three schools Name of the School – 1) Lokmanay Tilak High School 2) Lalbahadur Shastri High School 3) Dr. Zakir Husain Urdu High School.
49. Prof. Sadhwani Bhavna - Donation to Orphanage Home with kinds and goods – grains, pulses, Biscuits, Rice, Fruits. Quarter Gate and Pudumjee Park.- Donation to Old-age home with grains, fruits, milk, and other knick knacks near Poona College, Pune.

50. Prof. Sangita Kudale was actively involved in Teaching and training women in Yoga free of charge
51. Prof. Madhale worked as a member of Entrance Examination Committee ACEC, YASHADA, Pune.
52. Many of our staff members are involved in the work of YASHADA Exam, MTS and GEE Examinations in various roles – Coordinators at different levels, on Board of Studies, as Paper setters etc.
53. Our NCC and NSS volunteers worked during the Ganesh Festival along with Pune City Police.
54. During the NSS camp a survey of flora and fauna of Dongargaon village was conducted and harmful plants and weeds from the soil were removed. Awareness regarding the same was created among the villagers. Street plays for a social message were conducted by NSS volunteers during the NSS camp on tantra mukt gaon, kanya ratna, hunda bandi, tree plantation, etc. A lecture on use and conservation of electricity in rural areas was held.
55. There is a Louis Braille Writer’s Club in college Wadia College which is sponsored by Rotary Club of Poona Downtown South.
56. Under the auspices of the Mahatma Phule Adhyasan and Samata Mandal, the teaching, non-teaching staff and students paid tribute to Mahatma Phule, Savitribai Phule, Annabhau Sathe, Chhatrapati Shivaji Maharaj, Shahu Maharaj, Bhagat Singh, Sukhdev, Rajguru in various functions organised throughout where other students help blind students by being writers for college and university exams.
57. As a part of Dr. B. R. Ambedkar and Mahatma Phule Samyukta Jayanti Mahotsav, the following programmes were organised :
 - a) 14 hour nonstop study.
 - b) Intercollegiate Essay Writing Competition.
58. This year over 70 students applied under the “Karmaveer Bhaurao Patil Earn and Learn Scheme”. From this, 30 students were selected under this scheme after interviews.

Criterion – IV**4. Infrastructure and Learning Resources**

4.1 Details of increase in infrastructure facilities:

| Facilities | Existing | Newly created | Source of Fund | Total |
|---|-------------------|---------------|----------------|------------|
| Campus area | 17.6 acres | -- | -- | 17.6 acres |
| Class rooms | 48 | -- | -- | 48 |
| Laboratories | 47 | | | 47 |
| Seminar Halls | 01 (188 sq mt) | | | 01 |
| No. of important equipments purchased (\geq 1-0 lakh) during the current year. | - | 27,15,435/- | - | - |
| Value of the equipment purchased during the year (in Rs) | - | 42,60,414/- | - | - |
| Others (Furniture, Fixtures, Library Books) (in Rs.) | - | 43,28,891/- | - | - |
| Assembly Hall | 01 | | | 01 |
| Green House | 01 | | | 01 |

Note: 1) Staff rooms-13 rooms (one in every department)

2) Basement: - 10 rooms.

4.2 Computerization of administration and library

- The College has a very big library with more than one lakh books. It has a huge reading room and separate reading cubicles for staff.
- Computerization of Library is in progress.
- In the Computer Science Department, the attendance system of the students is completely computerized.
- Most of the departments have a computer and much of their administrative work is computerized.

4.3 Library services:

| | Existing | | Newly added | | Total | |
|------------------------------|----------|----------------------------|-------------|---------------------------------------|----------|---------------|
| | No. | Value (in Rs.) | No. | Value(in Rs.) | No. | Value(in Rs.) |
| Text Books & Reference Books | 1,10,366 | 3,00,00,000/- (Approx.) | 280 704 | 50,269/- 4,45,250/-= 4,95,519/- | 1,11,350 | 3,04,95,519/- |
| e-Books | -- | -- | -- | -- | -- | -- |
| Journals /Periodicals | -- | -- | 50 | 53,973/- (yearly subscription) | -- | -- |

| | | | | | | |
|------------------|----|----|----|----|----|----|
| e-Journals | -- | -- | -- | -- | -- | -- |
| Digital Database | -- | -- | -- | -- | -- | -- |
| CD & Video | -- | -- | -- | -- | -- | -- |
| Others (specify) | -- | -- | -- | -- | -- | -- |

- The college has two libraries, the Main Library and the Post Graduate Library.
- Many departments have their own departmental libraries.
- Books received as specimen copies/complimentary copies are added to the departmental library so that they need not to be purchased.
- Books are also donated by staff as well as students to the departmental libraries.

4.4 Technology up gradation (overall)

| | Total Computers | Computer Labs | Internet | Browsing Centres | Computer Centres | Office | Departments | Others |
|----------|-----------------|---------------|----------|------------------|------------------|---|-------------|--------|
| Existing | 376 | 13 | 02 | 13 | 01 | 24 (Including Principal and Vice Principals' Offices) | 342 | - |
| Added | 02 | 00 | 00 | 00 | 00 | 00 | 02 | - |
| Total | 378 | 13 | 02 | 13 | 01 | 24 | 346 | - |

4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

- The college provides internet facility with a **4 MBPS dedicated connection from Reliance Communications**. It is protected using a Firewall and through a switch, connections are provided to most departments. Department computers are connected through one more level of switches to the Internet.
- A separate **Computer Centre** provides Internet service to students and faculty who do not have computers and Internet connection in their department. It has 10 computers with internet connection to each. Two computers are reserved for faculty. It has a **Reliance WiMax connection with 1.5 MBPS** data rate. Students and staff-members use the Centre extensively for referencing, study material, new developments and updates etc.
- Principal's office and Vice-Principals' offices have the following connections:
 - **Reliance WiMax 1.5** dedicated internet connection
 - **WiFi facility**
- M.Sc. Computer Science Laboratory has a separate **WiFi** facility
- The college has a biometric system for staff attendance. Biometric machines are installed in strategic locations like Principal's office, Professors' common room and college office.
- A training and demonstration session was held for teaching and non-teaching staff members involved in admission as well as examination process. It was conducted by technical experts from

‘Vridhhi’ software. The inputs helped in removing doubts and motivated them to use the new technology.

- A Networking course was conducted for M.Sc. Electronics Students.

4.6 Amount spent on maintenance:

| | |
|--|----------------|
| i) ICT | Rs.24,85,775/- |
| ii) Campus Infrastructure and facilities | Rs.42,59,522/- |
| iii) Equipments | Rs.34,11,299/- |
| iv) Others | Rs.5,00,615/- |

(Lab expenses, Care taking and cleaning, etc)

Total: Rs.1,06,57,211/-

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- IQAC proposed that College needs to go for an on-line admission process.
- IQAC also proposed that the results of college exams should be declared on line. University exam results are already declared on line.
- The efforts must be initiated till this goal is achieved.
- IQAC also proposed that the college website must function with full capacity and latest features must be added on the website.

5.2 Efforts made by the institution for tracking the progression

The IQAC ensures that students are made aware of the following Student Support Services through regular notices put up on various notice boards, through teacher – student interaction and also through periodic meetings with the Student’s Council.

- 1) Scholarships and Freeships available for various categories of students
- 2) Reservation of seats for specific categories of students
- 3) Students’ Aid Fund
- 4) “Samata Mandal” : For promoting the ideals of social and economic equality
- 5) Earn and Learn Scheme
- 6) Support for Physically Challenged Students
- 7) The Foreign Students’ Forum : a platform for overseas students
- 8) Debating Association
- 9) Medical Assistance for students: Compulsory Health check up, Health Centre on the campus; Health Insurance (for a group) etc. Doctor is available in Health Centre on the campus.
- 10) Organising Coaching classes for competitive Examinations
- 11) Skill Development and Counselling Services

5.3 (a) Total Number of students:

UG: 3494 (Grant2844, Non Grant 621)

PG: 1689-621=1068 Ph. D.: 10

(b) No. of students outside the state: 128(Grant)

123(Non-Grant)

(c) No. of international students: 172(Grant)

41(Non-Grant)

| | No | % | No | % |
|-------|----------|----|----------|----|
| Men | 1704(UG) | 60 | 1140(UG) | 40 |
| Women | 801(PG) | 47 | 888(PG) | 53 |

| | Last Year | | | | | | This Year | | | | | |
|-----------|-----------|-----|----|-----|-----------------------|-------|-----------|-----|-----|-----|-----------------------|-------|
| | General | SC | ST | OBC | Physically Challenged | Total | General | SC | ST | OBC | Physically Challenged | Total |
| Grant | 1590 | 453 | 46 | 490 | 11 | 2579 | 1870 | 532 | 114 | 255 | 73* | 2844 |
| Non Grant | 971 | 175 | 18 | 233 | -- | 1397 | 1226 | 188 | 13 | 262 | - | 1689 |

* These students are from various categories

Demand ratio: $5912/1885=3.136339523$

| Sr. No. | Course Name | Intake Capacity | No. of Applications Received | Demand Ratio |
|-----------|---|-----------------|------------------------------|--------------|
| UG | | | | |
| 1 | F.Y.B.Sc. | 480 | 516 | 1 : 1.08 |
| 2 | F.Y.B.A. | 600 | 693 | 1 : 1.16 |
| 3 | F.Y.B. Sc. Computer Science | 160 | 913 | 1 : 5.71 |
| 4 | F.Y.B.Sc. Biotechnology | 45 | 152 | 1 : 3.38 |
| PG | | | | |
| 1 | M.Sc. Electronics | 24 | 35 | 1 : 1.46 |
| 2 | M.Sc. Physics | 24 | 157 | 1 : 6.54 |
| 3 | M.Sc. Petroleum Technology | 48 | 69 | 1 : 1.44 |
| 4 | M.Sc. Geography | 24 | 42 | 1 : 1.75 |
| 5 | M.Sc. Chemistry | 168 | 547 | 1 : 3.26 |
| 6 | M.Sc. Zoology | 24 | 56 | 1 : 2.33 |
| 7 | M.Sc. Botany | 24 | 40 | 1 : 1.67 |
| 8 | M.Sc. Computer Science | 60 | 2025 | 1 : 33.75 |
| 10 | M.C.A. (Science) & M.Tech.(Industrial Mathematics with Computer Applications) | 60+30 | 382 | 1 : 4.24 |
| 11 | M.A. English | 30 | 87 | 1 : 2.9 |
| 12 | M.A. Economics | 60 | 128 | 1 : 2.13 |
| 13 | M.A. Psychology | 24 | 70 | 1 : 2.92 |

(Grant Courses) Dropout %

| Sr. No. | Class | Total No. of students | Dropout% |
|---------|-------------|-----------------------|----------|
| 01 | F.Y.B.A. | 695 | 1.29% |
| 02 | F. Y. B.Sc. | 518 | 5.60% |
| 03 | S.Y.B.A. | 506 | 0.40% |
| 04 | S. Y. B.Sc. | 352 | 0.00% |
| 05 | T.Y.B.A. | 396 | 0.00% |
| 06 | T. Y. B.Sc. | 377 | 0.53% |

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- The Department of Mathematics trains students for the Madhava Mathematics Competition, IIT JAM and University Entrance Examination.
- Many teachers are involved in delivering lectures under the banner of the Graduate Excellence Examination (GEE). These lectures provide guidance to the students in their subjects as well as careers. GEE is a unique activity of Nowrosjee Wadia College aimed at preparing students in all aspects of the Civil Services Examinations. There are three different examinations for students of First year, second year and third year. There are two parts to this examination – one is the written examination and the other is a Personal Interview/ Group Discussion. Teachers of our college are involved in guiding, conducting the examination and assessment as well as evaluation.
- Many teachers provide career counselling to the students in the classrooms.

No. of students beneficiaries : GEE : 931

Lectures: Around 300

Others : 200 approximately

5.5 No. of students qualified in these examinations

| | | | | | | | |
|-------------|---------------------------------|-----------|---------------------------------|------|---------------------------------|--------|---------------------------------|
| NET | <input type="text" value="--"/> | SET/SLET | <input type="text" value="--"/> | GATE | <input type="text" value="--"/> | CAT | <input type="text" value="--"/> |
| IAS/IPS etc | <input type="text" value="--"/> | State PSC | <input type="text" value="--"/> | UPSC | <input type="text" value="--"/> | Others | <input type="text" value="--"/> |

5.6 Details of student counselling and career guidance

- The Disha Counselling Centre handled various cases under the counsellor, Ms. Manasi Shah. Students showing an unusual behaviour and pattern – remaining absent, misbehaving in class are asked to see the counsellor.
- Workshops on ‘Life Skills’ were organized throughout the year for the students. Students from various departments benefitted from it.

- “TechQriosity” is a unique intercollegiate event organized every year for post graduate students by the Department of Computer Science. This event consists of a series of seminars on technical subjects as well as discussions on career opportunities for the students. Experts from industries like **Symantec, Clarice, PSPL, Harbinger, TCS** and many other software companies are invited to share their experiences, make the students aware of what is relevant from the industry point of view, the upcoming technologies and what sort of projects they could undertake. This activity helps students immensely to know and understand the industry requirements and environment beforehand and they can therefore prepare for their future careers accordingly. 180 students participated in TechQriosity this year.
- Mentoring activity – every faculty member interacts closely with a few students throughout the year mentoring them. Technical experts are invited to mentor student projects by providing inputs on new technologies and methodologies. Computer Science department has staff working as mentors and every staff member is given mentorship of 20 students.
- Projects at UG& PG level inculcate the habit of independent thought, teamwork and facing a challenge.
- Wall magazines like ‘Zaroka’ bring about awareness regarding latest technological developments around the world.

No. of students benefitted:

| |
|---|
| Personal counselling – 20 (Psychological) |
| Through Workshops – 2000 |
| TechQriosity – 180 |
| Sports – 190 |
| Project Mentoring – 20 |

5.7 Details of campus placement

| Number of Organizations Visited | <i>On campus</i> | | <i>Off Campus</i> |
|---------------------------------|---------------------------------|---------------------------|---------------------------|
| | Number of Students Participated | Number of Students Placed | Number of Students Placed |
| 60* | 430 | 190 | 28 |

* Computer Science Department : 35
 Petroleum Technology Department: 20
 General : 05

5.8 Details of gender sensitization programmes:

- The main objective of the Women’s Forum is to prepare women of the 21st century to face the challenges of life more efficiently and effectively by organizing various workshops and training sessions for them. Under the aegis of the Women’s Forum (established in 2010).
- 52 Volunteers and 10 ex students were present along with the present students. Cultural programmes (street plays, demos) based on social awareness like female foeticide, save girl child, dowry etc. were arranged.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level: 34 National level: 9 International level: 1

No. of students participated in cultural events:

State/ University level: 605(University level) + 55(State Level) = 660

National level: 13 International level: - 0

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level 20 National level: 4 International level: 01

Cultural: State/ University level: 0 National level: 0 International level: 00

Other:

5.10 Scholarships and Financial Support

| | Number of students | Amount in Rs. |
|---|--------------------|----------------------------|
| Financial support from institution | 27(G) | 45,900/- |
| Financial support from government | 741(G) 262(NG) | 14,66,052/- 60,86,060/- |
| Financial support from other sources: | | |
| Arthik Durbal | 16 | 93,000/- |
| Krantijyoti Savitrimata Phule | 10 | 50,000/- |
| Number of students who received International/ National recognitions | 68 | 2,89,954/- |

5.11 Student organised / initiatives

Fairs /events:

State/ University /collegelevel:10 National level : 0 International level :0

Exhibition: State/ University level :2 National level : 0 International level : 0

- TechQriosity – seminar event completely organized by PG students every year.
- ‘Geo Club’- Dept of Geology,
‘Tautology’-Dept of Mathematics,
‘Research Club’- Dept of English,
‘Geological Exhibition by M.F.Makki’- Geology Dept,
‘Botanica-2013’- Botany Dept,
‘Academic Club’-Economics Dept,
‘Project exhibition’- Electronics Dept,
‘ZOOPLANET2013’-Zoology dept,
‘Geographica’- Geography Dept,
‘TechQrisity2013’- Computer science Dept,
‘Tech-n-Talent’- - Computer science Dept,
‘Zaroka’- Computer science Dept, etc are very attractive activities of different depts.

5.12 No. of social initiatives undertaken by the students:

1) The Department of Psychology had a tie up with “Gyanankur School”. Under this scheme the students visited the school on day to day basis for helping them in difficulty with educational and emotional needs. 20 students participated in this activity and 100 school children were benefited.

2) Following initiatives have been undertaken by NSS students:

- 15 students participated in Pune Red Cross society's AIDS Awareness programme.
- 90 students participated in Save Girl Child programme organised by SAKAL.
- 30 students participated in "Kanya Ratna Abhiyan" organised by University of Pune.
- 125 students participated in "Blood donation Camp".
- 170 students participated in "Nirmal Wadia Abhiyan".
- 50 students participated in "De-addiction Rally" organised by University of Pune.

3) During the annual event Tech-N-Talent event, students of the Computer Science Department organized

- Rangoli and Poster exhibition on topics of social relevance 'Save girl child' and 'Save earth'
- Debate competition on 'Women better in management than men'

5.13 Major grievances of students (if any) redressed:

The departments, through continuous rapport with students ensure that there are no major grievances of students. Minor grievances like change of practical batch, change of division, change of project group are always looked after by concerned faculty members immediately. Grievances of students are settled through well established Students Council which has regular meetings with the Authorities of the college.

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision: To provide a holistic all-round education to our young generations of students and to instil in them the true Wadians spirit embodied in the phrase “sportsmanship on and off the field”.

Mission:

- To promote cultural and value education
- To maintain conducive environment for educational activities
- To encourage faculty to improve their qualifications and to keep abreast of latest developments in respective fields
- To promote Industry – Institution interaction
- To generate resources
- To encourage alumni activity
- To encourage students to become good, responsible, broad minded citizens equipped with necessary knowledge and moral values for meeting the needs of Society.

6.2 Does the Institution has a management Information System :- Yes.

- For the admission process, the office uses “Vriddhi” software. This software is a comprehensive software to handle all admission related tasks.
- The Department of Computer Science uses indigenously developed software for attendance and Examination/result processing. The Software makes it possible to obtain detailed reports regarding various aspects of students’ progress.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

- Academic activities of the College are monitored by the Academic Council of the Modern Education Society.
- Heads of Departments are encouraged to become Members of Boards of Studies in their respective subjects in the University of Pune. Dr. Mrs. S. C. Shirwaikar, Head Department of Computer Science is Member, Board of Studies, University of Pune in Computer Science. Dr. U. D. Kulkarni, Head Department of Geology is Member, Board of Studies, and University of Pune in Geology. Mr. R. Sakhare, Librarian, has been nominated Member, Board of Studies, University of Pune in Library and Information Sciences
- Teachers are encouraged to participate in Syllabi designing/ restructuring workshops conducted by the University. Faculty members of the department are actively involved in planning and execution of the syllabi
- Heads of Departments review academic activities of their Departments and guide staff accordingly
- One Day workshop on Credit System for PG was organised by the Department of Chemistry.

- One Day Workshop on Implementation of M.Sc.(Computer Science) & MCA(Science)syllabus was organized by Nowrosjee Wadia College.
- The Department of Physics organised a one day workshop on Revision of S. Y. B. Sc Physics Syllabus.
- Modern electronic devices such as Mobile phone, laptop were included in the curriculum of Vocational Electronic Equipment and Maintenance course

6.3.2 Teaching and Learning

- The college management and Heads of Departments together monitor the teaching-learning process in the College.
- Effective teaching is done by adopting several demonstration tools like Powerpoint Presentations, open source software, films etc. for clarifying difficult concepts.
- Most teachers prepare Study Notes for the students and some of them upload it on the internet for easy sharing with the students.
- Class room attendance is taken daily and a list of defaulters is put up periodically.
- Guest Lectures by eminent personalities are organised periodically by different departments for motivating the students, for guidance and for giving them a taste of cutting edge technology.
- Some departments have introduced the concept of 'Pre-reading' while teaching
- Use of Quiz and Crosswords for different subjects is made along with regular teaching to make learning of the subject enjoyable.
- The Electronics Department has introduced the idea of Hobby projects for students to spark their interest in the subject.

6.3.3 Examination and Evaluation

- The College Examination Committee looks after all aspects of the Examinations, internal as well as University examinations.
- The college has appointed a teacher as Chief Examination Officer who is In charge and looks after all aspects of the Examinations.
- We adopt a different pattern of marking scheme for the Internal Examination. The 10 internal marks for semester pattern and 20 internal marks for yearly pattern are decided based on 30 and 60 marks question papers respectively which are then appropriately scaled down. Objective as well as subjective questions are asked in these question papers which prepares the students for writing the final university examination and improves their performance.
- Many of the teaching Staff Members from the college are involved in Paper setting and Assessment Panels of the University of Pune.
- Some staff members work as coordinators for the practical examination of University of Pune and as chairpersons for different subjects.
- The college has used a computerized system for the processing of F.Y. results.

6.3.4 Research and Development

- Many of our faculty members are recognised Ph. D. and M. Phil guides in University of Pune and other Universities and they are actively involved in guiding students as well as faculty in their research work.

- Several Departments of the college like Chemistry, Physics, Geography and Geology have Research Centres
- To encourage and appreciate the research work done the faculty members, the college presents the Dr. M. V. Gokhale award to the outstanding researcher of the year. This award is given during the Scholars' Day Function held once every year.
- Our faculty members regularly attend conferences, symposia and workshops to keep abreast of the latest research and technology in their subjects. These conferences also help to create collaborations with faculty from other Institutes as well as to set up ties with other Institutions which in turn help with their work.
- The Heads of Departments encourage confirmed faculty members to take up minor and major research projects and some of them even go so far as to involve other members as co-investigators to give them an opportunity to know about research methodology.
- The Department of English has a Research club for M.A. students wherein the students along with a faculty member read an original paper based on literary texts
- To encourage students for innovation in Science & Technology and for improvement in their research and development skills, two faculty members S. B. Deokar and K Mutalik of Department of Biotechnology, guided some of their students for Avishkar-12, a State Level Inter- University Research Project Competition for UG students. Our students won a prize in this competition

6.3.5 Library, ICT and physical infrastructure / instrumentation

- The College Budget has a sufficient provision for purchase of latest books, journals, encyclopaedias, e-books and e-journals.
- The budget is utilised before the end of the financial year and the Library Committee monitors the purchase process.
- Each department prepares a list of required books at the beginning of the academic year and submits the same to the committee.
- All our departments use ICT tools like computers, projector and other peripherals for their teaching and learning processes. Most of the PG lectures are conducted using Power Point presentations
- Each department uses specialized software to aid the classroom teaching. For example, software like PSPICE, Arc-GIS, Scilab etc.
- All our laboratories are well equipped. The college ensures that appropriate infrastructure is procured on a need basis and current infrastructure is upgraded and maintained. Rearrangement was done in the computer lab to have a separate server room.
- PG students of some departments like Electronics and Computer Science are provided the wifi facility for their project work and assignments.
- Some teachers give lecture notes and Assignments to their students through the internet.
- Computerized Attendance System is developed in-house and is regularly used by some of the departments to maintain students' attendance for lectures throughout the year.
- Faculty make temporary websites for online registration of different events like Entrance examinations, seminars etc.
- Researchers use simulation and other specialized software for their research work.

6.3.6 Human Resource Management

- The Modern Education Society is a Teacher Managed Society. This enables an open atmosphere whereby the Staff can openly interact with the management members on a regular basis.
- Their difficulties and issues are resolved by frequent interactions which take place between the Management and the Staff.
- There are three elected Local Managing Committee members from amongst the teachers. These members aid and assist the Management in smooth running of the college.
- The college forms various committees each year to take care of curricular, co-curricular and extra-curricular aspects. Faculty members are encouraged to be members of these committees. For example, Arts Circle, Students' Welfare, NSS, NCC, Anti-Ragging Cell, Mahatma Phule Adhyasan, Placement Cell, Samata Mandal, Women's Cell, Staff Academy, Examination Committee, Vigilance Committee, Gymkhana Committee, Discipline Committee, UGC Committee, Admissions Committee.
- To encourage and appreciate the good work done by the teachers, felicitation of teachers for excellence in work at the time of Scholar's Day and Gymkhana Day is carried out. Dr. M. V. Gokhale award and the Platinum Jubilee award have been specifically instituted for this purpose.
- Each Head of Department conducts regular meetings at the department level to monitor smooth functioning of the department as well as takes feedback from each staff member regarding teaching, administration and other concerns related to students, etc.
- When new faculty members join a department, the Head of the department and senior staff members have an informal orientation session which is followed by regular discussions and feedback.
- Several departments organize staff trips to maintain a healthy atmosphere among the department staff members.

6.3.7 Faculty and Staff recruitment

- Modern Education Society carries out the actual Recruitment of Faculty and of Administration and Support Staff depending on the workload and availability of posts.
- Proper Selection procedures are in place for recruitment. Merit and reservation policies are strictly adhered to.
- IQAC monitors the academic progress of Teaching Staff by having a PBAS (Performance Based Appraisal System) and API inputs.

6.3.8 Industry Interaction / Collaboration

- The college has a dedicated Placement Cell and a Placement Officer to look after placement of students.
- The requirements from various industries are communicated to individual departments as required.
- Departments conduct appropriate training/ placement activity and training sessions for students to prepare them for placements.
- Some of the departments have formal MOUs with Industry for collaboration
- Industry experts are invited for guest lectures, seminars, workshops etc

- Some Departments have Industrial training as part of the course work and students are placed in Industries for a short duration of up to one semester.
- Students are taken on excursions to various Industries for industrial interaction and exposure.
- Industry professionals are included as judges for different competitions

6.3.9 Admission of Students

- Admission of students is done entirely based on Merit and reservation criteria and there is complete transparency in the entire process
- UG students are admitted on the basis of merit and senior staff members as well as Heads of Departments carry out the counselling activity during the admission process to ensure that good, motivated students confirm their admission.
- For many of the PG classes there is an Entrance Examination conducted and admissions are done on the basis of performance in this examination and TY results. Senior staff members set the paper for the entrance examination paper based on aptitude as well as core subject knowledge. The result of the entrance exam is declared immediately. Accordingly the merit list is prepared.

6.4 Welfare schemes for :

Teaching & Non Teaching Staff:

- Group Insurance Scheme is available for staff members.
- General Provident Fund facility for all eligible staff.
- Modern Education Society's Employees' Credit Cooperative Society offers loans at very nominal rates.
 - A) Short term i.e. emergency loan of Rs. 25,000/-
 - B) Long term loan of upto Rs.12,00,000/- @ 11% interest
- The Employees can also invest money in the Society in Fixed Deposits/ Recurring Deposits.
- A Dispensary on the campus is made available to Staff in case of any emergency.

Students:

- The college runs the Earn and Learn scheme funded by the University for socially and economically backward class students. This year 30 students benefited from the scheme and Rs. around 3, 00,000/- were spent under this scheme.
- The college attracts a large number of visually impaired students. This year 71 such students sought admission in our college. The Louis Braille Writers Club which is functioning in the college, helps visually impaired students. The students of our college as well as volunteers from the society assist the visually impaired students as writers during their exam. They also help them in their day to day college. World Blind day was celebrated on 10th October 2012. Eye donation Posters were displayed.
- The college helped socially and economically backward students for getting various scholarships.
- The Psychology department runs the Disha Counselling centre to handle special cases of students. Some departments also conduct a mentoring activity to identify unusual behaviour in students and direct them to this centre if required.

- A Gymnasium is made available for students
- A Dispensary on the campus is made available for students in case of any medical emergency.

6.5 Total corpus fund generated: Nil

6.6 Whether annual financial audit has been done: Yes

6.7 Whether Academic and Administrative Audit (AAA) have been done?

| Audit Type | External | | Internal | |
|----------------|----------|--------|----------|-------------------|
| | Yes/No | Agency | Yes/No | Authority |
| Academic | No | No | Yes | Internal Auditors |
| Administrative | No | No | No | No |

6.8 Does the University/ Autonomous College declare results within 30 days? NO.

For UG Programmes : NA

For PG Programmes : NA

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Not Applicable.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

Not Applicable.

6.11 Activities and support from the Alumni Association

- The Alumni Association of the college is known as Wadians Association and has been active since 1958, meeting regularly at-least twice a year viz. on 21st July, the College Foundation Day and on 15th February, the Society Foundation Day.
- Alumni interact with, and groom current students during various events.
- Several alumni help in placement activity for the current passing-out batch of students.
- Several alumni have come forward and instituted prizes for merit holders and other students. These prizes are given away during the Scholars' Day and Gymkhana Day Prize Distributions.
- Participation in Blood Donation Camps in association with NSS/NCC.
- Several departments organize Alumni meets regularly.
- Some prominent sportspersons who are alumni provide coaching in sports to the students.
- The alumni also give valuable inputs and suggestions for the improvement of the curriculum as per industry and society needs.

6.12 Activities and support from the Parent – Teacher Association

At the beginning of each academic year, the Principal and Heads of various departments address new entrants and emphasize various aspects related to various college activities including academic, curricular, co-curricular and extra curricular activities. Individual departments interact with parents verbally to keep them abreast regarding their wards performance.

6.13 Development programmes for support staff

- The college actively encourages the non teaching support staff to enhance their educational qualifications.
- The college encourages the clerical staff to appear for the MSCIT examination.
- The college organizes the Staff Social each year. This provides a platform for the non-Teaching Staff to showcase their talents.

6.14 Initiatives taken by the institution to make the campus eco-friendly

- The campus is kept green and beautiful throughout the year. Periodic tree plantation is carried out to increase the green cover.
- Rain Water Harvesting has been done on campus.
- Artificial Bird Nests have been put up on trees to attract a greater bird population
- Compost pits have been dug up from which fertilizers are obtained periodically and used for the plants.
- Lectures are arranged for students as well as staff to increase awareness regarding the Environment.
- Cleanliness drives are conducted to ensure a healthy and hygienic campus.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- An innovative International Conference on Perspectives of Computer Confluence with Sciences was organized this year. This helped bring together all the departments of the college. Several staff members were involved in the planning and successful completion of this conference. It created a positive impact on the research environment in the campus.
- The Petroleum Technology department organized an International conference which brought together several eminent geologists and researchers from around the world.
- Help, Support and Orientation for understanding the to-be introduced Credit based System.
- The management provided adequate Guidance for Career Advancement Scheme (CAS) of UGC.
- IQAC has taken consistent efforts to promote research mobilize resources: This has resulted in procurement and establishment of special instrumentation facilities and overall enhancement of the infrastructure.
- Prepared credit Handbook for the students for the newly-introduced Credit System for the next academic year.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at th beginning of the year

7.3 Give two Best Practices of the institution

- The Centre for Talent Search and Excellence conducts the prestigious Maharashtra Talent Search Examination for the students studying in Std. VIIIth, IXth and Xth. The number of students appearing for this Examination was around 1 lakh this year. Students from 3417 schools in Maharashtra, Goa and Karnataka appeared for the MTS Examination at 622 centres across Maharashtra. Student Training programs were organized at many places in Maharashtra for the preparation of Competitive examinations. Teacher Training Programs and Head Masters Meetings were also organised in several places in Maharashtra. On July 22nd 2012, the prizes for the previous year were given. About Rs. 22 Lakh was awarded as prizes to 9654 students. Prizes for the current years MTS Examination will be given in the next academic year.
CTSE conducts a special coaching programme for graduate students from Maharashtra to prepare to appear for UPSC Examination. This programme is conducted for SC/ST category (60 students) and students from minority sector (10 students). These students undergo training at ACEC(Ambedkar Competitive Examination Centre), YASHADA. 5099 students appeared for this Examination at 33 centres all over Maharashtra state.
CTSE also conducts Graduate Excellence Examination for F.Y./S.Y./T.Y. students from all streams. They are prepared for competitive examinations such as UPSC, MPSC, CAT, CET, CDS, SSB, GRE etc. This year 931 students appeared for this examination at 16 centres, 129 prizes were given.
- The college attracts a large number of visually impaired students. The Louis Braille Writers Club which is functioning in the college for the last 4 years continued to help these students. The students of our college as well as volunteers from the society in general assist the visually impaired students as writers during their exam. They also help them in their day to day college activities including reading out study material to them and ancillary tasks associated with their academics.

7.4 Contribution to environmental awareness / protection

- Periodic tree plantation is carried out to increase the green cover on the campus. Faculty and students participate in these activities bringing about an increased awareness towards the importance of tree plantation.
- Rain Water Harvesting has been done on campus. The project involves all five sister institutions on the campus as a result of which the water level in the campus has registered a significant growth.
- Keeping in view the dwindling population of birds in the city, Artificial Bird Nests have been put up on trees to attract a greater bird population.
- Bio-degradable waste from the campus is recycled by using Compost pits which have been dug up. The fertilizers obtained from these pits are used for the plants in the campus.
- Lectures are arranged for students as well as staff to increase awareness regarding the Environment.
- Cleanliness drives are conducted to ensure a healthy and hygienic campus.
- India has only 16 Genera of Gymnosperms. Amongst these the rarest is the genus Ginkgo Biloba which is a plant endemic only to China. It is critically endangered and the only plant considered as a living fossil, hence needs a lot of care and conservation. This plant was brought from Ranikhet of Himachal Pradesh and is being conserved in the campus. Some other gymnosperms grown and conserved on the campus are Podocarpus elongatus, Juniperous communis etc. Our campus has in all 9 genera of the 16 found in India.

- During the NSS camp a survey of flora and fauna of Dongargaon village was conducted and harmful plants and weeds were removed from the soil. Awareness regarding the same was created among the villagers.
- NCC cadets from Navy observed Earth Hour on 23rd March 2013 by switching off the lights in their homes between 2030 Hrs to 2130 Hrs.

7.5 Whether environmental audit was conducted?

No.

7.6 Any other relevant information the institution wishes to add.

- The college has an “Electro Acoustics Research Laboratory” which was setup in the Department of Physics by Late **Dr. H. V. Modak**, Reader in the Department of Physics as early as 1971. Dr. Modak was the recipient of the **President’s medal**. The Laboratory has the unique distinction of being the first of its kind, where research is carried out in Indian Musical Acoustics. Modern Techniques are used for Analysis and synthesis of Indian Music. The Laboratory has now diversified to conduct Research in Building Acoustics and Noise Control Techniques, facilities for which have now been setup in the lab.
- The college has a unique Debating Society which organized several prestigious Inter and Intra-collegiate events.
 - a. Elocution Competition: An Elocution Competition was conducted in the college on Monday on 21st Sept 2012 in which 20 students of Junior, Senior and PG classes participated. The topics for the competition were:
 - i) 'Women are better managers than Men'.
 - ii) The influence of the TV programme ‘Satyamev Jayate’
 - iii) Female Foeticide: A threat to the Nation.

Dr.S.S.Kunte, Dr. V.H.Raibagkar and Dr.(Mrs.)N.V.Shotri were the judges.
 - b. An Extempore Speech Competition was conducted in the college on Monday, 8th Oct 2012 with 16 students from the junior and senior college participated. The winners were
 - 1st prize Mr. Rohan Nippani Junior College
 - 1st prize Ms. Aparagita Morde Senior College
 - c. The college conducted the prestigious Annual Inter collegiate H. H. The Raja of Sangli's Gokhale Cup Elocution Competition on Friday 9th January 2013. The trophy was donated by H. H. The Raja of Sangli in the name of the great parliamentarian, thinker and Political Reformer, Gopal Krishna Gokhale. The competition is hosted by the college annually since 1937 and is regarded as a coveted and prestigious one in Pune debating circles. A theme of current socio political economic significance is set as a motion for the debate. This year, the topic for the debate was : ‘The entry of foreign universities will benefit India’. The judges were:
 - Major Gen. (Retd.) SCN Jatar,
 - Brig. (Retd.) Ilangovan
 - Dr. Madhav Paranjpe

Students of various colleges participated in the competition.
Winners: The Gokhale Cup:
Best team- Abeda Inamdar Sr. College, Pune.
 - Miss Tasha Patel
 - Miss Jovia D’Souza
 Second best Team -B.J, Medical College, Pune
 - Miss Nupoor Kulkarni
 - Miss Anuja Borkar
- The college attracts a large number of visually impaired students. This year 71 such students sought admission in our college. The **Louis Braille Writers Club** which is functioning in

the college helps visually impaired students. The students of our college as well as volunteers from the society assist the visually impaired students as writers during their exam. They also help them in their day to day college. World Blind day was celebrated on 10th October 2012. Eye Donation Posters were displayed.

- The college attracts a large number of International students from over 10 to 12 countries. The college has a **Foreign Students Forum**, which guides and helps the foreign students in various aspects. It also provides a banner under which they can showcase their talents and provides our young students with a better understanding and tolerance of diverse cultures.
- A special research laboratory for Atmospheric Physics has been set up on campus which monitors various atmospheric parameters. This has been set up by Dr. G. R. Aher, faculty member of the Physics Department under the research scheme from ISRO.
- The college has well equipped research laboratories for Electro Acoustics, Nuclear Physics, Organic Chemistry and Geology.
- The Department of Geology and Petroleum Technology organize a unique Geological exhibition of rare minerals, preserved butterflies, zeolites, dinosaurs' eggs and fish fossils from all around the world. The highlight of this event was the attendance of more than 5000 school students from in and around Pune.
- The English department organized a six day drama workshop from 4th to 9th Feb 2013 as an attempt to bridge the gap between the classroom reading of the text play and its performance on the stage. **Dr. Hilda David** inaugurated the workshop. Mr. Yogendra Mane conducted various activities related to theatre such as script writing, editing, lights, sound, props, publicity, direction, stage production etc. in the workshop. The workshop culminated in a full-fledged theatrical production of an adapted version of **Mahesh Dattani's** play "**Final Solutions**". The adapted script of the play was written by students. The play was staged at Bharat Natya Mandir, Pune on 20th March 2013. The chief guest of this mega event was Senior Inspector Mr. Bhanuprasad Barge.
- The English Department has a Research club where students and teachers read their original papers. The Department gives students first-hand experience of dealing with literary genres through activities like Poetry reading competition (original works), script writing competition, play reading competition, performing plays from the syllabi, literary fest etc.
- All departments organize department fests; either Intra or Inter Collegiate. The college is abuzz with events and competitions of all sorts such as :
 - 'Geo Club'- Department of Geology,
 - 'Tautology'-Department of Mathematics,
 - 'Madhava Mathematics competition'-Department of Mathematics,
 - 'Research Club'- Department of English,
 - 'Geological Exhibition by M.F.Makki'- Geology Department,
 - 'Disha Counselling Centre'-Psychology Department,
 - 'Botanica-2013'- Botany Department,
 - 'Academic Club'-Economics Department,
 - 'Project Exhibition'- Electronics Department,
 - 'ZOOPLANET2013'-Zoology Department,
 - 'Geographica'- Geography Department,
 - 'ICPCCS12'- Computer Science and Physics Department,
 - 'TechQrisity2013'- Computer Science Department,
 - 'Tech-n-Talent'- - Computer Science Department,
 - 'Zaroka'- Computer Science Department.
- Several of our staff members have received National, District and Local awards from renowned and recognized bodies.
- Many staff members have been appointed as members of Board of Studies in various subjects. They have actively participated in curriculum design and restructuring, and also worked as paper setters, moderators and examiners in various University exams.

- Many Faculty members have worked as members of LIC committees and subject experts for Staff interviews at several colleges.
- Many Faculty members have worked as judges for various competitions both within the college and in other colleges
- Many Faculty members have participated actively in the NSS camp held at Dongargaon.
- The college campus also boasts of a Post Office and Banking Facility for the convenience of the staff and students.
- The college boasts of a very big library with over one lakh books. It has a huge reading room and separate reading cubicles for staff.
- A Doctor is available in the dispensary on the campus and students and staff may avail of this facility free of cost.
- Teachers in charge of various activities involving students encourage and mentor students for participating in various inter-collegiate competitions, talks, seminars etc. Our students actively participate in Debate, Quiz, Poster, Project competitions and in Intercollegiate Youth Festivals held in other colleges. This helps in broadening their horizons.
- A Healthy interaction takes place between the teaching and the non – teaching staff in the form of an Annual Get together organized by the Staff Academy. In this event staff members get an opportunity to show case their talents and to mingle with each other. It helps in building team spirit and gives the staff members an informal platform to bond with each other.
- The college has motto of sportsmanship on the field and off the field. This is uniquely identified as the Wadian culture. A new slogan “Wadia is Badhiya” is coined to emphasize this.
- The college provides training and coaching to aspirant students to become sportsmen. They are tested for their basic abilities in Physical Fitness, Speed, Flexibility, Endurance and Agility and accordingly specific training is given to students participating in various sports events. The college encourages students to participate in Intercollegiate/ University/ National/ International Competitions. The college has a cricket ground, cricket practice nets, 2 basketball courts, volley ball court and a well established gymnasium.

SWOC

Strengths:

- Modern Education Society which runs the College is a Teacher Managed Society. Due to this there is a Liberal and free atmosphere exists for both faculty and students to express their views. Also interaction between students, staff and management is excellent.
- A well established, well known Institution attracting excellent students and faculty.
- Cosmopolitan and secular culture.
- Well qualified research oriented faculty.
- Good academic ambience and academic inputs supported by large number of co-curricular and extracurricular activities.

Weaknesses:

- Limited space.
- Declining student-teacher ratio.
- Being an affiliated college and no autonomy, the course contents do not match exactly the demands of Industry and Society.
- Limited infrastructural facilities for research.

- Total Computerization of the library is incomplete.
- Limited number of international journals in the library.
- Inadequate gymkhana facilities.
- Limited interaction with alumni.

Opportunities:

- Academic Autonomy.
- International Collaborations.
- Introduction of skill based and need based courses due to the introduction of the credit system at the Post Graduate Level.

Challenges:

- General decline of interest of students in the basic Sciences and in Humanities.
- Quality sustenance.
- Expansion.

Criterion VIII

8. Plans of institution for next year

a) Infrastructure Development

- Plan to create smart classrooms which can be shared by different departments.
- On line admission process to be initiated.
- Full computerization of library.
- Additional sports facilities in the college ground.
- Computers and their configurations to be upgraded.
- Create more Wi-Fi hot-spots for students and staff.
- Green cover of the total campus to be improved.
- Put up additional Notice boards and displays in college.

b) Academics

- The college added Marathi special subject at S.Y.B.A. this year. In continuation with this college plans to start Marathi Special at the Final Year BA level.
- Conduct and organize more certificate and self financed courses for staff and students to cater to the needs of the society and industry. A few planned areas are : ROBOTICS, Android Programming, Device Driver Programming and Embedded Systems etc.
- Encourage Interdisciplinary Projects and Research.
- Organize more seminars and conferences to improve subject content and research in respective areas.
- Prepare e-study material and lab manuals.
- Orient students for the credit based system.

c) Extra curricular and Co-curricular

- To improve enrolment in NCC and NSS units.
- To organize more intercollegiate events like quiz, programming etc.
- To improve the placement activity.

- To plan more activities for teaching and non-teaching staff.
- d) **Sports Activities**
- To involve noted sportspersons to motivate students to take up sports activities.
 - To organise Squash Racket Tournament and Cricket Championships.
 - Identify sponsors for sports events.
- e) **Environment Related**
- To increase environmental awareness among the students.
 - Carry out Energy and Environment Audits.
 - Move Towards Green revolution.
 - Aim for Paper-less offices and communication.
- f) **Alumni**
- Increase involvement of alumni in college activities.
 - Generate funds and scholarships for student related activities.
- g) **Social Initiatives and Extension Activities**
- Plan to tie up with social organizations for waste-management.
 - More association with NGO's to improve social awareness among students.
 - To arrange for blood donation camps.
 - To arrange events like street plays, poster competitions etc. for spreading awareness regarding Clean City, Traffic awareness and Helmet use, Anti-superstition etc.

Dr. Ms. S. A. Boxwala
IQAC Coordinator

Dr. K. S. Venkataraghavan
Chairperson, IQAC
