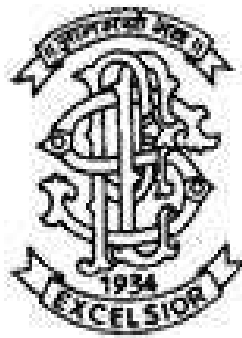


# Supplementary Report

## for 3<sup>rd</sup> Cycle

Submitted to  
National Assessment and Accreditation Council  
(NAAC)  
Bangalore



By  
Progressive Education Society's  
Modern College of Arts, Science and Commerce,  
Ganeshkhind, Pune 411016. Maharashtra

January 2017

## **FOREWORD**

Progressive Education Society's Modern College of Arts, Science and Commerce, Ganeshkhind, Pune- 411016 submitted its Re-Accreditation Report for the third cycle to NAAC Bangalore on 19<sup>th</sup> April 2016. It gives us pleasure to present before you the Supplementary Report of the college.

This report carries information and data about different aspects of the institution recorded Criterion wise and Department wise for the period April 2016 to January 2017. We have also listed out the various activities undertaken by the college during the last nine months. Although we have tried to follow the RAR format for the Supplementary Report, we have taken into consideration only those points where developments/changes/ modifications have taken place in the last nine months.

We identified a few typographical errors in the Re-Accreditation Report submitted to NAAC. We apologize for the same.

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## CRITERION I: CURRICULAR ASPECTS

### 1.1 Curriculum Planning and Implementation

- 1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other Statutory agency.
- Competition: B.Voc. Department of Food Processing Technology celebrates World Food Day in month of October to inculcate ideas regarding Innovative Recipes and Model making. Poster Competition was conducted on the worldwide theme of World Food Day.
- 1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalisation of the curriculum?
- **Workshop with 'Deasara' for Entrepreneurship Development** is conducted by Commerce faculty.
- 1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University? (number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.
- Following are the **BOS members from commerce faculty** : Manjusha Kulkarni, Parag Shah.
- 1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.
- College has identified the fields and designed **curriculum for 30 skill development courses** to enhance student's employability and give an impulse for entrepreneurship.
  - Institution has designed the curriculum for Bachelor of Vocational in Food Processing Technology and Green House Technology. This program is sponsored by UGC under National Skill Qualification Framework (NSQF). First the curriculum was sent with the proposal to UGC and then it was sent to Savitribai Phule Pune University for affiliation. This curriculum is approved by BCUD of Savitribai Phule Pune University. The objective of this course is to fill gap between Industry and Academia and to create entrepreneur and professional for the Food Industry. At the end of every year the skill component examination will be conducted by NSQF for each level.
  - Format of Mark sheet prepared by B.Voc. department is approved and adopted by Savitribai Phule Pune University.

**1.2 Academic Flexibility****1.2.1 Specifying the goals and objectives give details of the certificate/diploma/ skill development courses etc., offered by the institution.**

| <b>Sr. No.</b> | <b>Name of the skill development courses</b> | <b>Aim</b>   | <b>Objectives</b>  | <b>Funding agency</b> |
|----------------|--|--|--|-----------------------|
| 1.             | Basics of Communication                      | To improve communication skills in English                           | Curriculum Enrichment, Employability, Value Addition                                     | Self Financing        |
| 2.             | Marathi D.T.P.                               | To improve Competitive Skill   | Employability, Skills Development  | Self Financing        |
| 3.             | Skills in Psycho Social Counselling.         | Student Progression, Value Addition.                                 | Curriculum Enrichment, Employability, Value Addition                                     | Self Financing        |
| 4.             | Social Services and Welfare                  | Student Progression, Value Addition.                                 | Curriculum Enrichment, Employability, Value Addition                                     | Self Financing        |
| 5.             | Diversity and Public Policy                  | Student Progression, Value Addition.                                 | Curriculum Enrichment, Employability, Value Addition                                     | Self Financing        |
| 6              | Blogging and CMS                             | Awareness in Content writing, blogging, website.                     | Curriculum Enrichment, Employability, Value Addition                                     | Self Financing        |
| 7.             | Travel and Tourism                           | To improve the knowledge of Geography and Tourism                    | Employability  | Self Financing        |
| 8.             | Finishing School                             | To improve the knowledge of Soft Skills                              | Personality development<br>Global competency<br>Employability skills                     | Self Financing        |
| 9.             | Transformation Course                        | Women Empowerment  | Personality development<br>Global competency<br>Employability skills<br>Health awareness | Self Financing        |
| 10.            | Tally ERP                                    | Knowledge of Tally and ERP   | Global competency<br>Employability skills  | Self Financing        |
| 11.            | E- Filing and Income Tax Return              | Knowledge of E- Filing and filling of Income Tax Return              | Curriculum Enrichment, Employability   | Self Financing        |
| 12.            | Entrepreneurship Development Programme       | Awareness in support Systems to start the career in Entrepreneurship | To make the Entrepreneurs  | Self Financing        |
| 13.            | Making Bakery Products                       | Knowledge of Bakery and food products and its production             | Employability skills and Entrepreneurial Skills.   | Self Financing        |
| 14.            | Web Designing Development and hoisting       | Knowledge of Web Designing Development                               | Curriculum Enrichment, Employability skills and Entrepreneurial Skills.                  | Self Financing        |
| 15.            | Computer Networks                            | Knowledge of Computer  | Curriculum Enrichment, Employability skills.   | Self Financing        |

|     |  |   |  |                |
|-----|--|---|--|----------------|
|     |  | Networks  |  |                |
| 16. | Applied Zoology and Biobusiness                              | Knowledge of Applied Zoology and Biobusiness                                  | Curriculum Enrichment, Employability skills, Entrepreneurial Skills. | Self Financing |
| 17. | Solar PV System Installation and Maintenance                 | Knowledge of Solar PV System Installation and Maintenance                     | Curriculum Enrichment, Employability skills, Entrepreneurial Skills. | Self Financing |
| 18. | Repairing and Maintenance of Electrical Home Appliances      | To know the Skills of Repairing and Maintenance of Electrical Home Appliances | Employability skills, Entrepreneurial Skills.                        | Self Financing |
| 19. | Repairing and Maintenance of Mobile Cell.                    | To know the Skills of Repairing and Maintenance of Mobile Cell                | Employability skills, Entrepreneurial Skills.                        | Self Financing |
| 20. | Quality Control in Laboratories and Industries               | Knowledge of Quality Control in Laboratories and Industries                   | Employability skills, Entrepreneurial Skills.                        | Self Financing |
| 21. | Mathematical Modelling in Life Sciences                      | Knowledge of Modelling in Life Sciences                                       | Curriculum Enrichment, Employability skills                          | Self Financing |
| 22. | Use of Scilab Software                                       | Awareness of Scilab Software  | Curriculum Enrichment, Employability skills,                         | Self Financing |
| 23. | C-Programming  | Curriculum Enrichment   | Employability skills,  | Self Financing |
| 24. | Vedic Mathematics  | Awareness of Vedic Mathematics  | Curriculum Enrichment, Employability skills,                         | Self Financing |
| 25. | Recent Trends in Biological Techniques                       | Curriculum Enrichment, to know the recent trends in Biological Techniques     | Curriculum Enrichment, Employability skills                          | Self Financing |
| 26. | Archaeology and Organic Evolution                            | To know the Knowledge of Archaeology and Organic Evolution                    | Curriculum Enrichment, Employability skills, better career option    | Self Financing |
| 27. | Diversity and Taxonomy with special reference to Entomofauna | To know the insects Diversity and Taxonomy                                    | Curriculum Enrichment, better career option.                         | Self Financing |
| 28. | Research methodology and Scientific Communication Skills     | To develop Research Environment   | To make Researchers, Curriculum Enrichment, better career option.    | Self Financing |
| 29. | Natural Products Biotechnology                               | Curriculum Enrichment   | Better career option.  | Self Financing |
| 30. | Printed Circuits Board Designing and Manufacturing           | Curriculum Enrichment   | Better career option, Employability skills.                          | Self Financing |

College has initiated some of the courses: Applied Zoology and Biobusiness, Diversity and Taxonomy with special reference to Entomofauna, Natural Products Biotechnology, C Programming, Vedic Mathematics, Repairing and Maintenance of Electrical and home Appliances and Mathematical Modeling in Life Sciences.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- Range of Core / Elective options offered by the University and those opted by the college
- Choice Based Credit System and range of subject options
- Courses offered in modular form
- Credit transfer and accumulation facility
- Lateral and vertical mobility within and across programmes and courses
- Enrichment courses

B.C.A under Science faculty is been introduced by the college from academic year 2016-17 where choice based credit system is introduced.

1.2.4 Does the institution offer self-financed programmes? If 'yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

- B.C.A under Science faculty introduced by college from academic year 2016-17 is the self financed programme.

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If 'yes' provide details of such programme and the beneficiaries.

- 30 Skill oriented programmes like Basics of business communication, Marathi D.T.P., Skills in social Counselling, Social services and welfare, Diversity Inequality and Public Policy, Blogging and CMS were designed and offered.

### 1.3 Curriculum Enrichment

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

- Biotechnology department has conducted **Research induction programme** for the M.Sc. students of Biotechnology, Microbiology and Zoology departments. Soft skill programmes organised by Barclays and Mahindra companies as a part of their CSR. More than 100 students underwent training programme of industry required skills.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

- College applied for **Energy Conservation Award from Maharashtra Energy Development Agency (MEDA)**, and won the 1st prize in corporate sector.
- Gender champion activity is initiated from this academic year.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

- **Moral and ethical values** : Soft Skill, Social Services and Welfare, Skills in Psycho Social Counselling.
- **Employable and life skills** : Soft Skill, Spoken English, Office Automation, Health and Beauty Grooming, Skills in Psycho Social Counselling, Blogging and CMS, Finishing School, Transformation Course, Entrepreneurship Development Programme, Making Bakery Products, Web Designing Development and hoisting, Computer Networks, Solar PV System Installation and Maintenance, Repairing and Maintenance of Electrical Home Appliances, Repairing and Maintenance of Mobile Cell, Quality Control in Laboratories and Industries, Mathematical Modelling in Life Sciences, C-Programming, Vedic Mathematics, Recent Trends in Biological Techniques, Archaeology and Organic Evolution, Diversity and Taxonomy with special reference to Entomofauna, Research methodology and Scientific Communication Skills, Natural Products Biotechnology, Printed Circuits Board Designing and Manufacturing.
- **Better career options** : B.Voc., Embedded Systems, Applied techniques in industry and laboratory, Hands on Training (With Vidya Sahakari Bank), Basics of Communication, Marathi D.T.P. Blogging and CMS, Travel and Tourism, Tally ERP, E- Filing and Income Tax Return, Making Bakery Products, Web Designing Development and hoisting, Computer Networks, Applied Zoology and Biobusiness, Solar PV System Installation and Maintenance, Quality Control in Laboratories and Industries, Mathematical Modeling in Life Sciences, Use of Scilab Software, C-Programming, Research methodology and Scientific Communication Skills, Recent Trends in Biological Techniques, Archaeology and Organic Evolution, Diversity and Taxonomy with special reference to Entomofauna, Natural Products Biotechnology, Printed Circuits Board Designing and Manufacturing.
- **Community orientation** : '*Modi*' Script, B.Sc. vocational courses under UGC-Green House Technology and Food Technology, Social Services and Welfare, Diversity and Public, Vedic Mathematics Policy, Transformation Course, Entrepreneurship Development Programme, Solar PV System Installation and Maintenance, Archaeology and Organic Evolution.

#### 1.4 Feedback System

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on curriculum? If yes, how is it communicated to the University and made use internally for curriculum enrichment and introducing changes or new programmes?

- Recently college has introduced online feedback system.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?

Any other relevant information regarding curricular aspects which the college would like to include.

- Institution has introduced B.C.A. Science programme in academic year 2016-17.
- Rationale behind introducing this course is global demand and good career prospects.



## CRITERION II : TEACHING-LEARNING AND EVALUATION

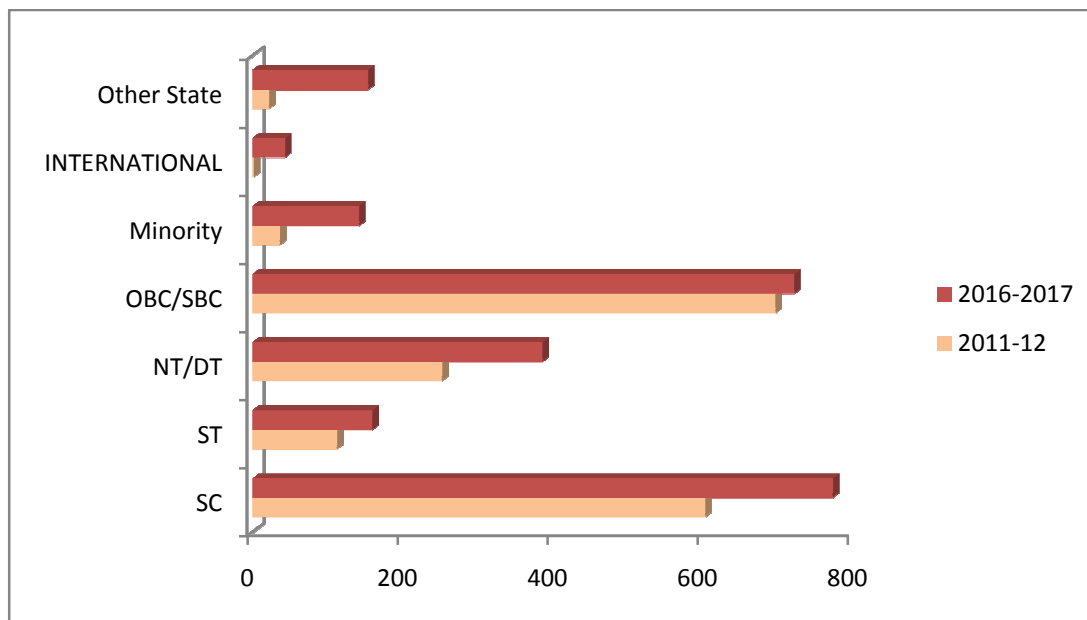
### 2.1 Student Enrollment and Profile

- 2.1.2 Explain in detail the criteria adopted and process of admission to various programmes of the Institution.
- The admissions to the BCA (Science) course were given on first come first serve basis.
- 2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university with in the city/district.

| Name of the Programme       | Minimum percentage of marks | Maximum percentage of marks |
|-----------------------------|-----------------------------|-----------------------------|
| F.Y.B.Sc.                   | 39.69                       | 88                          |
| F.Y.B.Sc.(Computer Science) | 41.54                       | 84.70                       |
| F.Y.B.Sc.(Biotechnology)    | 42.31                       | 88.10                       |
| F.Y.B.A.                    | 37                          | 83.85                       |
| F.Y.B.Com.                  | 39.38                       | 85.60                       |
| F.Y.B.Voc                   | 43.64                       | 75.08                       |
| M.Sc(Chem)                  | 46.44                       | 83.26                       |
| M.Sc(Micro)                 | 56.83                       | 88.50                       |
| M.Sc(Zoology)               | 58.68                       | 91.66                       |
| M.Sc(Biotech)               | 51.25                       | 87.50                       |
| M.Sc(Computer Science)      | 48.00                       | 79.33                       |
| MA(Economics)               | 48.00                       | 83.80                       |
| MA(History)                 | 37.63                       | 83.83                       |
| MA(Sociology)               | 41.64                       | 75.00                       |
| BBA(CA)                     | 40.16                       | 78.15                       |
| BCA(Science)                | 41.38                       | 84.15                       |

- 2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If 'yes' what is the outcome of such an effort and how has it contributed to the improvement of the process?

Category wise student strength comparison for the years 2011-12 and 2016-17



- 2.1.5 Reflecting on the strategies adopted to increase/ improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/ reflect the National commitment to diversity and inclusion

| Category          | 2016-2017 |
|-------------------|-----------|
| SC                | 759       |
| ST                | 157       |
| Women             | 2382      |
| NTB               | 85        |
| NTC               | 141       |
| NTD               | 58        |
| DTA               | 102       |
| OBC               | 656       |
| SBC               | 52        |
| Minority          | 142       |
| Differently Abled | 4         |
| Foreign Students  | 50        |
| Other State       | 151       |

- 2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends i.e. reasons for increase/decrease and actions initiated for improvement.

| <b>Programme</b> |  | <b>2016-17</b> |
|------------------|--|----------------|
| B.A.             | Number of applications                   | 409            |
|                  | Number of students admitted              | 376            |
|                  | Demand Ratio (applications : admissions) | 1.08:1         |
| B.Com.           | Number of applications                   | 680            |
|                  | Number of students admitted              | 656            |
|                  | Demand Ratio                             | 1.03:1         |
| B.Sc.            | Number of applications                   | 676            |
|                  | Number of students admitted              | 594            |
|                  | Demand Ratio                             | 1.13:1         |
| M.A.             | Number of applications                   | 98             |
|                  | Number of students admitted              | 98             |
|                  | Demand Ratio                             | 1:1            |
| M.Com            | Number of applications                   | 105            |
|                  | Number of students admitted              | 101            |
|                  | Demand Ratio                             | 1.03:1         |
| M.Sc.            | Number of applications                   | 213            |
|                  | Number of students admitted              | 183            |
|                  | Demand Ratio                             | 1.16:1         |
| B.Voc            | Number of applications                   | 102            |
|                  | Number of students admitted              | 50             |
|                  | Demand Ratio                             | 2.04:1         |
| BBA(CA)          | Number of applications                   | 128            |
|                  | Number of students admitted              | 122            |
|                  | Demand Ratio                             | 1.04:1         |
| BCA(Science)     | Number of applications                   | 27             |
|                  | Number of students admitted              | 27             |
|                  | Demand Ratio                             | 1:1            |

## 2.2 Catering to Student Diversity

- 2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge /Remedial/ Add-on/ Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

Following departments have conducted bridge courses.

| <b>Sr. No.</b> | <b>Name of the Department</b> | <b>Class</b>                          |
|----------------|-------------------------------|---------------------------------------|
| 1              | Microbiology                  | M.Sc II                               |
| 2              | Mathematics                   | F.Y.Bsc (Biotech)                     |
| 3              | Chemistry                     | S.Y .Bsc, F.Y.Bsc                     |
| 4              | Psychology                    | International and North East students |

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

Many activities are conducted in this regard.

**Gender Sensitization:**

- Gender Champions Club and department of Psychology organized a debate conducted on the topic “Gender Equality has already been established in India”. Dr Manasi Palshekar, author, Activist and Gender studies expert was invited to debate .
- Vidyarthini Munch has organised on “Anti Sexual Harassment”.
- Workshop on Self- confidence was organised by Disha coordinators for Marathi medium girls.
- College has conducted gender audit.

**Environment:**

- College has received First Prize in Eleventh State Level energy conservation award given by MEDHA( Maharashtra Energy Development Agency
- Tree plantation by the college staff
- Faculty members and students participated in Traffic Awareness Mission(Human Chain)
- Electronics department signed MOU with MUDRA for e-waste collection.
- Department of English signed MOU with an NGO ‘Keshavsita’ for plastic waste management.

**Health and Hygiene**

- Student conducted a drive in the form of displaying posters and rally in college campus to spread awareness about the prevention of suicide.

2.2.5 How does the institution identify and respond to special educational/ learning needs of advanced learners?

College has identified such students and leading certificate courses like “Vedic mathematics”, “Mathematical Modeling”, “Embedded systems and applications”, “Applied Techniques in industry and laboratories” etc.

**Workshops / Training for students**

| Program Details                            | Class                                    | Department    | Dates                         |
|--|--|---------------|-------------------------------|
| Summer Traing Program                      |  | Biotechnology | 20-25 <sup>th</sup> June2016  |
| Research Induction Program                 | M.Sc (Zoo),<br>Biotech ,<br>Microbiology | Biotechnology | 5To7September 2016            |
| Characterization Techniques                | S.Y.BSc                                  | Microbiology  | 24-26 <sup>th</sup> June 2016 |
| Biochemical techniques and instrumentation | T.Y.B.Sc                                 | Microbiology  | 1-4 <sup>th</sup> July        |
| Goal setting workshop                      |  | Psychology    | 7 <sup>th</sup> Sept 2016     |
| Life skills                                | B.Voc                                    | Psychology    | 23 Sept 2016                  |

|  |                   |                  |                              |
|--|-------------------|------------------|------------------------------|
| Life skills                                | Physics           | Psychology       | 21 Sept 2016                 |
| Summer Training Program                    | F.Y.B.Sc.         | Mathematics      | June 2016                    |
| College to Corporate                       |                   | English          | December 2016                |
| Soft skill workshop                        | UG and PG Com Sci | Computer Science | 26,27 August 2016            |
| Fishry Production and Management           |                   | Economics        | 7 <sup>th</sup> October 2016 |
| Summer Traing Program                      |                   | Chemistry        | 25-28 June 2016              |
| Skill Based course in Analytical Techniues | S.Y.BSc           | Chemistry        | To be done                   |

- 2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

Activities organized during first half of academic year 2016-17: Vividha, Soft Skill Workshop/ trainings, Science exhibition, Hands-on training, Yuva Saptaha.

- 2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them in to life-long learners and innovators?

- B.Voc department celebrates World food day . On this occation various competitions such as innovative product development, model making etc are arranged which inculcates creative thinking in students.
- College has conducted research induction program for PG students
- A guest lecture was arranged on the occasion of Reading Inspiration Day. The topic was “Dr. A.P.J. Abdul Kalam”.
- Department of Psychology has conducted Workshops on Life skills for students.
- Department of English has conducted a workshop on College to corporate.

- 2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning-resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

- Use of Flinnt App for distributing notes.

- 2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

Recognizing that in addition to class room teaching, it is essential that students and faculty get a more hands on perspective on their subject, the following initiatives are taken.

- Guest lectures are organized for students.
- 13 Workshops are organized for students by various departments.

- Mathematics department has conducted a certificate course on Vedic Mathematics and on Mathematical modelling.

2.3.10 Does the institution face any challenges in completing the curriculum within the planned timeframe and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.

- This year BCA (science) course started late, so to complete curriculum extra lectures and practicals.

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

| Highest Qualification | Associate Professor |        | Assistant Professor |        | Total |
|-----------------------|---------------------|--------|---------------------|--------|-------|
|                       | Male                | Female | Male                | Female |       |
| Permanent teachers    |                     |        |                     |        |       |
| Ph.D.                 | 02                  | 05     | 06                  | 22     | 35    |
| M.Phil.               |                     |        | 01                  | 04     | 05    |
| PG/NET/SET            |                     |        | 24                  | 43     | 67    |
| Temporary teachers    |                     |        |                     |        |       |
| Ph.D.                 |                     |        | 00                  | 04     | 04    |
| M.Phil.               |                     |        | 00                  | 00     | 00    |
| PG/NET/SET            |                     |        | 05                  | 21     | 26    |
| Total                 |                     |        |                     |        | 137   |

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

- College has appointed adjunct professors in Biotech and Zoology department.

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

#### Academic Year 2016-17

a) Nomination to staff development programmes

| Name of the Course                             | No |
|--|----|
| Refresher courses                              | 03 |
| HRD programmes                                 | 01 |
| Orientation programmes                         | 01 |
| Staff training conducted by the University     | 01 |
| Staff training conducted by other institutions | 04 |
| Summer/ winter schools, workshops etc.         | -- |

- b) Faculty Training programs organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

#### Teaching Learning methods/approaches

| Program Details  | Level    | Department  | Dates                         |
|--|----------|-------------|-------------------------------|
| National Statistic Day Workshop                          | State    | Statistics  | 29 <sup>th</sup> June 2016    |
| Role of Advance sensors in the development of Smart city | State    | Electronics | 28 Sept 2016                  |
| Learning and learning centered learning                  | District | Psychology  | 21 <sup>st</sup> October 2016 |
| Fishery production and management                        | State    | Economics   | 7 th Oct 2016                 |

- c) Percentage of faculty
- invited as resource persons in Workshops/ Seminars/ Conferences organized by external professional agencies

| Level | International | National | State | College |
|-------|---------------|----------|-------|---------|
| Total | --            | 3        | --    | 2       |

- participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies

| Level | International | National | State | College |
|-------|---------------|----------|-------|---------|
| Total | 3             | 7        | 9     | 7       |

- Presented papers in Workshops/ Seminars/ Conferences conducted or recognized by professional agencies

| Level | International | National | State | College |
|-------|---------------|----------|-------|---------|
| Total | 08            | 04       | 1     |         |

- 2.4.5 Give the number of faculty who received awards /recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

| Academic Year | No of faculty who received awards/recognitions |          |               |       |
|---------------|--|----------|---------------|-------|
|               | State  | National | International | Local |
| Total         | 01   | --       | --            | --    |

- 2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/ programme? Provide analysis of the students results/ achievements (Programme/ course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/ courses offered.

| Course | Year       | 2015-16 |
|--------|------------|---------|
| B.A    | Appeared   | 299     |
|        | Passed     | 269     |
|        | Percentage | 89.96   |
| B.Com  | Appeared   | 230     |
|        | Passed     | 165     |
|        | Percentage | 71.73   |
| B.Sc.  | Appeared   | 234     |
|        | Passed     | 144     |
|        | Percentage | 61.53   |
| M.A.   | Appeared   | 78      |
|        | Passed     | 69      |
|        | Percentage | 88.46   |
| M.Com  | Appeared   | 39      |
|        | Passed     | 28      |
|        | Percentage | 71.79   |
| M.Sc.  | Appeared   | 189     |
|        | Passed     | 167     |
|        | Percentage | 89.30   |

- 2.6.4 What are the measures/ initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

➤ **Student Placement**

- Computer Science students attended career guidance program under youth employability initiative at Barclays, Hinjawadi campus, Pune
- One week training program organized by student Placement cell.

➤ **Entrepreneurship**

- Vividha

➤ **Innovation and research aptitude**

- Research induction Program
- Post graduate students of Microbiology attended two day international symposium.



## CRITERION III : RESEARCH, CONSULTANCY AND EXTENSION

### 3.1 Promotion of Research

#### 3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

The college has a research centre in Microbiology. The research centre for Zoology is sanctioned. Proposals for research centers in Biotechnology and Chemistry are under consideration.

#### 3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

The College has a research committee and constituted a Research and Innovation Center for Excellence (RICE). The six member committee is chaired by the Principal of our college. The committee has representatives from all three faculties.

The research committee for year 2016-17 is as follows

|                         |             |
|-------------------------|-------------|
| Dr. Ravindra Kshirsagar | Chairperson |
| Dr. Amita Dharmadhikari | Member      |
| Dr. Sanjay Patil        | Member      |
| Dr. Vinay Kumar         | Member      |
| Dr. S. Ghosh            | Member      |
| Dr. Kavita Parekh       | Member      |

#### Recommendations made by research committee:

- To conduct research induction programme for postgraduate students.
- To encourage undergraduate students to carry out small research projects.

#### Impact of Committee on research activities:

- Research induction programme conducted for postgraduate students of Life science departments.
- Undergraduate and postgraduate students carried out research projects.

#### 3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

- The college encourages student to participate in various scientific activities such as conferences, workshops, project competitions, debate and essay writing competitions. The students attend summer and winter training programmes in research institutes. This helps students to get familiarized with the recent research trends.

**Table 3.1.4.1: Student participation in conferences (Paper /poster presentation) 2011-15**

| Level           | Number of participants | Awards received |
|-----------------|------------------------|-----------------|
| International   | 16                     | 3               |
| National        | 30                     | 10              |
| State           | 7                      | 3               |
| Zonal           | 6                      | 1               |
| Interuniversity | 7                      | -               |
| Inter-college   | 10                     | 9               |
| <b>Total</b>    | <b>76</b>              | <b>26</b>       |

**Table 3.1.4.2: Student participation in conferences (Paper /poster presentation) 2015-16, 2016-17**

| Level           | Number of participants | Awards received |
|-----------------|------------------------|-----------------|
| International   | 14                     | -               |
| National        | 41                     | 4               |
| State           | 8                      | 3               |
| Zonal           | 35                     | -               |
| Interuniversity | 1                      | -               |
| Inter-college   | 16                     | -               |

The details of participants are given in Table no. 3.1.4.3

| Sr. No                              | Name of the students                         | Name of the event   | State/ National/Inter-national | Prize/Med al Won |
|-------------------------------------|--|---|--------------------------------|------------------|
| <b>International conference</b>     |  |   |                                |                  |
| 1                                   | S.Y and T.YB.Sc students.<br>12 participants | Nano-science and Technology on 29 <sup>th</sup> Feb-2 <sup>nd</sup> March 2016 at IISER, Pune | International conference       |                  |
| 2                                   | Sonika Sharma (BA Psychology)                | INTAR   | International                  | Participated     |
| 3                                   | Shivani Vani (BA Psychology)                 | INTAR   | International                  | Participated     |
| <b>National conference/ seminar</b> |  |   |                                |                  |
| 1                                   | Abhishaj Sajeev (B. A. English)              | National Level Competitions on Poetry Writing, Short Story Writing and Book Review Writing    | National                       | Awaited          |
| 2                                   | Akshaya Phadatare (Zoology)                  | National conference of Entomology, Patiala  | National                       | Participated     |

|     |  |   |               |                 |
|-----|--|---|---------------|-----------------|
| 3.  | M. M. Divekar<br>(Zoology)   | National conference on<br>Faunal Diversity:<br>Assessment and<br>Conservation   | National      | Participated    |
| 4.  | Akshaya<br>Phadatare,<br>(Zoology)                                   | National conference on<br>Faunal Diversity:<br>Assessment and<br>Conservation   | National      | Second<br>prize |
| 5.  | Pooja Nagarkar,<br>Payal Chandak,<br>Avinash Kuwar<br>(Zoology)      | National Conference at<br>Y.C.M. Kothrud, Pune  | National      | Participated    |
| 6.  | Akshaya<br>Phadatare,<br>(Zoology)                                   | International conference-<br>ICSCCB, Pune.  | International | Participated    |
| 7.  | Manisha Divekar,<br>Ashwini Gujar<br>(Zoology)                       | National Conference on<br>Innovative Research in<br>life Science, Shinghad<br>college of Science,<br>Ambegaon BK, Pune    | National      | Participated    |
| 8.  | Rachana Rokade,<br>Akshay Phadtare,<br>(Zoology)                     | National Conference on<br>Innovative Research in<br>life Science, Shinghad<br>college of Science,<br>Ambegaon BK, Pune    | National      | Participated    |
| 9.  | Pankaj Gorule,<br>Manoj Pise and<br>Chandani Verma.<br>(Zoology)     | National conference on<br>Faunal Diversity:<br>Assessment and<br>Conservation   | National      | Participated    |
| 10  | Rachana Rokade,<br>Akshay Phadtare,<br>(Zoology)                     | National Conference on<br>Innovative Research in<br>life<br>Science, Shinghad college<br>of Science, Ambegaon<br>BK, Pune | National      | Participated    |
| 11  | Renuka Potbhare<br>(Zoology)   | National conference on<br>Faunal Diversity:<br>Assessment and<br>Conservation   | National      | Participated    |
| 12. | Naikwadi, N.,<br>Raut A.<br>(Zoology)                                | National conference of<br>Entomology, Patiala   | National      | Participated    |
| 12. | Bagal, M. P<br>(Zoology)   | National conference on<br>Faunal Diversity:<br>Assessment and<br>Conservation, Pune                                       | National      | Participated    |
| 13  | Nagawade N.,<br>Chandak, P.S.,<br>Sawant Sonali,<br>S.R., Khude, G., | National conference on<br>Faunal Diversity:<br>Assessment and<br>Conservation, Pune                                       | National      | Participated    |

|     |  |  |                     |                   |
|-----|--|--|---------------------|-------------------|
|     | (Zoology)  |  |                     |                   |
| 14  | Mr. Soching Luikham (T. Y. B. Sc., Microbiology) | Poster presentation at National Conference on Innovative Research in Life Science (IRLS) at Sinhgad College of Science, Pune organized on 26 <sup>th</sup> and 27 <sup>th</sup> February, 2016                                     | National Conference | First Prize       |
| 15. | Mr. Soching Luikham (T. Y. BSc, Microbiology)    | Poster presentation at National Conference on Faunal Diversity: Assessment and Conservation (FDAC-2016) at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 22 <sup>nd</sup> and 23 <sup>rd</sup> January, 2016. | National Conference | First Prize       |
| 16. | Ms. Kajal Mulla (M. Sc. Microbiology)            | All India Essay Writing Event, 2015, organized by Shree Ram Chandra Mission and United Nations's Information Centre for India and Bhutan.  | National            | Honorable Mention |
| 17. | Ms. Rashmi Ahire (M. Sc. Microbiology)           |  |                     | Participated      |
| 18. | Preeti Pandhare (M. Sc. Microbiology)            |  |                     | Participated      |
| 19  | Akhilesh Choudhary (B. Sc. Comp. Sc.)            | Paper Presented at IISER,Pune  | National            | -                 |
| 20  | Kambale Rajkumar (B. A.)                         | Swami Ramanand Tirth Vidyapeeth, organised National Conference   | National            | Participated      |
| 21  | Sonika Sharma (B. A. Psychology)                 | Young Psychologist Competition   | National            | First Prize       |
| 22  | ShivaniVani (B. A. Psychology)                   | Young Psychologist Competition   | National            | Participated      |
| 23  | PritviBhushan (B. A. Psychology)                 | Young Psychologist Competition   | National            | Participated      |
| 24  | Sonika Sharma (B. A. Psychology)                 | Chikitsa Women's Studies Conference  | National            | Participated      |
| 25  | ShivaniVani (B. A. Psychology)                   | Chikitsa Women's Studies Conference  | National            | Participated      |
| 26  | Hemant Raghunauth                                | Chikitsa Women's Studies Conference  | National            | Participated      |
| 27. | ShivaniVani (B. A. Psychology)                   | National Academy of Psychology Annual  | National            | Participated      |

|  |   |   |             |                       |
|--|---|---|-------------|-----------------------|
|  |   | Conference (2016-17)  |             |                       |
| 28.                                    | Sonika Sharma                               | National Academy of Psychology Annual Conference (2016-17)  | National    | Participated          |
| 29.                                    | Pritvi Bhushan (B. A. Psychology)           | National Academy of Psychology Annual Conference (2016)   | National    | Participated          |
| 30.                                    | Lavina Johnson (B. A. Psychology)           | National Academy of Psychology Annual Conference (2016)   | National    | Participated          |
| <b>State level conference/workshop</b> |   |   |             |                       |
| 1                                      | Gauri Rengade (Commerce)                    | Growth of e-commerce in India : Challenges and its Future.  | State       | Presented paper       |
| 2                                      | Shiwani Patel (Commerce)                    | Growth of e-commerce in India : Challenges and its Future.  | State       | Presented paper       |
| 3.                                     | Mangesh Pacharne (M.Sc I Chemistry)         | M.J. Pujari Lecture Competition in A. G. College, Pune on 27.2.16   | State       | Consolation prize     |
| 4.                                     | Ms. Pranali Meher (F.Y. B.Sc. Microbiology) | 15 <sup>th</sup> State Level Microbiological Contest and Microbio Olympiad organized at Shirpur   | State Level | Won best poster award |
| 5.                                     | Mr. Hardik J Shah (M. Sc. Microbiology)     | MicrobioPodium (State level Microbiology Presentation Competition) organized by R.C. Patel college, Shirpur on 27 <sup>th</sup> January, 2016 | State Level | Participated          |
| 6.                                     | Ms. Rashmi Ahire (M. Sc. Microbiology)      | MicrobioPodium (State level Microbiology Presentation Competition) organized by R.C. Patel college, Shirpur on 27 <sup>th</sup> January, 2016 | State Level | Participated          |
| 7.                                     | Mr. Prashant Walke (T.Y. B. A)              | One day Conference Paper presented on “A Study of Stages of Agricultural Development in India and Various Policies”                           | State       | Paper Presented       |
| 8.                                     | Ratna Pal                                   | Chemiad,  | University  | 7 <sup>th</sup> rank  |
| <b>Zonal</b>                           |   |   |             |                       |
| 1.                                     | BalikaGawade (SY BSc Electronics)           | Avishkar, 2015  | Zonal       | Participated          |

|                         |  |  |               |              |
|-------------------------|--|--|---------------|--------------|
| 2.                      | Amit Kadmallu<br>(SY BSc<br>Electronics)   | Avishkar, 2015   | Zonal         | Participated |
| 3.                      | Gayki Manoj and<br>Swati Jadhav  | Avishkar, 2016   | Zonal         | Participated |
| 4.                      | Ms. Shraddha<br>Talekar & Mr.<br>Duargude<br>Pargappa form<br>(M.A. Part – I<br>Economics) | “Avishkar 2015”<br>Poster Presentation on<br>“Green Audit”   | College level | Participated |
| 5.                      | 29 students from<br>M.Sc. II<br>Microbiology   | Hands-on training<br>workshop on ‘ <b>Gene<br/>Annotation</b> ’ on 19/10/15,<br>organized by <b>AMI (Pune<br/>Unit) and MCC-NCCS</b>                                     | Zonal         | Participated |
| <b>Inter university</b> |  |  |               |              |
| 1.                      | Harsh Kamble   | “Summer School in<br>Physics” <b>training<br/>programme</b> conducted<br>by and at Dept. of<br>Physics, SPPU, Pune.<br>from 9 <sup>th</sup> to 20 <sup>th</sup> May 2016 | SPPU          | Participated |
| <b>Intercollege</b>     |  |  |               |              |
| 1.                      | Shahista Hungud  | Botanica Competition<br>:Ness Wadia College  | Intercollege  | Participated |
| 2.                      | F.Y. B.Sc.<br>Two Students   | Organic Farming<br>workshop: Sinhgad<br>College of Arts, Sci.&<br>Comm.  | Intercollege  | Participated |
| 3.                      | Veersen Singh  | IPA (Indian Physics<br>Association ) Pune<br>Chapter   | Intercollege  | Participated |
| 4.                      | Harsh Kamble   | IPA (Indian Physics<br>Association ) Pune<br>Chapter   | Intercollege  | Participated |
| 5.                      | Pooja Galande  | IPA (Indian Physics<br>Association ) Pune<br>Chapter   | Intercollege  | Participated |
| 6.                      | Pooja Galande,<br>Laxmi Patil<br>Shalaka Khot<br>(T.Y.BSc-<br>Physics)                     | workshop on “Solar<br>Energy” at B.R.Gholap<br>college on 10 <sup>th</sup> ,11 <sup>th</sup> ,12 <sup>th</sup><br>Feb 2016.  | Intercollege  | Participated |

**3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.**

- Eight staff members of our college are recognized M.Phil/Ph.D. guides. A total of 28 students have registered for Ph.D. and six students have registered for M. Phil. under them. Nineteen staff are involved in research and have registered for Ph.D.

**3.1.6 Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.**

The college conducted several workshops, training programmes and sensitization programmes for staff and students in 2015-16 and first half of 2016-17. The programmes include college level, state level, national level and international level workshops, seminars and conferences.

**Table 3.1.6.1: Details of workshops/ training programmes/ sensitization programmes (2015-16, 2016-17)**

| Sr. No.                                   | Name of activity   | Class                                | Details  |
|---|--|--------------------------------------|--|
| <b>College level workshops/activities</b> |  |                                      |  |
| 1   | <b><i>Research Induction Program</i></b>                           | Life Sciences Post-Graduate Students | Research Induction Program For Life Sciences Post-Graduate Students (Under DST-FIST Program), 06 – 07 September 2016,<br>Total participation: 90<br>Conducted by: Department of Biotechnology, Microbiology and Zoology                      |
| 2   | Science Motivation Workshop on 16 <sup>th</sup> February 2016      | F.Y.B.Sc                             | Conducted by Dr. Prabodh Chobe, organized by Department of Chemistry, 150 students   |
| 3.  | A three day Workshop on “Guidance for NET-SET examinations”<br>ISR | P.G students                         | 2 <sup>nd</sup> March to 4 <sup>th</sup> March 2016, organized by Department of Chemistry<br>100 participants  |
| 4.  | Summer Training Workshop   | S.Y.B.Sc                             | 20 students  |
| 5.  | Skill Based Course   | S.Y.B.Sc                             | 30 students  |
| 6.  | Summer Training Program  | F.Y.BSc                              | Diversity and Taxonomy with special reference to <i>Entomofauna</i> and <i>Ichthyofauna</i><br><br>For Undergraduate students, organized by Department of Zoology<br><br>15 <sup>th</sup> to 17 <sup>th</sup> March, 2016<br><br>25 students |

|     |   |  |   |
|-----|---|--|---|
| 7.  | Hands on training program Report  | S.Y B.S.c                                  | Two day workshop on 'Basic techniques in life Science', organized by Department of Zoology (18th – 19 <sup>th</sup> March 2016)<br>20 students  |
| 8.  | Entrepreneurship Development Programme  | T Y B Com                                  | In collaboration with Maharashtra Center for Entrepreneurship Development.  |
| 9.  | TRANSFORMATION Personality Development Workshop   | T Y B Com                                  | In Collaboration with Lee Spa   |
| 10. | Cost fest   | SY/Ty B Com                                | For students who have opted costing as special subject.   |
| 11. | Magnit  | BBA(CA)                                    | Project, poster and programming competition.  |
| 12. | Direct Tax Advisor  | MCom                                       | Training regarding various taxes.   |
| 13. | Career Guidance Programme   | T Y B Com                                  | Lectures by experts in various fields.  |
| 14. | Training on "Steps involved in designing electronic product and PCB design using EXPRESS PCB software | F.Y. and S.Y. Comp.Sc. and Electronic Sc.  | Training under DBT –STAR college scheme.(2015-16)   |
| 15. | Hands on training on Photo-Voltaic System Design and installation                                     | F.Y.and S.Y.B.Sc. CompSc.,General, Biotech | Interdisciplinary activity initialized to train workforce to work in the field (2015-16)  |
| 16. | DBT –STAR Hands-on training Workshop by Department of Microbiology                                    | T .Y. B.Sc.                                | Biochemical techniques and instrumentation on 1 <sup>st</sup> , 2 <sup>nd</sup> and 4 <sup>th</sup> July 2016.<br>39 students from Modern college, Ganeshkhind +3 from Abasaheb Garware College+ 3 students from Modern college Shivajinagar  |
| 17. | DBT –STAR Hands-on training Workshop by Department of Microbiology                                    | S .Y. B.Sc. Microbiology                   | Physicochemical and Microbiological Characterization of Soil, on 24 <sup>th</sup> and 25 <sup>th</sup> June 2016 for Microbiology students at Microbiology, Dept, MCASC, GK<br>19 students from Modern college, Ganeshkhind +3 from H. V. Desai College+ 3 TY BSC Biotech students from Modern college Shivajinagar |
| 18. | Department of Computer Science - Soft Skill Workshop Soft Skill 2015-16                               | M.Sc., M.C.A.                              | Communication skills needed in Resume writing,G.D.  |



|                                 |  |  |  |
|---------------------------------|--|--|--|
| 19.                             | Department of Computer Science<br>Soft Skill 2016-17 | TYBSc(CS)                                  | Training at Barkclay Company, Hinjewadi.   |
| 20.                             | Department of Computer Science<br>Android Workshop   | TYBSc(CS)                                  | Understanding developing in Android  |
| 21.                             | Development and Displacement                         | UG & PG (Arts)                             | 2 <sup>nd</sup> September 2015<br>03 <sup>rd</sup> September 2015  |
| 22.                             | Violence Against Women                               | UG & PG(Arts)                              | Dr. Vijay Narkhede and TATHAPI team  |
| 23.                             | Ideas & Maharashtra Tribal Research Centre           | UG & PG(Arts)                              | Dr. Tribhuvan Robin  |
| 24.                             | For Faculty- Learner and Learning Centered Teaching  | 10 assistant professors from Arts Faculty, | Organized by Department of Psychology 21/10/2016   |
| 25.                             | For Students - Goal Setting Workshop                 | 30 students (UG/PG)                        | Organized by Department of Psychology 07/09/2016   |
| 26.                             | Study Skills for Dept of BVoC                        | 50 students (UG)                           | Organized by Department of Psychology 23/09/2016   |
| 27.                             | Life Skills for Dept of Physics                      | 15 students                                | Organized by Department of Psychology 21/09/2016   |
| 28.                             | Life Skills for Dept of BVoc                         | 50 students                                | Organized by Department of Psychology 9/12/2016  |
| 29.                             | Hands on Training 9 <sup>th</sup> July, 2015         | F.Y., S.Y. B.Sc                            | Advanced Graphical Techniques for Data presentation, Organized by Department of statistics   |
| 30.                             | PUSA Quiz (January of each year)                     | F.Y., S.Y. B.Sc                            | MCQ Quiz based on F.Y., S.Y. B.Sc. syllabus  |
| 31.                             | National Statistics Day, 29 <sup>th</sup> June, 2016 | F.Y., S.Y. B.Sc                            | Presentations on Statistics for Farmers' welfare   |
| 32.                             | Summer Training Program                              | F.Y.BSc                                    | For Undergraduate students, organized by Department of Mathematics, 13 <sup>th</sup> to 23 <sup>rd</sup> June, 2016. 15 students benefited                                 |
| 33.                             | Vedic Mathematics                                    | Undergraduate students                     | For Undergraduate students of all faculty, organized by Department of Mathematics, 25 <sup>th</sup> July to 13 <sup>th</sup> August, 2016 40 students benefited            |
| <b>Inter college activities</b> |  |  |  |
| 1                               | <b><i>Summer Training Program</i></b>                | TY BSc (Life Sciences) students.           | <b><i>Summer Training Program</i></b> on 'Gene Isolation and Amplification' under DBT Star College Scheme from 20 <sup>th</sup> – 25 <sup>th</sup> June 2016, conducted by |

|                                |  |         |   |
|--------------------------------|--|---------|---|
|                                |  |         | Department of Biotechnology<br>25 Students including from 2 other colleges participated |
| 2                              | Interaction 2015-16                              | UG & PG | Intercollegiate competitions  |
| 3                              | Interaction 2016-17                              | UG & PG | Intercollegiate competitions  |
| <b>National workshops</b>      |  |         |   |
| 1                              | Workshop at wadia college on 27 August 2015      | M.ScI   | Conducted by Royal Society of Chemistry.  |
| <b>International Workshops</b> |  |         |   |
| 1                              | IISA Pre-conference workshop 19th December, 2015 | -       | Use of statistics in Clinical Trials  |

### 3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

The teaching staff of the college is actively involved in the research activities in various fields. The supplementary information for details of area of expertise is given in table 3.1.7.1

**Table 3.1.7.1: Details of prioritized research areas and the expertise available**

| Sr. No.        | Name of Teacher         | Research Area / Expertise available                      |
|----------------|-------------------------|--|
| <b>Arts</b>    |                         |  |
| 1.             | Mr. Gandhale Rajkumar   | Sociology of Health and Globalisation                    |
| 2.             | Dr. Deshpande Megha     | Research Methodology                                     |
| 3.             | Mr. Ajit Padwal         | Urban Sociology, Policy making, Competitive Examinations |
| 4.             | Nashome Crasto          | Dementia and Alzheimer intervention                      |
| 5.             | Ms. Shubhangi Meshram   | Geography Dept, Geography, GIS                           |
| <b>Science</b> |                         |  |
|                | Dr. Geeta Morwal        | Plant Biotechnology                                      |
|                | Dr. Prachi Kshirsagar   | Plant Taxonomy , Ethnobotany                             |
|                | Mr. Tajne Niket         | Pattern Recognition                                      |
|                | Mrs. Trupti Sohoni      | System Analysis & Design                                 |
|                | Mr. Amol Patil          | Image Processing , Data structures                       |
|                | Dr. Amita Dharmadhikari | DoE, Reliability, Regression Analysis                    |
|                | Mrs. Varsha Joshi       | Nanomaterials  |
|                | Mr. Mahendra Waghmare   | Synthesis of non-ferrites and their characterization     |

### 3.2 Resource Mobilization for Research

#### 3.2.4 How does the various departments /units /staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

The research committee of college and the staff members involved in research, identify the possibilities of collaborative research. As an output of this discussion few research projects were carried out in the college as follows:

- Analysis of solar panel efficiency, between Physics and Electronics.
- Evaluation of antimicrobial activity of metal nanoparticles using electrical impedance, between Microbiology, Physics and Electronics.
- Synthesis and characterization of physicochemical properties of ink used in tabla, between Chemistry and Physics department.
- Optimization of parameters to improve adhesive properties of ink used in tabla, between Chemistry and Physics department.
- Development of hearing prosthesis using mechanical transducer, Physics Department and Department of Electronic science, SPPU.

#### 3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

**Table 3.2.7.1: List of sanctioned, completed and ongoing research projects from different funding agencies (year 2015-16, 2016-17)**

| Nature of the Project | Duration Year From-To | Title of the project (Principal Investigator)  | Name of the funding agency | Total grant |          | Total Grant received till date |
|-----------------------|-----------------------|--|----------------------------|-------------|----------|--------------------------------|
|                       |                       |  |                            | Sanctioned  | Received |                                |
| Minor project         | 2013-15               | An Analysis of Agricultural Development of a Maharashtra after 1991 (Mr. Doke Namdev)  | BCUD                       | 60000       | 49887    | 49887                          |
|                       | 2014-16               | Study on digestive and reproductive physiology of lepidophagous fish, Neotropius Kavalchor, Kukarni from western ghats, India. (Dr. Sanjay Kharat) | UGC                        | 440000      | 250000   | 250000                         |
|                       | 2014-16               | Biosystematics studies on Braconoid parasitoid on lepidopteran larvae of some economically important crop pests from Pune. (Dr. Shakira Inamdar)   | UGC                        | 280000      | 2,00000  | 200000                         |

|               |                       |  |                             |                |                |                |
|---------------|-----------------------|--|-----------------------------|----------------|----------------|----------------|
|               | 2014-16               | Stem cell signaling in planaria, <i>Dugesiatigirina</i> (Dr. Ravindra Kshirsagar)  | BCUD,S PPU                  | 240000         | 210000         | 210000         |
|               | 2014-2016             | Vigilant Attendance System (Vaishali Salunke)  | BCUD                        | 1,65,000       | 82500          | 82500          |
|               | May 2016 to Sept 2016 | Impact Assessment and Evaluation of Therapeutic Groups in Low Income Communities- Bapu Trust Seher Mental Health Project (Dr. Sadhana Natu)  | Forbes Marshall CSR         | 125000         | 12500          | 12500          |
|               | 2015-2017             | “Synthesis and characterization of Nanoferrites by Solgel method ” (Mr. Mahendra Waghmare)   | UGC                         | 470000         | 370000         | 370000         |
|               | 2016-2018             | Elicitation of diosgenin production in <i>Helicteres isora</i> suspension cultures (Dr. Vinay Kumar)   | BCUD, S. P. Pune University | 240000         | 120000         | 120000         |
|               | 2016-2018             | Synthesis and Characterization of Pyrazole derivatives (Dr. Sushma Katade)   | BCUD                        | 190000         | 95000          | 95000          |
| Major project | 2015 to 2018          | Empirical Analysis of Effects of Pre-birth Education on Child Development by using Advanced Statistical Techniques (Dr. Amita Dharmadhikari) | U.G.C. New Delhi            | 1253600        | 815600         | 815600         |
|               |                       |  | <b>TOTAL</b>                | <b>3298600</b> | <b>2205487</b> | <b>2205487</b> |

### 3.2.7.2 Research Proposals submitted/ Under Consideration:

| S. No. | Name of the investigators PI and CO-I | Title of the project  | Funding agency           | Total Outlay (Rs.) | Status                               |
|--------|---------------------------------------|---|--------------------------|--------------------|--------------------------------------|
| 1.     | Dr. Vinay Kumar (PI/Coor              | Exploring Potentials of Three Tier Phyto-Microbe-Nano-Remediation | DBT, Government of India | <b>7283603</b>     | Shortlisted and presented before the |

|    |  |  |   |         |   |
|----|--|--|---|---------|---|
|    | dinator)<br>Dr.<br>Sanjay<br>Kharat<br>(Co-PI) | Technologies for Clean Up of Sewage Discharged in to Mula-Mutha Rivers of Pune City<br>[BT/PR20433/BCE/8/13 91/2016]   |   |         | Taskforce at VIT, Vellore in October 2016 |
| 2. | Dr.<br>Vinay<br>Kumar<br>(PI)                  | Identification of novel and conserved sodium-responsive miRNAs and their target genes modulating salinity stress during reproductive phase in rice cultivars<br>EMR/2016/003896/PS | Science and Engineering Research Board (SERB), DST, Government of India | 2968000 | Peer-reviewed and has been put before PAC |

### 3.3 Research Facilities

| Name of Department | Funding agency     | Instruments received   |
|--------------------|--------------------|--|
| Biotechnology      | DST-FIST (2016-17) | 1. CO <sub>2</sub> Incubator, Thermo Fisher, Cost: 6,25,000/-<br>2. Biosafety Cabinet, Micro-Filt India, Cost: 1,72,651/-  |
| Zoology            |                    | 1. Digital Caliper<br>2. Spin wheel microcentrifuge<br>3. Refrigerator<br>4. Vortex mixer<br>5. Heating mantle<br>6. Soxhlet apparatus<br>7. Micropipettes<br>8. Microtome<br>9. Spectrophotometer |
| Microbiology       | UGC                | Multichannel pipette (2015-16)   |
| Psychology         | College            | Psychological Tests and equipment  |
| Physics            | Under DBT Scheme   | 1. Goniometer,<br>2. Sound absorption coefficient apparatus.<br>3. Mini Optical bench<br>4. Callender and Griffith bridge  |
| Chemistry          | Department budget  | 1. Electronic balance- 03<br>2. Pure Aqua System- 01   |
| ELECTRONIC Sc.     | DBT                | 4 sets of Solar PV system installation sets including 10v solar panel, Battery, Charge controller and LED display  |
|                    | DBT                | 2-Experiment kits of Code converter  |
|                    | BCUD               | Raspberry pi board ,Fingerprint module, GSM interface  |

### 3.4 Research Publications and Awards

#### 3.4.1 Highlight the major research achievements of the staff and students in terms of Patents obtained and filed (process and product):

The college has three Indian patents filed by a staff member from Department of Microbiology-

|  |               |                 |
|--|---------------|-----------------|
| <b>Ghosh S, Harke AN, Chacko MJ, Gurav SP.</b> (2016) <i>Gloriosa superba</i> mediated synthesis of silver and gold nanoparticles.                                 | Indian patent | 201621016060 A. |
| <b>Ghosh S, Gurav SP, Harke AN, Chacko MJ.</b> (2016) An optimized process for <i>Dioscorea oppositifolia</i> mediated synthesis of gold and silver nanoparticles. | Indian patent | 201621028221 A  |
| <b>Ghosh S, Chacko MJ, Gurav SP, Harke AN.</b> (2016) Process optimization for synthesis of silver and gold nanoparticles using <i>Barleria prionitis</i> leaf.    | Indian patent | 201621027956 A  |

#### 3.4.3 Give details of publications by the faculty and students:

Detailed list of publication for individual faculty are shown in Table 3.4.3 .1

- **Chapter in Books/Books Edited/Books with ISBN/ISSN numbers with details of publishers**

Details of books are shown in Table 3.4.3.2

### 3.5 Consultancy

#### 3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

The table 3.5.4.1 gives details of consultancy.

| Area of Consultancy   | Income generated |
|---|------------------|
| Consulting Archaeologist at Kirloskar Consultants Pune, on the project 'Listing and grading of heritage buildings and precincts in Alibag, Pen, Karjat and Khopoli', sponsored by MMRDA | Rs.30,000/-      |
| Researcher at Janwani- an initiative of Maharashtra Chamber of Commerce, Industries and Agriculture (MCCIA), Pune, on the project 'Pune Heritage Walk'                                  | Rs.25,000/-      |

### 3.6 Extension Activities and Institutional Social Responsibility

#### 3.6.1 How does the institution promote institution-neighborhood community network and student engagement, contributing to good citizenship, service orientation and holistic development of student?

Our institute believes in inculcating good values among students. We strive for building good citizens out of them. The college conducts activities through various lectures to improve sense of social responsibility and gender equality.

In order to ensure holistic development of students the college conducted various activities

- Vidyarthini manch

| Sr. No. | Year           | Activity   |
|---------|----------------|--|
| 1.      | (August 2016)  | Lecture and demonstration on Benefits of Physiotherapy |
| 2.      |                | Lecture on Web addiction                               |
| 3       | September 2016 | Lecture Antiragging and sexual harassment              |

- **3.6.2 What is the Institutional mechanism to track student's involvement in various social movements /activities which promote citizenship roles?**

In order to inculcate moral values and nurture a compassionate and progressive attitude college encourages student participation in various activities like:

- **Police mitra programme:** During Ganesh festival 14 boys and 1 faculty member of our college helped in controlling traffic between 11-8 p.m for one day.
- **Swachhata Abhiyan :**On the occasion of Mahatma Gandhi's Birth Anniversary a cleanliness drive was arranged where in students along with staff members were involved in cleaning the college campus.
- **Electronics department e-waste** collection drive was conducted in different housing society.
- **Sociology department :** Students of sociology department actively participated in distribution of books amounting Rs. 1000/ to tribal children through a **N.G.O One book one smile.**
- **NSS and NCC units** of our college organize various social activities every year, where most of the students participate actively and voluntarily. The activities include–
  1. Rice plantation was done on 2 acre by students and teachers.
  2. Krantidias celebration was organized along with History department wherein Rangoli exhibition was organized on Shivacharapati .
  3. Lecture was organized on **Youth empowerment** by Keshawanand Swami from ISKCON.
  4. Students were involved in Nirmalaya collection drive after Ganesh festival and converted to biofertiliser.
  5. Blood donation camp was organized in the college.
  6. Special winter camp was organized at Lavarde village, Tal. Mulshi, Dist. Pune.

### 3.7 Collaborations

#### 3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/ other universities/ industries/ Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

The institute has developed collaborations, linkages and MOUs with research institutes, organizations, industries.

**Table showing list of collaborative projects, linkages and MOUS are shown in Table 1 Annexure 3.7.2 page 572.**

| Sr. no.               | Name of staff member/<br>Department               | Title and Nature   | Institute and other details   |
|-----------------------|---|--|---|
| <b>Collaborations</b> |   |  |   |
| 1                     | Department of Biotechnology:<br>Dr. Vinay Kumar   | Research Project   | CSIR-NCL, Pune<br>RMIT University, Australia<br>B.J. Govt. Medical College, Pune<br>Vasantdada Sugar Institute, Pune<br>Environmental Science Department, S. P. Pune University, Pune |
| 2                     | Department of Chemistry                           | Hands on Training for Skill Based course for P.G.            | Dept. of Chemistry, Savitribai Phule Pune University.   |
| 3                     | Department of Zoology<br>Dr. Sanjay Kharat        | Fish taxonomy  | Zoological survey of India  |
| 4.                    | Department of Zoology:<br>Dr. S.A. Inamdar        | Insect Taxonomy  |   |
| 5.                    | Department of Zoology<br>Dr. Ravindra Kshirsagar  | Aquatic insect   |   |
| 6.                    | Department of Microbiology :<br>Dr. Sougata Ghosh | Nanotechnology Research and Development                      | Defence Institute of Advanced Technology, Pune  |
|                       |   | Anticancer and cell cytotoxicity studies                     | Institute of Bioinformatics and Biotechnology, SPPU   |
|                       |   | Synthesis of novel drug molecules                            | Department of Chemistry, SPPU   |
|                       |   | Antimicrobial activity of nanomedicine                       | Department of Microbiology, SPPU  |
|                       |   | Synthesis and characterization of nanodrug delivery vehicles | IISER, Pune   |



|                 |  |  |  |
|-----------------|--|--|--|
|                 |  | In-vivo animal studies and antileishmanial activity  | National Centre for Cell Science, Pune                                       |
|                 |  | Characterization of novel nanomaterials  | Indian Institute of Technology Bombay, Mumbai                                |
| 7.              | Department of Sociology  | Child abuse skill based programme.   | Muskaan  |
|                 |  | Soft skill development programme.  | Gyaansetu  |
|                 | Department of Sociology  | Soft skill development programme.  | TISS- women protection cell  |
|                 | Department of Sociology  | Tribal Handicraft exhibition.  | Ideas  |
|                 | Department of Sociology  | Kisaan Student Forum.  | Abhinav farmers club   |
|                 | Department of Sociology  | Computer course.   | Ashwan foundation  |
|                 | Dr. Sadhana Natu   | International – Pan University Network in Global Health. Attended a Research workshop and worked out a collaborative international research proposal | SPPU and University of Pennsylvania , USA                                    |
| <b>Linkages</b> |  |  |  |
| 1               | Department of Chemistry  | Projects for P.G.  | National Chemical Lab, Dept. of Chemistry, Savitribai Phule Pune University. |
| 2               | Department of Microbiology   | SPPU Extra credits for M.Sc. course: Cyber Crime and Cyber Security  | Department of Computer Science, Modern College of ASC, GK, Pune-16           |
| 3               | Department of Microbiology<br>Modern College of ASC, GK, Pune-16 and | SPPU Extra credits for M.Sc. course: Human Rights  | Modern Law College   |
| 4.              | Department of Microbiology<br>Research Projects<br>M.Sc.             | Linkages for Research projects   | NCL, NCL venture centre, Departments of S.P. Pune University.                |

|            |   |   |  |
|------------|---|---|--|
| 5.         | Dr. Sanjay Kharat                                 | Fish Taxonomy   | IISER  |
| 6.         | Department of Zoology<br>Dr. S.A. Inamdar         | Insect Taxonomy   | NCL  |
| 7.         | Department of Zoology<br>Dr. Ravindra Kshirsagar  | Pest Taxonomy   | NCL  |
| 8.         | Dr. Sadhana Natu                                  | Expert on National Consultation on Sexual Harassment at the workplace | Women's Studies Centre, SPPU   |
| 9.         | Dr. Sadhana Natu                                  | Advisory Committee for setting up Counselling Cell                    | PES Modern Law College   |
| 10.        | Dr. Sadhana Natu                                  | Advisory Committee for starting a Peer Support Group                  | AbedaInamdar College   |
| 11.        | Dr. Sadhana Natu                                  | Evaluator for MA and PhD  | IGNOU  |
| 12.        | Dr. Sadhana Natu                                  | Presentation about Disha Peer support and speak out group             | University of Massachusetts , Amherst, USA group at Women's Studies Centre, SPPU |
| 13.        | Dr. Sadhana Natu                                  | Testing and Review Expert for new E book                              | McGraw Hill International Publishers   |
| <b>MOU</b> |   |   |  |
| 1          | Department of Biotechnology<br>(Dr. Vinay Kumar)  | Academic and Research Cooperation and Faculty/student Exchange        | RMIT University, Melbourne, Australia  |
| 2          | Department of Biotechnology<br>(Dr. Nivedita Das) | Research Collaboration  | Applied Nanomaterials, Pvt. Ltd., Pune   |
| 3          | Department of Zoology                             | Sericulture   | Central Sericulture Institute Baramati   |
| 4          | Department of Zoology                             | Agricultural Entomolgy  | Ashwamedh Agrotech Ltd. Kopargaon  |
| 5          | Department of Electronics                         | E-Waste collection and Management                                     | Kuldeep E-waste Management Firm , Pune.  |
| 6          | Department of Biotechnology<br>(Mrs. Sneha Ogale) | Bacterial Concrete  | Civil Engineering Dept., AISSMS Engineering College                              |
| 7          | Department of Computer Science                    | Fostering collaboration to promote industrial & academic interaction  | IGATE Global Solutions Ltd.  |

**Table 3.4.3 .1: List of Publication per faculty (2015-16, 2016-17)**

| Sr. No | Name of the Teacher(s) Author | Title of the Paper   | Name of the journal                            | Volume & Pages             | Year of publication | ISBN/ ISSN No.                                | Impact factor  |
|--------|-------------------------------|--|--|----------------------------|---------------------|---|--|
| 1.     | Mrs. Shilly John              | <i>Growth Trend in Card Based Payment in India</i>   | RESECO   | Vol. 1<br>Pp. 14-18        | 2015-16             | ISSN: 2395-6860                               |  |
| 2.     | Dr Sadhana Natu               | The Study of Government's Efforts of Psycho-socio-political Empowerment of Women in the Panchayat Raj Institution: Document Analysis Approach" | IOSR Journal of Humanities and Social Sciences | Vol 21, issue 10, Pp 27-31 | 2016                | ISSN: 2279-0845                               | 1.607  |
| 3.     | Dr Sadhana Natu               | Internet Addiction : Can CBT help?   | International journal of Indian Psychology     | Vol 4, Issue 1 No 76,      | 2016                | ISSN 2348-5396<br><br>ISBN: 978-93-86162-13-7 | Info base Index India 3.3 Research bible 5.1, Global impact factor 0.5 |
| 4.     | Dr Sadhana Natu               | Internet Addiction : A Focus group discussion approach   | IOSR Journal of Humanities and Social Sciences | Vol 21, Issue 10, pp 19-23 | 2016                | ISSN: 2279-0845.                              | 1.607  |
| 5.     | Dr Sadhana Natu               | Impact Assessment and Evaluation of Therapeutic Groups in Low Income Communities- Bapu Trust Seher Mental Health Project                       | Published by Bapu Trust on Mind and Discourse  | Pgs 50                     | 2016                | -   | -  |

|     |                                      |   |   |                             |      |                                 |   |
|-----|--------------------------------------|---|---|-----------------------------|------|---------------------------------|---|
| 6.  | Dr Sadhana Natu                      | Youth Suicides in Purandar Taluka, Pune District; an exploratory Study            | Published by MASUM ,Pune                              | Pgs 50                      | 2015 | ISBN<br>978 93<br>81352 06<br>9 | - |
| 8.  | Dr Sadhana Natu                      | Youth and Mental Health : Urban, Rural and Fringe Realities                       | Conference proceedings<br>Siddhivinayak College, Pune | -                           | 2015 | ISBN<br>978 81<br>931444 0<br>4 | - |
| 10. | Dr Sadhana Natu                      | College Mental health : The Disha Experience                                      | Medico Friends Circle<br>Bulletin                     | Vol365-<br>66, Pgs<br>10-13 | 2015 | -                               |   |
| 11. | Shivani Vani and Dr Sadhana Natu     | Caught in the Web : Matrimonial websites and their complexities                   | Mindscape : Research<br>Compendium                    | Vol I                       | 2016 |                                 |   |
| 12. | Shivani Vani and Dr Sadhana Natu     | Conflict and Terrorism in the contemporary world                                  | Mindscape : Research<br>Compendium                    | Vol I                       | 2016 |                                 |   |
| 13. | Sonika Sharma and Dr Sadhana Natu    | Marriage partner : suitability and selection                                      | Mindscape : Research<br>Compendium                    | Vol I                       | 2016 |                                 |   |
| 14. | Sonika Sharma and Dr Sadhana Natu    | Kashmir Conflict : A psycho social enquiry  | Mindscape : Research<br>Compendium                    | Vol I                       | 2016 |                                 |   |
| 15. | Prithvi Bhushan and Dr Sadhana Natu  | Micro Expressions : A psychological enquiry into the concept and its applications | Mindscape : Research<br>Compendium                    | Vol I                       | 2016 |                                 |   |
| 16. | Hemant Raghunath and Dr Sadhana Natu | To marry or not to marry : A multi-cultural perspective                           | Mindscape : Research<br>Compendium                    | Vol I                       | 2016 |                                 |   |

|     |  |  |   |                 |      |                |             |
|-----|--|--|---|-----------------|------|----------------|-------------|
| 17. | Dr.Madhuri Kulkarni<br>Dr. Nilesh Rathod                               | Liquid liquid extraction of Cd <sup>2+</sup> and its complexation study by p-t-butylthiacalyx.   | • Research Journal of Chemical Sciences, 1-7, April 2016                        | Vol.6(4)        | 2016 | ISSN223 1-606X |             |
| 18  | Shriram, V., Kumar, V., Devarumath, R., Khare, T.S. and Wani, S.H.     | Micro RNAs as potential targets for abiotic stress tolerance in plants   | <i>Frontiers in Plant Science</i>   | 7: 817          | 2016 | 1664-462X      | <b>4.45</b> |
| 19  | Wani SH, Kumar V, Shriram V, Sah SK.                                   | Phytohormones and their metabolic engineering for abiotic stress tolerance in crop plants.   | <i>The Crop Journal</i>   | 4: 162-176      | 2016 | 2214-5141      | -           |
| 20  | Wani SH, Kumar V.  | Plant Stress Tolerance: Engineering ABA: A Potent Phytohormone.  | <i>Transcriptomics</i>  | 3(2): 1000113   | 2015 | 2329-8936      | -           |
| 21  | Mapara N, Sharma M, Shriram V, Bharadwaj R, Mohite KC, <b>Kumar V.</b> | Antimicrobial potentials of <i>Helicteres isora</i> silver nanoparticles against extensively drug resistant (XDR) clinical isolates of <i>Pseudomonas aeruginosa</i> . | <i>Applied Microbiology and Biotechnology</i>                                   | 99: 10655-10667 | 2015 | 0175-7598      | <b>3.34</b> |
| 22  | Gupta, R., Soni, S.  | Perchlorate uptake and its effect on physiological, biochemical and growth parameters of eucalyptus plant under ammonium perchlorate stress.                           | <i>International Journal of Agriculture, Environment and Biotechnology</i>      | 8: 335          | 2015 | 0974-1712      |             |
| 23  | Rekha Gupta, Aditi Deshpande   | Degradation and Decolorization of synthetic dye  | <i>Asian journal of Microbiology, Biotechnology &amp; Environmental science</i> | 16: 641-646     | 2014 | 0972-3005      |             |

|    |   |  |   |               |      |           |              |
|----|---|--|---|---------------|------|-----------|--------------|
| 24 | Gupta R, Soni S.  | Studies on Rhizoremediation of perchlorate and its effect on physiological and biochemical parameters of Peltophorum plant in presence of mycorrhiza               | <i>Environment Observer</i>                             | 18: 94        | 2014 | 2320-5997 |              |
| 25 | Gupta, Rekha; Prathemesh, Madhuri Rathi, Nikhil N Jadhav;             | isolation/characterization and identification of endophytic bacteria by 16S rRNA partial sequencing technique from roots and leaves of Prosopis cineraria plant    | <i>Asian Journal of Plant Science and Research</i>      | 5: 335-346    | 2015 |           |              |
| 26 | Gupta, Rekha; Kedari, Ashwini;  | Comparative studies on phytochemical analysis, relative antioxidant potential and free radical scavenging activity from different parts of plant Tridax procumbens | <i>European Journal of Biotechnology and Bioscience</i> | 3:            | 2015 |           |              |
| 27 | K Alagarasu, T Honap, <b>AP Mulay</b> , RV Bachal, PS Shah, D Cecilia | Association of vitamin D receptor gene polymorphisms with clinical outcomes of dengue virus infection  | <i>Human immunology</i>                                 | 73: 1194-1199 | 2012 | 01988859  | <b>2.127</b> |
| 28 | K Alagarasu, T Honap, IM Damle, <b>AP Mulay</b> , PS Shah, D Cecilia  | Polymorphisms in the oligoadenylate synthetase gene cluster and its association with clinical outcomes of dengue virus infection                                   | <i>Infection, Genetics and Evolution</i>                | 14: 390-395   | 2013 | 1567-1348 | <b>2.26</b>  |
| 29 | K Alagarasu, <b>AP Mulay</b> , R Singh, VB Gavade, PS Shah, D Cecilia | Association of HLA-DRB1 and TNF genotypes with dengue hemorrhagic fever  | <i>Human immunology</i>                                 | 74: 610-617   | 2013 | 01988859  | <b>2.127</b> |

|    |  |   |  |               |      |           |              |
|----|--|---|--|---------------|------|-----------|--------------|
| 30 | Kalichamy Alagarasu, Indraneel M Damle, Rupali V Bachal, <b>Aditya P Mulay</b> , Paresh S Shah, Cecilia Dayaraj  | Association of promoter region polymorphisms of CD209 gene with clinical outcomes of dengue virus infection in Western India              | <i>Infection, Genetics and Evolution</i> | 17: 239-242   | 2013 | 1567-1348 | <b>2.26</b>  |
| 31 | K Alagarasu, <b>AP Mulay</b> , M Sarikhani, D Rashmika, PS Shah, D Cecilia   | Profile of human leukocyte antigen class I alleles in patients with dengue infection from Western India                                   | <i>Human immunology</i>                  | 74: 1624-1628 | 2013 | 01988859  | <b>2.127</b> |
| 32 | Jaydeep Sidhayee, Mandar Phatak, Shamik Banerjee, <b>Aditya Mulay</b> , Ojas Deshpande, Sourabh Bhide, Tressa Jacob, Ines Gehring, Christiane Nuesslein-Volhard, Mahendra Sonawane | Myosin Vb mediated plasma membrane homeostasis regulates peridermal cell size and maintains tissue homeostasis in the zebrafish epidermis | <i>PLoS Genet</i>                        | 10: e1004614  | 2014 | 1553-7404 | <b>7.528</b> |

|     |  |  |  |                    |            |           |              |
|-----|--|--|--|--------------------|------------|-----------|--------------|
| 33  | Monica Nagendran, Prateek Arora, Payal Gori, <b>Aditya Mulay</b> , Shinjini Ray, Tressa Jacob, Mahendra Sonawane | Canonical Wnt signalling regulates epithelial patterning by modulating levels of laminins in zebrafish appendages            | <i>Development</i>                         | 142: 320-330       | 2015       | 1477-9129 | <b>6.1</b>   |
| 34  | K Alagarasu, RV Bachal, H Tillu, <b>AP Mulay</b> , MB Kakade, PS Shah, D Cecilia                                 | Association of combinations of interleukin-10 and pro-inflammatory cytokine gene polymorphisms with dengue hemorrhagic fever | <i>Cytokine</i>                            | 74: 130-136        | 2015       | 10434666  | <b>2.940</b> |
| 35  | Shakera S. Inamdar   | Studies on monthly variations of biological parameters of ganesh pond, Pune, maharashtra                                     | Indian Streams Research Journal            | 3(3)               | 2013       | 2230-7850 | 0.21         |
| 36  | Shakera S. Inamdar   | Rhopaloceran Richness in Relation to Larval Host Plant from Pune   | Asian Journal of Multidisciplinary Studies | 4(3)               | 2016       | 2348-7186 | 1.4          |
| 37. | Ravindra V. Kshirsagar   | Ichthyofaunal Diversity of Manas Lake, Bhugaon, Pune   | Bionano Frontiers                          | 9 (1) 52-54        | 2016       | 0974-0678 | 4.8          |
| 38. | Sachin M. Gosavi   | Unique courtship and spawning behaviour in the wrinkled frog, <i>Nyctibatrachus humayuni</i>                                 | Amphibia-Reptilia                          | 32 (2011): 333-339 | 2011       | 0173-5373 | 1.4          |
| 39. | Sachin M. Gosavi   | Determining sensitive stages for learning to detect predators in larval bronzed frogs: Importance of alarm cues in learning  | Journal of Biosciences                     | 39(4), 701-710     | 2014       | 0250-5991 | 1.4          |
| 40. | Pradeep B. Kumkar  | <i>Badis britzi</i> , a new percomorph fish (Teleostei: Badidae) from the Western Ghats of India                             | ZOOTAXA                                    | 3941 (3): 429-436  | April 2015 | 1175-5326 | 0.99         |



|     |                   |   |   |                   |               |                 |       |
|-----|-------------------|---|---|-------------------|---------------|-----------------|-------|
| 41. | Pradeep B. Kumkar | <i>Balitora chipkali</i> , a new species of stone loach (Teleostei: Balitoridae) from the northern Western Ghats of India, with a note on the distribution of <i>B. laticauda</i> | ZOOTAXA   | 4138 (1): 155–170 | July 2016     | 1175-5326       | 0.99  |
| 42. | Pradeep B. Kumkar | Corrigendum: Redescription of <i>Nemachilichthys rueppelli</i> , a senior synonym of <i>N. shimogensis</i> (Teleostei: Nemacheilidae)   | ZOOTAXA   | 4111 (1): 100–100 | May 2016      | 1175-5326       | 0.99  |
| 43. | Pradeep B. Kumkar | Length-weight and length-length relationships of seven loach species (Teleostei: Cypriniformes) from five localities in northern Western Ghats, India                             | Journal of Threatened Taxa                          | 7(15): 8205-8220  | December 2015 | 0974-7893       | -     |
| 44. | Pradeep B. Kumkar | Redescription of <i>Nemachilichthys rueppelli</i> , a senior synonym of <i>N. Shimogensis</i> (Teleostei: Nemacheilidae)  | ZOOTAXA   | 4059 (3): 555–568 | December 2015 | 1175-5326       | 0.99  |
| 45. | Pradeep B. Kumkar | <i>Pethia sanjaymoluri</i> , a new species of barb (Teleostei: Cyprinidae) from the northern Western Ghats, India   | Journal of Fish Biology                             | 88, 2027–2050     | May 2016      | 1095-8649       | 1.246 |
| 46. | Dr. Sougata Ghosh | <i>Dioscorea oppositifolia</i> mediated synthesis of gold and silver nanoparticles with catalytic activity  | <i>Journal of Nanomedicine and Nanotechnology</i>   | 7:5               | 2016          | ISSN: 2157-7439 | 3.573 |
| 47. | Dr. Sougata Ghosh | <i>Barleria prionitis</i> leaf mediated synthesis of silver and gold nanocatalysts.   | <i>Journal of Nanomedicine and Nanotechnology</i>   | 7:4               | 2016          | ISSN: 2157-7439 | 3.573 |
| 48. | Dr. Sougata Ghosh | <i>Gloriosa superba</i> mediated synthesis of silver and gold nanoparticles for anticancer applications.  | <i>Journal of Nanomedicine and Nanotechnology</i> . | 7:4               | 2016          | ISSN: 2157-7439 | 3.573 |
| 49. | Dr. Sougata Ghosh | <i>Gnidia glauca</i> leaf and stem extract mediated synthesis of gold nanocatalysts with free radical scavenging potential.   | <i>Journal of Nanomedicine and Nanotechnology</i>   | 7:2               | 2016          | ISSN: 2157-7439 | 3.573 |

|     |           |  |                           |         |      |                 |       |
|-----|-----------|--|---------------------------|---------|------|-----------------|-------|
| 50. | Bhute S S | Hyperoxaluria leads to dysbiosis and drives selective enrichment of oxalate metabolizing bacterial species in recurrent kidney stone endures | <i>Scientific Reports</i> | 6:34712 | 2016 | ISSN: 2045-2322 | 5.228 |
|-----|-----------|--|---------------------------|---------|------|-----------------|-------|

**Table 3.4.3 .2: List of Books/ chapter in Books**

| Sr.no | Name of the Teacher(s) Author | Nature and Title   | Publication details   | ISBN no.                        |
|-------|-------------------------------|--|---|---------------------------------|
| 1     | Dr. A.H. Shinde               | Two Chapters in Economic Development & Planning T.Y.B.A G-3 Text book                    | 31/07/2015<br>Atharva Prakashan, Pune   | <b>ISBN: 978-93-83639-26-7</b>  |
| 2     | Dr. A.H. Shinde               | Two chapters in International Economics T.Y.B.Com. Text book                             | 31/07/2015<br>Atharva Prakashan, Pune   | <b>ISBN: 978-93-83639-27- 4</b> |
| 3     | Dr. S. Awalgaonkar            | ‘Bhave prayog ani patangachi dori-Eka prayougshil ani dhadasi lekhakache atmacharitra’.  | Vishakha Diwali Visheshank Issue 51, pp150-154  | -                               |
| 4     | Dr Sadhana Natu               | Title : Impact Assessment and Evaluation of Therapeutic Groups in Low Income Communities | Bapu Trust Seher Mental Health Project, published by Bapu Trust on Mind and Discourse, Pune , Sept 2016 | -                               |
| 5     | Mr. Mahendra Waghmare         | Atomic and Molecular Physics (Textbook – T.Y. B.Sc.)                                     |   | 978-93-5158-378-3               |
| 6     | Mr. Mahendra Waghmare         | Nuclear physics (Textbook – T.Y. B.Sc.)  |   | 978-93-5158-488-9               |
| 7     | Mr. Mahendra Waghmare         | Oscillations, Waves and Sound (Textbook – T.Y. B.Sc.)                                    |   | 978-93-5158-122-2               |

|    |   |  |   |                                  |
|----|---|--|---|----------------------------------|
| 8  | <b>Kumar V</b> , Shriram V, Hoque TS, Hasan MM, Burritt DJ, Hossain MA. | Glycinebetaine mediated abiotic oxidative-stress tolerance in plants: physiological and biochemical mechanisms. In: Sarwat M et al. (Eds.). <i>Stress Signaling in Plants: Genomics and Proteomics Perspective, Volume 2</i> | 2016. Springer International Publishing, Switzerland,     | DOI 10.1007/978-3-319-42183-4_5  |
| 9  | Wani SH, Sah SK, Shriram V, <b>Kumar V</b> . 2016.                      | Engineering Phytohormones for Abiotic Stress Tolerance in Crop Plants. In: Ahammed GJ, Yu J (Eds) <i>Plant hormones under challenging environmental factors</i> .  | Springer Science + Business Media, Dordrecht.             | DOI 10.1007/978-94-017-7758-2_10 |
| 10 | <b>Kumar V</b> , Sharma M, Khare T, Wani SH.                            | Impact of nanoparticles on oxidative stress and responsive antioxidative defense system of plants. In: Tripathi et al. (Eds.) <i>Nanomaterials in Plants, Algae and Micro-organism: Concepts and Controversies</i> .         | Elsevier (In Press)                                       | -                                |
| 11 | <b>Kumar V</b> , Khare T, Sharma M, Wani SH.                            | ROS induced signaling and gene-expression in crops under salinity stress. In: Khan IR (Ed.) <i>Reactive Oxygen Species and Antioxidant Systems: Role and Regulation under Abiotic Stress</i>                                 | Springer International Publishing, Switzerland (In Press) | -                                |

## CRITERION IV

### INFRASTRUCTURE AND LEARNING RESOURCES

#### 4.1 Physical Facilities

##### 4.1.2 Detail the facilities available for

- a) **Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, Laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.**

In order to give better facilities to staff and students Mathematics and language laboratories have been renovated. Geography, History, Sociology, Political science and Economics departments have also been renovated. Separate Research area has been created in the Physics laboratory.

To cope up with the newly started course Psychology laboratory was built up newly. The counseling cell run by the department has been given separate existence (area) within the department itself.

#### **Botanical garden**

Botany department has taken special efforts to rearrange the small botanical garden in the premises which enhances the beauty of campus. The garden is a center of attraction because of its beautiful layout and collection of different plants like medicinal, aromatic, ornamental, cacti, succulent and aquatics. Plants are well labeled with their botanical name and vernacular names in Marathi. Besides this some habitats have developed in the garden, including shade house, pond for aquatics, sand bed for cacti and succulents and small fernery. The plants are arranged in a garden according to their groups such as medicinal, aromatic, succulent, flowering, foliage etc. Along with angiosperms, ferns and gymnosperms are also blooming in the garden. The fresh plant material needed for practical are also cultivated in the garden.

Ferns present in garden are *Asplenium nidus*, *Nephrolepis biserrata*, *Polypodium punctatum*, *Pteris ensiformis* etc. *Zamia* sp., *Thuja biota*, *Cycas* sp., *Araucaria* sp., and *Cyperus* sp. are some notable taxa in gymnosperms. The important medicinal plant grown in garden are *Andrographis paniculata* (kiryata), *Bixa orellana* (Sendari), *Saraca asoca* (Sita Ashok), *Costus pictus*, *Adathoda vasica* (Adulsa), *Centella asiatica* (Bramhi), *Eclipta alba* (Bramhi), *Ocimum sanctum* etc.

Many species of Cacti are planted in ground and in pots. Some other noteworthy plants in garden are *Adenium*, *Azadirachta indica*, *Chlorophytum* sp., *Asparagus* sp., *Dracaena* sp., *Aloevera*, *Begonia*, *Coleus* sp., *Passiflora*.

A plant nursery is being developed where plant of Indian origin would be cultivated.

**Staff room :** Staff room of A building is renovated to accommodate increasing no of staff and also to generate better ambience.

- b) **Extra-curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills, yoga, health and hygiene etc.**

A pavilion has been built around the Basket Ball and Volley Ball courts. The NSS department has been shifted to new location.

**4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/ augmented and the amount spent during the last four years.**

| Sr. | Item                               | 2016-17     |
|-----|------------------------------------|-------------|
| 1   | Renovation of laboratories         | 19,67,228/- |
| 2   | Purchase of equipment and computer | 31,00,031/- |
|     | Total                              | 50,67,259/- |

**4.1.5 Give details on the residential facility and various provisions available within them:**

The college provides residential facilities to the staff and students depending on the demand and the availability.

Hostel Facility: A Solar Water Heater has been installed in the hostel. For providing safe drinking water, water purifier and water coolers are installed.

Mess facility is made available in the hostel.

The amount spent is as given below –

| Particulars                                    | Amount     |
|--|------------|
| Solar Water Heater                             | 8,37,620/- |
| Water Purifier, filter and Commercial RO plant | 81.300/-   |

**4.2 Library as a Learning Resource**

**4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.**

Some additional reading material has been added to the library

Books: Added during 1<sup>st</sup> April 2016 to 31<sup>st</sup> December 2016

Total Books: 701 Amount of Rs. 2,91,449/-

Orders Placed: 172 Amount of Rs. 1,25,248/-

Shelves: Added new shelves for increasing collection of book

Amount spent on Shelves Rs. 2,17,000/-

**4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?**

**Softwares added newly**

- **Koha Library Automation Software:** Installed new Koha open source software with international standards and advanced features for library automation. Web OPAC made available on our college website.
- **DSPACE Digital Library Software:** Installed Digital library software DSpace for managing digital resources of our library and creating Institutional Repository. We have initiated to upload and index the electronic documents in this software like

question papers, syllabus, audio books, CDs, DVDs, project reports and faculty publications

- **FEDGATE:** We have purchased FEDGATE single search engine for all library and online subscribed resources on a single platform. Readers will be able to access NLIST resources, library catalogue, Institutional repository and other open access databases through this search engine.
- **TURNITIN:** Plagiarism check software is made available to all readers of our college.

#### **Library automation**

**Computers:** Replaced 13 PCs with new PCs at UGC Network Resource Centre for providing E-Library facility to our students and staff.

#### **4.2.6 Give details of the specialized services provided by the library.**

The library is giving specialized service to render additional help in teaching learning process.

**Flipped Classroom:** Library has initiated a new flipped classroom for giving online education and training to our patrons using new educational open source software. Prepared online tutorials and videos for demonstration of how to access various electronic resources, OPAC and new audio visual resources available for reference purpose.

**Online Survey:** Conducted online survey of all readers and generated automatic report.

#### **4.3.1 IT Infrastructure**

##### **4.3.1 Give details on the computing facility available (hardware and software) at the institution. Number of computers with configuration (provide actual number with exact configuration of each available system)**

The data given below specifies the information about addition in computing facility made available to the various departments in the college. All these computers connected in LAN.

#### **1. Department wise distribution of computers**

| <b>Department / Office</b> | <b>No. of computers</b> |
|----------------------------|-------------------------|
| Computer Science           | 39                      |
| Botany                     | 01                      |
| Chemistry                  | 03                      |
| B.Voc.                     | 03                      |
| Biotechnology              | 15                      |
| Physics                    | 03                      |
| Microbiology               | 03                      |
| Library                    | 10                      |
| NSS                        | 01                      |
| Statistics                 | 04                      |
| Zoology                    | 04                      |
| Vice Principal cabin       | 03                      |
| Staff Room                 | 02                      |

|                        |            |
|------------------------|------------|
| Hostel                 | 01         |
| Office                 | 02         |
| Psychology             | 01         |
| Standby Arrangement    | 06         |
| <b>Total Computers</b> | <b>100</b> |

## 2. Computers with All in One facility

| Location                    | No. of Computers |
|-----------------------------|------------------|
| Principal's Cabin           | 01               |
| Registrar Cabin             | 01               |
| Server Room                 | 01               |
| Computer Science Department | 01               |
| Total                       | 04               |

### Computer System Configuration

- For Computers – No. 100  
CPU CORE I3, 41503.5 GHZ, M/B ASUS H81M-CS, RAM 4 GB DDR3, HDD 1 TB Segate Sata, Cabinet Circle, DVD R/W LG, Keyboard + Mouse Logitech MK200, Monitor 18.5' LED (Make Samsung)
- For all in One machines – No. 04  
Computers all in one -04  
Desktop all in one Lenovo - 4 no.s  
Lenovo AIO PC, Core i5/ 4GB RAM / 1TB HDD / 21.5''screen,  
Wireless keyboard and mouse /w 10,

#### 4.3.4 Provide details on the provision made in the annual budget for procurement, up-gradation, deployment and maintenance of the computers and their accessories in the institution.

| Provision made in the annual budget for 2015-16 |             |             |              |
|---|-------------|-------------|--------------|
| Purchase of Computers                           | Accessories | Maintenance | Up gradation |
| 5,00,000/-                                      | 1,71,275/-  | 31,36,872/- | 236637/-     |

#### Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

The college has taken initiative to use Flinnt, a social learning platform where learners can join courses provided by our institution. Students and teachers can communicate online for sharing learning experiences.

## CRITERION V : STUDENT SUPPORT AND PROGRESSION

- 5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

### Scholarship –

|  |                      |
|--|----------------------|
| Leela Poonawala's –                          | Rs. 60,000           |
| S.C Scholarship : 400 students               | Rs. 50,23,955        |
| S.C.Freeship : 87 students :                 | Rs.19,19,900         |
| S.T. Scholarship : 59 Students :             | Rs. 8,19,170         |
| S.T. Freeship : 28 Students :                | Rs. 3,70,270         |
| N.T.Scholarship : 138 Students :             | Rs. 8,24,470         |
| N.T.Freeship : 18 Students :                 | Rs. 2,04,820         |
| O.B.C. Scholarship : 112 Students :          | Rs. 3,05,755         |
| O.B.C Freeship : 28 Students :               | Rs.76,360            |
| Scholarship by Calsoft Pvt Ltd : 1 student : | Rs.15,000            |
| <b>Total Students 872</b>                    | <b>Rs. 96,19,700</b> |

- 5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

- As per SAKSHAM guidelines, rules and regulations of the Act is displayed on notice board and flex in the college campus.
- Legal actions for sexual harassments under the Act is highlighted on flex and notice board.

- 5.2.1 Provide the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

### Higher Education

|         |    |
|---------|----|
| UG-PG   | 44 |
| M.Phil. | 1  |
| PhD     | 4  |

- 5.3 Student Participation and Activities

- 5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

### Supplementary activities by NSS

| Sr. No. | Activity  |
|---------|---|
| 1.      | Rashtrapita Mahatama Gandhi Jayanti “ Swachha V Sundar Bharat Abhiyan”      |
| 2.      | Wahatuk Surksha Abhiyan “Nirdhar Wahatuk Shishticha’s Usankrut Punekaracha” |



|    |  |
|----|--|
| 3. | Shiv Charitrachya Chitrancha Kagdawaril Bhavya Pradrashan              |
| 4. | Tree Plantaion “Van Mahostav”  |
| 5. | Bhat Lagwad : Rice Plantation in Wadgaon Maval (Sategaon)              |
| 6. | Blood Donation Camp  |
| 7. | Chandrayan, Mangalyan and Beyond by Mr. Sureh Naik                     |
| 8. | A Lecture on Youth Empowerment by De. Keshawanad Swamy                 |
| 9. | Nirmalya : collection, sagraigation and project on Oraganic Fertiliser |

▪ **Supplementary activities by Other Departments**

| Sr. No. | Activity  |
|---------|---|
| 1.      | Lokmanya Tilak 95 <sup>th</sup> Death Anniversary on 1 August 2015    |
| 2       | Kranti Din on 9 <sup>th</sup> August 2016                             |
| 3       | HDFC (Historical documentary Film Club) at third Saturday Every Month |

**Sports Department**

- Organized Intercollegiate Basketball Competition for men.
- Arranged a programme on Yoga Day for Teaching and Non teaching staff.
- Organized a workshop in Career in Sports and Physical Education.

5.3.2 Furnish the details of major student achievements in co- curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

| Sr. No. | Activity   |
|---------|--|
| 1.      | Celebration of World Stastics Day  |
| 2.      | Sliver Jubilee Celebration Programme   |
| 3.      | In the presence of MLA Mrs. Supriys Sule Dr. Sougata Ghosh Presented his research work done on Medicinal Plant ‘KalLavi’ for Cancer Medicine |
| 4.      | Kranti Din – Rangoli Pradarshan on Shivcharitra by Mr. Vilas Chakwate  |
| 5.      | Akansha – College Magazine awarded 1 <sup>st</sup> Prize by Savitri Bai Phule Pune University  |
| 6       | Poster Competition by Banking Club : Problems faced by Senior Citizens and their solutions   |
| 7       | Soft Skill Management Workshop under skill development programme   |
| 8       | “ Manat” Programme on Journy of Manat, a book written by Mr. Achhut Godbole And Nilambari Joshi  |
| 9       | Flair : A wall Magazine : Inauguration by Mrs. Mita Banerjee   |
| 10      | Avishakar : A lecture series on Research competition organized by Savitri Bai Phule Pune University  |

|    |  |
|----|--|
| 11 | Staff Academy Programme : A lecture by Joint Director Mr. Vijay Narkhede on Healthy Atmosphere in staff room                                     |
| 12 | Modernites : Alumani Association organized Get together programme and cultural programme   |
| 13 | State Level Seminar on “ The role of ADvanced Sensors in the development of smart city” Jointly organized by QIP SPPU and Electronics Department |
| 14 | Inauguration of competitive cell guidance center   |
| 15 | World Food Day Celebration by B. Voc department  |
| 16 | Fishary Production and Management : One day seminar organized by Fishary Department and Economics Department                                     |
| 17 | Aashayghan : A staff cultural programme  |
| 18 | Poster and Quiz competition by Economics Department  |
| 19 | Trancending Cultural Boundaries : International Student exchage by English Department  |
| 20 | Pune International Literaaly Festival : visit by students & teacher of English department  |
| 21 | The merchant of Venis : Shekspears A flim  |
| 22 | What can I do with the English degree : by Limaye Sir  |
| 23 | Skill Based training For Modi script writing   |
| 24 | Skill Based Course on Taxonomy study of Entomofuna, & Applied Zoology  |
| 25 | Jidnyasa : Tarunai and Leakhanamagil Prerana : Guest Lecture by Dr. Ashutosh Jawdekar  |
| 26 | A workshop on Child Criminology: Social Issue by Sociology and Economics Department  |
| 27 | One day workshop on Child Abuse : with collaboration with Tathapi & Muskan NGO   |
| 28 | Career Scope in Zoology : A lecture series organized by Zoology Department   |
| 29 | Zoology Craft : Student competition on models and posters, organized by Zoology Department   |
| 30 | H D F & C : A documentary on Ancinet and Medival History organized by History Department   |
| 31 | Medical Checkup Programme of First year Students   |
| 32 | Summer Training Programme is organized by Mathematics Department under DBT   |
| 33 | Vedic Mathematics Skill development course under DBT   |
| 34 | Alumni meet of Mathematics Department  |
| 35 | Inaguration Programme for M.Sc Part I Computer Science Students organized by Computer Science Department   |
| 36 | Soft Skill Workshop for M.Sc and MCA Students organized by Computer Science Department   |
| 37 | Celebration of International Year of Light through poster and model competition by Physics department .also celebrated special physics           |

|     |   |
|-----|---|
|     | related event such as “Discovery of gravitational wave”   |
| 38  | Skill development program conducted by Physics department on “Repairing and maintenance of Electrical home Appliances”                          |
| 39  | Department of biotechnology conducted field visit for SY and T.Y. Biotech students  |
| 40. | Department of biotechnology conducted PTA meeting for F.Y.,S.Y and T.Y. Biotech students in August 2016   |
| 41  | 2 Guest lecture organized by Geography dept.( on Disaster Management by Prin. Anil Dandekar and ON Mangalyan by Dr. Suresh Naik Scientist ISRO) |
| 42  | 20 Geography students visit to Aditya Exhibition at Ghole Road conducted Jyotirvidya Sanstha, PUNE  |
| 43  | 4 Geography students participated in Aditya Quiz at PUNE  |
| 44  | Geography dept started “GEO- Movie Club” FOR STUDENTS EVERY WEEK.   |
| 45  | WORLD SUICIDE Prevention day By psychology  |
| 46  | Self confidence workshop for Marathi medium girls students  |
| 47  | Guest lecture conducted by physics dept. on life skill management for TYBSc students.   |
| 48  | Guest lecture conducted by BVoc. dept. on life skill management for TYBSc students.   |
| 49  | Guest lecture Attended by MSc-II Micro students. On “Journey of HiMedia” at Amphitheatre at Fergusson College, Pune.                            |
| 50  | Guest lecture Attended by MSc-I Micro students. On “Next Generation Sequencing” at MCC-NCCS, Pune.  |
| 51  | Guest lecture Attended by MSc-I Micro students. Dr. APJ Abdul Kalam on the occasion of Reading Inspiration day.                                 |
| 52  | Guest lecture conducted by micro dept. on Non parametric tests and its problem solving for MSc-I students.                                      |
| 53  | Visit organised by Micro dept.. at NCCS,pune.   |
| 54  | Visit organised by Micro dept. at PMC’s Sewage treatment plant, near Dr. Naidu hospital ,pune.  |
| 55  | A workshop on physicochemical and microbiological analysis of soil: by Microbiology Department  |
| 56  | A workshop on Biochemical techniques and instrumentation: by Microbiology Department  |
| 57  | A workshop on Research Induction program: by Microbiology Department  |
| 58  | Microbiology dept. PG students attended two day International symposium on Microbial Ecology and Systematic.                                    |
| 59  | Visit organised by Microbiology dept. at MCC-NCCS, Pune.  |

5.3.2 Furnish the details of major student achievements in co- curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

- 25 Students from Psychology department is pursuing training in Psychology in different organization i.e. Bapu Trust, Tathapi, Alochana, Karwak and Under the guidance of Mr. Bhushan Shukla, Psycharistics.
- 85 Students are enagaged in training with Vidya Sahakari Bank under the activity of Banking Club.
- 10 Students are taking training in Lees Beauty Centre and SPA under the guidance of Ms. Leena Khandekar.
- 2 Students of F.Y.B.Sc slelcted in summer internship progamme of NSSO Government of India Akurdi, Pune.
- Ms. Suchitra Pednekar Consolation Prize for elocucation competition at Chandraroop Dakle College, Ahmednagar & Dnyaneshwae College, Ahmednagar of Hstory Department
- Mr. Ajay Kumar Jadhav won 1<sup>st</sup> prize in inter collegiate debate competition organized by Psychology Department on the topic Gender Equality
- Mr. Sushant Thorawade cleared SET Exam in history in 2016
- Mr. Khushwant Sing Rajput cleared SET Exam in Commerce in 2016
- Vijay Gulumkar cleared CSIR NET –LS (AIR 15)
- Shrikant Sete cleared CSIR NET –LS (AIR 26)
- Ratna Pal cleared Chemiad Intercollege competitom in chemistry held by dept. of chemisty, SPPU, Pune and stood seventh rank overall and first in our college.
- MSc students of Chemistry department attended 3 days workshop on “Bridging the learning gap between chemistry and its applications” by science academy (INSA, NASI and IASC) at SP college.
- Sujata Hazare cleared SET Exam. May 2016
- Sacin Ubale Participation –NCC- state level-silver (3), 01 gold, All India vaury sainik trophy to Maharastra directorate.
- Harsh Kamble a student of TYBSC physics attended summer school in physics - 2016 titled” exploration towards physics “from 9<sup>th</sup> -20<sup>th</sup> may 2016 at dept. of Physics in SPPU, Pune.
- Vishal Satish Dighe won state level Elocation Competition from History Department.

## CRITERION VI : GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 Institutional Vision and Leadership

#### 6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

##### “New Vision Statement”

*Modern College of Arts, Science & Commerce, Ganeshkhind, shall aspire to establish itself as an institution of excellence thriving on the tri-pillars of inclusiveness, integrity and innovation. Equipped with advanced infrastructure and empowered with ingenious minds it shall seek to device customized curricula to meet the growing challenges in higher education. In doing so, the college will offer diverse communities with rich academic experience and open the gates of knowledge and research for all, through successful global partnerships.*

New courses started in 2016-17

Science: BCA

Skill Development Courses: A number of skill development courses have been introduced in the current year, as follows:

##### Arts Faculty

| Sr. No. | Course Name                          | Course Co-ordinator Name  | Course conducted by Dept. |
|---------|--------------------------------------|---------------------------|---------------------------|
| 1       | Basics of Business Communication     | Shampa Chakravorthy       | English                   |
| 2       | Marathi D.T.P.                       | Dr. Sanskriti Awalgaonkar | Marathi                   |
| 3       | Skills in Psycho Social Counselling  | Dr. Sadhana Natu          | Psychology                |
| 4       | Social Services and Welfare          | Dr. Jyoti Gagangras       | Sociology                 |
| 5       | Diversity Inequality & Public Policy | Dr. Jyoti Gagangras       | Sociology                 |
| 6       | Blogging and CMS                     | Prof. Sangeeta Dhamdhare  | Library                   |
| 7       | Travel and Tourism                   | Prof. Motial More         | Geography                 |
| 8       | Finishing School                     | Prof. Shampa Charavorthy  | English                   |

**Commerce Faculty:**

| <b>Sr. No.</b> | <b>Course Name</b>  | <b>Course Co-Ordinator Name</b> | <b>Course Conducted by Dept.</b> |
|----------------|---|---------------------------------|----------------------------------|
| 1              | Transformation Course                                     | Mrs. Sujata Dahiwal             | Commerce                         |
| 2              | Computerised Financial Accounting Programme (Tally ERP 9) | Prof. Moreshwar                 | Commerce                         |
| 3              | E-Filing of Income Tax Returns                            | Prof. Moreshwar                 | Commerce                         |
| 4              | Entrepreneurship Development Programme                    | Prof. Sujata Deshmukh           | Commerce                         |

**Science Faculty:**

| <b>Sr. No.</b> | <b>Course Name</b>                      | <b>Course Co-Ordinator Name</b> | <b>Course Conducted by Dept.</b> |
|----------------|---|---------------------------------|----------------------------------|
| 1              | Making Bakery Products                  | Ms. Dipali Tamhane              | Computer Science                 |
| 2              | Web Designing, Development and hoisting | Prof. Satish Ambike             | Computer Science                 |
| 3              | Computer Networks                       | Prof. Sapkal Kumod              | Computer Science                 |

| <b>Sr. No.</b> | <b>Course Name</b>  | <b>Course Co-Ordinator Name</b> | <b>Course Conducted by Dept.</b> |
|----------------|---|---------------------------------|----------------------------------|
| 1              | Applied Zoology and Biobusiness                             | Dr. Shakera Inamdar             | Zoology                          |
| 2              | Solar PV System Installation and Maintenance                | Prof. Vaishali Salunke          | Electronics                      |
| 3              | Printed Circuit Board Designing and Manufacturing           | Prof. Vaishali Salunke          | Electronics                      |
| 4              | Repairing and Maintenance of Electrical and Home Appliances | Prof. Abanave Chhaya            | Physics                          |
| 5              | Repair and Maintenance of Mobile Cell                       | Prof. Deepak S.Kumbhar          | Electronics                      |

| Sr. No. | Course Name  | Course Co-Ordinator Name                | Course Conducted by Dept. |
|---------|--|---|---------------------------|
| 6       | Quality Control in Laboratories and Industries               | Prof. Gauri Bhagat                      | Microbiology              |
| 7       | Mathematical Modelling in Life Sciences                      | Prof. Swati Kandharkar                  | Mathematics               |
| 8       | Use of Scilab Software                                       | Prof. Shamal Deshmukh                   | Mathematics               |
| 9       | C-Programming  | Prof. Jayashree Jain                    | Mathematics               |
| 10      | Vedic Mathematics  | Prof. Pratiba Pawar                     | Mathematics               |
| 11      | Recent Trends in Biological Techniques                       | Dr. Shakera Inamdar                     | Zoology                   |
| 12      | Archeology and Organic Evolution                             | Prof. Varsha Joshi, Dr. Shakera Inamdar | Physics And Zoology       |
| 13      | Diversity and Taxonomy with special reference to Entomofauna | Dr. Shakera Inamdar                     | Zoology                   |
| 14      | Research Methodology and Scientific Communication Skills     | Dr. Ravinda Kshirsagar                  | Zoology                   |
| 15      | Natural Products Biotechnology                               | Dr. Vinay Kumar                         | Biotechnology             |

## 6.2 Strategy Development and Deployment

### 6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

The college has applied for starting new courses in M.A. (Psychology). Besides, the university committees have already visited the college for Post-Graduate Research Centers in Biotechnology and Chemistry subjects, and the result is awaited. The college has applied to Government of India and Government of Maharashtra to grant the permission for the following Skill Development courses

1. Travel and Tourism Executive
2. Banking and Accounting Associate
3. Food Processing and Preservation
4. Integrated Course on Beauty, Culture and Hair-dressing
5. Repair and Maintenance of Domestic Electronic Appliances

### 6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

A number of resolutions were made by the Progressive Education Society, Pune, and some of them are as follows:

- Resolution No. 104 – 105, regarding closure of MCA (Science) course.
- Resolution No. 106, regarding advance sanctioned to Peon working at the college
- Resolution No. 107, regarding granting of lien to a teaching faculty member of the college
- Resolution No. 210, dated 19/08/2016, regarding concession of fees provided to economically weaker student, a Kin of Shishu Vidya Mandir, Ganeshkhind, Pune.
- Resolution No. 3, dated 12/10/2016, regarding submitting the proposal to Savitribai Phule Pune University for starting a new course- M.A. (Psychology)
- Resolution No. 4, dated 12/10/2016, regarding submitting the proposal to Savitribai Phule Pune University for starting a new course- B.Sc. (Hospitality).
- Resolution for starting the process for applying for Autonomy

### **6.3 Faculty Empowerment Strategies**

#### **6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?**

Various lectures/interactive sessions and training programs have been organized by the college, details are as follows:

1. Inaugural Speech for Staff Academy Program for the year by Dr. Vijay Narkhede, Joint Director, Higher Education, Government of Maharashtra, themed on 'Challenges in Higher Education and New University Act' on September 17, 2016.
2. 'Vanmahotsav' a tree plantation program organized at Modern College of Agricultural Biotechnology, Hadshi, Pune, from July 01 to 07, 2016.
3. 'Ashayghan' a Cultural Program for the staff, organized on October 14, 2016.
4. Guidance Lecture on 'Preparing for NAAC Re-Accreditation- 3<sup>rd</sup> Cycle' by Dr. Ganesh Hegde, Deputy Advisor, NAAC, Bangalore.
5. A guidance lecture on 'Preparing for NAAC Re-Accreditation- 3<sup>rd</sup> Cycle' by Dr. Shirish Chindhade.
6. An interactive session on 'Preparing for NAAC Re-Accreditation' by Dr. R. S. Pardeshi, Principal Fergusson College, Pune and Dr. Sameer Terdalkar, Asst. Professor, Department of Zoology, Fergusson College, Pune.
7. A guidance lecture on 'Preparing for NAAC Re-Accreditation- 3<sup>rd</sup> Cycle' by Dr. Snehal Agnihotri, Principal Dr. D. Y. Patil College, Pimpri, Pune.

#### **6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?**

**Few more Adjunct/Visiting Professors have been appointed, as follows:**

Dr. R. M. Devarumath  
Scientist,  
Molecular Biology and Gene Expression Division,  
Vasantdada Sugar Institute, Pune



Dr. Bharat Bhushan  
Dean (Academic)  
Professor, Environmental Planning  
Yashwantrao Chavan Academy of Development Administration, Pune

Dr. Bashir Khan  
Former Scientist  
Biochemical Sciences Division  
CSIR-NCL, Pune

Dr. Madhura Vipra  
Director, Athena Consulting,  
Pune

Dr. S. G. Deshpande  
Former Scientist,  
Entomology Section,  
CSIR-NCL, Pune

#### **6.4 Financial Management and Resource Mobilization**

##### **6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.**

*Audited Statements of Expenditure (2015-16) is attached as Annexure.*

##### **6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).**

Research Projects sanctioned in the year 2016-17  
The details are as follows

##### **Extra mural Research Projects:**

| <b>S. No.</b> | <b>Name of the Funding Agency</b>     | <b>Amount sanctioned (Rs.)</b> |
|---------------|---------------------------------------|--------------------------------|
| 1.            | BCUD-S.P.P.U. research projects (Two) | 4,30,000                       |

#### **6.5 Internal Quality Assurance System (IQAS)**

##### **6.5.1 Internal Quality Assurance Cell (IQAC)**

##### **b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?**

A number of decisions and recommendations of the college IQAC have been given due consideration by the management and been approved such as:

- To initiate the process of starting a new course M.A. (Psychology)
- To invite University Committees for visiting the college for approving the Post-

Graduate Research Centers in Biotechnology and Chemistry subjects, and the result is awaited. Subsequently, the committees have visited the college and the results are awaited.

- To apply and contest for the '11<sup>th</sup> State Level Energy Conservation Award' of the Maharashtra Energy Development Agency (MEDA), Government of Maharashtra for excellence in clean energy generation and energy efficiency. Subsequently the college has been awarded 'First Prize'.

**6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.**

Various lectures/interactive sessions and training programs have been organized by the college, details are as follows:

1. Guidance Lecture on 'Preparing for NAAC Re-Accreditation- 3<sup>rd</sup> Cycle' by Dr. Ganesh Hegde, Deputy Advisor, NAAC, Bangalore.
2. A guidance lecture on 'Preparing for NAAC Re-Accreditation- 3<sup>rd</sup> Cycle' by Dr. Shirish Chindhade.
3. An interactive session on 'Preparing for NAAC Re-Accreditation' by Dr. Sameer Terdalkar, Asst. Professor, Department of Zoology, Fergusson College, Pune.
4. A guidance lecture on 'Preparing for NAAC Re-Accreditation- 3<sup>rd</sup> Cycle' by Dr. Snehal Agnihotri, Principal Dr. D. Y. Patil College, Pimpri, Pune.

## CRIETERION VII INNOVATIVE AND BEST PRACTICES

### 7.1 Environmental Consciousness

#### 7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

The College conducts a Green Audit in its campus. The IQAC of the college conducts meetings regularly wherein the experts give valuable inputs towards environmental consciousness. Our college has a dedicated committee for Environment, Safety and Health. This committee conducts various activities with the help of the Post Graduate students. So far it has conducted the following activities:

**Water Testing:** College has expertise of water potability testing. Water samples are collected and potability of drinking water provided through cooler and provided in canteen is tested on the basis of BIS (Bureau of Indian Standards) by the Microbiology Department on regular basis.

#### 7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

Various activities under NSS and Staff academy were carried out to make the campus eco friendly. College Campus Cleanliness Drive was conducted by NSS ON 12<sup>th</sup> Sept 2016.

Through these activities we educate and sensitize the youth towards making the campus eco-friendly. As a token of appreciation an award is given to a student who for presenting the Best Environment Awareness project.

- A. Energy Conservation :** Recently the College has received First prize in 11<sup>th</sup> State Level Energy Conservation Competition organized by MEDA (Maharashtra Energy Development Authority) under Educational Institutional category
- B. Use of Renewable Energy:** The College has 'Solar Wind Hybrid Power Generation Plant' that generates 13 KW energy daily. Guests from three institutions have visited this project to learn about the benefits of this plant.
- C. Water Harvesting:** The College is getting sufficient consumable water supply from Pune Municipal Corporation. The college has a rain water harvesting plant in the campus.
- D. Tree Plantation:** Botany Department has renovated the Botanical Garden in the college campus. A tree plantation drive was conducted by the Staff academy of the college during the "Vasundhara Week" at Agricultural Biotechnology College of our parent Institution Various Saplings were planted during this drive.  
On the occasion of Silver Jubilee Year of the college, the representative of first batch of our Alumni planted sapling in the college campus during Vasundhara Week.
- E. Hazardous Waste Management-** Science departments have systematic mechanism of management of waste chemicals and other laboratory materials. The college has continued a contract with **Pasco Environmental Solutions** for safe disposal of hazardous chemicals and Bio hazardous waste. College has taken an initiative of recovery of solvents from used solvent waste. The college has installed '**Effluent Water Treatment Plant**' for treating waste water of chemistry, Biotechnology and Microbiology departments of our college.

**F. e-Waste Management:**

The college has signed MoU with Kuldeep E-Scrap Material ( Regd No : BO/Ro(HQ) HW/ E-Waste/Collection Center/2016/k/B-557) an authorized vendor of Maharashtra Pollution Control Board and declared as authorized E-Waste Collection Center in India. Electronics Department will be coordinating the activities related to E-Waste collection in the College campus as well as from residential colonies.

E-waste collection drive was conducted by the Department of Electronics during the month of October 2016 for Staff and students of the college. Also the E-waste of Electronics (Total 123 Kgs) and Computer department (307 Kgs) was collected and given to above mentioned agency during September to November 2016. College has received Green Certification from this agency.



**e-waste collection drive by Department of Electronics in the College Campus**

**e-waste and Plastic Waste Collection Drive at Ovalnest Housing Society Warje**

**Date: 22<sup>nd</sup> and 23<sup>rd</sup> October 2016**

An e-waste and Plastic waste collection drive was conducted by the M.Com Students of the college at Ovalnest Co-op. Housing Society on 22<sup>nd</sup> and 23<sup>rd</sup> October 2016. On the first day, the students went to every Flat of every building and created awareness about the effects of E-Waste on the environment through various charts. They explained the importance of this drive and collected the Electronic from every flat from six buildings (About 250 Flats) of the Society. On the second day once again the students visited the Flats and collected the E-waste. Two teachers from the college monitored the activity. The e-Waste was handed over to the E-waste Management.



Certification received by the college for E-waste Collection Drive

### Kuldeep e-scrap Materials”



e-waste and Plastic Waste Collection drive at Ovalnest Hsg. Society, Pune.

- F. Ultra Modern sanitation facility:** Renovation of the Staff room and the Sanitation area with ultramodern facility.
- G. Other** – This year 2,000 kg Nirmayla is collected and converted into compost in collaboration with Chatushrungi Trust during Navratri Festival at *Chatushrungi* Temple. College has Baction compost (Green waste management plant).

The College has signed an Mou with **Rudra Environmental Solutions,Pune** for appropriate management of Plastic waste. English Department will coordinate the collection of Plastic waste in the college campus and from various residential colonies. As a part of this activity, the students from the college had a plastic waste awareness and collection drive at a residential society, “Ovalnest” at Warje, Pune, during 22<sup>nd</sup> and 23<sup>rd</sup> October 2016. Around 50kg plastic waste was collected during this drive.

## 7.2 Innovation and Best Practices

**We have continued the following innovative platform in achieving institutional objectives.**

### 1. Anubhuti

A Science exhibition and competition exhibiting Projects and posters made by our students of Science stream was held on 17<sup>th</sup> December 2016. In this event 496 students participated and 100 projects and Posters on Green Technology were displayed.

### 2. Vividhaa

A theme of “Clean and Green India” was planned with the activities like

- Open forum with successful alumni on the occasion of Silver Jubilee Year. The forum included alumni from army, some are well-known entrepreneurs, researcher, Social workers and Artist (Tabala)
- Street plays : on Cashless India and Smart city
- Modern Chef Recipe competition for all stakeholders.:  
Theme : Dishes made with Green vegetables & fruits
- Walk for a cause of Clean India and poster making competition.

### 3. Banking Club

- 85 students of T.Y.B.Com completed Hands on training at 12 branches of Vidya Sahakari Bank.
- Students have supported Bankers and customers during demonetization of currency.
- Insurance Connect to make the students aware about importance of insurance and career opportunities.
- In association with Financial Literacy Foundation Club has conducted banking literacy campaigns at village, Lawarde and to spread the message of cash less economy.
- Campus Bank Connect for Class IV of our college.
- The students of club has participated in ‘Senior Citizen Banking Model Designing’ poster competition.

### 4. Flair

#### List of Flair Issues (2016-17)

| Sr. No. | Title of the magazine  | Expert             |
|---------|------------------------|--------------------|
| 1.      | Life Ethics and Morals | Mrs. Mita Banergee |

**5. Disha****Issue of Kaleidoscope (2016-17)**

| Theme   | Experts   |
|---|---|
| Celebrating 100 years of Psychology in India. | Dr. Manisha Gupte, Researcher and health activist, Founder of the gender and health research organization MASUM |

**6. Cost Fest:** Poster & Model Competition & Paper Presentation related to Costing.**7. Jidnyasa****List of Themes of Jidnyasa (2016-17)**

| Theme  |             |
|--|-------------|
| “Motivation behind creative writing”<br>By Dr. Ashutosh Javadekar, author, music composer singer | August 2016 |

**8. Interaction:** Intercollegiate Competition Held by Computer Science Dept. on 2<sup>nd</sup> to 4<sup>th</sup> Jan 2016 which includes different competitions like Modern Top Coder, Poster Competition, 1 Min Mobile Clip, Project Competition, Quiz Competition, Group Discussion.**9. Image Building :** (Transformation) 11 Female students participated in a course of Health and Beauty enhancement conducted by Mrs. Leena Khandekar from Lee's Beauty Institute, during 8<sup>th</sup>-22<sup>nd</sup> November 2016.**10. Aashayaghan :** Ashayghan was celebrated on 14<sup>th</sup> October 2016. 20 participants participated.**11. Yuva Saptaha:**

| Events  | Duration   |
|---|--|
| Poetry reading, Elocution, Handwriting, Mehendi, Short film, English Caption contest, Rangoli, Poster competition, How Dramatic are you? (English), Mastermind Quiz (Psychology), Salad decoration and Bouquet making, Kaun Banega History Scholar (History Department), What's The Good Word? (English Department) | 27 <sup>th</sup> December 2016<br>To 12 <sup>th</sup> January 2017 |

**1. Skill Development Courses****List of Skill Development Courses (2016-17)**

| Sr. No. | Department | Course details  |
|---------|------------|---|
| 1.      | Commerce   | Transformation  |
| 2.      | Commerce   | Computerized financial Accounting Program (Tally ERP) |
| 3.      | Physics    | Repairing & Maintenance of Electrical Home Appliances |

2. **Agro to Campus:** New round after demonetization started from 30<sup>th</sup> December 2016.
3. **Insurance Connect** One day workshop was conducted on 3<sup>rd</sup> December 2016, to make the students aware about the importance of Insurance in their life and linked to Pradhanmantri Jeevan Suraksha Yojana. The students are spreading the message in the society about various micro insurance policies.
4. **Odyssey Transcending Cultural Boundaries Exchange Program** for International and North east students by English Department.



## Evaluative reports of the Departments

### Department of Economics

#### 1. Quiz Competition on 31/08/2016 : INDIAN ECONOMY

Quiz Competition was conducted by the department on 31/08/2016 on the Topic-Indian Economy. There were 99 participants from both Arts and Commerce faculty. The result is as follows :

| Prize  | Name of the Student    | Class      | Marks |
|--------|------------------------|------------|-------|
| First  | Saurab Mali            | T.Y.B.A.   | 18    |
| Second | Dandge Prashant Eknath | T.Y.B.Com. | 17    |
| Third  | Hange Deepak Bhagwat   | F.Y.B.A.   | 16    |

#### 2. One Day Workshop on 07/10/2016: FISHERY PRODUCTION AND MANAGEMENT

As a part of the **Silver Jubilee celebrations** of the College, the Department of Economics in association with the **Marathi Arthashastra Parishad** organized a ‘Dr. Sudha Mokashi’ awarded -one day workshop on **“Fishery Production and Management”** on Friday, **7<sup>th</sup> October 2016**. There were about 110 participants including staff and students. The **Inaugural address** was given by **Dr. Shivaji Bhosale, Chairman Marathi Arthashastra Parishad**. He spoke about the opportunities today’s youth have in getting self employed in the field of Fish Production. He talked about government’s policy regarding fish cultivation. The other dignitaries also gave their views during the session. The guest included Prof. Dr. Avinash Nikam, Chief Editor, Arthasanvad, Prof. Suresh Todkar, Joint Secretary, PES, Shivajinagar, Pune and Dr. D.V. Jahagirdar, Former Chairman Marathi Arthashastra Parishad. Dr. Sanjay Kharat, Principal and Mr. Dastagir Pathan gave the welcome address.

The resource person for the **First Session** was **Mr. Vijay Shikre, Joint-Director, Matsya Utpadan Kendra, Hadapsar, Pune**. He spoke about his expertise on the various types of fish and its production. Mr. Shikre gave his views on fishery exports and the nutritional value of consuming fish. He also spoke on the significance of fish for controlling various diseases like Cancer, Diabetics and Cardiac problems.

In the **Second Session**, **Dr. Sanjay Kharat, Principal** of the college spoke on **“Security and Safety of Fresh Water Fish”**. He gave his expert opinion on how and why the fish in the fresh waters in India are becoming lesser in number due the polluting environment.

Due the increasing industrial waste being dumped into the rivers makes it injurious for these aquatic lives. Some of the species of have become extinct. According to Dr. Kharat, using the freely available natural resources without damaging the environment will help in increasing the fish production and thereby employment in fisheries.

**Dr. Jyoti Gagangras, Vice-Principal Arts, Mr. Dastagir Pathan, the coordinator and Head, Department of Economics** and Mr. Motilal More, from Department of Geography gave their whole hearted support for organizing the program. The organizing team included Mr. Namdev Doke, Dr. Abaso Shinde, Mr. Nitesh Gujarati, Mr. B. G. Sawaishikre and Mrs. Shilly John, the staff from the Economics Department. The student volunteers who gave their full support included Mr. Prashant Walke, Ms. Shraddha Talekar and Ms. Rupali Chavan from post graduate course. The **anchor for the program was Mr. B. G. Sawaishikre** and the **vote of thanks was given by Dr. Abaso Shinde**.

### 3. Survey:

#### **SOCIO-ECONOMIC SURVEY OF THE FLORIST NEAR CHATUSHRUNGI TEMPLE DURING NAVRATRI FESTIVAL**

The departments of Sociology and Economics conducted a combined study of the florist near the Chatushrungi Temple about their socio-economic parameters during the Navratri festival in October 2016. The survey was carried out by two teachers each from the two departments and 15 students from the undergraduate course (B.A.). A questionnaire consisting of 20 questions was used to collect the information from the florists. The students got the questionnaires filled from the respondents. To get the social information, questions like personal information, religion, caste, education, language, food etc. was included. They were asked about the behavior of their customers, police etc. to know about the kind of social acceptance they receive. For the economic aspect, their income, bank account etc. was asked. The respondents were also asked about their available documents for identity like Aadhar card, voter's i-card etc. Data was collected from 17 respondents (florists).

With no proper education, housing facility or poor health issues and with a meager income, they mainly fall into the low income group. As per the survey, they have to face various socio-economic problems. These problems can be solved to some extent by following suggestions:

1. The government should provide permanent housing facility for the florists staying in Pune and with a proper shop for selling flowers.
2. Adequate measures should be taken to provide information regarding the market to these florists.
3. Florists having seasonal business, and those who come during the festival for trade should be provided with temporary accommodation.
4. They should be given proper facility for food.
5. Should be given adequate health facilities and proper sanitation.
6. Police and the customers should try to understand their problems and cooperate with these poor florists.

The florists near Chatushrungi Temple, on S. B. Road, Pune face various socio-economic problems. These poor self employed florists earn a very low amount to fulfill their daily needs. Only with school education without any other vocational training, during off-season they find it difficult to meet their ends. They also have to face difficulties from the police, customers and the neighbors. With proper measures taken by the local authorities, their conditions can be improved.

### **Department of Geography**

- **Geography Movie Club** started on every Wednesdays in Geography Department on various geographical and educational topics.
- Lecture of **Dr. Suresh Naik** (Scientist, ISRO), on Mangalyaan2 and Chandrayaan2.
- Lecture of **Prin. Anil Dandekar**, on Disaster Management- Tsunami.
- Visit to the **Astronomy Exhibition** in Nehru Auditorium organized by Jyotirvidya Sanstha.
- Participation of Four Students from FYBA class- Dhruv, Kaushal Varma, Ravi Kumar, Shubham Burade in **Aditya Intercollegiate Quiz Competition** organized by Jyotirvidya Sanstha.
- **GPS Survey** at Javan Village, near Hadshi (Tal- Mulshi) on 29<sup>th</sup>, 30<sup>th</sup> December 2016.
- **Sky-Watch Workshop** at Javan Village (Tal- Mulshi) sponsored by Students Welfare Board of Pune University. Participation of 115 students from 15 different colleges on 30<sup>th</sup> December 2016.
- **National Seminar and Geo-Jatra** on 31 Dec 2016, An intercollegiate competition of Essay, Poster, Model and Quiz with cash prizes. This Seminar and Competition was Sponsored by B.C. Vaidya Foundation. The seminar was attended by 175 students and 40 teachers from other colleges.
- **Pune to Goa Cycling** by Dr. Sanjay Patil, Dr. Deepak Shendkar and Mr. Namdeo Doke for Environmental awareness among students to curb fuel consumption and to promote cycling for clean environment in between 3 to 6 Nov 2016.

### Department of History

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:  
**‘Modi’ script course in collaboration with Deccan College, Pune**

10. Faculty profile with name, qualification, designation, specialization.

| Name          | Qualification                 | Designation     | No. of Years of Experience |
|---------------|-------------------------------|-----------------|----------------------------|
| Sneha Gaikwad | MA, Bed, M.Phil. (Registered) | Asst. Professor | 6 months                   |

19. Publications:

- a) Publication per faculty : Number of papers published in peer reviewed journals (national / international) by faculty and students

| Name of the faculty        | International | National | State |
|----------------------------|---------------|----------|-------|
| Prof. Shruti Bhatkhande    |               | 01       |       |
| Prof. Dr. Meenakshi Tiwari |               | 01       |       |

| Name of the faculty     | National   |
|-------------------------|--|
| Prof. Shruti Bhatkhande | Lal Bahadur Shastri Mahavidyalaya and Satara Itihas Parishad organized one day seminar on 9 <sup>th</sup> Oct., 2016 on Quit India movement- contribution of Aruna Asaf Ali and Suchitra Kriplani. |

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme

| Academic year | Title of Project                     | Total no. of Students participated | Percentage of completion of project |
|---------------|--------------------------------------|------------------------------------|-------------------------------------|
| 2016-17       | Historical survey of Lavarde village | 50                                 | 100%                                |

23. Awards / Recognitions received by students **Faculty:**

| Year    | Name of the Student | Award/Recognition  |
|---------|---------------------|--|
| 2016-17 | Ajay Kumar jadhav   | won 1 <sup>st</sup> prize in debate competition on topic Gender equality organized by Dept of Psychology |
| 2016-17 | Suchitra Penekar    | Won Elocution competition  |

## 26. Student profile programme/course wise:

Postgraduate Course: M.A.

| Name of the Course/<br>programme | Academic Year | Admissions in MA-I | MA-II Students' Strength | Enrolled |    | Pass percentage |
|----------------------------------|---------------|--------------------|--------------------------|----------|----|-----------------|
|                                  |               |                    |                          | *M       | *F |                 |
| M.A.                             | 2015-16       | 36                 | 29                       | 24       | 05 |                 |

\*M = Male \*F = Female

## 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

| Category | Number of students | Name of the student | Year of passing |
|----------|--------------------|---------------------|-----------------|
| SET      | 01                 | Sushant Thorawade   | 2016            |

## 32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

**Study Tour:**

| Academic year | Places visited   |
|---------------|--|
| 2016-17       | <ul style="list-style-type: none"> <li>• Kelkar Museum</li> <li>• Deccan College Museum</li> </ul> |

## Department of Languages

**4. Names of Interdisciplinary courses and the departments/units involved:**

English is being taught to students of BCA under Science faculty from 2016-17

**5. Annual/semester/choice based credit system (program wise):**

Semester Pattern (English) : B.C.A (Science Faculty)

**10. Faculty profile with name, qualification, designation, specialization:**

| Name           | Qualification | Designation     | Experience |
|----------------|---------------|-----------------|------------|
| Jitender Kumar | M.A. NET      | Assistant Prof. | 6 months   |

**11. List of senior visiting faculty:**

| Sr. No. | Visiting Faculty         | Designation   |
|---------|--------------------------|---|
| 1       | Dr. Shirish Sahasrabudhe | Director, ELTIS-SIFIL   |
| 2       | Mrs. Mita Banerjee       | Former Director, Rosary Institute of Media and Mass Communication, Pune |
| 3       | Dr. Amol Shinde, IRS     | Asst. Registrar of Companies, Pune                                      |
| 4       | Dr. Atul Patil           | Asst. Professor and Faculty In Charge, College of Engineering, Pune     |
| 5       | Mr. Sunil Patil          | Corporate Trainer   |

**17. Publications:**

Publication per faculty:

**Dr. Sanskruti Awalgaonkar:**

1. Bhav Prayog ani Patangachi Dori -Eka prayogshil v Dhadsa Prakashkache Atamcharitra,-VISHAKHA Diwali Ank2016.
2. Stree-Purush Tulana -Ek Samajik Dataveg,AKSHAR VANGMAY Oct-Nov-Dec 2016 ISSN-2229-4929

**21. Awards/Recognitions received by faculty and students:**

- Jitender Kumar qualified NET in November 2016

24. **Seminars/Conferences/Workshops organized & the source of funding:** One Day Workshop on “College to Corporate” organized by Department of English on 27<sup>th</sup> December 2016 (Self Funded)

28. **Details on student enrichment programs with external experts:**  
Students of Second and Third Year Special English attended the “**Industry Academia Meet**” at Modern College, Shivajinagar, Pune on 8<sup>th</sup> December 2016

| Sr. No. | Activity  | Objective   | Need  | Outcome   |
|---------|---|---|---|---|
| 1       | FLAIR- THE WALL MAGAZINE (Life, Ethics and Morals)                  | To create a platform for students to showcase their creativity and talent | Promote research aptitude                                 | Familiarization with contemporary issues<br>Writing skills improvement                    |
| 2.      | ODYSSEY-In House Publication (English Dept.)                        | To encourage research aptitude amongst students                           | To expose students to research activity                   | Creative and insightful writing   |
| 3       | English Corner  | To take Classroom to Campus   | Reach out to all students on the campus                   | Learning English grammar and usage  |
| 4       | Spoken English  | To enhance LSRW skills  | Need for enhancement of employability                     | Confidence building and ability to converse in English                                    |
| 5       | Guest Lecture (What can I do with an English Degree?)               | To give exposure about emerging trends in English Lang. and Lit.          | Awareness of career opportunities and academic programs   | Better informed about the importance and efficacy of English                              |
| 6       | Educational Visits (Visit to Crossword, Book Store) (Visit to PILF) | To promote interest among students in art and culture                     | Tap creative skills                                       | Enhanced creativity and ability to appreciate   |
| 7       | Film Screening (William Shakespeare’s Merchant of Venice)           | To enhance better understanding and appreciation of prescribed texts      | Need for critical analysis of prescribed texts            | Improvement in thinking, writing and critically appreciating the texts                    |
| 8       | Intercollegiate Essay writing Competition                           | To increase language skills and to reach to the students in rural areas   | Need for writing critically on diverse and current topics | Improvement in writing and critical thinking and participation of students in rural areas |
| 9       | ‘Lekhan Jidnyasa’   | To create a platform for  | Interdisciplinary exposure                                | Active participation and  |



|     |   |  |   |  |
|-----|---|--|---|--|
|     |   | students to develop curiosity  |   | team work  |
| 10. | <b>Transcending Cultural Boundaries</b> | To promote multiculturalism  | To establish harmonious environment in the campus among international and local students. | Awareness about international and local cultures.                |
| 11. | <b>MoU with Keshavsita</b>              | To spread awareness on healthy segregation and management of plastic waste | Need to familiarize people with the toxic impact of plastic waste                         | Plastic Waste management drive in Oval Nest Society, Warje, Pune |
| 12  | KavyaVachan Spardha- YuvaSaptah         | To spread awareness on healthy segregation and management of plastic waste | Need to familiarize people with the toxic impact of plastic waste                         | Plastic Waste management drive in Oval Nest Society, Warje, Pune |
| 13  | Vakrutav Spardha                        | To spread awareness on healthy segregation and management of plastic waste | Need to familiarize people with the toxic impact of plastic waste                         | Plastic Waste management drive in Oval Nest Society, Warje, Pune |

29. **Teaching methods adopted to improve student learning:**

| Presentation  | Film Screening                                      | Word Power Games                             |
|---|---|--|
| <b>Creative Writing based on Wordsworth's Daffodils</b> | <b>William Shakespeare's THE MERCHANT OF VENICE</b> | <b>Word association game Chinese whisper</b> |

30. **Participation in Institutional Social Responsibility (ISR) and Extension activities:**

**MoU with Keshavsita** - *To spread awareness on healthy segregation and management of plastic waste. Plastic Waste management drive in Oval Nest Society, Warje, Pune*

**Best Practices:**

- English Help Centre in order to address queries of students and staff related to English
- Continuous coordination with students through Whats App Groups
- Interdisciplinary students centric activities

### **Road Map for Next Five Years**

- To introduce a Certificate Course in Foreign Languages
- To start an English Help Centre in order to address queries of students and staff related to English
- Enhance collaboration and linkages for student internship programs

## Department of Political Science

- **Names of Interdisciplinary courses and the departments/units involved**

Invited Lectures: (Interdisciplinary/Use of ICT)

1. Worked as a subject expert for the development of e-Content programmes in 'Office Management and Secretarial Practice' domain. This is a project of Ministry of Human Resource Development of Government of India for National Mission on Education through Information and Communication Technology (NME-ICT) initiative. Delivered lectures on
  - a. Introduction to Institutional Functioning : Parliament, Prime Minister and Judiciary
  - b. Power Structures in India : Caste, Class and Gender
2. Worked as Subject Co-ordinator for four lectures.
  - a. Introduction to Institutional Functioning : Parliament, Prime Minister and Judiciary
  - b. Power Structures in India : Caste, Class and Gender
  - c. Secularism
  - d. Parties and Party System in India

- **Publications:**

Book Review 'Critical Analysis of Social Dominance' of the book by Prof. Gopal Guru in Marathi fortnightly, '*Pariwartanacha Watsaru*' ISSN 2250-3145 dtd. 1 to 15 August 2016, pp 51-55

- **Areas of consultancy and income generated:**

Prepared a background note on 'Politics and Political Economy of Urban Planning' for V M Dandekar Memorial Seminar (National) organized by Indian School of Political Economy during 16 & 17 December 2016 at Pune. Central Theme of the seminar was 'Urban Planning in India : Emerging Issues and Challenges'.

**Income generated** : Rs. 10,000/-

- **Details on student enrichment programmes with external experts:**

**Jidnyasa (Curiosity)** : an interdisciplinary platform for students from Arts and Commerce, having different theme for 2016 : '*Lekhan Jidnyasa*' : Motivation for creative writing. Dr. Ashutosh Javadekar, Dentist, Author, Music Composer, Singer and Critique unveiled his journey as an author and interacted with students on his diverse interests. Inaugurated wall magazines prepared by students on the theme on 10 August, 2016.

- **Participation in Institutional Social Responsibility (ISR) and Extension activities :**  
Writers for visually impaired students for MA examination of Department of Politics & Public Administration, SPPU

- **Recognition :**

Member, Board of Studies in Political Science, Center for Talent Search and Excellence, Ness Wadia College, Pune.

## Department of Psychology

1. Name of the department: Department of Psychology

6. Participation of the department in the courses offered by other departments:

|    |                                 |            |             |
|----|---------------------------------|------------|-------------|
| i  | Study Skills for Dept of B.Voc. | 23/09/2016 | 50 students |
| ii | Life Skills for Dept of Physics | 21/09/2016 | 15 students |

7. Courses in collaboration with other universities, industries, foreign institutions, etc. Conducted:

|   |                 |   |   |
|---|-----------------|---|---|
| 1 | Dr Sadhana Natu | International – Pan University Network in Global Health. Attended a Research workshop and worked out a collaborative international research proposal. | SPPU and University of Pennsylvania , USA                                       |
| 2 | Dr Sadhana Natu | An Interdisciplinary workshop for PhD Students of Sociology and Psychology  | Department of Sociology SPPU  |
| 3 | Dr Sadhana Natu | Presentation about Disha Peer support and speak out group   | University of Massachusetts, Amherst, USA group at Women's Studies Centre, SPPU |
| 4 | Dr Sadhana Natu | Testing and Review Expert for new E book  | McGraw Hill International Publishers  |

11. List of senior visiting faculty:

- A. Dr. Manisha Gupte: Co- founder MASUM
- B. Dr. Medha Kumthekar: Former HOD SNDT University
- C. Varsha Pingale: Psychologist and Researcher
- D. Kahelee Shinde : Psychologist

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

**Dr. Sadhana Natu**

| Nature of the Project          | Duration Year From- To | Title of the project   | Name of the funding agency | Total grant |          | Total Grant received till date |
|--------------------------------|------------------------|--|----------------------------|-------------|----------|--------------------------------|
|                                |                        |  |                            | Sanctioned  | Received |                                |
| Minor project And Consul tancy | May 2016 to Sept 2016  | Impact Assessment and Evaluation of Therapeutic Groups in Low Income Communities- Bapu Trust Seher Mental Health Project | Forbes Marshal l CSR       | 1,25,000    | 1,25,000 | Same                           |

19. Publications:

| Sr. No. | Name of the Teacher(s) Author        | Title of the Paper  | Name of the journal                            | Volume & Pages             | Year of publica- tion | ISBN/ ISSN No.                            | Impact factor  |
|---------|--------------------------------------|---|--|----------------------------|-----------------------|---|--|
| 1       | Smita Kulkarni and Dr Sadhana Natu   | The Study of Government's Efforts of Psycho-socio-political Empowerment of Women in the Panchayat Raj Institution: Document Analysis Approach | IOSR Journal of Humanities and Social Sciences | Vol 21, issue 10, Pp 27-31 | 2016                  | ISSN: 2279-0845                           | 1.607  |
| 2       | Silvia Fernandes and Dr Sadhana Natu | Internet Addiction: Can CBT help?   | International journal of Indian Psychology     | Vol 4, Issue 1 No 76,      | 2016                  | ISSN 2348-5396<br>ISBN: 978-93-86162-13-7 | Info base Index India 3.3 Research bible 5.1, Global impact factor 0.5 |
| 3       | Silvia Fernandes and Dr Sadhana Natu | Internet Addiction : A Focus group discussion approach  | IOSR Journal of Humanities and Social Sciences | Vol 21, Issue 10, pp 19-23 | 2016                  | ISSN: 2279-0845.                          | 1.607  |

|    |                                     |  |   |                       |      |                        |   |
|----|-------------------------------------|--|---|-----------------------|------|------------------------|---|
| 4  | Dr Sadhana Natu                     | Impact Assessment and Evaluation of Therapeutic Groups in Low Income Communities- Bapu Trust Seher Mental Health Project | Published by Bapu Trust on Mind and Discourse     | Pgs 50                | 2016 | -                      | - |
| 5  | Dr Sadhana Natu                     | Youth Suicides in Purandar Taluka, Pune District; an exploratory Study   | Published by MASUM, Pune                          | Pgs 50                | 2015 | ISBN 978 93 81352 06 9 | - |
| 6  | Dr Sadhana Natu                     | Youth and Mental Health : Urban, Rural and Fringe Realities  | Conference proceedings Siddhivinyak College, Pune | -                     | 2015 | ISBN 978 81 931444 0 4 | - |
| 7  | Dr Sadhana Natu                     | College Mental health : The Disha Experience   | Medico Friends Circle Bulletin                    | Vol 365-66, Pgs 10-13 | 2015 | -                      |   |
| 8  | Shivani Vani and Dr Sadhana Natu    | Caught in the Web : Matrimonial websites and their complexities  | Mindscape : Research Compendium                   | Vol I                 | 2016 |                        |   |
| 9  | Shivani Vani and Dr Sadhana Natu    | Conflict and Terrorism in the contemporary world   | Mindscape : Research Compendium                   | Vol I                 | 2016 |                        |   |
| 10 | Sonika Sharma and Dr Sadhana Natu   | Marriage partner : suitability and selection   | Mindscape : Research Compendium                   | Vol I                 | 2016 |                        |   |
| 11 | Sonika Sharma and Dr Sadhana Natu   | Kashmir Conflict : A psycho social enquiry   | Mindscape : Research Compendium                   | Vol I                 | 2016 |                        |   |
| 12 | Prithvi Bhushan and Dr Sadhana Natu | Micro Expressions : A psychological enquiry into the concept and its applications  | Mindscape : Research Compendium                   | Vol I                 | 2016 |                        |   |

|    |                                       |   |                                 |  |  |  |  |
|----|---------------------------------------|---|---------------------------------|--|--|--|--|
| 13 | Hemant Raghunauth and Dr Sadhana Natu | To marry or not to marry : A multi-cultural perspective | Mindscape : Research Compendium |  |  |  |  |
|----|---------------------------------------|---|---------------------------------|--|--|--|--|

## 20. Areas of consultancy and income generated :

| Nature of the Project          | Duration Year From-To | Title of the project   | Name of the funding agency | Total grant |           | Total Grant received till date |
|--------------------------------|-----------------------|--|----------------------------|-------------|-----------|--------------------------------|
|                                |                       |  |                            | Sanc-tioned | Recei-ved |                                |
| Minor project And Consul-tancy | May 2016 to Sept 2016 | Impact Assessment and Evaluation of Therapeutic Groups in Low Income Communities- Bapu Trust Seher Mental Health Project | Forbes Marshall CSR        | 1,25,000    | 1,25,000  | Same                           |

## 23. Awards / Recognitions received by faculty and students

- Dr. Sadhana Natu- Special Invitee for Pan University Network in Global Health and International Collaborative Meet by SPPU.
- Dr. Sadhana Natu was Resource Person for various workshops at State, National and International level.

**Students' Achievements****Table 1: Student participation in scientific events**

| Sr. No.   | Name of the students | Name of the event                                | State/ National / Inter-national | Prize/ Medal Won |
|---|----------------------|--|----------------------------------|------------------|
| <b>International conference 2016-17 Poster presentation</b> |                      |  |                                  |                  |
| 1   | Sonika Sharma        | INTAR  | International                    |                  |
| 2   | Shivani Vani         | INTAR  | International                    |                  |
| <b>National Conference 2016-17 Poster presentation</b>      |                      |  |                                  |                  |
| 1   | Shivani Vani         | National Academy of Psychology Annual Conference | National                         |                  |
| 2   | Sonika Sharma        |  | National                         |                  |
| 3   | Pritvi Bhushan       |  | National                         |                  |
| 4   | Lavina Johnson       |  | National                         |                  |

## 24. List of eminent academicians and scientists /visitors to the department

1. Mr. Achyut Godbole, renowned Marathi Author
2. Ms. Neelambari Joshi, author.
3. Dr. Manisha Gupte: Co founder MASUM
4. Dr. Medha Kumthekar: Former HOD SNDT University
5. Varsha Pingale: Psychologist and Researcher

6. Kaheele Shinde : Psychologist

25. Seminars/ Conferences/ Workshops organized & the source of funding

| Sr. No | Title   | Date       | No of Participants.                       |
|--------|---|------------|---|
| 1      | For Faculty- Learning and Learner Centered Teaching | 21/10/2016 | 10 assistant professors from Arts Faculty |
| 2      | For Students - Goal Setting Workshop                | 07/09/2016 | 30 students                               |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services etc.?

- **Sachin Shinde** is completing his PhD at London School of Tropical Medicine.
- **Harshada Naik** has completed a Diploma in Global Mental Health Law.

32. Details on student enrichment programmes (special lectures/ workshops/ seminar)

1. Release of the Disha In house magazine Kaleidoscope Volume IX on the topic '100 years of psychology in India'- An annual magazine of the Disha Student Study Circle, Kaleidoscope encourages students to make an attempt to putting their thoughts in writing and laying down the basic for research writing. 19 December 2016
2. PSY - WORLD- The activity of the Department of Psychology involves activities like handwriting analysis, drawing analysis and presentations on topics like Military Psychology, Forensic Psychology and so on. This activity helps to build micro and macro skills of students. Learning occurs by doing. It helps students make the connection from theory to applications. Students learn event management skills, presentation skills and are a part of the process from idea to product. 20 December 2016. This year we had 375 footfalls for this event.

33. Teaching methods adopted to improve student learning:

- Introduced students to various online resources like American Psychological Sciences Wikipedia Initiative.
- Students are going to be facilitated in making an information brochure about courses after PG and UG for Science students.

34. Paper Presentation

| Sr. No | Name of Staff    | Level         | Details   |
|--------|------------------|---------------|---|
|        | Dr. Sadhana Natu | International | Chaired International Symposium Titled Gender and Sexuality Challenges and possibilities in the developing world at International Conference of Psychology, Japan. July 2016      |
| 2      | Dr. Sadhana Natu | International | Discussant in International Symposium in Indian Psychology need for critical perspective and discursive practices.' International Conference of Psychology (ICP), Japan July 2016 |
| 3      | Dr. Sadhana      | International | Interdisciplinary Research in Mental Health at Pan  |



|   |                  |  |  |
|---|------------------|--|--|
|   | Natu             |  | University Network in Global Health and International Collaborative Meet by SPPU (PUNG) September 2016 |
| 4 | Dr. Sadhana Natu | International  | INTAR Peer Support Group and Youth Mental Health- Disha Experience. November 2016                      |
| 5 | Dr. Sadhana Natu | National Chaired Symposium                                     | NAOP: Teaching Psychology Critical Perspectives National Symposium.IIT Madras , December 2016          |
| 6 | Dr. Sadhana Natu | Chaired Paper Reading Session                                  | NAOP 2016 at IIT Madras , December 2016  |
| 7 | Dr. Sadhana Natu | Resource Person for Pre conference Workshop                    | NAOP 2016 at IIT Madras , December 2016 on Qualitative Methodology                                     |
| 8 | Dr. Sadhana Natu | Resource Person for Psychology Education and Training Workshop | NAOP 2016 at IIT Madras , December 2016, Syllabus at National level on Social Psychology               |

Faculty Invited as resource person: Dr. Sadhana Natu was invited as resource person at the following:

1. MASUM – Meaning of Counseling and need for Feminist Counseling, July 2016
2. BAPU Trust National Dissemination- Youth and Mental Health in the context of sustainable development, May 2016
3. Modern Law College- How to initiate a counseling cell, youth and mental health. August 2016
4. Abeda Inamdar College and Bapu trust- Experience of running peer support and speak out groups. August 2016
5. Vidyarthathani manch- ‘Anti Sexual harassment- Legalities and Psychosocial Realities’ at College
6. National Consultation on Anti Sexual Harassment organized by Women’s Studies SPPU. Invited as Core group expert.
7. Department of Sociology SPPU- Need for Multi-disciplinarity for Masters Students.

Activities related with Gender Sensitization/Activities for Health.

1. Gender Champions Club and Department of Psychology organized a Debate conducted on the Topic ‘Gender Equality has already been established in India’. Dr. Mansi Palshekar author, activist and Gender studies expert was invited to Chair the debate.
2. Dr. Sadhana Natu was a resource person to conduct a workshop on the topic ‘Anti Sexual harassment’ for Vidyathani Manch.
3. National Consultation on Anti Sexual Harassment organized by Women’s Studies SPPU. Invited as Core group expert.
4. Workshop on Self Confidence taken by Disha coordinators for Marathi medium girls.

5. World Suicide Prevention Drive: Students conducted a drive in the college campus to spread awareness about the Prevention of Suicide

### Any other Information

Internship opportunity KOSHISH was offered to students at UG level with the view to :

- Provide exposure to students
- Provide a bird's eye view of practices in the field
- Perspective building for everyday practices in psychosocial and people centered work

| Number of Students | Name of Org           | Nature of task   | Remuneration | Duration              |
|--------------------|-----------------------|--|--------------|-----------------------|
| 03                 | Bapu Trust            | Conducting Interviews for Evaluation for Seher Project                     | Paid         | One month (May 2016)  |
| 04                 | Bapu Trust            | Baseline survey for the Bapu Trust   | Paid         | One month (June 2016) |
| 05                 | Bapu Trust            | Conducting Corner meetings, client observations, observing group meetings  | -            | 15 days               |
| 04                 | Stri Mukti Sangathana | Poster making, Visiting schools, visiting the basti to perform street play | -            | 15 days               |
| 05                 | Karwack               | Conducting a survey with Parents of hobby classes                          | -            | 10 days               |
| 02                 | Alochana              | Transcriptions, field visits, collaborating articles.                      | -            | 15 days               |
| 05                 | Dr. Bhooshan Shukla   | Observing and making case histories  | -            | 10 days               |

### Department of Sociology

1. Courses in collaboration with other universities, industries, foreign institutions

| Sr. No. | NGO / INDUSTRY | Nature of Course.                  |
|---------|----------------|------------------------------------|
| 01      | Lokayat        | Film Screening on Various Issues   |
| 02      | Tathapi        | Domestic Violence & Various Issues |

2. Number of papers published in peer reviewed journals (national / international / district) by faculty and students –

| FACULTY NAME        | RESEARCH PAPER   | JOURNAL / CONFERENCE   | YEAR                              |
|---------------------|--|--|-----------------------------------|
| Dr. Jyoti Gagangras | Role Of Women In Administration  | Sociology of gender (Poona College)                          | Dec 2016 (ISBN 978-93-24457-20-7) |
|                     | Traditional Education Through New Technology, Syllabus Designers Perspective.                              | 'Dnyanmay', Research Journal, Progressive Education Society. | Dec 2016                          |
|                     | Comparative Study Of Women Administrators And Entrepreneurs In Pune District- A Socio Economic Perspective | Indian Sociological Society, Research Journal                | Nov 2016                          |

- 3 Student Projects

- A) Percentage of students who have done In-house projects including inter departmental / Programme

| ACADEMIC YEAR | TITLE  | TOTAL NUMBER OF STUDENTS                            | STUDENTS DONE PROJECT |
|---------------|--|---|-----------------------|
| 2016-17       | Socio-Economic Survey of 'Florist at Chatushruni Temple, During Navaratri' | Conducted by Department of Sociology and Economics. | 25                    |

4. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts.

| YEAR    | TITLE                            | EXPERTEE           | DURATION AND DATE | LEVEL                |
|---------|----------------------------------|--------------------|-------------------|----------------------|
| 2015-16 | Poster Competition               |                    | Sep 2016          | FOR UG & PG students |
|         | Child Abuse Awareness Workshop   |                    | Oct 2016          |                      |
|         | Film Screening.                  | Abhivyakti-Lokayat | 24 Dec 2016       |                      |
|         | Street-Play on “Women-Foeticide” | Tathapi            | 07 Jan 2017       |                      |
|         | Street-Play on “Smart-City”      |                    |                   |                      |

5. **CONTRIBUTION TO SOCIAL CAUSE :**

| NAME                 | WORK  | YEAR     |
|----------------------|---|----------|
| Dr. Jyoti Gagangras. | Provided Funds to ‘One Book One Smile’ organization, PUNE. (Rs/- 1000)                  | Oct 2016 |
|                      | Provided Funds for Students Scholarship, Modern College, Ganeshkhind, Pune. (Rs/- 1000) | 2016     |

6. **Recognition**

- Ph D Guide for Sociology by S.P. Pune University

7. **Proposed Activities :**

- State level Seminar on ‘Social and Cultural Transformation through Ages’ jointly with Department of History in association with BCUD, S.P. Pune University
- One day Soft skill Workshop jointly organized with Board for Students’ Welfare, S.P. Pune University

### Department of Biotechnology

#### 6. Participation of the department in the courses offered by other departments:

| Title of the Course     | Topics/Subjects        | Name of the faculty members |
|-------------------------|------------------------|-----------------------------|
| B.Voc (Food Processing) | Teaching and Practical | Mr. Tushar Khare            |

#### 7. Courses in collaboration with other universities, industries, foreign institutions

- Workshop on “Bacterial Identification based on 16s r RNA and rpo beta gene” for M.Sc. students in collaboration with ATG Labs on 5<sup>th</sup> -6<sup>th</sup> Aug 2011.
- Workshop on carrier advancement technique for B.Sc and M.Sc students in collaboration with Pacemakerz, Pune, 13-15<sup>th</sup> Feb 2014.

#### 10. Faculty profile with name, qualification, designation, specialization 2016-2017

| Name                 | Qualification            | Designation                  | Specialization       | No. of Years of Experience |
|----------------------|--------------------------|------------------------------|----------------------|----------------------------|
| Dr. Rekha Gupta      | Ph.D. Botany             | Head and Associate Professor | Plant Biotechnology  | 23-R<br>20-T               |
| Mrs. V. Randive      | M.Sc Microbiology, SET   | Assistant Professor          | Microbiology         | 11-T<br>4-R                |
| Mr. Aditya Mulay     | M.Sc. Biotechnology, NET | Assistant Professor          | Animal Biotechnology | 5-R                        |
| Mr. Omkar Indari     | M.Sc. Biotechnology, NET | Assistant Professor          | Biotechnology        | -                          |
| Mr. Tushar Khare     | M.Sc. Biotechnology      | Assistant Professor          | Biotechnology        | 1-T<br>4-R                 |
| Mrs. Ankita Pasalkar | M.Sc. Biotechnology      | Assistant Professor          | Biotechnology        | -                          |
| Mrs. Mayuri Gosavi   | M.Sc Computer Science    | Assistant Professor          | Computer Science     | 1-T<br>3- Industry         |

T: Teaching; R: Research

#### 13. Student -Teacher Ratio (programme wise)

| Course | Number of students | Number of teachers | Student -Teacher Ratio |
|--------|--------------------|--------------------|------------------------|
| B.Sc.  | 170                | 08                 | 22:1                   |
| M.Sc.  | 45                 | 04                 | 12:1                   |

**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled**

Lab Assistant: 01  
 Lab Attendant: 00  
 Peon: 03

**15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

NET/SET: 07

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received****Details of Extra-Mural Research Projects:**

| Sr. No. | Name of the investigators PI and CO-I | Title of the project   | Funding agency        | Total amount sanctioned in Rs. | Duration of project |
|---------|---------------------------------------|--|-----------------------|--------------------------------|---------------------|
| 1.      | Dr. Vinay Kumar                       | Elicitation of diosgenin production in <i>Helicteres isora</i> suspension cultures | S. P. Pune University | 2,40,000                       | 2016-2018           |

**18. Research Centre /facility recognized by the University**

University committee visited the department. The result is awaited.

**19. Publications: Publications in last FIVE years**

| Name of the Faculty | Articles in peer-reviewed indexed journals |          | Books with ISBN | Book Chapters with ISBN | Proceedings | Total Publications | Total Impact Factor | Total Citations | h-index | SJR  |
|---------------------|--|----------|-----------------|-------------------------|-------------|--------------------|---------------------|-----------------|---------|------|
|                     | International                              | National |                 |                         |             |                    |                     |                 |         |      |
| Dr. Rekha Gupta     | 04   | -        | -               | --                      | --          | 04                 | 8.78                | 87              | 4       | --   |
| Mr. Tushar Khare    | 06   | --       | --              | 01                      | --          | 06                 | 9.5                 | 10              | 02      | --   |
| Mr. Aditya Mulay    | 08   | --       | --              | --                      | 01          | 08                 | 21.088              | 80              | 06      | 18.4 |

*Total Citations Courtesy: Google Scholar™*

**List of Faculty Publications :**

| S. No. | Name of the authors  | Title of the article   | Name of the Journal   | Vol No. | Page No. | Year | DOI (if any)                 | ISSN No. of journal | Impact Factor |
|--------|--|--|---|---------|----------|------|------------------------------|---------------------|---------------|
| 1      | Shriram, V., Kumar, V., Devarumath, R., Khare, T.S. and Wani, S.H.       | MicroRNAs as potential targets for abiotic stress tolerance in plants  | <i>Frontiers in Plant Science</i>   | 7       | 817      | 2016 | doi.10.3389/fpls.2016.00817  | 1664-462X           | <b>4.45</b>   |
| 2      | Wani SH, Kumar V, Shriram V, Sah SK..                                    | Phytohormones and their metabolic engineering for abiotic stress tolerance in crop plants.   | <i>The Crop Journal</i>   | 4       | 162-176  | 2016 | doi:10.1016/j.cj.2016.01.010 | 2214-5141           | -             |
| 3      | Ashwini C Makhale , Parikshit A Bhamburkar, Rekha Gupta, Aditi Deshpande | Isolation of alkalophilic protease producing bacteria from soil and optimization of parameters for protease activity   | <i>Asian Journal of Microbiology , Biotechnology and Environmental Sciences</i> | 13(2)   | 371-376  | 2011 |                              | 0972-3005           | <b>0.676</b>  |
| 4      | Gupta, Rekha; Prathemesh, Madhuri Rath, Nikhil N Jadhav;                 | isolation/characterization and identification of endophytic bacteria by 16S rRNA partial sequencing technique from roots and leaves of Prosopis cineraria plant    | <i>Asian Journal of Plant Science and Research</i>                              | 5       | 335-346  | 2015 |                              | 2249-7412           | <b>1.5</b>    |
| 5      | Gupta, Rekha; Kedari, Ashwini;   | Comparative studies on phytochemical analysis, relative antioxidant potential and free radical scavenging activity from different parts of plant Tridax procumbens | <i>European Journal of Biotechnology and Bioscience</i>                         | 3       | 11-19    | 2015 |                              | 2321-9122           | <b>5.4</b>    |

|   |                             |  |  |   |  |      |                      |           |      |
|---|-----------------------------|--|--|---|--|------|----------------------|-----------|------|
| 6 | Ashwini Kedari, Rekha Gupta | Evaluation of hemostatic and antimicrobial ability of different parts of plant <i>Tridax procumbens</i> with phytochemical screening | <i>International Journal of Plant, Animal and Environmental Sciences</i> | 6 |  | 2016 | DOI: 10.21276/Ijpaes | 2231-4490 | 1.21 |
|---|-----------------------------|--|--|---|--|------|----------------------|-----------|------|

**21. Faculty as members in****a) National committees**

**Dr. Geeta Morwal** - Member Advisory board of Vocational courses, S P Pune University.

**b) Editorial / Reviewer Boards:**

**Mr. Tushar Khare** - **Member, Reviewer Board:** Reviewer of the Journal: *Archives of Agronomy and Soil Science* (Taylor and Francis, UK).

**25. Seminars/ Conferences/Workshops organized & the source of funding:**

- Summer Training on “Gene Isolation and amplification” for TY BSc students, 20-25<sup>th</sup> June 2016, under DBT Star College scheme.
- Research Induction Program for Life Sciences Post-Graduate students, 6-7<sup>th</sup> September 2016, under DST-FIST Program.

**26. Student profile programme/course wise:**

| Name of the Course/programme | Applications received | Selected | Enrolled |    | Pass percentage |
|------------------------------|-----------------------|----------|----------|----|-----------------|
|                              |                       |          | *M       | *F |                 |
| FY BSc (16-17)               | 120                   | 80       | 32       | 48 | ND              |
| MSc Part I (16-17)           | 100                   | 23       | 5        | 18 | ND              |

\*M = Male \*F = Female; ND: Result not yet declared

**27. Diversity of Students**

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|--------------------|-----------------------------------|---------------------------------|---------------------------|
| FY BSc (16-17)     | 96                                | 04                              | 0                         |
| MSc Part I (16-17) | 94                                | 06                              | 0                         |

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**  
NET-1, SET - 1**31. Number of students receiving financial assistance from college, university, government or other agencies**

- **Leela Poonawala Foundation Fellowship for Post-Graduate girl students**
  1. Ayushi Mokati (2016-17)
- **DBT-BCIL (Biotech Consortium India Limited, DBT, New Delhi) (2016-17)**
  1. Manish Gidwani



2. Snehal Paigude
  3. Prajakta Pednekar
  4. Kunal Agarwal
  5. Akshay More
- **UGC Single Girl Fellowship for post-graduation (2016-17)**
    1. Gouri Jadhav

**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts**

**1. Certificate course (duration 3 months)**

- A certificate course in Skill development on “Natural Product Biotechnology” for MSc students (from 23-12-2016) for enriching their curriculum and employability.

**2. Extra curricular scientific activities**

- A scientific movie with interactive session was organized for both graduate and post graduate students on 21-12-2016 to increase awareness about general health, immunity and viral outbreaks.
- A scientific Quiz competition was organized in the Department for BSc and MSc students on 24-12-2016 to promote communication, presentation skills and knowledge acquisition from various fields of Biological sciences.
- Science exhibition organized on 17.12.16: Students of B.Sc., M.Sc. participated.

**Guest lecture**

| S. No | Topic of the lecture  | Speaker<br>(Guest Faculty)   | Date       |
|-------|---|--|------------|
| 1     | Career opportunities in the field of Stem cells & Drug discovery technology | Graham T Dempsey<br>Director, Research & Development, Q State Biosciences, USA | 21-12-2016 |

## Department of B.Voc.

1. Names of programmes/ courses offered:

### Levels of Awards

The certification levels will lead to Diploma/Advanced Diploma/B. Voc. Degree in one or more vocational areas and will be offered under the aegis of the University.

| Sr. No. | Level | Programmes offered (Multiple exits) for under graduate level                   |
|---------|-------|--|
| 1.      | UG    | First year B.Voc. Food Processing Technology ( <b>Diploma</b> )                |
|         |       | Second Year B.Voc. Food Processing Technology ( <b>Advanced Diploma</b> )      |
|         |       | Third Year B.Voc. Food Processing Technology ( <b>Bachelor of Vocational</b> ) |
| 2.      | UG    | First year B.Voc. Green House Technology ( <b>Diploma</b> )                    |
|         |       | Second Year B.Voc. Green House Technology ( <b>Advanced Diploma</b> )          |
|         |       | Third Year B.Voc. Green House Technology ( <b>Bachelor of Vocational</b> )     |

| Sr. No. | Award            | Duration | Corresponding NSQF level |
|---------|------------------|----------|--------------------------|
| 1       | Diploma          | 1 Year   | 5                        |
| 2       | Advanced Diploma | 2 Year   | 6                        |
| 3       | B.Voc. Degree    | 3 Year   | 7                        |

### B.Voc. affiliated to Savitribai Phule Pune University, Pune.

2. Names of Interdisciplinary courses and Departments/ Units involved: **Yes**

- a) Department of Biotechnology
- b) Department of Botany
- c) Department of Political Science
- d) Department of English
- e) Department of Computer Science
- f) Department of Microbiology
- g) Department of Statistic
- h) Department of Commerce

5. Annual/Semester/Choice based credit system (Program wise):

### Semester (Credit System)

| Sr. No. | Level | Programmes offered                      | Annual/ Semester/ Choice based Credit system |
|---------|-------|---|--|
| 1.      | UG    | F.Y.B. Voc. Food Processing Technology  | Semester, Credit system                      |
|         |       | S.Y.B. Voc. Food Processing Technology  |  |
|         |       | T.Y. B. Voc. Food Processing Technology |  |
| 2.      | UG    | F.Y. B. Voc. Green House Technology     | Semester, Credit system                      |
|         |       | S.Y. B. Voc. Green House Technology     |  |
|         |       | T.Y. B. Voc. Green House Technology     |  |

6. Participation of the department in the course offered by other departments: **Yes**
7. Number of teaching posts sanctioned, filled and actual:

| Position                     | Sanctioned | Filled |
|------------------------------|------------|--------|
| Professor                    | -          | -      |
| Associate Professors         | 1          | -      |
| Asst. Professors             | 2          | 5      |
| Others Dept (Ad-hoc faculty) | -          | 4      |
| Clock Hour Basis             | -          | 1      |

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

**List of faculty (2016-2017)**

| Sr. no. | Name              | Qualification | Designation         | Special Subject                | Exp. Years |
|---------|-------------------|---------------|---------------------|--------------------------------|------------|
| 1       | Shweta Raichurkar | M.Tech. NET   | Assistant Professor | Food Science & Technology      | 3          |
| 2       | Shraddha Velhal   | M.Tech.       | Assistant Professor | Process & Food Engg.           | 3          |
| 3       | Akshata Devi      | M.Tech. NET   | Assistant Professor | Food Science & Technology      | 1          |
| 4       | Mrunal Pardeshi   | M.Sc.         | Assistant Professor | Biotechnology                  | 0.5        |
| 5       | Neeta Patil       | M.Tech.       | Assistant Professor | Food & Fermentation Technology | -          |
| 6       | Madhura Kirane    | M.Com.        | CHB                 | Commerce                       | 2          |

12. Percentage of classes taken by temporary faculty – programme-wise information

| 2016-2017 Food processing Technology |              | % of Classes by Ad-hoc |     | % of Classes by C.H.B |   | % of Classes by Permanent faculty |   |
|--------------------------------------|--------------|------------------------|-----|-----------------------|---|-----------------------------------|---|
| 1                                    | F. Y. B.Voc. | 100                    | 100 | -                     | - | -                                 | - |
| 2                                    | S. Y. B.Voc. | 100                    | 100 | -                     | - | -                                 | - |
| 3                                    | T.Y.B.Voc.   | 80                     | 100 | 20                    | - | -                                 | - |

13. Programme-wise Student Teacher Ratio

| Sr. No. | Subject                                       | Strength | Faculty |           | Student : Teacher Ratio |           |
|---------|---|----------|---------|-----------|-------------------------|-----------|
|         |   |          | Theory  | Practical | Theory                  | Practical |
|         | 2016-2017 Course - Food processing Technology |          |         |           |                         |           |
| 1       | F.Y.B.Voc                                     | 50       | 1       | 1         | 17:1                    | 17:1      |
| 2       | S.Y.B.Voc                                     | 37       | 1       | 1         | 18:1                    | 18:1      |
| 3       | T.Y.B.Voc.                                    | 23       | 1       | 1         | 23:1                    | 23:1      |

14. Number of academic support staff (technical) and administrative staff: sanctioned and filled

| Sr. No. | Year    | Number of non-teaching staff |        |               |        |                      |        |
|---------|---------|------------------------------|--------|---------------|--------|----------------------|--------|
|         |         | Peon                         |        | Lab assistant |        | Administrative staff |        |
|         |         | Sanctioned                   | Filled | Sanctioned    | Filled | Sanctioned           | Filled |
| 2       | 2016-17 | -                            | 1      | -             | 0      | -                    | 0      |

16. Research centre facility recognized by the University: N.A.

- a) Publications: Number of papers published in peer reviewed journals (national / International) by faculty and students:

| Publication                                | Mrs Shweta Raichurkar | Miss Neeta Patil | Total |
|--|-----------------------|------------------|-------|
| Journal International                      | 2                     | 1                | 3     |
| Journal National                           | 2                     | -                | 2     |
| International Conference/Seminar/Symposium | 1                     | -                | 1     |
| National Conference/Seminar/Symposium      | 1                     | -                | 1     |
| State/regional Conference/Seminar          | 2                     | -                | 2     |
|  |                       | Total            | 9     |

17. Student projects :

Students from B.Voc. Food Processing Technology have completed Industry Training (minimum 90 hours per semester). List of companies is as listed.

List of Industries where students have completed Industry Training during academic year 2014-2017.

| Sr. No. | Name of the company                | Name of the company                                | Name of the company             |
|---------|------------------------------------|--|---------------------------------|
| 1.      | Aloe Fresh Pvt. Ltd., Ahmednagar . | Liberty Entrepreneur, Lonavala.                    | Radheshyam Foods, Pune.         |
| 2.      | Aqua Fresh, Baramati               | Maganlal Food Products, Lonavla                    | Rich Fresh Mineral water, Pune. |
| 3.      | Asian Bakers, Satara.              | Mahanand Dairy, Mumbai                             | Rocher Ferrero, Baramati.       |
| 4.      | Asuvara Spices and Pickles, Satara | Majalgaon Shakari Sakar Kharkhana, Majalgaon, Beed | Sahara Agro Pvt. Ltd., Pune.    |
| 5.      | Atharva Food Products, Pune        | Mapro Foods Pvt. Ltd., Wai                         | Samapda Milk processors, Junnar |

|     |   |   |                                  |
|-----|---|---|----------------------------------|
| 6.  | Babli Food Products, Pune                     | Mehta Dairy Pvt. Ltd., Kolhapur                     | Scheiber Dynamics Dairies,       |
| 7.  | Bisleri International Pvt Ltd., Mumbai.       | National Institute of Green House Technology, Pune. | Sheetal Industries, Pune         |
| 8.  | Dnyanraj Agro Industry, Kolhapur.             | New Era Foundation,                                 | ShriGanesh Food Products, Satara |
| 9.  | Ferrerro India Pvt. Ltd., Baramati            | N-Joy Aqua, Malajgaon, Beed.                        | Shrikant Masala, Pune            |
| 10. | Frosteer Ice creams Pvt. Ltd. , Kolhapur      | Parag Milk food Pvt. Ltd., Chakan                   | Srinivas Foods, Pune             |
| 11. | Ganeshkrupa Masala Udyog, Satara              | Parle Agro, Mumbai                                  | STK Pvt. Ltd., Pune              |
| 12. | Girme Farms, Pune                             | Parle Pvt. Ltd., Mumbai                             | Suhana Masala, Pune              |
| 13. | Gokul Dairy, Kolhapur.                        | Peony Food Products, Pune                           | Tripur Dairy, Pune               |
| 14. | Hindustan Coca Cola Brverage Pvt. Ltd., Pune. | Pesico India Holdings Pvt. Ltd                      | Venky's Nutrition, Pune          |
| 15. | Horticulture Green House Technology, Pune     | Prabhat Dairy Limited                               | Vidya Food Products, Baramati    |
| 16. | Kate Food Pvt. Ltd., Pune.                    | Pratik Food Products, Pune                          | Waze Foods, Kolhapur             |
| 17. | Katraj Dairy, Pune.                           | Pratik Masale, Pune                                 | WS Bakers, Pune                  |
| 18. | Laxmi Water Industries, Satara.               | Pravin Masale, Pune                                 |                                  |

## 18. Diversity of students

| Name of course                         | Academic year | % Students from same state | %Students from other States | % Students from abroad |
|--|---------------|----------------------------|-----------------------------|------------------------|
| F.Y. B.Voc. Food Processing Technology | 2016-2017     | 100                        | 0                           | 0                      |
| S.Y.B.Voc. Food Processing Technology  |               | 100                        | 0                           | 0                      |
| T. Y.B.Voc. Food Processing Technology |               | 100                        | 0                           | 0                      |

## 30 Details of Infrastructural facilities:

Internet facility for staff and students : **03 Computer**

32. Details on student enrichment programme (special lecture/ workshops/seminar) with external experts.

**2016-17**

| <b>Sr.</b> | <b>Title</b>  | <b>Duration and Dates</b> | <b>Level</b>                            |
|------------|---|---------------------------|---|
| 1          | Study skills  | 1 day- 23-09-16           | F.Y.B.Voc                               |
| 2          | World Food Day- Theme: Climate is Changing, food and agriculture must too.<br>a) Poster Competition<br>b) Innovative product development<br>c) Model Making<br>d) Rangoli with food ingredients | 1 day- 03.10.16           | F.Y.B.Voc,<br>S.Y.B.Voc.,<br>T.Y.B.Voc. |

33. Teaching methods adopted to improve student learning :
- Power Point Presentations for actual working of machinery used in food industry
  - Industrial visits and educational visits. Making reports on study tour and visits.
  - Inter Departmental practical approach (Biotechnology)
  - Video clips and animations on concerned subjects.
  - Brain storming sessions and Group discussions.
  - Food Quiz, Debate Competitions and Food Vocabulary games.
  - Assignments and class tests to judge their level of understanding
  - On Field activities (Food products, packaging materials and others)
  - Knowledge up gradation activities (Collection of newspaper articles related to advanced technology and recent updates in food industry).
  - Videos on industry processes, safety practices and other topics related to concerned subjects.
  - Market survey.
  - Result analysis and Feedback from students.
  - Regular assignments and class tests.
  - Data analysis through classroom interaction, result analysis, projects, assignments and seminars.
  - The Department plans and executes various curricular and co-curricular activities for achieving the stated learning outcomes
  - Case study
  - Regular interval revisions.

Department of Botany

1. Dr. Raval Prachi and Dr. Kshirsagar Prachi - Attended a State level conference on 'Climate change and ecology organized by Department of Botany and Chemistry, Baburao Gholap College, Sangavi, Pune – 411027 on 14<sup>th</sup> & 15<sup>th</sup> December 2016.
2. Dr. Raval Prachi and Dr. Kshirsagar Prachi - Attended a one day workshop on 'Biological invasion w.r.t. conservation of Indian wild-life jointly organized by Biosphere and Pune Forest Division and Pune wild-life wing, Govt. of Maharashtra Botanical Survey of India, ME FCC and bio-diversity management committee P.M.C. Pune on 6<sup>th</sup> October 2016.
3. Dr. Kshirsagar Prachi - XXVI Annual conference of Indian Association for angiosperm Taxonomy and International seminar on 'Conservation and sustainable utilization of Bio-diversity' organized by Department of Botany- Shivaji University. Kolhapur. From 7<sup>th</sup> - 9<sup>th</sup> November- 2016.
4. Dr. Raval Prachi - A paper published in a proceedings of National Conference on Recent trends in Botany organised by Padamashri Vikhe Patil College, Pravaranagar.
5. Renovation of Botanical Garden
6. Development of plant nursery which will be run for commercial selling of plants by students of Earn & Learn scheme.
7. Four students worked as volunteer at KISAN-2016 held at Moshi. Pune from 14<sup>th</sup> – 18<sup>th</sup> December.
8. SCIENCE Exhibition "Anubhuti" held by Modern College of Art. Science & Comm. Ganeshkhind twenty one students participated with their eight projects. A project presented by F.Y.B.Sc. student Alfiya Attar received third prize and title of the project was floristic study of Ghodeshwar.

### Department of Chemistry

3. Number of teaching posts:

| Position             | Sanctioned | Filled |
|----------------------|------------|--------|
| Professor Emeritus   | —          | —      |
| Associate Professors | 01         | 01     |
| Asst. Professors     | 12         | 12     |
| Others               | -          | -      |

4. Faculty profile with name, qualification, designation, specialization

**Year: 2016-17**

|     | Name of the staff                         | Qualification      | Designation | Specialization  | No. of Years |
|-----|---|--------------------|-------------|-----------------|--------------|
| 1.  | Dr. Madhuri. S. Kulkarni<br>Head of Dept. | M.Sc. Ph.D.<br>NET | Asso. Prof. | Organic Chem.   | 15           |
| 2.  | Mr. Dnyaneshwar Thakar                    | M.Sc. NET          | Asst. Prof  | Inorganic Chem. | 9            |
| 3.  | Mrs. Anuradha Bhamidi                     | M.Sc. NET          | Asst. Prof  | Inorganic Chem. | 9            |
| 4.  | Dr. Sushama Katade                        | M.Sc. Ph.D         | Asst. Prof  | Organic Chem.   | 9            |
| 5.  | Dr. Mukula Kulkarni                       | M.Sc. Ph.D         | Asst. Prof  | Physical Chem.  | 9            |
| 6.  | Dr. Mohini Kute                           | M.Sc. Ph.D         | Asst. Prof  | Physical Chem   | 10           |
| 7.  | Mrs. Ketaki Saravate                      | M.Sc. NET, SET     | Asst. Prof  | Organic Chem.   | 6            |
| 8.  | Mrs. Gayatri Shrotriya                    | M.Sc. NET          | Asst. Prof  | Organic Chem.   | 10           |
| 9.  | Mrs. Revati Nagarkar                      | M.Sc. NET          | Asst. Prof. | Organic Chem.   | 7            |
| 10. | Dr. Supriya Rishikeshi                    | M.Sc. Ph.D.<br>NET | Asst. Prof  | Analytical Chem | 4            |
| 11. | Dr. Ritu Mamgain                          | M.Sc. Ph.D         | Asst. Prof  | Organic Chem.   | 2            |
| 12. | Ms. Sampada Sonawane                      | M.Sc. NET          | Asst. Prof  | Organic Chem.   | 3            |
| 13. | Ms. Varsha Kand                           | M.Sc.              | Asst. Prof  | Inorganic Chem. | 1            |

5. Number of academic support staff (technical) and administrative staff; sanctioned and filled : Laboratory attendants-2; Peons-3
6. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil. / P.G. :  
Ph.D. : 6      M.Sc. NET/SET : 8



7. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :

| Sr. No. | Name of staff member | Title and Nature   | Funding agency and other details |
|---------|----------------------|--|----------------------------------|
| 1       | Dr. Sushma Katade    | Synthesis and Characterization of Pyrazole Derivatives (2016-18) | BCUD, SPPU Minor (1,90,000)      |

8. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: 2 UGC projects completed; Total Grant – Rs. 3,45,000/- , BCUD-2,90,000/-
10. Publications: Number of papers published in peer reviewed journals : 01 national
11. Faculty as members in Indian Association of Chemistry Teachers:  
 1. Gayatri Shrotriya  
 2. Ketaki Saravate
12. List of eminent academicians and scientists / visitors to the department  
 1. Dr. Sandeep A. Pingale, TROVAGENE, California, USA on 21.12.2016  
 2. Prof. B. H. Shrikanth, Sciencia on 6 December 2016  
 3. Dr. Geeta Sharma, Department of Chemistry, S. P. Pune University  
 4. Dr. Neeta Zatakia, Department of Chemistry, S. P. Pune University  
 5. Interaction with Prof. Kaoru Yamanouchi, Vice Dean, School of Science, University of Tokyo.
13. Student profile programme/course wise:

| Year    | Name of the Course/programme<br>UG-B.Sc., PG-M.Sc. | Applications received | Selected | Enrolled |    |
|---------|--|-----------------------|----------|----------|----|
|         |  |                       |          | *M       | *F |
| 2016-17 | UG   | 29                    | 29       | 06       | 23 |
|         | PG   | 177                   | 44       | 23       | 21 |

\*M = Male \*F = Female

14. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? - 03
15. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts.  
 i. Summer Training programme for S.Y.B.Sc. students under Star DBT 27<sup>th</sup> - 30<sup>th</sup> June 2016  
 ii. Skill Based Course in Analytical Chemistry -Self funded- Ongoing.

### Department of Computer Science

3. Names of Interdisciplinary courses and the departments/ units involved:

| Sr. No. | Name of Department | Name of Course  | Name of the staff | Academic Year |
|---------|--------------------|---|-------------------|---------------|
| 1       | Computer Science   | Computer Networking and Hardware Skill Development Course | Mr. Kumod Sapkal  | 2016-17       |

4. Participation of the department in the courses offered by other departments:

| Sr. No. | Name of Department                           | Name of Course          | Name of the Subject                   | Name of the staff  | Academic Year |
|---------|--|-------------------------|---------------------------------------|--------------------|---------------|
| 1       | B.Voc.                                       | B.Voc.                  | Computer Application in Food Industry | Mr. Niket Tajne    | 2016-17       |
| 2       | Microbiology, Commerce, Chemistry, Economics | M.Sc.(Micro), M.Com, MA | Introduction to Cyber Security        | Mr. Amol Patil     | 2016-17       |
| 3       | Microbiology, Chemistry                      | M.Sc.(Micro), M.Com, MA | Introduction to Cyber Security        | Ms. Sonal Kulkarni | 2016-17       |

5. Courses in collaboration with other universities, industries, foreign institutions, etc.:
- Faculty Development Program on “Linux Administration” by Mr. Uday Basak, Focus IT Training Solution.
6. Details of courses/ Programme discontinued (if any) with reasons: M.C.A (Science) course is discontinued, since Savitribai Phule Pune University has discontinued this course from science faculty.
9. Number of teaching posts A.Y. 2016-17

|                      | Sanctioned | Filled | Actual (including CAS&MPS) |
|----------------------|------------|--------|----------------------------|
| Professor            | -          | -      | -                          |
| Associate Professors | -          | -      | -                          |
| Asst. Professors     | 21         | 21     | -                          |
| Others               | 07         | 06     | 05                         |

7. Faculty profile with name, qualification, designation, specialization.

| Sr. No. | Name | Qualification | Designation | Specialization | Years of Experience |
|---------|------|---------------|-------------|----------------|---------------------|
|---------|------|---------------|-------------|----------------|---------------------|

|    |                        |  |             |  |    |
|----|------------------------|--|-------------|--|----|
| 1  | Dr. S. S. Bhatambrekar | M.Sc, M.C.A(Science)                         | H.O.D.      | M.Phil.(Physics), Ph.D. (Computer Science) | 24 |
| 2  | Mr. Kumod Sapkal       | M.C.A(Science), NET -JRF                     | Asst. Prof. | Pursuing Ph.D.                             | 15 |
| 3  | Dr. Pallawi Bulakh     | M.Sc. (Comp. Sci.)                           | Asst. Prof. | M.Phil. (Comp. Sci.), NET, Ph.D.           | 15 |
| 4  | Mrs Dipali Meher       | M.C.S, NET                                   | Asst. Prof. | M.Phil. (Comp. Sci.), Pursuing Ph.D.       | 13 |
| 5  | Mrs. Ranjana Shevkar   | M.Sc.(Scientific Computing), SET             | Asst. Prof. | M.Phil.(Pursuing)                          | 12 |
| 6  | Mr. Ambike Satish      | M.C.A(Sci.)                                  | Asst. Prof. | Pursuing Ph.D.                             | 7  |
| 7  | Ms. Sonal Kulkarni     | M.Sc. (Comp. Sci.)                           | Asst. Prof. |  | 9  |
| 8  | Mrs. Meenal Jabde      | M.Sc. (Comp. Sci.)                           | Asst. Prof. |  | 9  |
| 9  | Mr. Chirantan Dixit    | M.E.(Comp. Sci.), M.B.A.(systems, Marketing) | Asst. Prof. |  | 7  |
| 10 | Mr. Prasanna Chavan    | M.C.A.(Sci)                                  | Asst. Prof. |  | 6  |
| 11 | Mr. Nilesh Arote       | M.Sc. (Comp. Sci.)                           | Asst. Prof. |  | 4  |
| 12 | Mr. Niket Tajne        | M.C.A. (Sci)                                 | Asst. Prof. | Pursuing Ph.D.                             | 4  |
| 13 | Ms. Dipali Tamhane     | M.Sc.(Comp. Sci.), SET                       | Asst. Prof. |  | 4  |
| 14 | Ms. Nisha Rathod       | M.C.A. (Sci.)                                | Asst. Prof. |  | 4  |
| 15 | Mr. Amol Patil         | M.C.A. (Sci.),SET                            | Asst. Prof. |  | 2  |
| 16 | Mr. Vedant Mulay       | M.Sc. (Comp .Sci.)                           | Asst. Prof. |  | 2  |
| 17 | Ms. Ashwini Pawar      | M.Sc. (Comp. Sci.)                           | Asst. Prof. |  | 2  |
| 18 | Ms. Priya Pai          | M.Sc. (Comp. Sci.)                           | Asst. Prof. |  | 1  |
| 19 | Mrs. Trupti Sohoni     | M.Sc. (Comp. Sci.)                           | Asst. Prof. | M.Phil. (Comp. Sci.)                       | 4  |
| 20 | Ms.Yashoda Barve       | M.Sc (IT), SET                               | Asst. Prof. |  | 8  |
| 21 | Ms. Bilquis Kacha      | M.Sc. (Comp. Sci.)                           | Asst. Prof. |  | 1  |

## 8. List of senior visiting faculty :

| Sr. | Name of Lecturer                           | Topic      |
|-----|--|------------|
| 1   | Mr. Atul Patil, Assistant Professor, COEP  | Soft skill |
| 2   | Ms. Yogini Joshi, Consultant in Soft Skill | Soft skill |
| 3   | Ms. Priti Jog, Vising lecturer, MIT Pune   | Soft skill |

|     |   |  |                     |
|-----|---|--|---------------------|
| 10. | 4 | Mr. Piyush Pahade, Consultan in Softskill            | Soft skill          |
|     | 5 | Mr. Girish Jog, (Director of Avocado System)         | Interaction 2016-17 |
|     | 6 | Mr. Kailash Tare, Director of Architecture in NASDAQ | Soft skill          |

Student-

Teacher Ratio (program wise):

| Course Name             | Student-Teacher Ratio |
|-------------------------|-----------------------|
| B.Sc.(Computer Science) | 30:1                  |
| M.Sc.(Computer Science) | 12:1                  |

11. Number of academic support staff (technical) and administrative staff; Sanctioned and filled:

| Academic Year            | 2016-17    |        |        |
|--------------------------|------------|--------|--------|
|                          | Sanctioned | Filled | Actual |
| Technical (System Admin) | 02         | 02     | 02     |
| Others                   | 01         | --     | --     |

12. Qualifications of teaching faculty with DSC/D.Litt./Ph.D./MPhil/PG.:

| Degree          | Number of Faculties |
|-----------------|---------------------|
| Ph.D.           | 2                   |
| M.Phil..        | 4                   |
| Ph.D.Registered | 4                   |
| PG              | 10                  |
| NET             | 3                   |
| SET             | 4                   |

13. Publications:

- a) Publication per faculty : Number of papers published in peer reviewed journals (national/International) by faculty and students

| Sr. no | Name of Staff          | Number of Publications |
|--------|------------------------|------------------------|
| 1      | Dr. S. S. Bhatambrekar | 1                      |
| 2      | Mrs. Dipali Meher      | 1                      |
| 3      | Smita Dhongde          | 1                      |
| 4      | Satish Ambike          | 1                      |
| 5      | Chirantan Dixit        | 2                      |
| 6      | Savita Mohurle         | 3                      |

| Sr. No. | Detail / Particulars                                    | Total |
|---------|---|-------|
| 1       | Monographs  | 1     |
| 2       | Chapter in Books  | 1     |
| 3       | Books Edited  | 1     |
| 4       | Books with ISBN/ISSN Numbers with details of publishers | 4     |
| 5       | CitationIndex   | 1     |
| 6       | SNIP  | 1     |

|   |              |   |
|---|--------------|---|
| 7 | SJR          | 1 |
| 8 | Impactfactor | 1 |
| 9 | h-index      | 1 |

## 14. Student projects:

- Akhilesh Chauhan student of F.Y.B.Sc. Presented paper on “Isolation and Characterization of Lectins from Red Kidney Bean and Chick Pea”, on 28-29 July 2016 in IISER Pune.
- Leave Management Application: This is an application to sanction college employee leaves. Without waiting long in the queues to approve the leave, apply digitally here & also see for either it is CL/DL/Medical leave with the sanction status. Student Details: Aniket Deshpande & Swapnil Dani
- Student Feedback Application : This is an application to get feedback from all stakeholders & analyze of data. Student Details : Vishal Singh & Rutuja Mokashi
- Credit Based System : This is an application to record for Mark Entry for Internal Evaluation for credit based system. Student Details: Kedar Labde & Prashant Satpute

## 15. List of eminent academicians and scientists/visitors to the department:

| Sr. No. | Eminent academicians and scientists/visitors to the department                    |
|---------|---|
| 1       | Dr. Vilas Kharat, HOD, Computer Science Department, SPPU, Pune                    |
| 2       | Dr. Anil Sahastrabudhe, Ex Director COEP, Pune                                    |
| 3       | Mr. Sachin Teke, founder of m-indicator App, Mumbai                               |
| 4       | Dr. Shaligram, HOD Electronics , SPPU Pune  |
| 5       | Dr. Captain Chitale, Ex-Dean PUMBA.   |
| 6       | Dr. Shailaja Shirwaikar, Head of Computer Science Department, N.S. Wadia College. |
| 7       | Dr. Ajay Kumar, Associate Professor, J.S.P.M.                                     |
| 8       | Dr. Jyoti Yadav, SPPU Pune  |
| 9       | Dr. Ashok Kolaskar, Ex-Vice Chancellor of Pune University                         |
| 10      | Dr. Y.S. Patil, Professor, VAMNICOM   |
| 11      | Mr. Shankar Kalmani, Director, Sarathi Group                                      |
| 12      | Mr. Wakasukini, Fin Techno Bridge, Partner  |
| 13      | Mr. Anandsagar Shiralkar, M.D., Fin Techno Bridge , Pune                          |
| 14      | Mr. Sanjay Gandhi, CEO, Jetking   |
| 15      | Mr. Sameer Mahajan, Symantec, Pune  |
| 16      | Dr. G.S. Mani, Senior Scientist , DRDO, Pune                                      |
| 17      | Dr. Sanjay Kadam, CDAC, Pune  |
| 18      | Mr. Sheetal Pansare, CEO, Future Dream  |
| 19      | Mr. Vivek Sawant, Director, MKCL  |
| 20      | Mr. Sunil Avhad, Vice President, IGATE  |
| 21      | Mr. Girish Jog, Director Engineer, AVOCADO  |
| 22      | Mr. Pranav Wangikar, H.R. Manager, Persistent                                     |
| 23      | Mrs. Sheetal Parekh, EXFO pvt. Ltd.   |

16. Seminars/ Conferences/ Workshops organized & the source of funding  
A) Soft Computing (2012-13)

17. Student profile programme / course wise:

| Academic Year | Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled |     | Pass % |
|---------------|---|-----------------------|----------|----------|-----|--------|
|               |   |                       |          | *M       | *F  |        |
| 2015-16       | F.Y.B.Sc. (Comp. Sc.)                               | 217                   | 217      | 85       | 132 | 73.3   |
|               | S.Y.B.Sc. (Comp. Sci.)                              | 146                   | 146      | 72       | 74  | 87.11  |

\*M=Male \*F=Female

18. Diversity of Students:

| Academic Year | Name of the Course     | % of students from the same state | % of students From other States | % of students from abroad |
|---------------|------------------------|-----------------------------------|---------------------------------|---------------------------|
| 2015-16       | F.Y.B.Sc. (Comp. Sci.) | 99.13                             | 0.8                             | 0                         |
|               | S.Y.B.Sc. (Comp. Sci.) | 97.94                             | 1.36                            | 00.68                     |
|               | T.Y.B.Sc. (Comp. Sci.) | 99.23                             | 0.76                            | 0                         |

19. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

| Sr. No. | Name of student | Exam | Post            |
|---------|-----------------|------|-----------------|
| 1.      | Dipali Meher    | NET  | Asst. Professor |
| 2.      | Dipali Tamhane  | SET  | Asst. Professor |

20. Student progression:

| Student progression              | Against % enrolled |
|----------------------------------|--------------------|
| UG to PG                         | 90%                |
| PG to M.Phil.                    | 1%                 |
| PG to Ph.D.                      | 1%                 |
| Ph.D. to Post-Doctoral           | Nil                |
| <b>Employed</b>                  |                    |
| • Campus selection               | 60%                |
| • Other than campus recruitment  | 35%                |
| Entrepreneurship/Self-employment | 5%                 |

21. Details of Infrastructural facilities
- Library: Central Digital library made available to staff and students
  - Internet facilities for Staff & Students: 24 hours AIRCEL 10mbps (megabits per sec)
  - Class rooms with ICT facility: 06
  - Laboratories: 04
22. Number of students receiving financial assistance from college, university, Government or other agencies:

| Academic Year | Agency/ Name of the scheme | Class         | Number of Students |
|---------------|----------------------------|---------------|--------------------|
| 2015-16       | SC & ST Scholarship        | F.Y.Comp.Sci. | 27                 |
|               |                            | S.Y.Comp.Sci. | 39                 |
|               |                            | T.Y.Comp.Sci. | 18                 |
|               |                            | MSc-I         | 3                  |
|               |                            | MSc-II        | 2                  |

23. Details on student enrichment program (special lectures / workshops / Seminar) with external experts:
- Skill development Programs
24. Teaching methods adopted to improve student learning:
- Assignments, notices Through mails and flint app
  - Research Paper Review
  - Open Book Test
  - Remedial Lectures & Practicals
  - Question Paper Solving
25. Participation in Institutional Social Responsibility (ISR) and Extension activities: Students take part in various activities of college and university namely
- Contributed to College Welfare funds
  - Financial support to underprivileged students by Staff (Shrawani Sutar)
26. Highlights of the department
- Induction program for PG Students & their parents.
  - Students participated in Science Association Competition like posters, projects & power point presentation.
  - Students involved in research paper writing.

## Annexure-I

Details of Books with ISBN/ISSN numbers with details of publishers:-

| <b>Research Publication in Journal and Proceeding</b> |  |  |                            |
|---|--|--|----------------------------|
| <b>Sr. No.</b>  | <b>Name of Author</b>  | <b>Journal / Proceeding Details</b>  | <b>Year of Publication</b> |
| 1   | Mr. Chirantan P. Dixit   | International Journal of Innovative Research in Science Engineering and Technology                 | 2016                       |
| 2   | Mr. Chirantan P. Dixit   | International Journal of Innovative Research in Computer and Communication Engineering             | 2016                       |
| 3   | Mrs. Dipali Meher  | International Journal of Science and Research  | 2016                       |
| 4   | Mrs. Smita Dhongade and Mr. Satish Ambike  | International Journal of Information Technology & Computer Science respective Pezzottaite Journals | January-March-2015         |
| 5   | Dr. S. S. Bhatambrekar, Savita Mohurle, Madhuri Khandagale, Madhavi Chandlekar and Kavita Chaudhari  | Proceedings of Eleventh The IIER International Conference, Singapore                               | Feb-15                     |
| 6   | Dr. S. S. Bhatambrekar, Sonal Kulkarni, Savita Mohurle, Pranav kumar, Shashank Naik, Shrikant Pokale | International Conference on Information Technology and Management Science (ICITMS 2014), Hon Kong  | May-14                     |
| 7   | Dr. S. S. Bhatambrekar, Savita Mohurle and Sonal Kulkarni  | Progress in Science and Engineering Research Journal   | Apr-14                     |



## Department of Electronic Science

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.)

**Dr. Saroj Hole was awarded with Ph.D. degree on 26th August 2016.**

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG -  
**1-Ph.D., 1-Submitted thesis, 3-Enrolled for Ph.D., 2 P.G.**

19. Publications:

- a) Publication per faculty:

Number of papers published in peer reviewed journals (national / international) by faculty and students:

**International:-**

| Name of the Paper   | Name of the Author | Conference/Journal   | ISSN number |
|---|--------------------|--|-------------|
| WSN Application For Crop protection To Divert Animal Intrusions In The Agricultural Land                      | Varsha Bapat       | Computer and Electronics in Agriculture( Elsevier) Accepted in December 2016         | 0168-1699   |
| Development of Crop Damage Simulation Tool for Animal attack on the crop field                                | Varsha Bapat       | Agriculture, Ecosystems and Environment (Elsevier), June 2016. Under review          | 0167-8809   |
| Comparative study on Glare Effect and Luminous Intensity Distribution Due to positional Changes of Luminaries | Pradnya Pathakji   | International Journal on Recent and Innovation Trends in Computing and Communication | 2321-8169   |

**National:-**

| Name of the Paper  | Name of the Author | Conference/Journal  |
|--|--------------------|---|
| A New Method To Teach Embedded System Design   | Varsha Bapat       | National Conference on " Innovative Teaching techniques" at MIT, Kothrud, Pune 6-7th December 2016                      |
| A poster on "Development of Risk Alert System Tool To Estimate Risk Of Animal attacks on Crops", selected for National Conference. | Varsha Bapat       | National Conference on Applications of Electronics and Computer Science, At Kaveri College, Pune. 20,21st January 2016  |
| A poster on "LPG Gas Sensor Driver" selected for National Conference.  | Mrinalini Bhadane  | National Conference on Applications of Electronics and Computer Science, At Kaveri College, Pune. 20, 21st January 2016 |

20. Areas of consultancy and income generated:
- Consultancy for Development of Renewable Energy Park in a school premises at Thane, Mumbai under Thane Municipal Corporation through Foundation for Innovative Research
22. Student projects: Designed microcontroller based **Electronic Voting Machine**.
23. Awards / Recognitions received by faculty and students:  
**Dr. Saroj Hole:-** Ph.D. notification 63/2016 dated 26/08/2016 from Sant Gadgebaba Amravati Vidyapeeth.
24. List of eminent academicians and scientists/visitors to the department

| Sr. No. | Name of Academician / Scientist | Designation                                | Institute   |
|---------|---------------------------------|--|---|
| 1.      | Dr. A. D. Shaligram             | Head                                       | Department of Electronic Sc., SPPU, Pune            |
| 2.      | Dr. G. S. Mani                  | Vice Chair, IEEE, Pune Section, Professor, | JSPM engineering College, Hadapsar.                 |
| 3.      | Dr. Aditya Abhyankar            | Professor and Head                         | Department of Technology, SPPU, Pune.               |
| 4.      | Dr. Sandeep Meshram             | Associate Professor                        | Department of Geology, College of Engineering, Pune |
| 5.      | Mr. Arvind Dandekar             | Director                                   | Green 3Di, Architechure and Interior Consultant     |
| 6.      | Mr. Sharad Pustake              | Advisor, Cleantech and Energy              | Department of Science and Technology, SPPU, Pune.   |
| 7.      | Mr. Bhuvanesh Kulkarni          | Consultant                                 | Independent Education Management Professional       |

25. Seminars/ Conferences/Workshops organized & the source of funding
- **Department has organized State Level Workshop on "Role of Advanced Sensors in Development of Smart City" under Quality Improvement Programme of Savitribai Phule Pune University.**
  - Workshops/Training Programs **attended** by the staff
    1. One of the staff members completed 3-days Training on "Raspberry Pi"
    2. Two of the staff members participated in One day workshop on COMPSOL software tool for research on 30<sup>th</sup> Aug. 2016.
    3. Two of the staff members participated in Two days workshop on "Research Methods and tools required in Data analysis"
    4. One of the staff member attended 7 days short term course in 'Recent trends in Microfluidics' organized by Dept. of Nanoscience, Mumbai University.

30. Details of Infrastructural facilities  
180-Experimental kits,  
20 Computers using windows-7 Operating System,  
8-Application software.
33. Teaching methods adopted to improve student learning: Shown International Motivator Mr. Sandeep Maheshwari's audio visual clip 'Never Give Up' to the students for their encouragements.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
  - Department has taken initiative for E-Waste management of the college and Awareness drives in the nearby society. College has entered into an MOU with Kuldeep e-Waste Company in this regard. Total E-Waste collection of 430 Kgs. from Electronics and Computer department.
  - One of the staff member extends help for placement of M.Sc. Electronics Students, Department of Electronics, SPPU, Pune .
35. Highlight of the department  
Student involvement in preparation of Experiment kits.

### Department of Mathematics

4. Name of Interdisciplinary courses and the departments / units involved

|   |                 |
|---|-----------------|
| Interdisciplinary Courses (Undergraduate) | B.C.A.(Science) |
|---|-----------------|

5. Annual / semester / choice based credit system (programme wise) :-

|               |                     |
|---------------|---------------------|
| Pattern       | Name of the program |
| Credit system | F.Y.B.C.A.(Science) |

10. Faculty profile with name, qualification, designation, specialization

Details of Faculty recruited in 2016-17

| Name                 | Qualification | Designation         | Specialization | Experience (years) |
|----------------------|---------------|---------------------|----------------|--------------------|
| Ms. Pradnya Nanavare | M.Sc., SET    | Assistant Professor | Mathematics    | ----               |
| Ms. Ragini Wadkar    | M.Sc.         | Assistant Professor | Mathematics    | ----               |
| Ms. Jayashree Shinde | M.Sc.         | Assistant Professor | Mathematics    | ----               |

11. List of senior visiting faculty :-

| Sr. No. | Name of the Visiting Faculty |
|---------|------------------------------|
| 1       | Ms. Apeksha Pawar            |

12. Percentage of lectures delivered and practical classes handled (programme-wise) by temporary faculty :-

| Sr. No. | Class                   | Percentage of lectures delivered By temporary faculty | Percentage of practicals taken by temporary faculty |
|---------|-------------------------|---|---|
| 1       | B.Sc.                   | 00  | 00  |
| 2       | B.Sc.(Computer Science) | 00  | 12.5  |

## 13. Student-Teacher Ratio (programme-wise) :-

| Sr. No. | Class                       | Student Teacher Ratio (theory + practical) |
|---------|-----------------------------|--|
| 1       | B.Sc.                       | 15 : 1                                     |
| 2       | B.Sc.<br>(Computer Science) | 35 : 1                                     |

## 15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ M-Phil/ PG. :-

Qualification of Teaching faculty with PG :-

| Sr. No. | Name                  | Qualification                                    |
|---------|-----------------------|--|
| 1       | Mrs. Swati Kandharkar | M.Sc.  |
| 2       | Mrs. Shamal Deshmukh  | M.Sc. , NET , SET ,<br>M.Phil.- Thesis submitted |
| 3       | Mrs. Jayshree Jain    | M.Sc. , NET , SET                                |
| 4       | Mrs. Pratibha Pawar   | M.Sc. , NET                                      |
| 5       | Ms. Pradnya Nanavare  | M.Sc. , SET                                      |
| 6       | Ms. Ragini Wadkar     | M.Sc.  |
| 7       | Ms. Jayashree Shinde  | M.Sc.  |

## 17. Departmental projects funded by DST- FIST; UGC, DBT, ICSSR, etc. and total Grants received:-

Departmental student's projects funded by DBT

| Sr. No. | Name of the Project   |
|---------|-----------------------|
| 1       | Tower of Hanoi        |
| 2       | Beauty of Mathematics |
| 3       | Prey predator model   |
| 4       | Musical Maths         |
| 5       | Mathematics in nature |
| 6       | Pythagoras theorem    |
| 7       | Pascal triangle       |
| 8       | Platonic solids       |

Department has received funds from DBT

- Recurring – Rs. 2,00,000/-

## 20. Areas of consultancy and income generated :-

| Sr. No. | Name of the faculty    | Area of expertise              |
|---------|------------------------|--------------------------------|
| 1       | Mrs. Swati Kandharkar. | Discrete Mathematics, Algebra. |
| 2       | Mrs. Shamal Deshmukh.  | Operator Theory.               |

|   |                       |                            |
|---|-----------------------|----------------------------|
| 3 | Mrs. Jayshree Jain.   | Operations Research.       |
| 4 | Mrs. Pratibha Pawar.  | Graph Theory.              |
| 5 | Ms. Pradnya Nanavare. | Linear Algebra             |
| 6 | Ms. Ragini Wadkar.    | Differential Equations     |
| 7 | Ms. Jayashree Shinde. | Complex Analysis, Topology |

## 22. Student projects :-

- a) Percentage of students who have done in-house projects including inter-departmental/ programme : - 36%

## 23. Awards/recognitions received by faculty and students:

Mrs. Swati Kandharkar received certificate of appreciation by Ministry of Finance, Government of India as a taxpayer in 'Bronze' category.

## 24. List of eminent academicians and scientists/ visitors to the department :-

| Sr. No. | Name of the Visiting Faculty | Designation         | Institute                                       |
|---------|------------------------------|---------------------|---|
| 1       | Mrs. Jyoti Kajale            | Expert              |   |
| 2       | Dr. Prashant Alegaonkar      | Associate Professor | Defense Institute of Advanced Technology, Pune. |
| 3       | Dr. Jacob Marthene           | Assistant Professor | University of Massachusetts-Amherst, USA        |
| 4       | Dr. Maitreyee Kulkarni       | Research student    | Louisiana University, USA                       |

## 26. Student profile programme/ course-wise :-

| Name of the Course / programme (refer question no. 4) | Application Received | Selected | Enrolled |    | Pass percentage |
|---|----------------------|----------|----------|----|-----------------|
|   |                      |          | *M       | *F |                 |
| F.Y.B.Sc.   | 75                   | 75       | 53       | 22 | -----           |
| S.Y.B.Sc.   | 34                   | 34       | 19       | 15 | -----           |
| T.Y.B.Sc.   | 22                   | 22       | 08       | 14 | -----           |
| F.Y.B.Sc.(Computer Science)                           | 286                  | 264      | 166      | 98 | -----           |
| S.Y.B.Sc.(Computer Science)                           | 119                  | 119      | 56       | 63 | 55.46           |

\*M=Male \*F=Female

## 27. Diversity of Students

| Name of the Course          | % of students from the same state | % of students from other States | % of students from abroad |
|-----------------------------|-----------------------------------|---------------------------------|---------------------------|
| B.Sc.                       | ----                              | ----                            | ----                      |
| B.Sc.<br>(Computer Science) | 98.27                             | 0.99                            | 0.74                      |

## 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. :-

| Sr. No. | Name of the student | Cleared the examination |
|---------|---------------------|-------------------------|
| 1       | Mr. Vipin Mugave    | IIT-JAM                 |

## 30. Details of Infrastructural facilities :-

- a) Internet facility for staff and students : - 01 computer for staff  
(Speed 500 KBPS, AIRCEL)
- b) Staff Room : 1 well-furnished.

## 32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts

- Guest Lectures :

| Name Of the Guest      | Date             | Topic                 |
|------------------------|------------------|-----------------------|
| Dr. Jacob Matherne     | 24 December 2016 | Career In Mathematics |
| Dr. Maitreyee Kulkarni |                  |                       |

- C- programming certificate course
- Guidance lectures for Competitive Examination.
- Organizing student activities such as Mathematics Club, Screening of Mathematical videos.
- Bridge course for Biotechnology students.

## 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Interactions with 3<sup>rd</sup> and 4<sup>th</sup> standard students during NSS camp on 'Fun in Mathematics'.
- Participation in 'Tree Plantation Drive'.

Department of **Microbiology**

6. Participation of the department in the courses offered by other departments:

**Environmental Science:** During 2016-17 Mrs. Gauri Bhagat and Ms Yashashree Waikar have participated in teaching Environmental Science course for SYBSc (Computer Science, Biotechnology, General Science and B. Voc) students.

9. Number of teaching posts

|                  | Sanctioned | Filled |
|------------------|------------|--------|
| Asst. Professors | 11         | 11     |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

| Sr. No. | Name                     | Qualification  | Designation   | Specialization | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|---------|--------------------------|--|---------------|----------------|----------------------------|---|
| 1       | Dr. Manasi               | MSc, PhD, SET  | Assist. Prof. | Microbiology   | 2.5 yrs                    | _____   |
| 2       | Dr. Sougata              | MSc, PhD.  | Assist. Prof. | Microbiology   | 1.5 yr                     | _____   |
| 3       | Mr. Shrikant Bhute       | M.Sc., SET, CSIR-UGC NET;<br>Pursuing Ph.D<br>(Thesis submitted)<br>Mr. Shrikant Subhash Bhute<br>Teaching experience of 4 | Assist. Prof. | Microbiology   | 4 yrs                      | —   |
| 4       | Ms Debangi Chattopadhyay | M.Sc   | Assist. Prof. | Microbiology   | 3.5 yrs                    | —   |
| 5       | Ms Yashashree Waikar     | M.Sc   | Assist. Prof. | Microbiology   | 2 yrs                      | —   |

11. List of senior visiting faculty:

Guest Lectures by:

- Dr. Yogesh Shouche**, Scientist E, MCC-NCCS, on 'Next Generation Sequencing' for M. Sc. I students. (2016-17) at MCC-NCCS.
- Dr. Santosh Sutar**, Assistant Professor, Yashvantrao Chavan School of Rural Development, Shivaji University, Kolhapur delivered two days lecture on "Non-parametric tests (Run test, Sign test, Wilcoxon's signed Rank test, Mann-Whitney test) and its problem solving" on 19/09/16 and 20/09/16 for MSc I students.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

| Sr. No. | Class | Lectures | Practicals |
|---------|-------|----------|------------|
| 1       | FYBSc | 0 %      | 0%         |

13. Student -Teacher Ratio (programme wise):

| Sr. No. | Class | Student -Teacher Ratio (For lectures) | Student -Teacher Ratio (For practical batches) |
|---------|-------|---------------------------------------|--|
| 1       | FYBSc | 70:1                                  | 20:1   |
| 2       | SYBSc | 33:1                                  | 21:1   |



|   |        |       |      |
|---|--------|-------|------|
| 3 | TYBSc  | 5.5:1 | 13:1 |
| 4 | MSc I  | 11:1  | 11:1 |
| 5 | MSc II | 11:1  | 14:1 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.:

| Sr. No. | Qualification                    | Number |
|---------|----------------------------------|--------|
| 1       | Ph.D                             | 4      |
| 2       | Pursuing Ph.D (thesis submitted) | 1      |
| 3       | M.Phil                           | 1      |
| 4       | NET/ SET                         | 7      |
| 5       | M. Sc                            | 6      |

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

a) **DBT-STAR scheme:**

UG projects carried out (2016-17):

- a) Interdisciplinary project: 1 MSc II Microbiology student (Tanay Bhagwat) with 2 TYBSc Physics students)  
b) 24 students (8 projects):

| S.no | Name of Project   | Participating students   | Class         |
|------|---|--|---------------|
| 1    | Can dog drool kill the germs  | Mohini Nikam, Komal Sathe  | SYBSc         |
| 2    | Grains Agar / Biofertilizer   | Tejas Chavan, Mahesh Choudhari, Bhushan Talele, Shubham Barmukh, Jaydeep Kshirsagar, Dhananjay Mukhekar, Amol Sarode | TYBSc         |
| 4    | Antimicrobial activity of copper nanoparticles                        | Prajakta Birjadar, Jyoti Jagtap, Renuka Bhalerao, Apurva Pankar  | TYBSc         |
| 5    | Microbial Contamination of Indian Notes in Circulation                | Apurva Pankar, Jyoti Jagtap, Priyanka Patel, Prajakta Birajdar   | TYBSc         |
| 6    | Cellulase activity/ pond water organisms                              | Partik Shirsathe, Arinjay Gire, Bishwarup Sarkar, Rucha Joshi , Manish Pawar , Grishma Deshpande, Kanchan Sawant     | FYBSc         |
| 7    | Pani Puri KA Tension  | Rutuja Tiwari, Parineeta Maske, Akshata Gole   | TYBSc         |
| 8    | Effect of <i>Solaneum Melongela</i> on Oral Microbiota of Street Dogs | Gandhali Ghate, Jaydeep Kshirsagar, Tejas Chavan   | MSc I & TYBSc |

b) DST-FIST:

PG Projects: 26 students (13 projects) (2015-16):

| Sr.No. | Name of Students  | Title of Project  |
|--------|---|---|
| 1      | Lata Mahajan<br>Bharati Gole                            | Bioconversion of Glycerol into value added compounds using Fungi  |
| 2      | Shweta Nalawade<br>Kajal Mulla                          | Isolation and characterization of Endophytes from <i>Dioscorea pentaphylla</i> , <i>Gloriosa superba</i> and <i>Dioscorea oppositifolia</i> with respect to their plant growth promoting potential  |
| 3      | Rashmi Natu<br>Manali Saindane                          | Evaluation of antimicrobial activity of extracts of some traditionally used medicinal plants against pathogens causing UTI.   |
| 4      | Yogita Patil<br>Gayatri Sahastrabuddhe                  | Screening of actinomycetes for the production of anticancer enzyme L-asparaginase   |
| 5      | Ankita Joshi<br>Apoorva Joshi                           | Isolation and characterization of plant growth promoting Rhizobacteria from rice rhizosphere  |
| 6      | Prashant Jambhale<br>Vyankatesh Naik<br>Kishor Sonawane | Biocontrol of <i>Fusarium</i> - wilt pathogen of Pomegranate  |
| 7      | Anuja Patil<br>Pranita Sahasrabuddhe                    | Plasmid profiling and study of selected virulence factors of Multidrug resistant clinical isolates of <i>Pseudomonas</i> , <i>Klebsiella</i> and <i>E.coli</i>  |
| 8      | Snehal Dixit<br>Sonali Pawar<br>Reshma Sawant           | Antimicrobial and antibiofilm activity of <i>Allium sativum</i> (Garlic), <i>Syzygium aromaticum</i> (Clove oil), and <i>Sapindus mukorossi</i> (Reetha) on multidrug resistant clinical isolates of <i>Pseudomonas</i> , <i>Klebsiella</i> and <i>E.coli</i> |
| 9      | Sukomal Kate<br>Kashmira Badgujar                       | Screening and isolation of pigment producing bacteria from soil   |
| 10     | Maliyackal Jini Chacko                                  | <i>Barleria prionitis</i> leaf extract mediated synthesis of silver and gold nanoparticles showing antibacterial and antibiofilm activity   |
| 11     | Sonal Gurav   | <i>Dioscorea oppositifolia</i> tuber extract mediated synthesis of silver nanoparticles and gold nanoparticles showing antibacterial and antibiofilm activity.  |
| 12     | Ashwini Harke   | Anticancer activity of silver and gold nanoparticles synthesized using <i>Gloriosa superba</i> rhizome extract  |
| 13     | Shraddha Kadlak<br>Smita Dhumane<br>Sayali Borde        | Isolation and characterization of Pectinase producing organisms   |

19. Publications:

a) Publication per faculty:

Number of papers published in peer reviewed journals (national/international) by faculty and students

Research Publications of faculty: 2016-17: 4

Dr. Sougata Ghosh: 3

Mr. Shrikant Bhute: 1

Details are as follows:

1. **Ghosh S**, Gurav SP, Harke AN, Chacko MJ, , Joshi KA, Dhepe A, Charolkar C, Shinde VS, Kitture R, Parihar VS, Banerjee K, Kamble N, Bellare J, Chopade BA (2016) *Dioscorea oppositifolia* mediated synthesis of gold and silver nanoparticles with catalytic activity. *Journal of Nanomedicine and Nanotechnology*. 7:5.

2. Suryavansh MV, **Bhute SS**, Jadhav SD, Bhatia MS, Gune RP, Shouche YS (2016) Hyperoxaluria leads to dysbiosis and drives selective enrichment of oxalate metabolizing bacterial species in recurrent kidney stone endures. *Scientific Reports*. 6:34712:DOI: 10.1038/srep34712
3. **Ghosh S**, Chacko MJ, Harke AN, Gurav SP, Joshi KA, Dhepe A, Kulkarni AS, Shinde VS, Parihar VS, Asok A, Banerjee K, Kamble N, Bellare J, Chopade BA (2016) *Barleria prionitis* leaf mediated synthesis of silver and gold nanocatalysts. *Journal of Nanomedicine and Nanotechnology*. 7:4.
4. **Ghosh S.**, Harke A.N., Chacko M. J., Gurav S.P., Joshi K.A., Dhepe A., Dewle A., Tomar G.B., Kitture R., Parihar V.S., Banerjee K., Kamble N., Bellare J., Chopade B.A.(2016) *Gloriosa superba* mediated synthesis of silver and gold nanoparticles for anticancer applications. *Journal of Nanomedicine and Nanotechnology*. 7:4.

#### Cumulative Citation Index

| S. No. | Staff Member  | No: of Citations |
|--------|---------------|------------------|
| 1      | Sougata Ghosh | 416              |

#### h-Index

| S.no                         | Staff Member  |  | h-index       |
|------------------------------|---------------|--|---------------|
| 1                            | Sougata Ghosh |  | 11            |
| <u>Impact Factor</u><br>S.no | Staff Member  | Journal                                    | Impact factor |
| 1                            | Sougata Ghosh | Journal of Nanomedicine and Nanotechnology | 3.57          |

#### **Patents :**

1. **Ghosh S.**, Harke A.N., Chacko M.J., Gurav S.P. (2016) *Gloriosa superba* mediated synthesis of silver and gold nanoparticles. Indian Patent (Filed) Application number 201621016060 A.
2. **Ghosh S, Gurav SP, Harke AN, Chacko MJ.** (2016) An optimized process for *Dioscorea oppositifolia* mediated synthesis of gold and silver nanoparticles. Indian Patent (Filed) Application number 201621028221 A
3. **Ghosh S, Chacko MJ, Gurav SP, Harke AN.** (2016) Process optimization for synthesis of silver and gold nanoparticles using *Barleria prionitis* leaf. Indian Patent (Filed) Application number 201621027956 A

20. Areas of consultancy and income generated

Area of expertise:

| Sr. No. | Name of Staff member  | Area of Expertise   |
|---------|-----------------------|---|
| 1       | Dr. Neelima Kulkarni  | Protein biochemistry, extracellular metabolites   |
| 2       | Gauri Bhagat          | General Microbiology, Immunology, Water Potability Testing  |
| 3       | Mr. Shrikant Bhute    | Microbial diversity, DNA sequencing, Next Generation DNA Sequencing.  |
| 4       | Debangi Chattopadhyay | Teaching and learning through games, Microbial diversity and Taxonomy; Molecular Biophysics and Instrumentation |
| 5       | Yashashree Waikar     | Chromatography, Water Potability Testing  |

22. Student projects

- Percentage of students who have done in-house projects including inter departmental/programme: 10% UG ; 71.5% PG
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: 28.5% PG

23. Awards / Recognitions received by faculty and students:

| Sr. No. | Authors   | Award won  |
|---------|---|--|
| 1       | Dr. Manasi Tukdeo   | Qualified SET exam held in May 2016  |
| 2       | Mrs. Sneha Ogale  | <b>Selected as Trainer</b> for the series of State-level Pedagogy workshops for school science teachers conducted jointly by IISER-Pune with the Maharashtra State government. The workshops were conducted from 4th Oct to 7th Oct 2016 and 22-24 Nov 2016. |
| 3       | Mr. Soching Luikham (T.Y.BSc) and Mr. Sougata Ghosh (Staff) | <b>Won Consolation Prize</b> in poster presentation at <b>2nd Mini-Symposium on Cell Biology</b> organized by NCCS, Pune 11th May, 2016  |
| 4       | Mr. Abhijit Kulkarni  | Qualified CSIR NET-LS  |
| 5       | Ms. Jayashree Khadilkar                                     | Qualified SET exam held in May 2016  |
| 6       | Divya Shah  | Lila Poonawalla Foundation Scholarship   |
| 7       | Priyanka Manani, Bhakti Thakkar, Shivani Kulkarni           | Weikfield Malhotra Foundation Scholarship  |
| 8       | Sanchita Gramopadhyay                                       | DST-Inspire Scholarship  |
| 9       | Soching Luikham   | Best Student Trophy of the college: Pride of Modern  |
| 10      | Soching Luikham   | Best Question Award at International Symposium on Microbial Ecology and Systematics, 16-17 Sept 2016   |
| 11      | Sandesh Shinde  | Best Question Award at International Symposium on Microbial Ecology and Systematics, 16-17 Sept 2016   |
| 12      | Pranav Pande  | Selected as Ph. D. student at Institut National de la Recherche Scientifique, University of Quebec, Canada   |
| 13      | Purva Chavan  | Selected as PhD student, Helmholtz Zentrum Muenchen, Munich, Germany   |
| 14      | Unmesha Thanekar  | GATE, 2016   |

24. List of eminent academicians and scientists / visitors to the department:

| Sr. No. | Name                  | Designation, Organization/ Institute   |
|---------|-----------------------|--|
| 1       | Mrs. Supriya Sule     | Member of Parliament   |
| 2       | Dr. Santosh Sutar     | Assistant Director/Assistant Professor, Yashvantrao Chavan School of Rural Development, Shivaji University |
| 3       | Mr. Mihir Thatte      | Vaintey Chem Products Pvt. Ltd   |
| 4       | Dr. Abhishek Kukemane | Bijasu Pvt. Ltd., Pune   |
| 5       | Dr. Sandeep Chorghade | Postdoctoral Research Associate at University of Illinois at Urbana Champaign, Illinois, USA               |
| 6       | Mr. Gaurav Gunjal     | SRF, IISc  |
| 7       | Mr. Nitin Gaikwad     | Associate Director, Biocon, Bangalore  |

25. Seminars/ Conferences/Workshops organized & the source of funding a) National: NA  
b) International: NA  
Workshops Conducted:

| Sr. No. | Title  | Resource persons  | Class & No. of students benefitted  | Conducted by (name of the department)   | Dates                           |
|---------|--|---|---|---|---------------------------------|
| 1       | Physicochemical and Microbiological analysis of Soil | Mr. Mihir Thatte, Vaintey Chem Products Pvt. Ltd. and Mr. Shreyas Kumbhare (ICMR-SRF, MCC-NCCS)                       | 21 S.Y. B. Sc. Microbiology students  | Microbiology, Dept, MCASC, GK   | 24/06/2016 and 25/06/2016       |
| 2       | Biochemical techniques and instrumentation           | Dr. Sougata Ghosh, Dr. Manasi Tukdeo (MCASC, GK) and Mr. Shreyas Kumbhare (ICMR-SRF, MCC-NCCS)                        | 45 T.Y. B. Sc. Microbiology students of Dept, MCASC, GK, MCASC, Shivajinagar and Abasaheb Garware College, Pune | Microbiology, Dept, MCASC, GK   | 01/07/16, 02/07/16 and 04/07/16 |
| 3       | Research Induction Program                           | Dr. Neelima Kulkarni & Dr. Sougata Ghosh (Microbiology), Dr. Vinay Kumar (Biotechnology), Dr. R. Kshirsagar (Zoology) | M. Sc. students of Microbiology, Zoology & Biotechnology  | Dr. Vinay Kumar (Biotechnology), Dr. R. Kshirsagar (Zoology), Mrs. Sneha Ogale (Microbiology) | 06/09/16 and 07/09/16           |

26. Student profile programme/course wise:

| Name of the Course/ programme | Applications received | Selected | Enrolled |     | Pass percentage |
|-------------------------------|-----------------------|----------|----------|-----|-----------------|
|                               |                       |          | *M       | *F  |                 |
| F.Y.BSc.                      | 282                   | 250      | 97       | 153 | NA              |
| M.Sc. I                       | 149                   | 42       | 4        | 38  | NA              |

\*M = Male \*F = Female

27. Diversity of Students

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|--------------------|-----------------------------------|---------------------------------|---------------------------|
| F.Y.BSc            | 247                               | 03                              | 01                        |
| S.Y.BSc.           | 143                               | 0                               | 0                         |
| T.Y.BSc            | 128                               | 01                              | 0                         |
| M.Sc. I            | 40                                | 2                               | 0                         |
| M.Sc. II           | 43                                | 0                               | 0                         |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Students qualifying Competitive Examinations from 2016-17:

|   |                                       |
|---|---------------------------------------|
| Number of Students qualify National level Examinations like : | Total: 3                              |
| i) CSIR-UGC NET -LS   | i) 1 (Abhijeet Kulkarni);             |
| ii) ICMR-SRF  | ii) 1 (Shreyas Kumbhare)              |
| iii) SET  | iii) 1 (Jayashree Khadilkar, 2016-17) |

31. a) Scholarships:

|   |   |   |
|---|---|---|
| 1 | Divya Shah  | Lila Poonawalla Foundation Scholarship    |
| 2 | Priyanka Manani, Bhakti Thakkar, Shivani Kulkarni | Weikfield Malhotra Foundation Scholarship |
| 3 | Sanchita Gramopadhye                              | DST-Inspire Scholarship                   |

b) Staff have sponsored 2 students to participate in International Symposium; additionally 2 students were sponsored by scientists (Dr. Yogesh Shouche, Dr. Tapan Chakravarty) from MCC-NCCS and one student by Dr. Ashish Polkade for the same.

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

**1. Visits:**

| Sr. No. | Class    | Date of visit | Institute/ Industry visited                                 | What seen   | No of students | Accompanying teachers  |
|---------|----------|---------------|---|---|----------------|--|
| 1       | MSc I    | 07.10.16      | MCC-NCCS, Sai Trinity Building, Pune                        | Automated Gene Sequencers, MALDI & FAME facilities                                  | 43             | Dr. Manasi Tukdeo, Mr. Shrikant Bhute, Ms. Yashashree Waikar |
| 2       | MSc II   | 14.10.16      | National Centre for Cell Science, Pune                      | FACS facility   | 42             | Dr. Sougata Ghosh, Ms. Yashashree Waikar, Ms. Amruta Godbole |
| 3       | M.Sc. II | 15.10.16      | PMC's Sewage Treatment Plant, near Dr. Naidu Hospital, Pune | Primary and secondary treatment plant, Grit removal, chlorination and aeration tank | 42             | Dr. Kavita Parekh, Dr. Sougata Ghosh, Ms. Amruta Godbole     |

2. **Interactions:** of current students with **well-placed alumni** in order to make students aware of opportunities available and skill-sets required:

- Gaurav Gunjal, SRF, IISc, Bangalore

**3. Workshop Conducted: In addition to those mentioned earlier:**

Members of Organizing team: Mrs. Sneha Ogale, Dr. Mrs. Neelima Kulkarni

| Sr. No. | Dates               | Topic  | Organized by  | Class  | No. of students |
|---------|---------------------|--|---|--------|-----------------|
| 1       | 16.9.16 and 17.9.16 | Two day International Symposium on Microbial Ecology and Systematics | AMI (Pune Unit) in collaboration with MCC-NCCS at NCL | M. Sc. | 14              |

**4. Training course conducted:**

| Sr. no. | Title  | Status   |
|---------|--|--|
| 1       | Certificate Course: "Applied Techniques in Industry and Laboratories".<br>Coordinator: Dr. Mrs. Kavita Parekh, Assistant Coordinators: Mr. Prasad Deshmane & Ms Gauri Bhagat | <b>Sanctioned by UGC;</b> started in academic year (2012-13) |

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities:**

1. **Water Potability Testing:** of **drinking water** available at our college, which is a basic need of everybody in the college. This activity was undertaken by T.Y.BSc. Microbiology students.
2. **Financial Aid:**
  - a) Staff members of the department have given financial support to a student for his educational fees: A sum of Rs. 4000/- to Hanuman Dighe (MSc II)
  - b) Staff members have also contributed to "Student Welfare Fund" established by all the staff members of the college.
  - c) Donation to Manavya from the profits of Vividha stall, 'Sonar Bangla', Jan 2016.

## Department of Physics

4. Names of Interdisciplinary courses and the departments / units involved:
- Presently students are working for their projects in other departments like Electronics, Chemistry, Microbiology and Biotechnology
  - Some students are also doing projects with Department of Electronic Science, Savitribai Phule University of Pune.
7. Courses in collaboration with other universities, industries, foreign institutions, etc.

| Courses   | Name of the Institution |
|---|-------------------------|
| Skill development course titled <b>“Repair and Maintenance of Electrical Home Appliances”</b> | Govt. ITI, Aundh, Pune  |

10. List of senior visiting faculty:

| Sr. No. | Name of the Visiting Faculty                      |
|---------|---|
| 1       | Dr. Vinay Malik – Department of Biotechnology     |
| 2       | Dr. Mukula Kulkarni – Department of Chemistry     |
| 3       | Mr. Niket Tajane – Department of Computer Science |
| 4       | Dr. Saugato Ghosh – Department of Microbiology    |

12. Qualifications of teaching staff with D.Sc. / D. Lit /Ph.D. / M. Phill. /P.G.:

|                                    |    |
|------------------------------------|----|
| Ph.D. (Registered)                 | 01 |
| Ph.D. (Registration under process) | 01 |

16. Student projects:

| Sr. No. | Title of Project  | In collaboration with  |
|---------|---|--|
| 1       | Development of hearing prosthesis using mechanical transducer                           | Department of Electronic Science, Savitribai Phule Pune University |
| 2       | Analysis of solar panel efficiency.   | Department of Electronic Science                                   |
| 3       | Evaluation of antimicrobial activity of metal nano particles using electrical impedance | Department of Microbiology   |
| 4       | Optimization of parameters to improve adhesive properties of ink used in Tabla.         | Department of Chemistry  |



|   |  |                         |
|---|--|-------------------------|
| 4 | Synthesis and characterization of physicochemical properties of ink used in Tabla. | Department of Chemistry |
|---|--|-------------------------|

## 17. Achievements by faculty and students:

**Faculty:****Mrs. Varsha Joshi -**

1. Online course “**Learning physics through simple experiments**” by Dr. H.C. Verma was completed successfully during 20 September 2016 to 20 November 2016.
2. Attended National conference titled “**Environment And Development**” On 9<sup>th</sup> and 10<sup>th</sup> September 2016 at B. N. Purandare College, Lonawala.
3. Attended State Level conference titled “**Role of e-learning in Higher Education**” on 29<sup>th</sup> and 30<sup>th</sup> September 2016 at B. R. Gholap College, Sagavi, Pune.

**Mr. Mahendra Waghmare –**

- Presented a paper at 6<sup>th</sup> International Science Congress (ISC) 2016 titled ‘Synthesis and characterization of Dy<sup>3+</sup> Doped Ni-Co Nanoferrite’. 8<sup>th</sup>-9<sup>th</sup> December, 2016 organised by International Science Community Association in collaboration with Hutatma Rajguru Mahavidyalaya.

**Mrs. Chhaya Abnave -**

1. Online course “**Learning physics through simple experiments**” by Dr. H.C. Verma was completed successfully during 20 September 2016 to 20 November 2016.
2. Attended a workshop “**Joy of Learning Physics through Demonstrations**” at Mahatma Phule Mahavidyalaya, Pimpri.

**Mrs. Archana Gadre-**

1. Online course “**Learning physics through simple experiments**” by Dr. H.C. Verma was completed successfully during 20 September 2016 to 20 November 2016.

**Students:**

1. A student of T.Y.B.Sc. Harsh Kamble attended “**Summer school in Physics**” programme (SSP2016) conducted by and at Dept. of Physics, SPPU, Pune, from 9<sup>th</sup> to 20<sup>th</sup> May 2016.
2. Students of T.Y.BSc Mr. Sangram Gholap and Mr. Kalpesh Mahamunkar Presented a poster titled “**Antimicrobial Activity using Electrical Impedance; a Biological Approach**” in Avishkar 2016, Zonal Level Research Project Competition of SSPU held at SP College Pune on 19 -12-2016
3. Students of T.Y.B.Sc. Ruttika Kedare Presented a poster titled “**Plastic Bricks**” in Avishkar 2016, Zonal Level Research Project Competition of SSPU held at SP College Pune on 19 -12-2016
4. Mr. Nitin Bhosale and Ruttika Kedare attended a Guest lecture titled “**Solar Energy**” on 25<sup>th</sup> November 2016 at F.C. College, Pune.

5. Miss. Rutticka Kedare of T.Y.B.Sc. and Mrs. Varsha Joshi presented a research paper '**Development and Analysis of Bricks made from waste Plastic Bags: Plastic Brick**' at the international conference on GO Green organized by C.T.Bora College, Shirur on 12-13 January 2017.

### Science Exhibition

Students participated enthusiastically in project, model competition and poster competition of the science exhibition Anubhuti. About 30 students participated in the exhibition.

- Harsh Kamble and Yash Kamble students of T.Y.B.Sc. got first prize in poster "Hearing Prosthesis" at college level.
- Ruttika Kedare a student of T.Y.B.Sc. won the third prize in poster on "Plastic brick" at college level.
- Nachiket Kortikar a student of T.Y.B.Sc. won second prize in project competition on "Slayer exciter Circuit" at college level.

### 18. Seminars / Conferences/ Workshops organized and source of funding

- Department had organized a workshop on "**Advance Synthesis Methods**" for T.Y. BSc Physics students under DBT star college Scheme, Government of India, New Delhi. Dr. Jayashree Pant and Dr. Sopan Rathod, Department of Physics, Abasaheb Garware College, Pune, Dr. Mukula Kulkarni, Department of Chemistry, Modern College, Ganeshkind were the resource persons.

### 20. Details of Infrastructural facilities

3 additional computers are allotted to the department.

### 22. Details of student enrichment programmes :

- **Guest Lecture :**  
By Dr. Sadhana Natu was organized for T.Y. B.Sc. students on "Life Skill Management".
- **Field visit :**  
F.Y.B.Sc. and S.Y.B.Sc. — Visit was organized on 30<sup>th</sup> September 2016 at Govt. ITI, Aundh, Pune

### 24. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Department celebrated an alumni meet.
- To help F.Y. B.Sc. students understand the basic concepts in physics, small educational video clips were displayed and discussed along with the regular practical sessions.
- Survey of electricity consumption was conducted by the department for energy audit.

## Department of Statistics

### 1) **Summer internship program:-**

As a consequence of linkage with NSSO, Pune, two students could get the summer internship in May, June-2016. The details are as under:

| Sr. No. | Name of the student | Title of the project   | Class     | Name of the guide   |
|---------|---------------------|--|-----------|---|
| 1.      | Mayur Mahajan       | Comparative study of RPC data for Jan to Dec.2015  | F.Y.B.Sc. | Dr. V Parameswaran<br>Mr. P. M. Deshpande<br>Mr. Narendra Patil |
| 2.      | Shubham Kute        | Comparative study of urban frame survey data 2007-2012 and 2012-2017 in Satara, Wai and Karad. | F.Y.B.Sc. | Dr. V Parameswaran<br>Mr. P. M. Deshpande<br>Mr. Narendra Patil |

### 2) **REPORT- “NATIONAL STATISTICS DAY” SPONSERED BY NSSO - 29/06/2016**

- The ministry of Statistics and Program Implementation (MOSPI), Government of India celebrates 29<sup>th</sup> June , the birth anniversary of Late Prof. P. C. Mahalanobis, as Statistics Day every year, in recognition of his notable contribution in Statistics towards nation's planning process and socioeconomic development.
- In year 2016, this program was held by our institute, Modern College, Ganeshkhind, Pune-16, on 29<sup>th</sup> June 2016.
- The presence of Dr. Sanjay Kharat (Principal, Modern College, Ganeshkhind, Pune-16), Dr. David Hangal (H.O.D.-Department of Statistics, SPPU), Mr. Uday Deshmukh (Chief Statistician, Government of Maharashtra) graced the inaugural function.

The theme of “Statistics Day-2016” was “Agriculture and Farmer's welfare”.

The following statisticians gave their presentations on this topic:

| Sr. No. | Name of the person      | Designation         | Name of the Institue                 |
|---------|-------------------------|---------------------|--------------------------------------|
| 1.      | Mr. S. M. Sarwade       | D.D. & H.O.         | NSSO, Pune.                          |
| 2.      | Dr. Amita Dharmadhikari | Associate Professor | Modern College, Ganeshkhind, Pune-16 |
| 3.      | Dr. Shalini Teke        | Associate Professor | S. P. College, Pune                  |
| 4.      | Charuta Dabir           | Assistant Professor | Fergusson College, Pune              |
| 5.      | Dr. Aakanksha Kashikar  | Assistant Professor | SPPU, Pune                           |
| 6.      | Dr. Nanda Rajput        | Associate Professor | Garware College, Pune                |

Undergraduate and post graduate students, who did summer internship at NSSO, presented their work done in the projects.

**3) Research activities:-**

a) Research publication:-

Title:- “An effective Display of MPML Bus Time: Use of Stem and Leaf Plot”

Author :- Dr. A. A. Dharmadhikari, Sonia S. Joshi

“Dnyanmaya”, Pune - Vol. I-Issue 3, December-2015-February 2016, ISSN No. 2395-7484, pp 49-52.

b) Ongoing research projects:-

A UGC MRP (35861 - Title “Empirical study of effect of pre-birth education on child development by using advanced statistical methods)

Total grant - Rs. 12,53,600.

Principal investigator:- Dr. A. A. Dharmadhikari

Grant received Rs. 8,80,600 in April-2016.

## Department of Zoology

1. Names of programs offered:

| Sr. No. | Level           | Programmes offered         |
|---------|-----------------|----------------------------|
| 1.      | UG              | F.Y.B.Sc.                  |
|         |                 | S.Y.B.Sc.                  |
|         |                 | T.Y.B.Sc.                  |
| 2.      | PG              | M.Sc. Part I               |
|         |                 | M.Sc. Part II (Entomology) |
| 3.      | Research Center | M.Phil. & Ph.D.            |

2. Courses in collaboration with other universities, industries, foreign institutions etc:  
Skill Development Course (Government Sericulture Unit Baramati, CBRTI Pune, ZSI Pune)
3. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Sr. | Name                   | Qualification          | Designation         | Special subject   | Exp. years | Ph.D./ M.Phil. students guided |
|-----|------------------------|------------------------|---------------------|-------------------|------------|--------------------------------|
| 1   | Dr. Sanjay S. Kharat   | M.Sc., Ph.D., LLB, MBA | Principal           | Animal Physiology | 25         | 6                              |
| 2   | Dr. S.A. Inamdar       | M.Sc. Ph.D.            | Head                | Entomology        | 18         | 3                              |
| 3   | Dr. R.V. Kshirsagar    | M.Sc. Ph.D. B.Ed.      | Associate professor | Entomology        | 20         | 6                              |
| 4   | Mr. Kishor A. Gound    | M.Sc.NET JRF SET, GATE | Assistant professor | Zoology           | 3          | NIL                            |
| 5   | Mrs. Trupti Kale       | M.sc. SET              | Assistant professor | Zoology           | 3          | NIL                            |
| 6   | Dr. Preeti More Kamble | M.Sc. Ph.D.            | Assistant professor | Zoology           | 0.5        | NIL                            |
| 7   | Mr. Pradeep Kumkar     | M.Sc.                  | Assistant professor | Zoology           | 0.5        | NIL                            |
| 8   | Miss Chandani Verma    | M.Sc.                  | Assistant professor | Zoology           | 0.5        | NIL                            |
| 9   | Mr. Pankaj Gorule      | M.Sc.                  | Assistant professor | Zoology           | 0.5        | NIL                            |

## 4. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| Sr. No. | Name of the faculty      | Nature of work   | Details                         |
|---------|--------------------------|------------------|---------------------------------|
| 1       | Dr. A. N. Latey          | Visiting faculty | SPPU, Pune                      |
| 2       | Dr. Manjeet Arora        | Visiting faculty | Wadia College Pune              |
| 3       | Dr. Yogita Shah          | Visiting faculty | Modern College, GK              |
| 4       | Dr. Soniya Joshi         | Visiting faculty | Modern College, GK              |
| 5       | Dr. M. Paingankar        | Guest Lecture    | SPPU, Pune                      |
| 6       | Dr. Sudha Ponnusamy      | Guest Lecture    | IBB, SPPU, Pune                 |
| 7       | Dr. Sudhir Ujalamkar     | Guest Lecture    | SPPU, Pune                      |
| 8       | Dr. D. G. Naik           | Guest Lecture    | ARI, Pune                       |
| 9       | Dr. Vishnu Vaze          | Guest Lecture    |                                 |
| 10      | Dr. Baban Ingole         | Guest Lecture    | NIO, Goa                        |
| 11      | Dr. Pandit Radhakrishnan | Guest Lecture    | SPPU, Pune                      |
| 12      | Dr. B. B. Nath           | Guest Lecture    | SPPU, Pune                      |
| 13      | Dr. S. Basavarajappa     | Guest Lecture    | University of Mysore, Karnataka |
| 14      | Dr. Rohit Vartak         | Guest Lecture    | Pune                            |
| 15      | Dr. Girish Kadadevaru    | Guest Lecture    | Karnataka University Dharwad    |
| 16      | Dr. Satish Pandey        | Guest Lecture    | Ela Foundation, Pune            |
| 17      | Dr. Kedar Ahire          | Guest Lecture    | SPP University, Pune            |

## 5. Percentage of classes taken by temporary faculty – programme-wise information

| Sr. no. | Year    | % of classes by temporary faculty |    | % of classes by Permanent faculty |    |
|---------|---------|-----------------------------------|----|-----------------------------------|----|
|         |         | UG                                | PG | UG                                | PG |
| 1       | 2011-12 | 76.93                             | NA | 23.07                             | NA |
| 2       | 2012-13 | 76.93                             | NA | 23.07                             | NA |
| 3       | 2013-14 | 57.69                             | NA | 42.3                              | NA |
| 4       | 2014-15 | 62.71                             | 75 | 37.28                             | 25 |
| 5       | 2015-16 | 62.28                             | 80 | 37.71                             | 20 |
| 6       | 2016-17 | 62.28                             | 80 | 37.71                             | 20 |

## 6. Qualification of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

| Sr. no. | Name                 | Qualification            |
|---------|----------------------|--------------------------|
| 1       | Dr. Sanjay S. Kharat | M.Sc., Ph.D., LLB, MBA   |
| 2       | Dr. S.A. Inamdar     | M.Sc. Ph.D.              |
| 3       | Dr. R.V. Kshirsagar  | M.Sc. Ph.D. B.Ed.        |
| 4       | Mr. Kishor Gound     | M.Sc. NET-JRF, SET, GATE |
| 5       | Mrs. Trupti Kale     | M.sc. SET                |
| 6       | Dr. Preeti Kamble    | M.Sc. Ph.D.              |
| 7       | Mr. Pradeep Kumkar   | M.Sc.                    |
| 8       | Miss Chandani Verma  | M.Sc.                    |
| 9       | Mr. Pankaj Gorule    | M.Sc.                    |

7. Research center/facility recognized by the University: **Yes.**

## 8. Areas of consultancy and income generated: Stem cells and Agricultural Entomology

9. **Student projects:-**

Percent of students who have done in-house projects including inter-Departmental/programs

| Category          | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|-------------------|---------|---------|---------|---------|---------|---------|
| In-house projects | -       | 4.28 %  | 13%     | 36.58 % | 48.65%  | 100%    |

- Percentage of students placed for project in organization outside the institute i.e. Research lab/industry/other agency: 4.76% of M.Sc students

## 10. List of eminent academicians and scientist/visitors to the department:

| Sr. No. | Name of the faculty   | Details                               |
|---------|-----------------------|---------------------------------------|
| 1       | Dr. Kedar Ahire       | SPP University, Pune                  |
| 2       | Mr. Manoj Vaikar      | SPP University, Pune                  |
| 3       | Dr. Abhay Khandagale  | Ramkrushna More College, Akurdi, Pune |
| 4       | Dr. Anjali Siras      | NCCS, Pune.                           |
| 5       | Dr. S.G.Deshpande     | NCL, Pune                             |
| 6       | Dr. Anjolina Jaykumar | Helth Science, SPPU, Pune.            |
| 7       | Mrs. Jayashree Kute   | Whirlpool Company, HR Mumbai          |

## 11. How many students have cleared national or state competitive examinations such as NET, SET, GATE, Civil Services and Defence Services

- Dhananjay Gire NET (2016)

13. Details of Infrastructural facilities:
  - a) Library: 1010 Books worth Rs. 4, 60,958 in central library
  - b) Internet facility for Staff and students: 7 computers with internet connection and four terminals
14. Participation in institutional social responsibility and extension activities.

| Sr. No. | Activity |
|---------|----------|
| 1       | Zoocraft |
| 2       | Anubhuti |
| 3       | DBT Week |

15. Highlight of the department
  - Zoology M.Phil. & Ph.D. research center.



## Faculty of Commerce

1. Courses in Collaboration with other Universities, Industries, Foreign Institutions etc.

| Name of the Institution                             | Activity                               |
|---|--|
| Lee Spa   | Health and personality grooming        |
| Maharashtra centre for entrepreneurship development | Entrepreneurship Development Programme |
| Mahindra and Mahindra                               | Soft Skill Development                 |

2. Qualifications of teaching faculties with

- Ph.D. 3
- M.Phil. 2
- Registered for Ph.D. 9
- Registered for M.Phil. 1

3. Publications

- Number of papers published in peer reviewed journals (national/International) by faculty and students.
- International: 21
- National: 20
- Articles: 12

| Sr. No. | Name of the Faculty    | International | National | Articles |
|---------|------------------------|---------------|----------|----------|
| 1       | Mrs. Shubhangi Joshi   | -             | 1        | -        |
| 2       | Mrs. Manjusha Kulkarni | -             | 1        | -        |
| 3       | Shrdsdha Awasare       | -             | 1        | -        |
| 4       | Sujata Deshmukh        | -             | 1        | -        |

- In-house Publication:

|                     |  |
|---------------------|--|
| 1. Commerce Horizon | Research Magazine published for students on the theme e-Commerce |
|---------------------|--|

## 4. Awards/ recognition received by faculties and students.

Students:

| S. No | Achievements                           | Total Students |
|-------|--|----------------|
| 1     | Presented paper at national conference | 2              |

## 5. List of Eminent academicians and Scientist/ Visitors to the department.

| S. No. | Name of Guest   | Details            |
|--------|-----------------|--------------------|
| 1      | Pradnya Godbole | DeAsara Foundation |

## 6. Seminars/ Conferences/ Workshops organized and the source of funding.

## A. National Conference :

BCUD sponsored National Conference on “Changing Business Culture – Challenges and Opportunities”

## B. Workshop /Training Programmes for Students

(a) One day workshop Insurance Connect

(b) Hands on Training in Vidya Sahakari Bank

## 7. Student profile Programme/ course wise

| Name of the Course | Year    | Applications received | Selected | *M  | *F  | Pass percentage |
|--------------------|---------|-----------------------|----------|-----|-----|-----------------|
| B.Com              | 2015-16 | 1905                  | 1349     | 640 | 629 | 72%             |
| M.Com              | 2015-16 | 184                   | 113      | 49  | 64  | 93.75%          |
| BBA (CA)           | 2015-16 | 324                   | 225      | 111 | 114 | 71%             |

## 8. Diversity of students.

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|--------------------|-----------------------------------|---------------------------------|---------------------------|
| B.Com (2015-16)    | 94.72                             | 5.21                            | 0.07                      |
| M.Com (2015-16)    | 94.42                             | 5.58                            | 0.07                      |
| BBA (CA) (2015-16) | 96.52                             | 3.48                            | NIL                       |

## 9. How many students have cleared national and competitive examinations : 1

10. Number of students receiving financial assistance from college, university, government or other agencies.

- Our Alumni Mr. Sandeep Gollapadi and Ameya Nisal have initiated endowment scholarship. Three needy and deserving students get financial assistance every year.

Details on student enrichments programs (special lectures/ workshops/ seminar) with external experts.

|   | Activities  | Details  |
|---|---|--|
| 1 | Hands on Training:  | Hands on training at Vidya Sahakari Bank: 12 branches. 85 students took the training.  |
| 2 | Insurance Connect one day workshop                            | 112 students participated.   |
| 2 | Bank Connect.   | Commerce faculty has organised a programme to support PRADHAN MANTRI JAN DHAN YOJANA in which students guided the villagers in nearby areas to open bank accounts in nationalised Bank. Hundred bank accounts were opened under this initiative. |
| 3 | Cost Fest:  | It is conducted for costing students to make them aware about practical application of the subject.  |
| 4 | Poster competition on senior citizen Banking module designing | Poster competition on senior citizen Banking module designing  |
| 5 | Visit to college of agricultural banking RBI                  | 35 students participated   |
| 6 | Collaboration with DCRC Library for research work             | 35 students benefitted   |
| 7 | Industrial visit to 'Barclays'                                | 60 students participated   |

11. Teaching methods adopted to improve student learning.

- Presentations – Group & Individuals
- Group discussions on current topics & issues related to the curriculum.
- Role plays
- Case study – framing and solving
- Surveys & quiz on the topics taught
- Practical based on field study
- LCD projector for lecturers and power point presentations by students
- Educational film shows
- Use of internet and web resources by teachers and students
- Educational Visits

## 12. Participation in institutional social responsibility (ISR) and extension activities.

| S. No | Activities   | Details  |
|-------|--|--|
| 1     | Agro to Campus   | Sell of organic farm products directly from farms.   |
| 2     | Assistance to Vidya Sahakari Bank  | During the training of 85 students at 12 branches our students served the bankers and society during the policy of demonetisation of high denomination currency. |
| 3     | Rice Plantation Activity   | On 2 <sup>nd</sup> August, 2016 24 students with 2 faculties visited Sate gaon Maval Tahasil to help the Farmers for Rice Plantation Activity.                   |
| 4     | Bank literacy program on cashless movements  | On 27 <sup>th</sup> Dec 16 this program was coordinated with Financial Literacy Instutuion of Vidya Bank. Speaker was Mr. Vidyadhar Anaskar                      |
| 5     | Assistance of M.Com. students to Electronics Department for e-waste management and to English department plastic waste management. | Electronic and electric Waste and plastic waste collection at residential colony- Oval Nest at NDA.  |

## Central Library

### Academic and Teaching :

- **Flipped Classroom:** Library has initiated a new flipped classroom for giving online education and training to our patrons using new educational open source softwares. Prepared online tutorials and videos for demonstration of how to access various electronic resources, OPAC and new audio visual resources available for reference purpose.
- **Online Survey:** Conducted online survey of all readers and generated automatic report

### Criteria 3 :

#### Book: 01

1. Smet, E.D. & **Dhamdhere, S. N.** (2016). "E-discovery tools and applications in Modern Libraries" IGI Global. 2016. ISBN13: 9781522504740|ISBN10: 1522504745|EISBN13: 9781522504757|DOI: 10.4018/978-1-5225-0474-0. Release Date: July, 2016|Copyright: © 2016 |Pages: 400

#### Research Papers in Peer Reviewed Journals: 04

2. Kannan, K.; Basha, Imtiaz & **Dhamdhere, S. N (2015)**. An assessment of satisfaction of research scholars: a case study. International Journal of Library Science. Vol.14 Issue 1, October 2015. ISSN 0975-7546. 1-13.
3. **Dhamdhere, S.N.** & Smet, E.D. (2015). The use of web services for patron education and information by selected top university libraries in USA and India. Journal of Teaching and Education. ISSN: 2165-6266, Vol. 04 Issue 02,175–196.
4. **Dhamdhere, S.N.** & Lihitkar, R. 2016). Integrated Information Discovery Tools in Indian Libraries: A Case Study. Dnyanmay:A Multi Disciplinary Peer Reviewed Research Journal "Integrating Knowledge through Research". Vol.I, Issue 3, December 2015-February 2016. ISSN No.2395-7484. 17-25.
5. **Dhamdhere, S.N. (2016)**. "Flipped Classroom for Educating Library Patrons Online: A Case Study". International Journal of Advanced Engineering Research and Science (IJAERS) (ISSN: 2349-6495(P)| 2456-1908(O). Vol.3, Issue. 8, August 2016. Impact Factor: 4.192.Thomson Reuters ResearcherID: P-3738-2015 ijaer, Thomson Reuters ResearcherID ORCID: 0000-0003-3052-1512, 1-21

#### Papers accepted at the International Conference: 02

6. **Harvard: Dhamdhere, S.N. (2017)**. "Universities Should Pay Attention To Improve Their Library Web-Based Services To Place Higher In World Ranking System". Paper accepted for oral presentation at the International Journal of Arts & Sciences'

(IJAS) International Conference for Education which will be held at Harvard Medical School, 77 Avenue Louis Pasteur, Boston, Massachusetts. The conference will run from 22 to 26 May 2017.

7. **Cambridge: Dhamdhere, S.N.;** Smet, E. D. & Lihitkar, R (2017). "Ranking of world universities correlates with their library rankings". Paper accepted for oral presentation at **6th International Conference on Educational and Information Technology (ICEIT 2017)** to be held during **March 7-10, 2017 in Cambridge, UK** at **Clare College** is the second oldest of Cambridge's thirty-one colleges organized by American Research Association, USA. The paper will be publishing in one volume of International Journal of Information and Education Technology (IJIET) (ISSN: 2010-3689) and indexed by EI(INSPEC, IET), Cabell's Directories, DOAJ, Electronic Journals Library, Engineering & Technology Digital Library, EBSCO, Google Scholar, Crossref and ProQuest.

#### **Book Chapters: 06**

1. Goovaerts, M.; Nieuwenhuysen, P. & **Dhamdhere, S. N.** (2016). VLIR-UOS Workshop 'E-Info Discovery and Management for Institutes in the South': Presentations and Conclusions, Antwerp, 8-19 December, 2014. E-Discovery Tools and Applications in Modern Libraries. IGI Global. 2016. ISBN13: 9781522504740|ISBN10: 1522504745|EISBN13: 9781522504757|DOI: 10.4018/978-1-5225-0474-0. 1-40.
2. **Dhamdhere, S.N.** & Lihitkar, R. (2016). Commercial and Open Access Integrated Information Search Tools in Indian Libraries. E-Discovery Tools and Applications in Modern Libraries. IGI Global. 2016. ISBN13: 9781522504740|ISBN10: 1522504745|EISBN13: 9781522504757|DOI: 10.4018/978-1-5225-0474-0. 41-55.
3. **Dhamdhere, S. N.** (2016). Florida Virtual School. Sage Encyclopedia of Online Education. Pub. Date: 2016, SAGE Publications, Inc., Thousand Oaks, Print ISBN: 9781483318356 Online ISBN: 9781483318332  
DOI: <http://dx.doi.org/10.4135/9781483318332.n156> . 489-490
4. **Dhamdhere, S. N.** (2016). Textbook Websites. Sage Encyclopedia of Online Education. Pub. Date: 2016. SAGE Publications, Inc. Thousand Oaks, Print ISBN: 9781483318356 Online ISBN: 9781483318332. DOI: <http://dx.doi.org/10.4135/9781483318332.n361>. 1126
5. **Dhamdhere, S. N.** and Danver, S. L. (2016). Massive Open Online Courses. Sage Encyclopedia of Online Education. Pub. Date: 2016. Publishing Company: SAGE Publications, Inc. City: Thousand Oaks, Print ISBN: 9781483318356 Online ISBN: 9781483318332. DOI: <http://dx.doi.org/10.4135/9781483318332.n227>. 716-719

6. **Dhamdhere, S. N.** and Danver, S. L. (2016). Videoconferencing. Sage Encyclopedia of Online Education. Pub. Date: 2016. Publishing Company: SAGE Publications, Inc. City: Thousand Oaks, Print ISBN: 9781483318356 Online ISBN: 9781483318332.DOI: <http://dx.doi.org/10.4135/9781483318332.n379>. 1163-1164

**Criteria 4:**

- **Koha Library Automation Software:** Installed new Koha open source software with international standards and advanced features for library automation. Web OPAC made available on our college website.
- **DSPACE Digital Library Software:** Installed Digital library software DSpace for managing digital resources of our library and creating Institutional Repository. We have initiated to upload and index the electronic documents in this software like question papers, syllabus, audio books, CDs, DVDs, project reports and faculty publications
- **FEDGATE:** We have purchased FEDGATE single search engine for all library and online subscribed resources on a single platform. Readers will able to access NLIST resources, library catalogue, Institutional repository and other open access databases through this search engine.
- **TURNITIN:** Plagiarism check software is made available to all readers of our college.
- **SHELVES:** Added new shelves for increasing collection of book of Rs. 2,17,000/-
- **COMPUTERS:** Replaced 13 PCs with new PCs at UGC Network Resource Centre for providing E-Library facility to our students and staff.
- **BOOKS:** Added during 1<sup>st</sup> April 2016 to 31<sup>st</sup> December 2016
  - Total Books: 701      Amount of Rs. 2,91,449/-
  - Order Placed: 172      Amount of Rs. 1,25,248/-

## Department of Physical Education and Sports

### 1. Interclass Team Events

| Sr. No. | Name of the Student  | Class       | Event             | Performance  |
|---------|----------------------|-------------|-------------------|--------------|
| 1       | Gaurav Kambale       | SYBA        | 3-A Side Football | Third Place  |
| 2       | Aniket Bhope         | FYBCom      | 3-A Side Football | Second Place |
| 3       | Ebou Jobe            | FYBA        | 3-A Side Football | First Place  |
| 4       | Ebou Jobe            | FYBA        | 3-A Side Football | Best Player  |
| 5       | Shubhankar Nitnaware | FYBBA CA    | Basketball        | Third Place  |
| 6       | Vaibhav Deshmukh     | FYBSc Comp. | Basketball        | Second Place |
| 7       | Roger Pagare         | SYBVoc      | Basketball        | First Place  |
| 8       | Roger Pagare         | SYBVoc      | Basketball        | Best Player  |
| 9       | Pranali Supe         | SYBSc       | Dodgeball         | Second Place |
| 10      | Pooja Jeenwal        | FYBA        | Dodgeball         | First Place  |
| 11      | Saivibhuti Patil     | FYBA        | Dodgeball         | Best Player  |
| 12      | Shaweri Londhe       | SYBSc       | Throwball         | Second Place |
| 13      | Shrutika Mahamunkar  | FYBio Tech  | Throwball         | First Place  |
| 14      | Smita Khatua         | FYBio Tech  | Throwball         | Best Player  |
| 15      | Akash Nalawade       | SYBCom      | Volleyball        | Third Place  |
| 16      | Monika Mohite        | FYBio Tech  | Volleyball        | Second Place |
| 17      | Palash Kedari        | Mcom        | Volleyball        | Second Place |
| 18      | Nilisha Bhosale      | SYBSc       | Volleyball        | First Place  |
| 19      | Rushikesh Chaudhari  | FYBBA CA    | Volleyball        | First Place  |
| 20      | Nilisha Bhosale      | SYBSc       | Volleyball        | Best Player  |
| 21      | Rushikesh Chaudhari  | FYBBA CA    | Volleyball        | Best Player  |

### 2. Interclass Individual Events

| Sr. No. | Name of the Student | Class       | Event                   | Performance  |
|---------|---------------------|-------------|-------------------------|--------------|
| 1       | Abhishek Devkar     | FYBVoc      | Badminton (Doubles)     | Second Place |
|         |                     |             | Badminton (Mix Doubles) | Second Place |
| 2       | Aishwarya Madigeri  | FYBSc Comp. | Badminton (Doubles)     | Third Place  |
| 3       | Ameya Shelke        | FYBio Tech  | Badminton (Mix Doubles) | Third Place  |
| 4       | Amogh Padhye        | FYBSc Comp. | Badminton (Single)      | First Place  |
| 5       | Ashutosh Bahirat    | FYBCom      | Badminton (Single)      | Second Place |
|         |                     |             | Badminton (Doubles)     | First Place  |



| Sr. No. | Name of the Student | Class          | Event                      | Performance  |
|---------|---------------------|----------------|----------------------------|--------------|
| 6       | Avinash Jadhav      | TYBCom         | Chess                      | Second Place |
| 7       | Divya Khengale      | FYBCom         | Badminton (Doubles)        | Third Place  |
| 8       | Gaurav Hazare       | FYBSc<br>Comp. | Badminton (Single)         | Third Place  |
| 9       | Gaurav Kambale      | SYBA           | Table Tennis (Doubles)     | First Place  |
|         |                     |                | Table Tennis (Single)      | Third Place  |
| 10      | Gayatri Katkam      | FYBBA CA       | Badminton (Single)         | Second Place |
| 11      | James Thomas        | SYBA           | Table Tennis (Doubles)     | First Place  |
|         |                     |                | Table Tennis (Single)      | Second Place |
| 12      | Kalpesh Kadam       | MSc Comp       | Badminton (Doubles)        | Third Place  |
| 13      | Mayur Jadhav        | TYBA           | Badminton (Doubles)        | Second Place |
| 14      | Monika Mohite       | FYBio Tech     | Badminton (Single)         | Third Place  |
|         |                     |                | Badminton (Doubles)        | First Place  |
|         |                     |                | Badminton (Mix<br>Doubles) | Third Place  |
| 15      | Nikhil Jagtap       | TYBCom         | Table Tennis (Doubles)     | Second Place |
| 16      | Prajwal Ghadge      | FYBCS          | Table Tennis (Single)      | First Place  |
|         |                     |                | Table Tennis (Doubles)     | Second Place |
| 17      | Rajkumar Singh      | TYBSc<br>Comp  | Badminton (Mix<br>Doubles) | First Place  |
| 18      | Rohan Telakallu     | SYBSc          | Badminton (Doubles)        | First Place  |
| 19      | Ronit Chandanshiv   | SYBSc          | Chess                      | First Place  |
| 20      | Sayali Jadhav       | FYBVoc         | Badminton (Doubles)        | Second Place |
| 21      | Shubham Darakhe     | SYBCom         | Chess                      | Second Place |
| 22      | Sucheta Naiknaware  | FYBio Tech     | Badminton (Single)         | First Place  |
|         |                     |                | Badminton (Doubles)        | First Place  |
|         |                     |                | Badminton (Mix<br>Doubles) | First Place  |
| 23      | Suyash Ghogare      | FYBCom         | Chess                      | Third Place  |
| 24      | Urja Jadhav         | FYBVoc         | Badminton (Doubles)        | Second Place |
|         |                     |                | Badminton (Mix<br>Doubles) | Second Place |
| 35      | Vaibhav Daware      | MSc Comp       | Badminton (Doubles)        | Third Place  |

**3. Intercollegiate Level Performers**

|   |            |                 |
|---|------------|-----------------|
| 1. Shwetali Phalke                      | FYBCom     | Softball        |
| a. Intercollegiate Softball Competition |            | Bronze Medal    |
| 2. Sonita Dahikambale                   | TYBCom     | Softball        |
| a. Intercollegiate Softball Competition |            | Bronze Medal    |
| 3. Sushama Kedar                        |            | SYBCom Softball |
| a. Intercollegiate Softball Competition |            | Bronze Medal    |
| 4. Apeksha Ranawade                     | FYBA       | Softball        |
| a. Intercollegiate Softball Competition |            | Bronze Medal    |
| 5. Rutuja Kumbharkar                    | FYBCom     | Softball        |
| a. Intercollegiate Softball Competition |            | Bronze Medal    |
| 6. Pranjal Kadam                        | FYBCom     | Softball        |
| a. Intercollegiate Softball Competition |            | Bronze Medal    |
| 7. Upasana Zanke                        | SYBSc      | Softball        |
| a. Intercollegiate Softball Competition |            | Bronze Medal    |
| 8. Sunil Shinde                         | FYBA       | Baseball Silver |
| a. Intercollegiate Baseball Competition |            | Silver Medal    |
| 9. Nikhil Jagtap                        | TYBCom     | Baseball        |
| a. Intercollegiate Baseball Competition |            | Silver Medal    |
| 10. Shahabaz Sayyad                     | TYBCom     | Baseball        |
| a. Intercollegiate Baseball Competition |            | Silver Medal    |
| 11. Amol Dhadwad                        | TYBCom     | Baseball        |
| a. Intercollegiate Baseball Competition |            | Silver Medal    |
| 12. Omkar Pailwan                       | TYBCom     | Baseball        |
| a. Intercollegiate Baseball Competition |            | Silver Medal    |
| 13. Priyawort Phand                     | SYBCom     | Baseball        |
| a. Intercollegiate Baseball Competition |            | Silver Medal    |
| 14. Ashwin daund                        | FY Biotech | Baseball        |
| a. Intercollegiate Baseball Competition |            | Silver Medal    |
| 15. Ekanksh Sasar                       | SYBA       | Baseball        |
| a. Intercollegiate Baseball Competition |            | Silver Medal    |
| 16. Vaibhav Deshmukh                    | FYBSc (CS) | Baseball        |
| a. Intercollegiate Baseball Competition |            | Silver Medal    |
| 17. Mahadev Kasare                      | SYBA       | Baseball        |
| a. Intercollegiate Baseball Competition |            | Silver Medal    |
| 18. Ashutosh Gaikwad                    | SYBA       | Baseball        |
| a. Intercollegiate Baseball Competition |            | Silver Medal    |
| 19. Megha Pardesi                       | SYBA       | Softball        |

**4. Inter Zonal Level Performers**

|   |      |                     |
|---|------|---------------------|
| 1. Megha Pardesi                        | SYBA | Baseball/Softball   |
| a. Intercollegiate Softball Competition |      | Bronze Medal        |
| b. Interzonal Baseball Competition      |      | Baramati Gold Medal |

2. Rushikesh Kale      MCom II      Baseball
  - a. Interzonal Baseball Competition      Baramati      Participation
  - b. Intercollegiate Baseball Competition      Silver Medal
3. Palash Kedari      MCom II      Baseball
  - a. Interzonal Baseball Competition      Baramati      Participation
  - b. Intercollegiate Baseball Competition      Silver Medal
4. Thomas James      SYBA      Boxing
  - a. Intercollegiate Boxing Competition      Gold Medal
  - b. Interzonal Boxing Competition      BJS College, Wagholi  
Participation
5. Prarthana Pawar      Boxing
  - a. Intercollegiate Boxing Competition      Gold Medal
  - b. Interzonal Boxing Competition      BJS College, Wagholi  
Participation

### 5. State Level Performers

1. Hanamanta Regi      SYBA      Inline Hockey
  - a. State Inline Hockey Championship      Nashik      Gold Medal
2. Harshad Joshi      Athletics
  - a. State Athletics Championship      Nagar      Participation
3. Laxman Jadhav      FYBA      Wrestling
  - a. PCMC Wrestling Selection for Maharashtra Kesari      Gold Medal
  - b. Maharashtra Kesari Wrestling Championship      Participation
4. Utkarsh Morankar      FYBCom      Gymnastics
  - a. Intercollegiate Gymnastics Championship      Bronze Medal
  - b. Interzonal Gymnastics Championship      Pravaranagar      Participation
  - c. Open State Gymnastics Championship      Balewadi      6<sup>th</sup> Place

### 6. National Level Performers

1. Akshay Nimbare      MCom Part I      Softball/Baseball
  - a. All India Inter University Baseball Competition : Chandigarh      Bronze Medal
  - b. Interzonal Baseball Competition      Baramati      Participation
  - c. Intercollegiate Baseball Competition      Pune      Silver Medal
2. Malik Shaikh      TYBA      Weight Lifting
  - a. Junior National Championship      Bhuvaneshwar, Orisa  
Participation
  - b. Junior State Weightlifting Competition      Jalgaon      Silver Medal
  - c. Interzonal Weight Lifting Competition      Shrirampur      Gold Medal
  - d. Inter collegiate Weight Lifting Competition      Gold Medal
3. Abhijit Shirke      MA Part I      Athletics
  - a. Ashwamedh Inter University Sport Competition      Parbhani      Silver Medal
  - b. Ashwamedh Inter University Sport Competition      Parbhani      Bronze Medal
  - c. All India Inter University Athletics Championship      Chennai      Participation

4. Rushikesh Patil      FYBCom      Cycling (Track & Road),  
Triathlon
  - a. All India Cycling (Track) Federation Championship  
Kerala      Participation
  - b. All India Cycling (Road) Federation Championship  
Uttar Pradesh      Participation
  - c. All India Inter University Cycling Championship  
Amritsar      Participation
  - d. Triathlon Team Championship      Goa      Participation
  - e. Intercollegiate Cycling Competition      Pune      Gold Medal
  - f. Interzonal Cycling Championship      Pune      Gold Medal
  - g. Interzonal Road Cycling Competition  
Takali Dhokeshwar      Gold Medal
5. Bhagyashri Pingale      MCom Part II      Softball/Baseball
  - a. Amit Joshi National Softball Championship  
Pune      Silver Medal
  - b. Interzonal Baseball Competition      Baramati      Gold Medal
  - c. Intercollegiate Softball Competition      Pune      Silver Medal
6. Varsha Jadhav      MCA Part III      Softball/Baseball
  - a. Amit Joshi National Softball Championship      Pune      Silver Medal
  - b. Interzonal Baseball Competition      Baramati      Gold Medal
  - c. Intercollegiate Softball Competition      Pune      Silver Medal
7. Akshay Fulambarkar      TYBA  
Cycling/Water polo/Swimming/Triathlon/Biathlon
  - a. 70<sup>th</sup> Senior National Aquatic Championship  
Ranchi      Participation
  - b. National Triathlon Championship      Guwahati      Participation
  - c. Triathlon Team Championship      Goa      Participation
  - d. 26<sup>th</sup> Senior Triathlon State Championship      Nanded      Bronze Medal
  - e. 26<sup>th</sup> Senior Triathlon State Championship (Team)      Nanded      Gold Medal
  - f. All India Waterpolo Championship      Ranchi      Participation
  - g. All India Inter University Waterpolo Championship  
Chandigad      Participation
  - h. Interzonal Road and Track Cycling Competition      Participation
  - i. 7<sup>th</sup> Modern Pentathlon National Championship Panjim Goa      Silver Medal
8. Akshay Kadam      MA Part I      Water polo/Swimming/Triathlon
  - a. 78<sup>th</sup> Senior State Championship      Balewadi      Silver Medal
  - b. 70<sup>th</sup> Senior National Aquatic Championship      Ranchi      Participation
  - c. Swimming Federation of India Swimathon      Goa      Participation
9. Shraddha Jadhav      FYBCom      Baseball/Softball
  - a. Inter University Baseball Competition      Chandigad      Participation
  - b. Amit Joshi National Softball Competition      Pune      Silver Medal
  - c. Interzonal Baseball Competition      Baramati      Gold Medal
  - d. Intercollegiate softball Competition      Pune      Silver Medal

- |  |                |                               |
|--|----------------|-------------------------------|
| 10. Sukruti Joshi  | TY Biotech     | Baseball/Softball             |
| a. Intercollegiate softball Competition                              | Pune           | Silver Medal                  |
| b. Amit Joshi National Softball Competition                          | Pune           | Silver Medal                  |
| 11. Vijay Ingale   | TYBCom         | Gymnastics                    |
| a. 50 <sup>th</sup> State Artistic Gymnastics Championship           | Sangali        | 4 <sup>th</sup> Place Vault   |
| b. State Gymnastics Championship                                     | Balewadi       | Participation                 |
| c. State Gymnastics Championship                                     | Balewadi       | Pommel Horse<br>Gold Medal    |
| d. State Gymnastics Championship                                     | Balewadi       | Floor Exercise Bronze Medal   |
| e. All India Inter University National Competition                   | Allahabad      | Selection                     |
| 12. Aditi Kale   | SYBCom         | Cricket/Softball/Baseball     |
| a. West Zone Inter University Cricket Championship                   | Bhopal         | Bronze Medal                  |
| b. All India Inter University Baseball Competition                   | Chandigarh     | Participation                 |
| c. Interzonal Baseball Competition                                   | Baramati       | Gold Medal                    |
| d. Intercollegiate Softball Competition                              | Pune           | Bronze Medal                  |
| e. Amit Joshi National Softball Competition                          | Pune           | Silver Medal                  |
| f. Pune District Cricket Association                                 |                | Best Player of the Year Award |
| 13. Shraddha Talekar   | MA Part II     | Gymnastics                    |
| a. Senior State Gymnastics Championship                              | Pune           |                               |
|  | Floor Exercise | Gold Medal                    |
| b. Senior State Gymnastics Championship                              | Pune           |                               |
|  | Uneven Bar     | Silver Medal                  |
| c. Senior State Gymnastics Championship                              | Pune           |                               |
|  | Balance Beam   | Bronze Medal                  |
| d. Senior State Gymnastics Championship                              | Pune           |                               |
|  | Vaulting Box   | Gold Medal                    |
| e. Senior State Gymnastics Championship                              | Pune           | A.A. Gold Medal               |
| f. 55 <sup>th</sup> Senior artistic Gymnastics National Championship | Gurgaon        | Team Silver                   |
| g. 55 <sup>th</sup> Senior artistic Gymnastics National Championship | Gurgaon        | Vaulting Bronze Medal         |

**Class Championship: SYBSc**

**Faculty Championship: Science**

**Best Sports Person of the Year 2016-2017: Miss Shraddha Talekar (MA Part I)**