



## The Annual Quality Assurance Report (AQAR) of the IQAC

The Nowrosjee Wadia College Pune is glad to present the Annual Quality Assurance Report of the academic year 2013-14.

### Part – A

#### I. 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

Dr. S. L. Bonde

Institution:

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 8, 2004

1.5 Website address: www.nowrosjeewadiacollege.edu.in

Web-link of the AQAR: <http://nowrosjeewadiacollege.edu.in/aqar-2013-14/>

#### 1.6 Accreditation Details

Sr. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	--	2003	2008

1.7 Date of Establishment of IQAC: 7<sup>th</sup> December, 2011  
20<sup>th</sup> June 2014 (Newly constituted)

1.8 AQAR for the year: 2013-2014

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

- i. AQAR 2010-11 submitted on 1<sup>st</sup> November 2016.
- ii. AQAR 2011-12 submitted on 2<sup>nd</sup> November 2016.
- iii. AQAR 2012-13 submitted on 4<sup>th</sup> November 2016.

1.10 Institutional Status

University : State

Affiliated College : Yes

Constituent College : No

Autonomous college of UGC : No

Regulatory Agency approved Institution: Yes

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 (PhysEdu)   
TEI (Edu)       Engineering       Health Science       Management   
Others (Specify): --

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

Savitribai Phule Pune University  
(Formerly 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 ( <i>Specify</i> )	: No
UGC-COP Programmes	: No

## 2. IQAC Composition and Activities

2.1No. of Teachers	: 08
2.2No. of Administrative/Technical staff	: 05
2.3No. of students	: 00
2.4No. of Management representatives	: 02
2.5No. of Alumni	: 00
2. 6No. of any other stakeholder and community representatives	: 00
2.7 No. of Employers/ Industrialists	: 00
2.8No. of other External Experts	: 01
2.9 Total No. of members	: 16
2.10No. of IQAC meetings held	: 05
2.11 No. of meetings with various stakeholders:	No.: 07                      Faculty : 05
Non-Teaching Staff Students	: 01                      Alumni: 01                      Others: 00
2.12Has 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 Nos.: 00

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

(ii) Themes: N. A.

## 2.14 Significant Activities and contributions made by IQAC

- CAS (Career Advancement Scheme) for teachers.
- PBAS (Performance Based Appraisal System) implemented for teaching staff.
- Planning of Programmes for the academic year, monitoring the programmes and reviewing the plan at the end of the year.

## 2.15 Plan of Action by IQAC/Outcome

### Academic Calendar: 2013-14

Sr. No.	Academics/ Events	Date
1	Commencement of the Academic Year	15 <sup>th</sup> June 2013
2	College Foundation Day	21 <sup>st</sup> July 2013
3	Mid Term/ Mid Semester Examinations	4 <sup>th</sup> week of August 2013
4	Last working day of the first term	31 <sup>st</sup> October 2013
5	First working day of the second term	26 <sup>th</sup> November 2013
6	Gokhale Cup Elocution Competition	December 2014
7	NCC Day	January 2014
8	Talent Week	13 <sup>th</sup> – 18 <sup>th</sup> Jan. 2014
9	Scholars Day	January 2014
10	Mid Term/ Mid Semester Examinations	2 <sup>nd</sup> & 3 <sup>rd</sup> week of February 2014
11	Gymkhana Day	February 2014
12	Traditional Dress Day	14 <sup>th</sup> Feb 2014
13	Science Day	28 <sup>th</sup> Feb 2014
14	MTS Examination	3 <sup>rd</sup> week of April 2014
15	Last working day of the academic year	30 <sup>th</sup> April 2014

Plan of Action	Achievements
<ul style="list-style-type: none"> <li>Promoting teachers for refresher/orientation programmes, workshops, conferences etc.</li> </ul>	<ul style="list-style-type: none"> <li>3 teachers attended refresher courses, orientation programmes and workshops</li> <li>82 teachers participated in conferences out of which 91 presented papers and 7 were resource persons</li> </ul>
<ul style="list-style-type: none"> <li>Encouraging students to participate in inter-collegiate and intra-collegiate competitions and events.</li> </ul>	<ul style="list-style-type: none"> <li>Around 100 students participated in various intercollegiate events and competitions and brought laurels to the college</li> <li>T.Y.B.Sc Biotechnology Students Mr.Qusai Indonesiawala and Miss.Minaz Inamdar won the Zonal level &amp; University level project competition for the project entitled ‘‘ Bio plastic-the green alternative’’ and participated in the State level ‘Avishkar’ Competition.</li> <li>The group of S. Y. B. Sc. students DIGIMinds comprising of Viraj Pawar, Harshan Pardeshi, Tanzeem Raheman, Isha Rajput and Akshay Tambe were the winners of Zonal round for <b>ROBOTICS Championship</b> organized by IIT Powai and ARK Techno Solutions and were selected for participation in the final round. The FINAL round was held on 8<sup>th</sup> and 9<sup>th</sup> March 2014 at IIT, Powai, wherein around 300 teams from all over India participated and our team reached the top ten, fetching the third rank.</li> <li>3 teams of Students of the Psychology department participated in the Quiz Competition held at the University of Pune and secured the first, second and third places.</li> <li>SYBA students of Psychology participated and won the 1<sup>st</sup> prize in the Psyquiz at ‘Psyphoria’ at the Symbiosis College of Arts and Commerce on 13<sup>th</sup> Feb. 2014.</li> </ul>
<ul style="list-style-type: none"> <li>Starting short-term career oriented courses.</li> </ul>	<ul style="list-style-type: none"> <li>A certificate course on Android Programming for Post graduate students and staff members was organized from 5<sup>th</sup> October to 30<sup>th</sup> October, 2013 and was conducted by an Industrial expert, Mr. Aniket Khade. All the 52 participants were evaluated and given certificates.</li> <li>A certificate course for B. Sc. and M. Sc. students was conducted by the Electronics department on Device Driver Programming and Embedded System</li> <li>A course in Modi Script was conducted by the Department of History</li> </ul>
<ul style="list-style-type: none"> <li>Improving student evaluation procedures.</li> </ul>	<p>The introduction of the choice based credit system at the First Year PG level, afforded greater flexibility to the teachers to use innovative techniques of evaluating the students</p>

<ul style="list-style-type: none"> <li>Upgrading laboratory equipments.</li> </ul>	Equipments purchased to the tune of Rs. 35 lakhs
<ul style="list-style-type: none"> <li>Encouraging teachers to take up major/minor research projects</li> </ul>	<ul style="list-style-type: none"> <li>Dr. V.V. Chabukswar bagged a major project from ISRO worth Rs.15,82,000/-.</li> <li>Ten teachers received grants for projects from BCUD, University of Pune totalling to Rs.21.77 lakhs</li> <li>Teachers received minor projects from UGC</li> </ul>
<ul style="list-style-type: none"> <li>Organizing competitions, soft-skill workshops for overall development of students.</li> </ul>	<ul style="list-style-type: none"> <li>Several intra collegiate and inter collegiate competitions were organized by different departments for building camaraderie, promoting creativity and critical thinking.</li> <li>Free Workshops on Linux, Python and Scilab were conducted for students and teachers under Spoken Tutorial programme of IIT , Bombay by the Department of Computer Science</li> </ul>
<ul style="list-style-type: none"> <li>Active participation in curricular development at university level.</li> </ul>	<ul style="list-style-type: none"> <li>M.Sc. (C.S.) Part I and M.C.A.(Science) syllabus implementation workshop was conducted by Department of Computer Science which was sponsored by the Board for College and University Development (BCUD), University of Pune on 3rd September, 2013 and was attended by 86 participants from various colleges.</li> <li>Workshop for Revision of SYBSc (Physics) syllabi was organized on 25th March 2014, by the Department of Physics in collaboration with Board of Studies in Physics, University of Pune. It was Funded by BCUD, University of Pune and was attended by 29 participants</li> </ul>
<ul style="list-style-type: none"> <li>Organizing events highlighting duties and responsibilities of citizens</li> </ul>	<ul style="list-style-type: none"> <li>Five students of the college were trained by the NGO Parivartan for voters' registration who in turn undertook a massive voter's registration drive on the campus for new voters.</li> <li>The teaching and non-teaching staff and students of our college signed an undertaking that they would cast their valuable votes in the Lok Sabha elections.</li> </ul>
<ul style="list-style-type: none"> <li>Strengthening Industry Interaction and exposure</li> </ul>	<ul style="list-style-type: none"> <li>As many as twelve companies visited the campus for selecting Undergraduate students for placement and three Companies Wipro, HSBC and IBM global together recruited almost sixty students.</li> <li>Almost 43 companies visited the campus for placement of Postgraduate students in Computer Science and recruited around 63 students. Two Organizations visited the campus for placement for Postgraduate students in Chemistry and recruited around 10 students</li> <li>Several departments organized Industry visits and lectures by Industry experts</li> <li>Several Industrial Projects were undertaken by various Departments.</li> </ul>



<ul style="list-style-type: none"> <li>Expanding the reach of Extension activities</li> </ul>	<ul style="list-style-type: none"> <li>School students appearing for the Maharashtra Talent Search Examination, conducted by our Centre for Talent Search and Excellence, from Maharashtra, Karnataka , Goa and Gujarat in April 2014, crossed the one lakh mark.</li> </ul>
---	--

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 26/08/16
- Revised draft presented before IQAS and approved with suitable changes on 03/09/16
- Presented before Management and approved by Management on 09 /09/16
- Uploaded on the college website [www.nowrosjeewadiacollege.edu.in](http://www.nowrosjeewadiacollege.edu.in) on 28 /10/16 at the following link

## Part – B

### Criterion – I

#### I. 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 I	0	04	0
PG	17 Annexure II	0	17	0
UG	16 (07+07+02) Annexure III	01(Marathi Special. at SYBA)	02	0
PG Diploma	0	0	0	0
Advanced Diploma	0	0	0	0
Diploma	0	0	0	0
Certificate	04 Annexure IV	0	04	03
Others	0	0	0	0
<b>Total</b>	41	01	27	03
Interdisciplinary	01 Annexure V	0	01	0
Innovative	01 Annexure VI	0	01	0

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

- Our UG course is a Core Curriculum, prescribed by the University of Pune. Our PG courses consist of Electives, prescribed by the University of Pune, thereby providing flexibility in the curriculum.
- Academic flexibility is also present in the Choice Based Credit System for PG courses whereby a student can earn credits from other Departments/ Institutes.

(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 follow 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 classes.

1.3\**Please provide an analysis of the feedback*

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

**Feedback from Stakeholders:**

We take regular feedback from Alumni, with respect to our Curriculum Implementation. Our Alumni has a constant active association with their respective departments, through their participation in various co-curricular activities, as Judges and Speakers. During these co-curricular activities, discussions related to Syllabi implementation are held and Alumni feedback is noted. The mode of feedback is manual.

**Feedback from Employer:**

Placement officers are in continuous contact with the organizations Every year when they visit for recruitment, there is also positive or negative feedback from the employer. Some companies approach again satisfied by the performance of the students they have recruited. We receive mails from recruiters thanking for providing good employees. The letter from TCS states that our college is amongst top 200 Colleges on the TCS Ignite employability index.

**Feedback from Parents:**

Heads of Departments interact with Parents of students (associated with their departments) misbehaving in class, continuously remaining absent or failing in multiple subjects. They are given inputs about their wards and corrective actions are taken such as taking help of the Counsellor or of Remedial Coaching. Teacher mentors also talk to parents of students whom they are mentoring and get feedback about the course and the faculty.

**Feedback from the Students :**

Feedback is taken from the students regarding their teachers as well as Office, Library and the facilities on the Campus in general. Analysis of this feedback is done and handed over to the concerned person/ department for corrective action as and when required.

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

- 1) Our course curricula are prescribed by the University of Pune. Certificate courses are designed in consultation with Industrial or Domain Experts.
- 2) P.G. syllabus is revised once in 3 years and U.G. syllabus is revised once in 5 years.
- 3) In the academic year 2013-14, F.Y. B.Sc /F.Y.B.A. syllabus was revamped.
- 4) Choice Based Credit System was introduced for the first time for the First year PG courses. Along with this, there was also revision in syllabus of first year PG courses.

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
	87 (Aided) 9 (Non Aided)	49 (Aided) 5 (Non Aided)	41 (Aided) 4 (Non Aided)	0 0	02 0

2.2 No. of permanent faculty with Ph.D.:50(49from Aided, 01 from Non Aided)

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

	Assistant Professors		Associate Professors		Professors		Others		Total	
	E+R	V	E+R	V	E+R	V	E+R	V	E+R	V
Aided	31+18	08	41+0	0	0	04	2+0	0	72+18	12
Non Aided	05+0		04+0						09+0	

2.4 No. of Guest and Visiting faculty and Temporary faculty

Guest	Visiting	Temporary
--	116*	77

\*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	12	48	22
Presented papers	31	53	07
Resource Persons	01	02	04

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

- 1) Our teachers used innovative methods for teaching-learning-process.
  - i) Assignments comprising of objective as well as subjective questions were given to the under graduate students after completion of every topic. Students were made to solve the objective questions in class and were quickly evaluated while the subjective questions were left to the students, for solving at home.
  - ii) Subject related Quizzes were conducted, to improve student interaction in the classroom .
  - iii) The concept of pre-reading was introduced for the PG students, for their subjects.
  - iv) Use of ICT, in the form of Power Point slides was made for PG courses
  - v) Audio Video Training is provided to Sportsmen by the Department of Physical Education.
  - vi) Student Mentoring is done so as to ensure they do well in academics and they have someone to share their problems with.
  - vii) The Department of Physics designed innovative Demonstration Experiments which helped the students to understand some difficult concepts
  - viii) Dr.Aditi Phadke was part of the online book writing committee of F.Y.B.Sc. Mathematics and F.Y.B.Sc. Computer Science appointed by the Board of Studies in Mathematics, University of Pune.
  - ix) The Psychology Department used Stimulated Peer Review Teaching and Experimental Method
  - x) Staff members from Department of Computer Science designed Lab Books for F. Y. B. Sc (Comp. Sc) Lab courses and also for M. C. A.(Science) Lab Courses.
- 2) Participative learning was encouraged
  - xi) Wall magazines have been specifically introduced so that students can share their creative expressions in the form of articles, poems, sketches, quizzes. Technical information is also published periodically by the departments on the wall magazine.
  - xii) Students are encouraged to learn more about the subject by participating in project, poster, lecture competitions and participatory games arranged by different departments
  - xiii) The Mathematics Department arranged a mathematical treasure hunt. 75 teams of 3 each participated in this.
  - xiv) The Hindi Department organised an Essay Writing competition and a poetry reading competition in which students presented self composed poems.
  - xv) The Marathi Department held several competitions for the students like Comic Storytelling, Original Poetry reading, Essay Writing, Guest Lectures, Sundar Hastakshar(Good Handwriting)
  - xvi) Psychology 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.
  - xvii) The Geology Department holds Exhibition on rare minerals, preserved butterflies, zeolites, dinosaurs' eggs and fish fossils from all around the world annually since the last few years. The geological evolution of these specimens was explained to the students this year too as in every other year.
  - xviii) Students of the English Department were shown Short films and they were asked to write on the same. The written script evolved into a short story. This activity was undertaken so as to explain to the students the difference between a short story and a novel. A feature film depicts novel like life whereas a short film depicts life presented in a short

story. Thus, students are introduced to the elements of the short story using audio-visual aids.

- xix) During 'Literaria', the literary fest, students dressed up as characters and authors from different literary texts and helped students in understanding the characters, authors, genre and the text better.
- xx) The English Department has a Research club. They also conducted activities like Play Reading, producing, directing and staging a play and screening films

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

Arts	Science
193	198

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

- Bar Coding system ,introduced by the University of Pune, was implemented by the college and the supervisors for the examination were trained in the process of bar coding
- Continuous Evaluation for first year Post Graduate Courses has been introduced during the academic year 2013 - 14
- Open Book Tests were conducted for PG students
- Home assignments involving developing of study material , writing a survey article etc. were given to PG students who were evaluated through continuous monitoring of the activity
- Seminars and Reading Assignments were also given to the PG students
- Multiple Choice Questions were given to UG students as part of their Internal Assessment

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

Curriculum Restructuring	Curriculum Revisions	Syllabus Development
30	36	29

#### 2.10 Average percentage of attendance of students

Exact Percentage varies from class to class. However, the average percentage is approximately 75.

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.	437	10.29	28.15	28.14	6.41	72.99
T. Y. B. Sc.	331	20.54	30.82	12.99	2.11	66.46
T. Y. B. Sc. (Comp. Sc.)	162	11.73	25.93	27.78	0.62	66.06
T. Y. B. Sc. (Bio Tech)	33	6.06	30.30	54.55	0.0	90.91
M. Sc.	473	4.44	41.40	24.31	2.75	72.90
M. A.	136	8.09	31.62	29.41	5.15	74.27

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

IQAC encourages the various departments of the college to periodically arrange syllabus revision workshops in collaboration with and with support from the University. Faculty members work as resource persons/ Heads of groups at such syllabus revision workshops. IQAC conducts meetings with the Heads of the Departments to discuss their teaching learning plan for the year at the beginning of the year and takes a review at the end of the year.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	03
UGC – Faculty Improvement Programme	--
HRD programmes	--
Orientation programmes	--
Faculty exchange programme	--
Staff training conducted by the university	02
Staff training conducted by other institutions	06
Summer / Winter schools, Workshops, etc.	31
Others	08

## 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	95(Aided) 51 (Non Aided)	35(Aided) 58 (Non Aided)	35(Aided)  --	14
Technical Staff	02	--	--	--

## Criterion – III

### 3. Research, Consultancy and Extension

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

- The positively charged atmosphere in the campus after two International Conferences in the previous year i.e. 2012-2013, was used advantageously by IQAC to promote research activity. Teachers were encouraged to participate in national/ international conferences and present papers there.
- The potential researchers were identified and were encouraged to write major / minor project proposals
- Applications from Teachers interested in pursuing their Ph. D. were invited and two teachers were selected for the UGC Faculty Improvement (FIP) programme

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	02	02	00	08
Outlay in Rs. Lakhs	21.648	18.81	00	211.11

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	03	03	02	03
Outlay in Rs. Lakhs	6.35	3.875	3.03	7.5

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	59	10	--
Non-Peer Review Journals	--	03	01
e-Journals	--	02	--
Conference proceedings	08	16	11



3.5 Details on Impact factor of publications: See Annexure VII

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 (in Rs.)	Received (in Rs.)
Major projects	2011-2013 (Dr. S. L. Bonde) 2010-2013 (Dr. G. R. Aher) 2012-2015 (Dr. G. R. Aher) 2014-2016 (Dr. V. V. Chabukswar)	ISRO,PU ISRO,PU UGC ISRO	8,00,000/- 13,64,800/- 11,41,865/- 15,82,000/-	1,86,000/- -- 12000/- 7,39,000/-
Minor Projects	2012-14 (Dr. R. P. Bhadane) 2014-16 (Dr. V. V. Chabukswar) 2012-14 (Reena Bharati) 2013-15 (Dr. F. I. Surve) 2013-15 (Dr. F. I. Surve) 2013-15 (Dr. U. R. Khare) 2013-15 (Dr. S. C. Shirwaikar) 2013-15 (N. V. Ranade) 2013-15 (P. S. Ponde)	UOP,BCUD UOP,BCUD UGC, WRO UOP,BCUD UGC,PU UOP,BCUD UOP,BCUD UOP,BCUD UOP,BCUD	2,75,000/- 2,50,000/- 1,10,000/- 2,90,000/- 2,45,000/- 2,60,000/- 2,15,000/- 2,25,000/- 1,40,000/-	59,348/- -- 70,000/- 1,35,000/- -- 1,30,000/- 1,07,500/- 1,12,500/- 70,000/-
Interdisciplinary Projects	--	--	--	--
Industry sponsored	--	--	--	--
Projects sponsored by the University/ College	2013-2014	College	15,000/-	15,000/-
Any other(Specify)	01* 2012-14	Bishop's School, Pune	--	--
Total	22			

\*Prof. Pramila Dasture has been appointed to carry out research and author a Book on the history of Bishop's School, Pune, on the occasion of their Sesquicentennial year

3.7 No. of books published i) With ISBN No.: 23 Chapters in Edited Books : 15

ii) Without ISBN No.: 03

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: No

3.11 No. of conferences organized by the Institution

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

3.12 No. of faculty served as experts, chairpersons or resource persons: 24

3.13 No. of collaborations

International : 03      National: 11      Any other: 01

3.14 No. of linkages created during this year: 09

3.15 Total budget for research for current year in lakhs:

From Funding agency       From Management of University/College   
 Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	01
	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
02	--	02*	--	--	--	--

\*Dr. S. D. Shinde and Dr. V. V. Antad, Department of Physics, received the D. S. Kothari Post-Doctoral Fellowship.

3.18 No. of faculty from the Institution who are Ph.D. Guides: 19 (Ph. D. Guides) and students registered under them : 35

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

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

JRF       SRF       Project Fellows       Any other

\*Vikas Jadhav, from the Department of Mathematics was on UGC sponsored FDP. He resumed duties in college on 1<sup>st</sup> August 2013.

3.21 No. of students Participated in NSS events:

University level	<input type="text" value="100"/>	State level	<input type="text" value="00"/>
National level	<input type="text" value="00"/>	International level	<input type="text" value="00"/>

3.22 No. Of students participated in NCC events:

University level	<input type="text" value="39"/>	State level	<input type="text" value="06"/>
National level	<input type="text" value="08"/>	International level	<input type="text" value="00"/>

University Level: Army – 14, Navy- 11, Air- 14

State Level: Army – 1, Navy- 1, Air- 4

National Level: Army – 3+1=4, Navy- 2+1=3, Air- 1

3.23 No. Of Awards won in NSS:

University level	<input type="text" value="00"/>	State level	<input type="text" value="00"/>
National level	<input type="text" value="00"/>	International level	<input type="text" value="00"/>

3.24 No. Of Awards won in NCC:

University level	<input type="text" value="02"/>	State level	<input type="text" value="04"/>
National level	<input type="text" value="02"/>	International level	<input type="text" value="00"/>

University Level: Army –2, Navy- 0, Air- 0

State Level: Army – 0 Navy-0 , Air- 4

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

Chief Minister's Scholarship was awarded to Sr. C.C. Shifa Siddhique (Navy).

3.25 No. Of Extension activities organized

University forum	<input type="text" value="07"/>	College forum	<input type="text" value="10"/>		
NCC	<input type="text" value="04"/>	NSS	<input type="text" value="05"/>	Any other	<input type="text" value="11"/>

\*For Details, please refer to Annexure VIII

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

a) C.T.S.E. conducted following activities in the year 2013 -14

➤ **Maharashtra Talent Search Examination :**

The prestigious Maharashtra Talent Search Examination was successfully conducted on 28<sup>th</sup> April, 2014 by CTSE for the students studying in Std. VIII<sup>th</sup>, IX<sup>th</sup> and X<sup>th</sup>. This was the 22<sup>nd</sup> year of conducting the examination. The number of students appearing for this Examination crossed 1 lakh. 1,05,589 students of 3526 schools from Maharashtra, Goa, Karnataka appeared for the MTS Examination at 688 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 June 15<sup>th</sup> 2013, the prizes for the previous year were given. Rs. 22.5 Lakh were awarded as prizes to 9961 students. Prizes for the current MTS will be given in the next academic year.

➤ **Graduate Excellence Examination – 2014**

- The Graduate Excellence Examination was conducted on 2nd February, 2014 at 11 centres across Maharashtra for the students doing graduation / post-graduation.
- The examination was held at three levels viz. F.Y., S.Y. and T.Y. G.E.E. and there were two streams for each level namely Administrative Services and Management Services.
- 619 Students from 42 colleges across Maharashtra participated in the examination.
- Group Discussion and Personal Interviews of Top 50 students of SY and TY level were conducted at Pune and Aurangabad.
- The result was declared on 15th March, 2014.
- 21 State level prizes, 34 Special prizes and 58 Consolation prizes were awarded to the students in a Prize Distribution ceremony held at Nowrosjee Wadia College.

➤ **Entrance Examination for ACEC, YASHADA**

- CTSE conducted the entrance examination for the selection of candidates from different categories for the UPSC Preliminary Examination Coaching program which is conducted by Dr. Ambedkar Competitive Examination Centre (ACEC), YASHADA for the fifth consecutive year.
- The entrance examination was successfully conducted at 33 centres across Maharashtra on 15th December, 2013 and 5099 candidates from all over Maharashtra appeared for the Examination.

b) Departmental Contributions :

- PG students of the department of Psychology, volunteered with schools run by Gyanankur at Kharadi, as part of community service. They also conducted many workshops on 'Resilience & Coping' in coordination with Reach Out to Life Foundation at various schools in the city and within the campus of Wadia College. The students also participated in a Flash Mob organized by Reach out to Life Foundation for the purpose of creating awareness about suicide prevention on International Suicide Prevention Day. The department organised a Psychology Fest called Beautiful Minds for the students.
- The Computer Science department organized an inter-collegiate event on Seminars – TechQriosity. Their wall magazine 'Zaroka' is aimed at spreading Social and Technical awareness.

- The Mathematics Department conducted the following activities:
  - Dr. Aditi Phadke of the Department of Mathematics worked as the DEPUTY LEADER of the Indian Team for the International Mathematical Olympiad (IMO 2013) which is one of the most prestigious pre-college International Mathematics Competition. The competition was held at Santa Marta, Colombia from July 18 to 28, 2013. This important responsibility was assigned to her by the National Board of Higher Mathematics (NBHM).
  - Prof. P.N. Shinde, Prof. S.G. Latpate, Prof. N.D. Mundlik and Prof. Shital Solanki delivered lectures in the Training Programme by BARTI, held from June to August 2013, to train the students for Banking Examinations.
  - Our College was a centre for the Regional Mathematical Olympiad held in December 2013. The Madhava Mathematics competition was held in January 2014. Our college was a centre for the Competition. A large number of students of our college participated in the competition.
  - Dr. Aditi Phadke worked on the paper-reviewers-panel for International Conference in Computational Intelligence organized by Department of Computer Science and ACM Students' Chapter of University of Mumbai and Deccan Education Society's Navinchandra Mehta Institute of Technology and Development, Mumbai.
  
- The Physics Department organized PHYSIQUEST – a Physics related one day activity on 18<sup>th</sup> Jan 2014. A Lecture and Essay Competition, Physics crossword and Physics Exhibition was held under PHYSIQUEST. They also organised a lecture cum demonstration of Senior Prof M. G. Tarnekar from Raipur, on 25<sup>th</sup> Sept 2013 for students and staff. Prof Tarnekar is well known all over India and has given such lectures to more than 15000 students over the years. The department conducted Olympiad Examinations in Physics, Chemistry, Biology and Astronomy. NGPE Examination was conducted by the department which was organized by the Indian Association of Physics Teachers.
- The Geography Department held an Exhibition called Geographica of Posters, Models and Rangoli. There was also a Lecture on Urban BioDiversity by Dr. Sanjeev Nalawade, a Guest lecturer on this occasion. Students of FYBSc were taken for a conducted tour to the India Meteorological Department in February 2014
- The Electronics Department organised a Project Exhibition for TYBSc students. A Seminar on Entrepreneurship Development was held for Vocational Electronics and Mathematics students.
- The Chemistry Department held the Silver Jubilee Lecture Competition for PG students. A Chemistry Exhibition was held for UG and PG students.
- Prof. Pramila Dasture worked as Chairperson of the BOS for History of the YASHADA/GEE/MTS Examination. The History Department conducted a 10 days' workshop on MODI script which was also open to outsiders
- The Zoology Department organised an Intercollegiate ZOOFEST on 14<sup>th</sup> and 15<sup>th</sup> January 2014, where exhibition, Quiz, guest lectures were held.
- The Geology Department as part of their annual event, held a World Class Exhibition of Geological Specimens. This exhibition is also open to school students. At least 25 different schools from Pune visited this exhibition. A Geological Museum was setup for the students in the Department.
- The Botany Department organized BOTANICA an intercollegiate competition. Adaptation of some Gymnosperms under Pune Climatic conditions has been done.
- Geographical Information System: We have a Geo Informatics Lab for the students of M. A. Geography. Students from the previous batches who had Geo Informatics as a special subject have been absorbed in different companies for the GIS related jobs. GIS can be applied in the field of Research for different branches like Geomorphology and Human Geography. As a part of PG syllabus, GIS is useful for dissertation course. Staff members and students also use GIS for their research projects.

- 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.

c) Other Extension Activities :

- Students wishing to join Defence Forces are given opportunity to join NCC (Army, Air force and Navy wings). As part of NCC the cadets attend various camps and in addition they also participate in social service activities organised by their respective battalions. These activities help in developing their overall personality and leadership qualities.
- Through NSS activities, students actively participate in social service activities. These activities help in developing their character, helps sensitize them about social issues and creates awareness about the society in general.
- Our NCC and NSS volunteers worked during the Ganesh Festival along with Pune City Police. 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 tantramuktgaon, kanyaratna, hundabandi, tree plantation, etc. A lecture on use and conservation of electricity in rural areas was held.
- Five students of the college were trained by the NGO *Parivartan* for voters' registration who in turn undertook a massive voter's registration drive on the campus for new voters.
- The teaching and non-teaching staff and students of our college signed an undertaking that they would cast their valuable votes in the Lok Sabha election.
- There is a Louis Braille Writer's Club in college where other students help blind students by being writers for their exams. These students also go to other colleges to help the blind students there to write their examinations.
- A Blood Donation Camp was organised under the auspices of N.Wadia College and Acharya Anand Rishiji Charitable Trust. They also had a free haemoglobin and blood pressure check up
- On 4<sup>th</sup> February 2014, the Zoology Department organised RYLA, the Rotary Youth Leadership Awards at Nowrosjee Wadia College which was sponsored by Rotary Club of Poona Downtown South.
- 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 the year. Mr. Pratik Thube, selected for the IAS and Ms. Mohini Dongre selected for IPS were invited for giving Inspirational Talk and guidance to the students aspiring for Public Service Examinations. As a part of Dr. B. R. Ambedkar and Mahatma Phule Samyukta Jayanti Mahotsav, the following programmes were organised :
  - 1) 14 hour non- stop study.
  - 2) Intercollegiate Essay Writing Competition.
  - 3) A Speech on Social Harmony was delivered by Prof. Pratima Pardeshi
- A short film by Lokayat organization was screened on the significance of cycling in Netherlands and the importance of cycle as a medium of transport in Pune was brought out in a discussion with students of our college.
- There was a Film screening for the students on Mahatma Phule and his contribution to social revolution.
- The Staff Academy, organised staff socials as usual for the teaching as well as non teaching staff members of the college. There was also a cookery contest, slow biking contest and WORDIA a literary quiz and some other games for the staff.
- The Debating Society of the College conducted the following activities :
  - 1) Elocution Competition
  - 2) An Extempore Speech Competition
  - 3) The college conducted the prestigious Annual Inter collegiate H. H. The Raja of Sangli's Gokhale Cup Elocution Competition

- Around 100 foreign students are studying in Nowrosjee Wadia College. Under the Foreign Students Forum of the college, a programme was organised in which Foreign students from different countries gave performances depicting the cultures of their countries.
- Under the auspices of the Arts Circle Nirmiti, the following events were organised: As part of the 81st year of the college in the first semester, a 2 day cultural event 'Horizon 13' was organised jointly with the Foreign Student Forum.
  - a) On the first day of the event, foreign students through their dances exhibited their talent in the cultural programme 'Colours of Asia'. On the second day of the event, the programme ended with a fashion show 'Ethnic India' in which students were dressed in costumes of their states. On this occasion, Prof. Y. Mane guided the students on FSCC helpline and how it would help foreign students after their arrival in Pune.
  - b) The second semester was full of colours of 'NOWROS 14', the mega cultural event during the second week of January. The students jostled with each other to participate in fun games such as Treasure Hunt, Jugaad, Poster Faadke and Mad Ads. The highlight was the cultural programme organised exclusively for Arts and Science students. The performances ranged from a stand up on prevention of atrocities on women to a colourful Mauritian dance. In the evening the science social started with the skit on de-addiction.

d) Institutional social responsibility :

The sad and untimely demise of Prof. Pratik Lohar, from Department of Computer Science, was a heartbreaking incidence. The teaching and non-teaching staff members as well as students were deeply saddened. It was decided in the condolence meeting that we should raise the fund to help the aggrieved family. Principal Dr. M. M. Andar, Secretary, Modern Education Society, took the initiative, and many teaching and non-teaching staff members, students contributed to the fund. The details of the fund is as follows :

- The amount contributed by teaching staff-members : Rs. 1,53,800 /-
- The amount contributed by non-teaching staff-members : Rs. 16,950 /-
- The amount contributed by students : Rs. 73,560 /-
- The bank-interest obtained on the amount : Rs. 5,690 /-

The total amount of Rs. 2,50,000 /- was invested in one-time premium insurance policies in the name of his daughter Ms. Dnyaneshwari Lohar. The policies will mature in the year 2034. These policies were handed over to his wife, Ms. Sunita Lohar at the hands of Principal Dr. M. M. Andar on Saturday, 13<sup>th</sup> July 2013.

The details of the fund and policies are available in the Department of Computer Science.

## 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	--	--	01
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	Rs. 1,16,71,441/-	Rs. 22,01,761/-	Self Financing, UGC XIIth Plan & Project Funds	Rs. 1,38,73,202/-
UPS, Camera & Other equipments		5,92,299/-		
Value of the equipment purchased during the year ( in Rs)	1,41,13,072/-	35,80,577/-	Self Financing	1,76,94,349/-
Others(Furniture, Fixtures, Library Books)	63,54,784/-	8,76,417/-	Self Financing	72,31,201/-
Assembly Hall	01			01
Green House	01			01

#### 4.2 Computerization of administration and library

- The College has a very big library with almost 1.5 lakh books. It has a huge reading room and separate reading cubicles for staff. Computerization of Library is in progress. Data of 24,000 books is so far entered through SOUL software.
- Since October 2013 the college office has started using 'Vridhhi' Software for examination results.
- Most of the departments have a computer and much of their administrative work is computerized.
- In the Computer Science department the attendance system of the students is completely computerized



#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books & Reference Books	10,10,366	-	984	495519	1,11,350	-
e-Books	--	--	--	--	--	--
Journals			14	21649		
e-Journals	--	--	--	--	--	--
Digital Database	--	--	--	--	--	--
CD & Video	--	--	--	--	--	--
Others (specify)	--	--	36	32324	--	--

- 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 be purchased.
- Books are also donated by staff as well as students to the departmental libraries.

#### 4.4 Technology upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	320	13	03	13	01	12 (Grant) 7 (Non Grant)	286	05
Added	23	00	00	00	00	03	20	00
Total	343	13	03	13	01	15	306	05

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology Upgradation (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 switch to the Internet. A fibre optic line was laid out to improve internet access speed.
- A separate **Computer Center** 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

- A demonstration cum doubt clearing 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 input helped in removing doubts and motivating them to use the new technology.
- A Networking course was run for M.Sc. Electronics Students.
- Spoken Tutorial Programme for students in association with IIT Bombay was run by the Computer Science Department.

#### 4.6 Amount spent on maintenance:

i) ICT	Rs.22,96,233/-
ii) Campus Infrastructure and facilities	Rs. 27,94,590/-
iii) Equipments	Rs. 42,68,717/-
iv) Others	Rs.2,41,855/-
<b>Total :</b>	<b>Rs. 96,01,395/-</b>

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

IQAC proposed that College should go for an on-line admission system and initiated efforts in identifying the services that can achieve this goal.

#### 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 and on the college website, through teacher – student interaction and also through periodic meetings with the Students' 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 etc. Doctor 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: 3606 (2865 Grant, 741 Non Grant)      PG : 1138      Ph. D. : 20

(b) No. of students outside the state: 165 + 121 = 286

(c) No. of international students: 154 + 30 = 184

Men: 1600 (G) + 916 (NG)      Women : 1265 (G) + 1138 (NG)

No	%
2516	53

No	%
2228	47

Men Women

	Last Year						This Year					
	General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
<b>Grant</b>	2185	379	114	93	73	2844	2162	346	116	169	72	2865
<b>Non Grant</b>	1310	188	13	262	-	1773	1416	188	13	262	-	1879

### Demand Ratio

Sr. No.	Course Name	Intake Capacity	No. of Applications Received	Demand Ratio
<b>UG</b>				
1	F.Y.B.Sc.	480	550	1 : 1.15
2	F.Y.B.A.	600	721	1 : 1.2
3	F.Y.B. Sc. Computer Science	160	790	1 : 4.94
4	F.Y.B.A. Biotechnology	45	115	1 : 2.56
<b>PG</b>				
1	M.Sc. Electronics	24	45	1 : 1.88
2	M.Sc. Physics	24	307	1 : 12.79
3	M.Sc. Petroleum Technology	48	102	1 : 2.13

4	M.Sc. Geography	24	37	1 : 1.54
5	M.Sc. Chemistry	168	366	1 : 2.18
6	M.Sc. Zoology	24	68	1 : 2.83
7	M.Sc. Botany	24	32	1 : 1.33
8	M.Sc. Computer Science	60	316	1 : 5.27
10	M.C.A. (Science) & M.Tech.(Industrial Mathematics with Computer Applications)	60+30	164	1 : 1.82
11	M.A. English	60	110	1 : 1.83
12	M.A. Economics	60	137	1 : 2.28
13	M.A. Psychology	24	54	1 : 2.25

#### Dropout %

<b>(Grant Courses)</b>				
<b>Sr. No.</b>	<b>Class</b>	<b>Total No. of students</b>	<b>No of students who took LC with the remark fail on it</b>	<b>Dropout%</b>
01	F.Y.B.A.	721	20	2.77%
02	F.Y.B.Sc.	550	68	12.36%
03	S.Y.B.A.	534	05	0.94%
04	S.Y.B.Sc.	311	13	4.18%
05	T.Y.B.A.	441	06	1.36%
06	T.Y.B.Sc.	308	01	0.29%
<b>(Non-Grant Courses)</b>				
<b>U.G.</b>				
1	F.Y.B.Sc Computer Science	164	7	4.27

	<b>P.G.</b>			
1	M.Sc Chemistry	190	1	0.53
2	M.Sc Physics	47	4	8.51
3	M.Sc Botany	37	2	5.41
4	M.A.English	113	3	2.65
5	M.A.Economics	113	3	2.65

#### 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
- Mr. Pratik Thube, selected for the IAS and Ms. Mohini Dongre selected for IPS were invited for giving Inspirational Talk and guidance to the students aspiring for Public Service Examinations.

No. of students beneficiaries : GEE : 619

Lectures : 300

Others : 200 approximately

#### 5.5 No. of students qualified in these examinations

NET  SET/SLET  GATE  CAT   
IAS/IPS etc  State PSC  UPSC  Others

Data not available with the Institution for this.

#### 5.6 Details of student counselling and career guidance

- The Disha Counseling Centre handled various cases under the counselor, Ms. Manasi Shah. Students showing an unusual behavioural pattern – remaining absent, misbehaving in class are asked to see the counsellor
- There was a cultural event called ‘Colours of Asia’ organised jointly by the Arts Circle and Foreign Students Forum. On this occasion Prof. Y. Mane, guided the students on FSCC helpline and how it would help foreign students after their arrival in Pune.

- 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** 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.
- 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.

No. of students benefitted: Personal counselling – 20 (Psychological)

Through Workshops	– 2000
Techqriosity	– 180
Sports	– 200
Project Mentoring	-- 10

#### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
55	414	123	28

#### 5.8 Details of gender sensitization programmes:

1) The main objective of the Women's Forum is to prepare women of the 21<sup>st</sup> 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), a guest lecture and interactive session by Mrs. Alka Joshi of Abhivyakti, a Voluntary Organization, was held on 25<sup>th</sup> October 2013. She spoke on issues of women and issues related to gender sensitization.

2) A special programme for Empowerment of Women was held for the women folk of Dongargaon village at the Special winter camp for NSS on 28 Dec. 2013. Dr. Vrushali Randhir was the speaker. 52 Volunteers and 10 ex students were present along with the village folk. In the same camp, cultural programmes based on social awareness like female foeticide, save girl child, dowry etc. were also held.

#### 5.9 Students Activities

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

State/ University level: 21      National level: 12      International level : 1

No. of students participated in cultural events

State/ University level: 12\*+ 16\* + 12\*+ 6\*

National level: 01

International level: 00

\*12students participated in a State Level street play competition held at S. P. College

\*16students participated in a State Level cultural event held at Sinhagad College, Narhe  
Campus

\*12students participated in university level Youth Festival held at SSPMS College.

\*6students participated in Intercollegiate Play Reading Competition and won 2<sup>nd</sup> prize held at  
Symbiosis College

01 student participated in the National Level Youth Festival ‘Mood Indigo’ organised by IIT  
Powai and he won a silver medal

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

Sports:

State/ University level : 18

National level : 03

International level : 01

Cultural:

State/ University level: 00

National level: 00

International level : 00

Other: 01(Mood Indigo)

5.10 Scholarships and Financial Support

Type	Number of Students	Amount in Rs.
Financial support from institution	39(G)	46,576/-
Financial support from government	293(G) 260(NG)	7,36,520/- 46,64,828/-
Financial support from other sources ( Arthik Durbal, Savitribai Phule, Rajarshree Shahu and Eklavya )	32	2,63,000/-
Leela Poonawalla Foundation Scholarship	03	95,000/-
Number of students who received International/ National recognitions	111	5,30,243/-

### 5.11 Student organised / initiatives

Fairs :

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

Exhibition:

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

TechQriosity is a unique event that has been held successfully for the last ten years. It comprises of seminars by technical experts from industry and panel discussion on topics related to career options. It has been a gateway of opportunities for all, as it brings together more than 300 postgraduate students from in and around Pune, as well as IT professionals on a common platform. TechQriosity is an ideal place for exchange of ideas and expertise.

TechQriosity is organized every year by Post Graduate students of the Department of Computer Science. The students co-ordinate and carry out all the tasks related to the event from launching of web site for registration, sending invitations to students from other colleges, getting sponsors, selection of experts to initiating the panel discussion and all other related matters. This year the event was sponsored by Clarice Technologies and was held on 13<sup>th</sup> January 2014. 180 students participated in this event this year.

### 5.12 No. of social initiatives undertaken by the students :

1) Two social initiatives have been undertaken by NSS volunteers viz.

- Many students enrol in the Writer's Club to help out blind students in writing their examinations. This especially matters in Nowrosjee Wadia College as the college has a large number of visually impaired students
- As part of the 81<sup>st</sup> year celebration of the college, writers club and Ruby hall clinic jointly undertook a special drive for spreading awareness about organ donation. Posters were displayed all over the campus. More than 100 students registered themselves at the stall erected in this drive.

2) During the annual event Tech N' Talent, students 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.

In the Department of Computer Science, there was only one major case of a student Mr. Ajit Khedkar in the academic year 2013-14. He had complaints about his internal marks and evaluation during practical examination for different subjects. Appropriate meetings were called by the Head of the Computer Science Department and the college management met the student and the teachers to clarify his doubts. All the records of these activities are available with the department office.



## 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 Wadian 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

It uses Vriddhi software and other software indigenously written and produced by the Department of Computer Science. These two softwares together provide

- Computerized admission process
  - Examination/result process.
- The Softwares make it possible to obtain detailed reports regarding various aspects of students' progress. For example year wise/department wise analysis of students' result is possible.

#### 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, University of Pune in Geology. Dr. R. 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

- Standing Committee, Local Managing Committee and Heads of Departments together monitor the teaching-learning process in the College
- Most teachers prepare Study Notes for the students and some of them upload it on the internet for easy sharing with the students
- Effective teaching is done by adopting several demonstration tools like Powerpoint Presentations, open source software, films etc. for clarifying difficult concepts
- 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.
- The college has established regular contact with renowned Institutes like NCL, CMET, IISER Pune, IITM and IUCCA which the PG students visit regularly for project work. The students are thereby exposed to a high level of research methodology and use of sophisticated instruments and facilities
- 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

### 6.3.3 Examination and Evaluation

- The Senior College Examination Committee looks after all aspects of the Examinations
- The college has appointed a teacher as Chief Examination Officer who is In charge and responsible for all aspects of the Examinations, both Internal as well as University
- Use is made of Examination Module of Vriddhi software approved by the University of Pune
- 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.
- **Credit Grade Based Performance Assessment** and **continuous evaluation** has been introduced by the University for the first time in 2013-14 for PG students. At least five tests are conducted for every course. They may be in the form of surprise test, open-book test, regular tests, home assignments, seminars etc. The students are given a fair chance to earn the 50 marks in Internals as part of continuous evaluation. Our

faculty members have taken pains to evaluate the students in an innovative manner. A credit handbook is issued to every PG student so that each student has a detailed record of his/ her evaluation.

- After every examination the paper setters write **model answers** to the questions before checking the answer sheets. Files of such model answers are maintained in the department and are available for the students to go through in case of doubt
- Many of the teaching Staff Members from the college are involved in Paper setting and Assessment Panels of the University of Pune

#### 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
- 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 English Dept has a Research club for MA 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, Asst. Prof. S. B. Deokar and Asst. Prof. K. Mutalik of the Dept. Of Biotechnology, guided some of their students for Avishkar, a State Level Inter- University Research Project Competition for UG/PG/ Doctoral students. Our students won a prize in this competition

#### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- There is sufficient Provision in the College Budget for purchase of latest books etc. and the stipulated budget is utilised before the end of the financial year. The Library Committee monitors purchase of books, journals, encyclopaedias, e-books and e-journals
- Each department has a separate Purchase Committee which monitors the requirements of their Department, procures and processes quotations and recommends to the Principal to issue Purchase Orders for equipment etc. required by their department
- All our laboratories are well equipped
- **WiFi** facility is provided to PG students in the Electronics laboratory. This helped them a lot in their project work and assignments. Three CROs and three Function Generators were bought for Electronics laboratory. Rearrangement was done in the computer lab to have a separate server room.
- Most of the PG lectures are conducted using Power Point presentations
- Some of the teachers share their Lecture notes with the PG students on the internet

- Some teachers give Assignments to their students by sending a group email to the students
- 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
- Students make temporary websites for online registration of different events
- Different departments encourage students to familiarize themselves with the use of ICT. For instance :
  - a) The Electronics and Computer Science students use circuit simulators to test their designs
  - b) The Electronics students use CAD tools for PCB design (**Electronics**)
  - c) Geography students use GPS instruments for practical experiments on mapping
  - d) Several Free Software are downloaded for the use of staff and students in the Mathematics department. Several other departments also follow this practice. Some of the open source software used in teaching which allow the students to do experimentation free of cost on their own are SCILAB, PSPICE, PHINIX, TORA, LATEX, BIOEDIT, FASTA, BLAS, PHYLIP
  - e) E-books or research papers are downloaded from the internet and made available to the PG students
  - f) Exercises are given in the form of collecting information about a particular subject from internet. This makes the students more aware and enable them to update their core knowledge on many details regarding the concerned subject
  - g) The Biotechnology department uses animations in their Power Point presentations to explain difficult concepts
- Several departments show Films of academic interest to the students
- Lecture and Seminar competitions for students are arranged by many departments and students are encouraged to use ICT tools for them.
- Non Teaching staff is given training in the use of computer software for office automation.

#### 6.3.6 Human Resource Management

- Since the Modern Education Society is a Teacher Managed Society, the Staff can openly express their views, put forth their difficulties and get their problems resolved soon in the frequent sessions 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.
- 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 completion of the portion, whether he/she needs to conduct extra lectures, concerns related to students, etc.
- Heads encourage and depute faculty for participating in different seminars, conferences and workshops.
- Discussions of assignments and laboratory experiments take place in each department at the beginning of each term
- Sharing of good Power Point presentations and notes takes place between staff members

- When new faculty members join a department, the senior staff members discuss assignments, laboratory experiments, explanations with them and ensure that students get correct and sufficient guidance regarding newly introduced concepts and technologies in the syllabus. Similarly the Power Point presentations for different subjects prepared by senior staff members are circulated amongst other staff members to ensure knowledge transfer.
- Coordinators for- 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 ensure smooth functioning of the college
- 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.

#### 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

- Placement Cell/ Placement Officer in various Departments conduct appropriate training/ placement activity and training sessions for students in various industry-related activities
- Some of the departments have formal MOUs with Industry for collaboration
- Some Departments have Industrial training as part of the course work and students are placed in Industries for a short duration of upto one semester.
- Students are taken on excursions to various Industries for industrial interaction and exposure.
- Industry professionals are included as judges for different competitions Industry experts are invited for guest lectures, seminars, workshops etc. This year experts from Symantec, Clarice, Harbinger, Lumos Software were invited to deliver seminars and participate in Panel discussion. Industries sponsor academic Events. For instance, TechQriosity was sponsored by Clarice Technologies.
- Interaction is carried out with industries such as Avon, Saj etc.

#### 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. This year **OMR** technique was used to check the papers and merit list was put up within 3 days.

#### 6.4 Welfare schemes for :

##### Teaching & Non Teaching Staff :

- Group Insurance Scheme is available for staff
- 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. 8,00,000/- @ 11% interest
 The Employees can also invest money in the Society in Fixed Deposits/ Recurring Deposits and get better returns than other non equity financial products in the market
- Free of charge Gymnasium is made available for Staff
- Free of charge Dispensary on the campus is made available for Staff
- Various psychological tests were administered to the staff of the college to help them develop self awareness and gain a better understanding of their strengths and weaknesses with suggestions to overcome them
- The non teaching staff working in various Laboratories are given adequate training in Laboratory And Equipment Maintenance to ensure safety of one and all concerned.

##### Students:

- The college runs the Earn and Learn scheme funded by the University for socially and economically backward class students. This year 44 students benefited from the scheme and Rs.2,07,500/- 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.
  - a) Software for blind students was purchased and installed in the Computer Centre. This software converts written text into audio that helps in their academic development
  - b) The Louis Braille Writers Club which is functioning in the college for the last 5 years continued to help visually impaired 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.
  - c) In a program organized on 18 September 2013, the writers of the Louis Braille Writers Club were felicitated by giving certificates at the hands of

Mrs. Meera Badve, Director “Nivant Andha Mukta Vikasalaya”, and Dr. Dhananjay Bhole. Both the guests inspired and motivated the blind students through their speech. A counselling session was organized as part of the same event in which the blind students were briefed about the special facilities available for them in the college.

- d) World Blind day was celebrated on 10<sup>th</sup> October 2013. Eye donation Posters were displayed all over the campus. Professor Ram from TIT institute was invited to give a talk on new avenues in careers for blind students.
- e) As part of the 81<sup>st</sup> year celebration of the college, Writers Club and Ruby Hall clinic jointly undertook a special drive for spreading awareness about organ donation. Posters were displayed all over the campus. More than 100 students registered themselves at the stall erected in this drive.
- The college helped socially and economically backward students for getting various scholarships.
- Five students of the college were trained by the NGO *Parivartan* for voters’ registration who in turn undertook a massive voter’s registration drive on the campus for new voters. The teaching and non-teaching staff and students of our college signed an undertaking that they would cast their valuable votes in the ensuing Lok Sabha elections.
- Free of charge Gymnasium is made available for students
- Free of charge Dispensary on the campus is made available for students

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) has 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 declares results within 30 days? N. A.

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 atleast twice a year viz. on 21<sup>st</sup> July, the College Foundation Day and on 15<sup>th</sup> February, the Society Foundation Day.
- Keeping up with the current trends and technology, Wadians connect through the internet via the Alumni Page on Facebook.
- Alumni counsel the current students and provide placement information through talks.
- 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.
- Tree plantation programmes are carried out on the campus with special emphasis on Neem Tree Plantation periodically.
- Participation in Blood Donation Camps in association with NSS/NCC.
- Organizes and sponsors inter-collegiate cricket, inter district ball badminton, hand ball games.
- Give talks at the NSS Camps.
- Alumni meets of the Departments of Geology (Petroleum Technology), Computer Science and Physical Education take place on a department basis annually.
- Some prominent sportspersons who are alumni provide coaching in sports to the students.
- Provide feedback to start different courses depending on the need and demand of the Society and Industry
- A week long lecture series called Gurukul India was organized on the occasion of the 81<sup>st</sup> year celebrations by Wadians' Alumni Association.
- Inter collegiate Cricket tournament was organised by Wadians' Alumni Association.

6.12 Activities and support from the Parent – Teacher Association

PTA meetings are often held. At such meetings parents give verbal feedback on issues related to various college activities including academic, curricular and co-curricular activities. This leads to subsequent corrective measures being taken to rectify lacunae if any.

6.13 Development programmes for support staff

- The college actively encourages the non teaching support staff to enhance their educational qualifications. Concession in fees is offered as an incentive to them for the above.
- Non Teaching staff is given training in the use of computer software for office automation.
- Further the college encourages the clerical staff to appear for the MSCIT examination. They are also encouraged to go in for Spoken English and Business English courses which are held at the Centre for English and Foreign Languages in the Sister Institution – Ness Wadia College of Commerce.



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

- The campus is very green and beautiful. Periodically tree plantation is carried out to increase the green cover even further.
- Rain Water Harvesting has been done on campus and except for drinking water which comes from the Corporation, it takes care of the water needs of all colleges 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
- Solar water heaters have been installed on the hostel units. There is also a Heat Exchange System in place for the days when the solar water heaters are inadequate
- Solar panels have been installed for lighting the roads in the campus
- Lectures are arranged for students as well as staff to increase awareness regarding the Environment

## **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.

- Introduction of Credit Based System for PG
- Prepared credit Handbook for the students for the newly-introduced Credit System.
- Introduction of Home Assignments, Seminars and Open Book Examinations for the PG students
- Pre-reading activity for Post-Graduate students with pre-test in every session
- Feedback from students
- Mentoring Programme for students
- Hobby projects to develop interest amongst the students in their chosen subjects
- Encouraging discussion mode of study to clarify concepts better
- Introduction of OPAC(Online Public Access Catalogue) for students in the Library

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

Periodic meetings of IQAC have taken place with the staff and appropriate corrective action has been taken at appropriate time.

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 crossed 1 lakh this year. Students from 3526 schools in Maharashtra, Goa and Karnataka appeared for the MTS Examination at 688 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 June 15<sup>th</sup> 2013, the prizes for the previous year were given. Rs. 22.5 Lakh were awarded as prizes to 9961 students. Prizes for the current years MTS Examination will be given in the next academic year.
- The college attracts a large number of visually impaired students. The Louis Braille Writers Club which is functioning in the college for the last 5 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

- In conjunction with the other Institutions on Campus, compost pits have been constructed behind the College ground for waste recycling etc.
- The college has been implementing an elaborate rain water harvesting project for some years now. The project involves all five institutions on the campus as a result of which the water level in the campus has registered a significant growth. Due to this, barring drinking water requirements, this project has taken care of all the campus water requirements. It has become a permanent source of water for all the institutions on the campus.
- Artificial Bird Nests have been put up on several trees on the Campus so as to increase the Bird population
- 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.
- Tree plantations were carried out on several occasions during the year
- 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.
- A lecture on 'Use and Conservation of Electricity in Rural Areas' was delivered in the NSS camp

#### 1.5 Whether environmental audit was conducted?

No.

#### 7.6 Any other relevant information the institution wishes to add.

- Important bodies like the Anti-Ragging Committee and the Students' Grievance Cell are in place
- The earlier Cell for Harassment and Atrocities against Women was replaced by an 'Internal Complaints Committee for Sexual Harassment at work place' in March 2014. Dr. Mrs. Veena

- Rambal, Head, Department of Zoology is Presiding Officer and Dr. Tejaswini Malegaonkar, Asst. Prof. ILS Law College, Pune is the Third Party Representative, besides other members.
- Mentoring programmes are conducted. Every faculty member interacts closely with a few students throughout the year mentoring them.
  - The Electro Acoustics Research Laboratory was setup in the Department of Physics by Late Dr. H. V. Modak, Reader in the Department of Physics as early as 1971. 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. 4 persons have obtained their Ph. D. degrees and 3 their M. Phil degrees from this Laboratory. The degrees were awarded by the University of Pune. 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.
  - Dr. S. C. Shirwaikar is Member of Board of Studies in Computer Science, University of Pune. Dr. U. D. Kulkarni is Member of Board of Studies in Geology, University of Pune. Dr. R. R. Sakhare is Member of Board of Studies in Library and Information Science, University of Pune.
  - Department of Computer Science, received a certificate from Spoken Tutorial project, National Mission on Education through ICT, MHRD, Govt. of India , in deep appreciation for the outstanding contribution rendered to spread Free and Open Source Software in the state of Maharashtra for the academic year 2013-14
  - A certificate of appreciation was conferred on Dr. S. C. Shirwaikar , Head Department of Computer Science, by ARK technosolutions and NRC-India, for selfless dedication and support to spread Robotics Education in India by organizing Robotics Zonal round of National Robotics Championship 2013-14.
  - Dr. S. C. Shirwaikar gave an invited Talk on “ Art and Science of Programming” as part of Turing Talk Series Session on March 22 on “1972 Turing Award recipient Edsger Wybe Dijkstra” organized by Persistent Systems Ltd.
  - Some of the faculty members from the Computer Science department are engaged in preparing lab books used by all computer Science (UG) students of University of Pune.
  - Most of the Faculty from the college have been appointed by Pune University as paper setters, moderators and examiners.
  - Many Faculty members have worked as 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
  - A one week period is earmarked where all departments have their department fests either Intra or Inter Collegiate. The college is abuzz with quizzes and competitions of all sorts.
  - There is a Post Office on the campus and Banking Facility is also available within the campus
  - Post office within the campus
  - The college has well equipped research laboratories for Atmospheric Physics, electro Acoustics, Nuclear Physics, Organic Chemistry, Geology, Bio Technology, Nano Technology, Botany, Zoology etc.
  - The college boasts of a very big library with over one lakh books. A huge reading room and separate reading cubicles for staff.
  - Doctor is available in the dispensary on the campus and students and staff may avail of this facility free of cost.
  - Debating Society : The following are the activities conducted by the College Debating Society : 1) Elocution Competition : An Elocution Competition was conducted in the college on Monday on 30th Sept. 2013 in which 21 students of Junior, Senior and PG classes participated. 2) An Extempore Speech Competition was conducted in the college on 8th Jan

2014. 3) The college conducted the prestigious Annual Inter collegiate H. H. The Raja of Sangli's Gokhale Cup Elocution Competition on 24th Jan 2014. The topic for the debate was 'Social Media Enable the Understanding of Major Issues'. 26 students of various colleges participated in the competition. The competition is hosted by the college annually since 1937. 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. This competition 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. Shri Rahul Chandawarkar, resident editor, Pune Sakal Times; Dr. R. K. Madhavi Reddy, Head, Dept of Communication studies, University of Pune, and Dr. Geetha Suryanarayan, Consultant Psychotherapist were the judges.

- 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.
- The Arts Circle 'Nirmiti' of the College conducted the following activities :  
The 81st year of the college saw 2 major events organized by the Arts Circle Nirmiti. In the first semester, a 2 day cultural event 'Horizon 13' was organised by the Art Circle and Foreign Student Forum jointly. On the first day of the event, foreign students through their dances exhibited their talent in the cultural programme 'Colours of Asia'. On the second day of the event, the programme ended with a fashion show 'Ethnic India' in which students were dressed in costumes of their states. On this occasion Prof. Y. Mane, guided the students on FSCC helpline and how it would help foreign students after their arrival in Pune. The second semester was full of colours of 'NOWROS 14', the mega cultural event during the second week of January. The musical 'Flash Mob' performed by students on the campus heralded the beginning of NOWROS 14 - the youth fest. The students jostled with each other to participate in fun games such as Treasure Hunt, Jugaad, Poster Faadke and Mad Ads. The highlight was the cultural programme organised exclusively for Arts and Science students. The performances ranged from a stand up on prevention of atrocities on women to a colourful Mauritian dance. In the evening the science social started with the skit on de-addiction.  
Our students participated in a fashion show, solo singing, solo dance at Sinhagad Karandak organised by the Sinhagad group of colleges. The fashion show received a standing ovation for their theme of the seven deadly sins.  
Our teams also participated in the youth festival organised by SSPMS. The student cultural secretary Ms.Ullekha Shetty and Mr.Roshan Shetty represented Nowrosjee Wadia College at the National Institute of Event Management and won the best Event Manager prize of the year.
- 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.
- 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.

- Training and coaching is provided to our 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. Sports persons are provided with all facilities by the college to participate in Intercollegiate/ University Competitions. The college has a cricket ground, cricket practice nets, 2 basketball courts, volley ball court and a well established gymnasium.
- Ashish Hirve of T.Y.B.Sc. Comp.Sc. secured First rank in Quiz competition conducted by **Interdisciplinary school of Scientific computing, Pune.**
- AnkitTelang T.Y.B.Sc. Comp.Sc. and Ashish BansodeT.Y.B.Sc. Comp.Sc. secured First rank in Electronics project competition conducted by **St. Mira's College for Girls, Pune.**
- Sayali Dhole and AparnaJaikumar of T.Y.B.Sc. Comp.Sc. secured First Rank in paper presentation competition conducted by **St. Mira's College for Girls, Pune.**
- Ankit Telang T.Y.B.Sc. Comp. Sc. secured Second prize in paper presentation competition conducted by **St. Mira's College for Girls, Pune.**
- Maitreyee Bhambure T.Y.B.Sc. Comp.Sc. secured second prize in **poster making** competition topic **social networking** conducted by **St. Mira's College for Girls, Pune.**
- Abhishek Prabhakar S.Y.B.Sc. comp.sc. secured First rank in **Rubix Cubix** event conducted by **Interdisciplinary school of Scientific computing, Pune.**
- Dinesh Hippargi of T.Y.B.Sc. Comp.Sc. secured First rank in '**C**' **programming** competition conducted by **Gyenba Sopanrao Moze College, Pune.**
- IIT Powai and ARK techno solutions had carried out "ROBOTICS WORKSHOP 2013" and **zonal rounds for ROBOTICS championship.** The group of S. Y. B. Sc students DIGIMinds comprising of Viraj Pawar, Harshan Pardeshi, Tanzeem Raheman, Isha Rajput and Akshay Tambe were the winners of Zonal round and were selected for participation in the final round. The FINAL round was held on 8<sup>th</sup> and 9<sup>th</sup> march in IIT, Powai, wherein around 300+ teams from all over India participated, and our team reached the top ten fetching the third rank.

## SWOC

### **Strengths:**

- Modern Education Society which runs the College is a Teacher Managed Society. Due to this there is a Liberal and free atmosphere for both faculty as well as students to express their views.
- 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 cocurricular and extra- curricular activities
- Students' potential to do research

### **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

**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:**

- Private players in the field
- General decline of interest of students in the basic Sciences and in Humanities
- Quality sustenance.

**7 Plans of institution for next year****a) Infrastructure Development**

- Plan to create a few smart classrooms which can be shared by different departments
- Old computers and their configurations will be upgraded to recent configuration
- Create more wifi hot spots for students and staff

**b) Academics**

- Start Marathi Special at the Final Year BA level as a part of natural growth.
- Geology Department to have an International Conference on 'Deep Sea Exploration'
- Zoology department to organize a National Conference on "Innovative Ideas and Research in Life Science for Sustainable Development"
- Encourage Interdisciplinary Projects and Research.
- National Seminars by the English, Chemistry and Botany departments.
- A one day workshop on Cultural Studies for college professors to be organised by the college along with the Board of Studies in English, UOP
- The Economics Department to start an in house journal where both faculty as well as students will be contributing
- The Zoology Department to give e-books in CD's to M. Sc students

**c) Extra curricular and Co-curricular**

- Computer Science Department to bring out their Wall magazine 'Zaroka' in e-magazine format
- To start a Zooclub in the Zoology Department.
- English Department to Produce and stage the play 'Mahanirvaan' prescribed for MA English Part II
- English Department to organize inter-class One Act Play Competition.

**d) Sports Activities**

- Physical Education Department to organise Pune University Inter Zonal Squash Racket Tournament and Intercollegiate Cricket and Squash Championship

**e) Environment Related**

- Carry out Energy and Environment Audits
- Move Towards more efficient energy utilization in the departments
- Paper-less, eco-friendly inter-departmental communication
- Zoology department to renew census of different bird species in Wadia College campus.

**f) Alumni**

- Registration of Wadians' Association

**g) Social Initiatives and Extension Activities**

- Besides the social initiatives carried out by NSS, the college to take up a few more through tie ups with Rotary Club and similar organisations.

### **Annexure 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 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 & Non Aided)
5. M. Sc. Analytical Chemistry
6. M. Sc. Organic Chemistry
7. M. Sc. Polymer Science
8. M. Sc. Petroleum Technology
9. M. Sc. Physics
10. M. Sc. Electronics
11. M. Sc. Zoology
12. M. Sc. Botany
13. M. A. Geography
14. M. Sc. Geography
15. M. A. Psychology
16. M. A. Economics
17. M. A. English

## **Annexure - III**

### **Under Graduate**

#### **Arts Faculty**

##### **Subjects at Special Level (up to 3<sup>rd</sup> year)**

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

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

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

#### **Science Faculty**

##### **Subjects at Special Level (upto 3<sup>rd</sup> 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):**

- 3 B. Sc. Computer Science
- 4 B. Sc. Biotechnology

#### **B. Sc. Vocational**

1. Electronics Equipment Maintenance
2. Industrial Chemistry

### **Annexure IV**

#### **Certificate Courses**

Four value added courses, of which three are Career oriented Programmes were conducted by the College. The details are as given below:

1. **Android Programming** : The Computer Science Department conducted this programme for the PG students and the staff members. The programme was run by an Industry Expert. There were 50 participants. An evaluation exam comprising of both theory and practical were conducted at the end of the course.
2. **Linux, Perl and Python Programming** :  
The Computer Science Department conducted a free workshop on the use of open source software platforms in collaboration with Spoken Tutorial Project, IIT Bombay. About 60 students attended the self study workshops in Linux, Perl and Python.
3. **Device Driver Programming and Embedded System** :  
A month long certificate course was conducted by the Department of Electronics for Undergraduate and Post Graduate students of Electronics.
4. **MODI Script**: A 10 day certificate course was organised by the History Department and was attended by both Staff as well as students.

### **Annexure V**

#### **Interdisciplinary Courses:**

##### **M. Tech (Industrial Mathematics with Computer Applications)**

This is a 3 year course spread over 6 semesters and is equivalent to M. Sc. Mathematics and M. C. A. The students passing out from this course are eligible for teaching Mathematics as well as Computer Science and are also eligible for placement in the IT industry. These students have a sound knowledge of Programming backed with a firm base of Mathematics which makes them better programmers. The 6<sup>th</sup> Semester is dedicated to Project work where the students take up Industrial Training and Projects in various Industries. Students who are keen on teaching as a career are encouraged to take up research projects.

## Annexure VI

### Innovative Certificate Course:

**Robotics Programme:** An interdisciplinary course was conducted by the Computer Science Department for the students in coordination with ARK Techno Solutions and IIT Powai. There were about 50 participants, who were from different colleges within Pune city. One of the selected Zonal teams won the National competition held at IIT Powai.

## Annexure VII

- **RSC Advances. (Impact factor 2.56). published 16 June 2014** One Dimensional CdS Nanostructures: Heterogeneous Catalyst for Synthesis of Aryl-3,3'-bis(indolyl)methanes, **May 2014**
- **Polymer-Plastics Technology and Engineering 53, 2014, 734–741 (Impact factor 1.48).** Polyindole-ZnO nano Composite: Synthesis, Characterisation and Heterogeneous Catalyst for the 3, 4 Dihydropyrimidinone Synthesis Under Solvent free Condition
- **Journal of Macromolecular Science –Pure & Applied Chemistry, 51, 2014, 435-440 (Impact factor 0.85).** A Novel Enhancement of nano Structure by Organic Acid Dopants in Emulsion Polymerization of Poly (*o*-toluidine).
- **Current Bioactive Compounds, 9, 2013, 263-269. (Impact factor 3.38).** Design, Synthesis and Evaluation of Antibacterial activity of Novel Indazole derivatives.
- **International Journal of Polymeric Materials and Polymeric Biomaterials 63, 2013, 7-10 (Impact factor 1.865).** Study of Biological activity of Conducting Poly (N-ethylaniline) Nanoparticles doped with organic acid.
- **Macromolecular Symposia 327, 2013, 39–44 (Impact factor 0.913).** Conducting Poly(N-propylaniline) nanoparticles useful for the detection of Hydrogen sulfide gas
- **J. of Macromolecular Science, Part A Pure and Applied Chemistry 50, 2013,411-415 (Impact factor 0.85).**Conducting Polyaniline is an Efficient Catalyst for Synthesis of 4-dihydropyrimidin-2(1H)-one derivative Under Solvent-Free Conditions
- Simultaneous determination of olanzapine and fluoxetine in human plasma by LC-MS/MS; Its pharmacokinetic application, *Journal of Pharmaceutical and Biomedical analysis*, Vol. 90, pg. 64 -71, (2014), ISSN : 0731 – 7085, IF : 2.947, S. L. Bonde, R. P. Bhadane, A. Gaikwad, S. R. Gavali, D.U. Katala, A.S. Narendiran
- A simple and sensitive method for determination of metformin and sitagliptin in human plasma using liquid chromatography and tandem mass spectrometry, *International Journal of Pharmacy and Pharmaceutical Sciences*, Vol 5, Suppl. 3, pg.463-470 (2013), ISSN – 0975-1491, IF : 1.59 , S. L. Bonde, R. P. Bhadane, A. Gaikwad, A.S.Narendiran, Srinivas B.
- An LC-MS-MS method for the simultaneous quantification of amoxicillin and clavulanic acid in human plasma and its pharmacokinetic application, *Journal of Pharmacy Research*, Vol. 6, pg.804-812 (2013). ISSN: 2321 – 4988, A. Gaikwad, S. Gavali, Narendiran, D. Katala, S.L. Bonde, R.P. Bhadane.
- Simultaneous determination of dapsone and its major metabolite N-Acetyl dapsone by LC-MS/MS method, *International Journal of Pharmacy and Pharmaceutical Sciences*, Vol 5, Suppl. 3, pg.441-446 (2013) , ISSN – 0975-1491, IF : 1.59 , S. L. Bonde, R. P. Bhadane, A. Gaikwad, A.S.Narendiran, Srinivas B.
- Kinetics of rapid base catalysed iodination of imidazole and 2-methylimidazole by molecular iodine in aqueous medium : pH effect , *International Journal of Chemical Kinetics*, Vol. 45 (6),

- pg.355-362 (2013), ISSN : 1097-4601, IF : 1.619, S.L. Bonde, V.T. Dangat, R. P. Bhadane, V. S. Joshi.
- A Kinetic Assessment of the rapid iodination of pyrrole in aqueous medium by molecular iodine using hydrodynamic voltammetry. , Research Journal of Chemical Sciences, Vol. 4(6), pg. 1-6, (2014), ISSN : 2231-606X, V.T. Borkar, V.T. Dangat, S.L. Bonde, R. P. Bhadane, K. Yadav
  - Nandurkar, International journal of scientific research Vol 2(6), 49, 2013 , ISSN: 2277-8179 Impact factor 1.86
  - Ahire S. V. (2013) Symbiotic response of Pigeon pea (*Cajanuscajan L.*) to Arbuscular Mycorrhizal Fungi and Rhizobium. Research Journal of Agricultural Sciences 4 (3) : 444-445
  - Ahire S. V. (2014) Dual culture of pigeon pea- Rhizobium : Biochemical investigation and Evaluation of Nitrogenase. International Journal of Biotechnology and Biochemistry 10 : 7-11
  - Bhosale K. S., B. P. Shinde, A. S. Limaye and M. R. Gaikwad 2013. The effect of foliar sprays of Gibberellic acid and leaf extract of *Azadirachtaindica* and *Pongamiapinnata* on chlorophyll content and growth parameters of Onion International Journal of multidisciplinary research pp. 76-81 ISSN Number : 2277-9302 (Published)
  - Pravin K. Bhadane, 'Development of microcontroller based analyzer for the detection of chlorine in water,' International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol. 3, Issue 4, pp. 10890- 10897, Year 2014, Impact factor : 1.672, ISSN Number : 2319 – 8753
  - Pravin K. Bhadane and Suchita P. Bhangale, 'Development of microcontroller based two channel colorimeter for the analysis of cobalt in water,' International Journal of Engineering Research & Technology(IJERT), Vol. 3, Issue 4, pp. 564- 569, Year 2014, Impact Factor : 1.76, ESRSA publ, ISSN Number: 2278-0181.
  - Pravin K. Bhadane, Suchita P. Bhangale and Milan S. Hira, 'Development of microcontroller based inexpensive water analyzer: A photoelectric design approach,' International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol. 3, Issue 3, pp. 10591-10599, Year 2014, Impact factor : 1.672. ISSN Number: 2319 – 8753.
  - Pravin K. Bhadane, Suchita P. Bhangale, Ranjana P. Bhadane, 'Development of embedded system based colorimeter for the analysis of nickel: an algorithmic approach,' International Journal of Computer Science Engineering and Information Technology Research(IJCSEITR), Vol. 4, Issue 3, pp.55-64, Year 2014, Impact factor:6.878 ISSN Number: ISSN(P): 2249-6831; ISSN(E): 2249-7943.
  - Pravin K. Bhadane, Suchita P. Bhangale, 'Development of Differential Colorimetric Analyzer for the Measurement of Iron in Water Solution,' International Journal of Engineering Innovative Technology(IJEIT), Vol. 4, no. 10, pp. 304-309, Year 2014, Impact factor: 1.895 , ISSN Number: 2277- 3754
  - Published and Presented: Some Interesting Numbers, Aditi Phadke, Pramod N. Shinde and Vikas Jadhav, at "National conference on Recent trends in computer science, applications and computational mathematics" held at Indira College of Commerce and Science during 20-21 Dec 2013.
  - Somnath Waghmare, Abhishek Buxi, Viren Gomase, Ram Chavan (2013), Homology Modelling of Fatty Acid and Retinoid Binding (FAR) Protein from the filarial nematode *Acanthocheilonema vitae*, Drug Invention Today, ISSN 0925-7619, 6 (1), 58-61.
  - Somnath Waghmare, Abhishek Buxi, Yogesh Nandurkar, Anil Shelke (2014), In Silico Sequence Analysis, Homology modelling and Function Annotation of leishmanolysin from *Leishmaniadonovani*, Manuscript under review to Springer Interdisciplinary, World Journal of Pharmaceutical Research 2013.1(1) 01\_05.
  - Somnath Waghmare, Dinesh Waghmare and P. S. Bhatnagar (2013) Species Diversity of Short Horned Grasshopper (Orthoptera: Acrididae) in Selected Grasslands of Solapur District, Maharashtra, India. J Biodivers Endanger Species ISSN: 2332-2543 JBES an open access journal 1:110.doi:10.4172/jbes.1000110.

- Somnath Waghmare, Abhishek Buxi, Viren Gomase, Ram Chavan (2013) Homology Modeling Of Fatty Acid And Retinoid Binding (Far) Protein From The Filarial Nematode *Acanthocheilonema viteae*. *Drug Invention Today*. ISSN: 0975-7619, 6(1),58-61
- Somnath Waghmare, Pratik Talwad. (2014) Diversity of Amphibians from some selected areas of Solapur district of Maharashtra, India. Manuscript accepted for publication by *Scientific Reports*.
- Somnath Waghmare, Abhishek Buxi, Yogesh Nandurkar, Anil Shelke (2014) In Silico Sequence Analysis, Homology Modeling and Function Annotation of leishmanolysin from *Leishmaniadonovani*. Manuscript Under review to *Springer Interdisciplinary Sciences: Computational Life Sciences*
- Somnath Waghmare, Manjeetsingh Arora, (2014) Computational structural and functional analysis of short neuropeptide F from *Tribolium castaneum*. Manuscript Under review to *Gene Therapy and Molecular Biology*.
- Somnath Waghmare (2014) Phylogenetic Analysis of 18S ribosomal RNA gene, 5.8S ribosomal RNA gene, 28S ribosomal RNA and Internal transcribed spacer region in Different Species of Nematodes Based on Coding Sequences. Manuscript Accepted for Publication by “*International Journal of Parasitology*”.
- Somnath Waghmare, Anil Shelke (2014) Computational mapping of MHC class binding nonamers from Fatty-acid and retinol-binding protein 1 of *Brugiamalayi*. Manuscript Accepted for Publication by “*Journal of Proteomics and Bioinformatics*”.
- Usha Ashtekar, *Trends in Fisheries Research DAMA International Peer Reviewed Journal*  
Title of Paper:-Histopathological changes in gills and liver of *Cirrhinus mrigala* fingerlings exposed to Barium chloride Vol. 2. Issue 3(2013) ISSN: 2319-474X :2319- 4758(e)
- Evolution of structural and optical properties of rutile TiO<sub>2</sub> thin films synthesized at room temperature by chemical bath deposition method, A.H. Mayabadi, V.S. Waman, M.M. Kamble, S.S. Ghosh, B.B. Gabhale, S.R. Rondiya, A.V. Rokade, S.S. Khadtare, V.G. Sathe, H.M. Pathan, S.W. Gosavi, S.R. Jadkar; *Journal of Physics and Chemistry of Solids* 75 (2014) 182-187 (IF-1.53)
- Evolution of microstructure and opto-electrical properties in boron doped nc-Si:H films deposited by HW-CVD method, V.S. Waman, M.M. Kamble, S. S. Ghosh, A.H. Mayabadi, B.B. Gabhale, S.R. Rondiya, A.V. Rokade, S.S. Khadtare, V.G. Sathe, H.M. Pathan, S.W. Gosavi, S.R. Jadkar; *Journal of Alloys and Compounds* 585 (2014) 523–528 (IF-2.39)
- Hydrogenated Silicon Carbide Thin Films Prepared with High Deposition Rate by Hot Wire Chemical Vapor Deposition Method, M. M. Kamble, V. S. Waman, A. H. Mayabadi, S. S. Ghosh, B. B. Gabhale, S. R. Rondiya, A. V. Rokade, S. S. Khadtare, V. G. Sathe, T. Shripathi, H. M. Pathan, S. W. Gosavi, and S. R. Jadkar; *Journal of Coatings* Volume 2014, Article ID 905903, 11 pages(IF-0.5)
- “Surface Studies on Benzophenone doped PDMS Microstructures Fabricated using KrF Excimer Laser Direct Write Lithography” Madhushree Bute, Shashikant Shinde, K. R. Patil, K. P. Adhi, S. W. Gosavi *Applied Surface Science* (ACCEPTED) I.F. = 2.114 (in the year 2014)
- Forensic parameter measurements in Buffalo milk by attenuation coefficient using gamma ray energy. *Res. J. Physical Sci.*, Vol 1(5), 1-6 June (2013) ISSN 2320-4796.
- Study of attenuation coefficient of wet and dry wood of (*Jambul Syzygium cumini*) at different gamma ray energies. *J. Chem. Bio Phy. Sci. Sec. C*, May-July 2013, Vol 3(3), 2074-2079, e-ISSN : 2249 – 1929
- 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.
- Analysis of adulteration in milk samples by attenuation coefficient using 840 ke V gamma ray energy. *J. Advances in Applied Science Research* (Pelagia Research Library), 2013, 4(4) 102-107.

- Sanjay More, P. Pradeep Kumar, Pawan Gupta, P. C. S. Devara and G. R. Aher, 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
- G. R. Aher, G. V. Pawar, Pawan Gupta, P. C. S. Devara, Effect of major dust storm on optical, physical and radioactive properties of aerosols over coastal and urban environments in Western India, *International Journal of Remote Sensing*, 35(3), 871-903.
- S. Phadke, C. Ballal, A. Vaidya, S. S. Warule and S. B. Ogale, Quantum dot CdS coupled Cd<sub>2</sub>SnO<sub>4</sub> photo anode with high photo electrochemical water splitting efficiency, *J. Materials Chemistry A*, 2013, 1, 12426. [I. F. 6.101]
- N. S. Chaudhari, S. S. Warule, B. B. Kale, Self Assembled ZnInS<sub>4</sub> rose and hollow marigold flower like nanostructures for solar hydrogen production, *RSC Advances*, 2014, 4, 12182 [I. F. 2.562]
- S. R. Suryawanshi, S. S. Warule, S. S. Patil, K. R. Patil, M. A. More, Vapour Liquid solid growth of one dimensional tin sulphide (SnS) nanostructures with promising field emission behaviour, *ACS Appl. Mater. Inter.*, 2014, 6, 2018-2025 [I. F. 5.008]
- J. S. Aniruddha, Mahatma Phule, GopalbabaValankar and Untouchability Movement, *Indian Stream Research Journal*, ISSN No. 2230-7850 [I. F. 1.7604]
- C. Tagad, R. Dhekane, S. Sathe, R. C. Aiyer, P. More, S. Sabharwal and Varsha Singh, Humidity Sensor using AgNP-LBG nanocomposite, *Proceedings of the 18<sup>th</sup> National Seminar on Physics and Technology of sensors at T. C. College, Baramati, Maharashtra, 6<sup>th</sup> – 8<sup>th</sup> March 2014*, pp : 43-44.
- C. Tagad, R. Dhekane, S. Sathe, R. C. Aiyer, P. More, S. Sabharwal and Varsha Singh, Polysaccharide stabilized Silver nanoparticles based Hg<sup>2+</sup> selective sensor, *Proceedings of the 18<sup>th</sup> National Seminar on Physics and Technology of sensors at T. C. College, Baramati, Maharashtra, 6<sup>th</sup> – 8<sup>th</sup> March 2014*, pp : 46-47.
- Dr. S. C. Shirwaikar was co-author of a paper titled “ Comparative study of Approximate equality functions for searching data from data warehouse” that was presented in National Seminar on Gen Next IT & business intelligence, New Delhi , 1<sup>st</sup> to 3<sup>rd</sup> August 2013
- Dr. S. C. Shirwaikar coauthored a paper titled “ Security for Data Warehousing on the Web Server” published in Conference proceedings of National Conference on Preventive Measures to avoid Cyber Crime” with ISBN 978-93-83414-51-2, held on Dec 19-20, 2013

### **Annexure VIII**

#### **University Forum**

##### **NSS**

- a) NSS Special Winter Camp
- b) Blood Donation Camp

##### **NCC**

- c) Blood donation at CATC- 14 Cadets from Army, 4 cadets from Navy
- d) 12 Cadets from Navy Assisted the city Police during Ganesh Festival
- e) 14 Cadets from Army participated in an Anti-Drug rally from Chaturshringi to NCC Gp. HQs.
- f) 14 Cadets participated in tree plantation drive at NCC Gp. HQs.

## **Department of Chemistry**

- g) Workshop for Credit System for Post Graduate teachers organized under University of Pune.

### **College Forum**

- a) Geology Exhibition open to all especially school students.
- b) The Department of Computer Science organized the annual seminar event 'TECHQRIOSITY'
- c) The Mathematics Department organized a Mathematical Treasure Hunt with a view to popularising the subject and to facilitate learning of Mathematics, thereby taking away the inherent fear of the subject.
- d) Organising various events at different levels to create interest in the subject, increase awareness, inculcate a healthy sense of competition amongst the students.
- e) The Physics Department had students coming over from Ruparel College to experiment in our Acoustics as well as other Physics laboratories and to interact with our students and staff.

### **NSS**

- f) Tree Plantation
- g) Street play in campus for awareness among new voters in Jan 2014
- h) More than 50 NSS volunteers helped blind students as writers for university examinations.
- i) Celebration of Birth anniversary of social reformers like Mahatma Gandhi, Savitribai Phule, Swami Vivekanand, Chattrapati Shivaji Maharaj, Mahatma Phule, Dr. Babasaheb Ambedkar etc.
- j) All volunteers attended lectures on Civil Services Examinations organized by Pune Municipal Council.

### **Any other**

#### **Alumni**

- a) '**Gurukul**' was a one week unique mentoring program organized by Wadians' Association for the students of Nowrosjee Wadia College. The prominent speakers on this occasion were Shri Jayant Naiknawre (I. P. S.) Dy. Commissioner of Police, Mr. Mohammed Anjum (I. P. S.) I. G. Jammu Kashmir, Padmashri Shri Milind Kamble, President DICCI, Shri Avinash Dharmadhikari, Shri Harshad Nimbalkar & Mr. Yakub Saeed.

#### **CTSE**

- b) MTS Examination
- c) GEE Examination
- d) YASHADA Examination

#### **Departmental Contributions**

- e) Many teachers have written textbooks based on the curriculum for both UG as well as PG level.
- f) Certificate Courses run by different departments.
- g) The Physical Education Department conducted Winter and Summer Training Programmes for our Sportsmen.
- h) The Department of Chemistry has written curriculum based books for UG and PG.
- i) The Department of Electronics organized an exhibition "Electronic World" of Electronics Projects by the students of Vocational EEM in January 2014.

- j) The Department of Electronics arranged a guest lecture on “Device Driver Programming” delivered by Industrial Experts in August 2013.

**NSS**

- k) Unity Run by NSS volunteers

Dr. Ms. S. A. Boxwala  
IQAC Coordinator

Dr. K. S. Venkataraghavan  
Chairperson, IQAC

\*\*\*