

**Annual Quality Assurance Report  
(AQAR)  
2016-2017**

Submitted by:  
Deccan Education Society's  
**Fergusson College (Autonomous)**  
**Pune**

Submitted to:  
**National Assessment and Accreditation Council  
(NAAC)**  
**Bengaluru**

# Internal Quality Assurance Report 2016-2017

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

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

### Part – A

AQAR for the year (for example 2013-14)

2016-2017

#### 1. Details of the Institution

1.1 Name of the Institution

Deccan Education Society's  
FERGUSSON COLLEGE (Autonomous)

1.2 Address Line 1

Fergusson College Road,

Address Line 2

Shivaji Nagar

City/Town

Pune

State

Maharashtra

Pin Code

411004

Institution e-mail address

principal@fergusson.edu

Contact Nos.

(020) 30866000

Name of the Head of the Institution:

Dr. Ravindrasinh Pardeshi, Principal

Tel. No. with STD Code:

(020) 30866000, 30866001

## Internal Quality Assurance Report 2016-2017

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Mobile:

09225340906

Name of the IQAC Co-ordinator:

Dr. Samir S. Terdalkar

Mobile:

09822184006

IQAC e-mail address:

[fciaq@fergusson.edu](mailto:fciaq@fergusson.edu)  
[sterdalkar@fergusson.edu](mailto:sterdalkar@fergusson.edu)

1.3 NAAC Track ID (For ex. MHCOGN 18879)

MHCOGN10491

OR

1.4 NAAC Executive Committee No. & Date:

EC(SC)/10/A&A/4.3

(For Example EC/32/A&A/143 dated 3-5-2004.

This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

1.5 Website address:

[www.fergusson.edu](http://www.fergusson.edu)

Web-link of the AQAR:

<http://www.fergusson.edu/article/iqac.html>

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	-	2004	2009
2	2 <sup>nd</sup> Cycle	A	3.26	2010	2015
3	3 <sup>rd</sup> Cycle	A	3.62	2015	2020
4	4 <sup>th</sup> Cycle	-	-	-	-

1.7 Date of Establishment of IQAC:

DD/MM/YYYY

15/09/2004

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1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*for example AQAR 2010-11 submitted to NAAC on 12-10-2011*)

(i) AQAR	04/08/2011	(2010-2011)
(ii) AQAR	26/09/2012	(2011-2012)
(iii) AQAR	22/07/2013	(2012-2013)
(iv) AQAR	17/09/2014	(2013-2014)
(v) AQAR	04/11/2016	(2015-2016)

## 1.9 Institutional Status

University State  Central  Deemed  Private

Affiliated College Yes  No

Constituent College  Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution Yes  No   
(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education  Men  Women

Urban  Rural  Tribal

Financial Status Grant-in-aid  UGC 2(f)  UGC 12B

Grant-in-aid + Self Financing  Totally Self-financing

## 1.10 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

## 1.11 Name of the Affiliating University (*for the Colleges*)

Savitribai Phule Pune University, Pune,  
Maharashtra.

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

UGC & University

Autonomy by State / Central Govt. / University

University with Potential for Excellence

UGC-CPE

Yes

DBT Star Scheme

Yes

UGC-CE

Yes

UGC-Special Assistance Programme

DST-FIST

Yes

UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

### **2. IQAC Composition and Activities**

2.1 No. of Teachers

12

2.2 No. of Administrative / Technical staff

01

2.3 No. of students

02

2.4 No. of Management representatives

03

2.5 No. of Alumni

1

2.6 No. of any other stakeholder and  
community representatives

00

2.7 No. of Employers / Industrialists

01

2.8 No. of other External Experts

02

2.9 Total No. of members

22

2.10 No. of IQAC meetings held

07

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

Non-Teaching Staff and Students  Alumni  Others

2.12 Has IQAC received any funding from UGC during the year?

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

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

Total Nos.  International  National  State  Institution Level

(Curriculum Development Workshops)

(ii) Themes

- (a) Knowledge Enhancement Programme for Teachers.
- (b) Workshops on Curriculum Designing and Evaluation Techniques

2.14 Significant Activities and contributions made by IQAC

Quality Initiatives promoted by IQAC:

- (a) Knowledge updation programmes / activities for teachers.
- (b) Skill development programmes for students (UG and PG)
- (c) Curriculum development workshops for Second year syllabi under autonomy.
- (d) Setting bench marks for designing syllabi of all programmes
- (e) Designing Add-On Courses
- (f) Academic and Administrative audit for all academic programmes

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### 2.15 Plan of Action by IQAC / Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year \*

<b>Plan of Action</b>	<b>Achievements</b>
(a) Knowledge updation programmes / activities for teachers.	(a) Knowledge updation programmes for teachers was conducted for some specific subjects. This helped the teachers in learning new methods / topics to be included in syllabi under autonomy.
(b) Skill development programmes for students (UG and PG)	(b) Skill enhancement programmes for undergraduate and post graduate students were conducted in specific areas like PYTHON programming, ANDROID programming, WEB UI design techniques.
(c) Setting bench marks for syllabi designing of all programmes	(c) Interactions with teachers of the departments and subject experts was conducted to set certain bench mark while designing the syllabi. Emphasis was given to avoid repetition of topics in all the subjects and focus the content of syllabi (for first and second year on core aspects of the subject)
(d) Curriculum development workshops for Second year syllabi under autonomy.	(d) Every department conducted Curriculum development workshop which helped in designing the second year syllabi under autonomy. Experts/ Academicians apart from Board of Studies were also invited for the workshops and their inputs have helped immensely in designing the curricula.

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(e) Designing Add-On Courses	(e) There were discussions in Heads' Forum meeting as well as in Academic Council on designing some Add-On Courses (Certificate Courses). Five Add-On Courses were decided, which will be implemented in the next academic year
(f) Academic and Administrative audit for all academic programmes	(f) Proforma for A and A was generated by IQAC and given to all departments. Apart from this every department made a presentation of academic attainments in the year 2016-2017. There was sharing of Best Practices.

\* Attach the Academic Calendar of the year as Annexure. (**Please refer to Annexure I**).

2.15 Whether the AQAR was placed in statutory body

Management

Syndicate

Any other body



Provide the details of the action taken

**I. Focus on Designing and developing the syllabi for UG and PG programmes, with inputs from Academia, Subject Experts, Industry and Alumni.**

Knowledge updation programmes for teachers was conducted for some specific subjects. This helped the teachers in learning new methods / topics to be included in syllabi under autonomy. Skill enhancement programmes for undergraduate and post graduate students were conducted in specific areas like PYTHON programming, ANDROID programming, WEB UI design techniques. Interactions with teachers of the departments and subject experts was conducted to set certain bench mark while designing the syllabi. Emphasis was given to avoid repetition of topics in all the subjects and focus the content of syllabi (for first and second year on core aspects of the subject). Every department conducted Curriculum development workshop which helped in designing the second year syllabi under autonomy. Experts/ Academicians apart from Board of Studies were also invited for the workshops and their inputs have helped immensely in designing the curricula.

**II. Planning for introducing “Add-On” Courses/ Value Addition Courses.**

There were discussions in Heads’ Forum meeting as well as in Academic Council on designing some Add-On Courses (Certificate Courses). Five Add-On Courses were decided, which will be implemented in the next academic year.

**III. Evaluation/ Assessment Methods.**

Introduction of Concurrent Evaluation system as discussed in the Academic Council, with 50% Weightages to Internal and External Assessment. Adoption of different methods for evaluating students.

**IV. Academic and Administrative Audit for all Programmes.**

Proforma for A and A was generated by IQAC and given to all departments. Apart from this every department made a presentation of academic attainments in the year 2016-2017. There was sharing of Best Practices. Some Best Practices like Industry Interaction/ participation has been evident in almost all the departments. For Programmes like Computer Science, Biotechnology, Microbiology, Electronic Science and Physics, skill updation programmes have been organized under Autonomy and which have been fruitful to the students.

**V. Add On Practicals under DBT STAR Scheme**

It has been third year for this Scheme and the Scheme has been evaluated/ reviewed every year and it received continuation from the Expert Panel of Department of Biotechnology, Ministry of Science and Technology. The departmental programmes under this scheme are continued and are now very popular amongst undergraduate students. Departments of Physics, Electronic Science and Zoology are planning for Interdisciplinary workshops/ “Hands On” programmes for students of other departments.

### **VI. Strengthening Outreach Activities.**

Initiatives taken by the students and teachers to develop linkages with NGOs has proved to be of immense help. NGOs like *PRISM foundation, AKANSHA, SAHELI, ANKUR Vidyamandir, Blood Connect, Caregivers Link, Connecting, Doorstep, Green Steps, Hutatma Rajguru Vidyalyaya, Santulan, Saheli Sangh, Swacch, Tathapi, Vanchit Vikas* etc., are some of NGOs where our students regularly visit and work for them. All these activities were showcased/ presented to fresher's i.e., first year B.A. B.Sc. students during the orientation programmes.

Apart from this, '*Science Education Initiative*' (SEI) is well propagated amongst the students. There are about hundred volunteers for this activity of teaching maths and science in low income schools of Pune. Orientation programmes and Workshops for students volunteers have been conducted.

### **VII. Bridging the gap between academia and Industry.**

Industry- Institute Interaction Cell was established in the year 2010 with an aim to strengthen relations with Industry. The activities of this Cell have increased exponentially and now a new Cell, "Career Facilitation Cell" has been established. This Cell is now responsible for carrying activities with Industries, partnering with industries, taking feedback on the syllabi developed under autonomy, carry out Pre Placement and Placement Activities for all programmes and also Entrepreneurship development programmes. Sectorial Career Summit was organised under this Center to make students aware of different industries, their work and employment opportunities. A three day workshop on "Entrepreneurship" was conducted for Science students in collaboration with "Science and Technology" of the University.

### **VIII. System for Feedback on Teaching and Curriculum**

The previous format for collecting feedback on teaching was revised by IQAC and a format for feedback on curriculum developed under autonomy was also designed by the IQAC. Both the feedback formats have been integrated with the ERP system. In the first phase, on-line feedback programme was conducted only post graduate students. The feedback on teaching has been analysed and communicated to individual teacher as well as Head of the Department. Feedback on the curriculum has been submitted to the Heads of the Department to place it before the Board of Studies and make appropriate changes/revisions in the syllabi.

**PART- B**

**Criterion- I**

**1. Curricular Aspects**

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
Ph.D.	06	-	-	
PG	16	-	10	
UG	26	-	05	
PG Diploma	-	-	-	
Advanced Diploma	-	-	-	
Diploma	-	-	-	
Certificate	06	-	06	
Others B.Voc.	01	-	01	
<b>Total</b>	<b>55</b>	<b>-</b>	<b>-</b>	

Interdisciplinary				
Innovative		-		

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	86 (All first year UG and PG Programmes; under Autonomy)
Trimester	-
Annual	-

1.3 Feedback from stakeholders Alumni  Yes Parents  Employers  Yes Students  Yes  
(On all aspects)

Mode of feedback : Online  Yes Manual  Co-operating schools (for PEI)

*\*Please provide an analysis of the feedback in the Annexure (Please refer to Annexure II).*

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

The College has been conferred with Academic Autonomy from June 2016. The Syllabi of all First and Second Year Undergraduate and Post Graduate Programmes have been revised. Inputs from Industry, Academicians and Alumni have been given due consideration while framing the Syllabi under Autonomy. Curriculum Development Workshops (Pre-Syllabus Meetings) have been organised and conducted for all programmes. All the Academic Programmes are with Semester and Credit-based Pattern.

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

NIL

## Criterion - II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

	Total	Asst. Professors	Associate Professors	Professors	Others
	261	209	52	0	-

70

2.2 No. of permanent faculty with Ph.D.

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

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
209	27	00	00	00	03	00	00	261	27

2.4 No. of Guest and Visiting faculty and Temporary faculty

25

114

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	-	6	-
Presented Papers	10	24	-
Resource Persons	-	4	-

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

- a. Integration of Social Surveys / Community Studies in Arts Programmes.
- b. Concept of 'Add-On Practicals and Inter-disciplinary Practicals for Undergraduate Science Programmes under DBT STAR Scheme.
- c. Skill oriented programmes (especially for Professional Courses) for Post-Graduate Science students
- d. Inculcating sense of Social Responsibility in students through initiative of Social Outreach Center and 'Science Education Initiative'.
- e. Proposal for introducing Foreign Languages - German and French for Undergraduate Science Students.

2.7 Total No. of actual teaching days during this academic year 180

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

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

All teachers are members of Board of Studies under Autonomy. Apart from this, there are 38 teachers, who are members of Board of Studies of affiliating University as well as other Autonomous Colleges.

2.10 Average percentage of attendance of students 80%

2.11 Course / Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.A.	539	215	194	72	-	89%
B.Sc.	955	488	325	108	12	97%
M.A.	183	50	50	60	23	100%
M.Sc.	396	270	50	29	-	94%

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

### **I. Development of System for Feedback on Teaching and Curriculum**

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Apart from this, 'Science Education Initiative' (SEI) is well propagated amongst the students. There are about hundred volunteers for this activity of teaching maths and science in low income schools of Pune. Orientation programmes and Workshops for students volunteers have been conducted.

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#### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	07
UGC - Faculty Improvement Programme	01
HRD programmes	Nil
Orientation programmes	03
Faculty exchange programme	Nil
Staff training conducted by the university	Nil
Staff training conducted by other institutions	Nil
Summer / Winter schools, <b>Workshops</b> , etc.	22
Others	27 (Curriculum Development)

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### 2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	15	07	00	00
Technical Staff	03	00	00	00



## Criterion – III

### 3. Research, Consultancy and Extension

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

**a. Formal Research Coordination Committee since 6 years.**

The is formal Research Coordination Committee which meets atleast twice a semester. The committee addresses issues related to research projects, requirements of individual research projects, accounts and audit reports of research projects. Sensitization programmes for teachers who intend to take research projects was conducted. This has helped in creating awareness amongst new teachers who wish to apply for research projects. Four research projects both from faculty of Arts and Science have been prepared under the guidance of committee and will be submitted to the funding agency.

Apart from this, the Committee actively organizes “AVISHKAR” research festival on behalf of the University. This programme focuses on orienting students on innovative research. Experts from various fields interact with students in this programme.

**b. Preparation for Course Work of registered Ph.D. Students in College.**

At present there are 30 research students pursuing PH.D in various departments/ subjects. The Committee took an initiative to complete their mandatory Ph.D course work of one month in the College. Experts and Scientists from different colleges and institutes actively participated in this Course and guided the students.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	01	-	-
Outlay in Rs. Lakhs	-	28,31,025.00	-	-

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	10	-	-
Outlay in Rs. Lakhs	-	18,10,000.00	-	-

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	20	20	-
Non-Peer Review Journals	-	-	-
e-Journals	-	-	-



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Sponsoring agencies	-	-	-	-	-
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3.11 No. Of conferences organized by the Institution

3.12 No. Of faculty served as experts, chairpersons or resource persons 07

3.13 No. Of collaborations International 01 National - Any other -

3.14 No. Of linkages created during this year 05

3.15 Total budget for research for current year in lakhs:

From Funding agency	Rs. 18,10,000	From Management of University/College	NIL
<b>Total</b>	<b>Rs. 18,10,000</b>		

3.16 No. Of patents received this year

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

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

Total	International	National	State	University	Dist	College
-	-	-	-	-	-	-

3.18 No. Of faculty from the Institution who are Ph. D. Guides 23  
and students registered under them 30

3.19 No. Of Ph.D. awarded by faculty from the Institution ---

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

JRF 1      SRF -      Project Fellows -      Any other -

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3.21 No. Of students Participated in NSS events:

University level  State level   
National level  International level

3.22 No. Of students participated in NCC events:

University level  State level   
National level  International level

3.23 No. Of Awards won in NSS:

University level  State level   
National level  International level

3.24 No. Of Awards won in NCC:

University level  State level   
National level  International level

3.25 No. Of Extension activities organized

University forum  College forum   
NCC  NSS  Any other

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

1.	Programmes on Gender Sensitization through Gender Forum (SOEC)
2.	Community Engagement Programmes with Aakanksha, Ankur, Blood Connect, Caregivers, Connecting, Door-Step, Prism Foundation, Santulan, Saheli Sangh, Tathapi and Vanchit Vikas.
3.	Activities of SAATHI Enabling Center
4.	Student Orientation and Training programmes (undergraduate) under “Science Education Initiative” (SEI)

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### Criterion – IV

#### 4. Infrastructure and Learning Resources

##### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	65 acres	-	Deccan Education Society	65 acres
Class rooms	49	-	Deccan Education Society	49
Laboratories	69	-	Deccan Education Society	69
Seminar Halls	04	-	Deccan Education Society	04
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	99	40	DBT STAR	139
Value of the equipment purchased during the year (Rs. in Lakhs)	-	36,35,108.00		-
Others Restoration of Museum Specimens and Demonstration Set Up in Geology, Zoology and Physics	-	20,00,000.00	UGC Special Heritage Status	-

##### 4.2 Computerization of administration and library

Implementation of new ERP System for Administration as well as Library.

##### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	5100	-	1561	-	-	-
Reference Books	12000	-	750	-	-	-
e-Books	-	-		-	-	-
Journals	93	-	93	-	-	-
e-Journals	-	-		-	-	-
Digital Database	-	-		-	-	-
CD & Video	205	-		-	-	-
Others (specify) Manuscripts	1396	-	-	-	-	-

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### 4.4 Technology up gradation (Overall)

	<b>Total Computers</b>	<b>Computer Labs</b>	<b>Internet</b>	<b>Browsing Centres</b>	<b>Computer Centres</b>	<b>Office</b>	<b>Departments</b>	<b>Others</b>
Existing	750	13	03	02	-	35	549	-
Added	-	01	01	01	-	-	40	-
<b>Total</b>	<b>750</b>	<b>14</b>	<b>04</b>	<b>03</b>	<b>-</b>	<b>35</b>	<b>589</b>	<b>-</b>

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

- (a) Separate computational and net facility for students established under UGC XI Plan and DST-FIST funding.
- (b) Regular technology upgradation workshops and Skill Development Programmes (IOT, Python, Web Designing, Basics of Machine Learning, Basics of Data Analytics with R, use of ICT and Linux Awareness) for students of Computer Science are conducted.

### 4.6 Amount spent on maintenance in lakhs:

i) ICT

27,42,211.00
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ii) Campus Infrastructure and facilities

65,86,797.00
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iii) Equipments

36,35,108.00
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iv) Others

Sports:	4,98,612.00
Seminars/ Conferences:	5,50,237.00
Student Activities:	24,39,837.00
Library:	10,71,446.00
Laboratory Recurring:	24,77,441.00
Computers:	1,19,000.00
Furniture and Fixtures:	5,00,376.00
ERP:	6,28,560.00

**Total:**

<b>2,12,49,625.00</b>
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## Criterion - V

### 5. Student Support and Progression

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

- (a) Orientation programme for first year students.
- (b) Creating awareness through formal meetings where student's representation (s) is there.

#### 5.2 Efforts made by the institution for tracking the progression

- (a) The ERP system has facility to track student progression (students' especially going abroad). A tool will be provided on the ERP for Alumni and regular students to keep a track of their progression. It is under the process of activation and will be made available to students' and teachers. Similarly, a teacher will be able to generate recommendation letter through ERP which is given to students for their admission in universities abroad.
- (b) Every department has Alumni Association. Regular meets of Alumni Association (Department wise) are organized by the individual departments. The Alumni also give feedback on the curriculum developed under autonomy and also actively participate in syllabus framing workshops.

#### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
4674	1281	30	Nil

#### (b) No. of students outside the state

493

#### (c) No. of international students

246

Men	No	%		Women	No	%
	2886				3069	

Last Year (2015-2016)						This Year (2016-2017)					
General	SC	ST	OBC	NTB, NTC, NTD, DTA	Total	General	SC	ST	OBC	NTB, NTC, NTD, DTA	Total
3802	569	144	868	412	5855	<b>2853</b>	<b>630</b>	<b>178</b>	<b>1073</b>	<b>482</b>	<b>5216</b>

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Demand ratio

1:2 to 1:3	Professional Programmes
1:1	Conventional Programmes

Dropout %

Dropout % is negligible (less than 0.5%)

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

(a) Some session for NET/ SET Coaching for Post Graduate students are conducted.

No. of students beneficiaries

200

5.5 No. of students qualified in these examinations

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

5.6 Details of student counselling and career guidance

- (a) The College has well established “Counselling Center” – MAANAS in Department of Psychology. Inhouse students who wish to undergo counselling visit the department and participate in counselling sessions. This Center also provides counselling in other areas like Children related issues, adolescence, family counselling, old age counselling, young and adult counselling.
- (b) The College has well established ‘Career Facilitation Centre’ for training and placement of students. The activities of this Cell have increased exponentially and it is now responsible for carrying activities with Industries, partnering with industries, taking feedback on the syllabi developed under autonomy, carry out Pre Placement and Placement Activities for all programmes and also Entrepreneurship development programmes. Sectorial Career Summit was organised under this Center to make students aware of different industries, their work and employment opportunities. A three day workshop on “Entrepreneurship” was conducted for Science students in collaboration with “Science and Technology” of the University.

No. of students benefitted

1200



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### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
78	UG:70% PG:90%	105 (PG)	34

### 5.8 Details of gender sensitization programmes

<p>(a) Gender Sensitization is one of the core activities of the College and also Best Practice of the College. Some of the activities carried out were as follows:</p> <ul style="list-style-type: none"> <li>• International Women’s Day: Discussion and Programmes on “<i>O Womenia</i>”</li> <li>• Film Screening on “Miss Representation”</li> <li>• Group discussion on “<i>Feminsim</i>”</li> <li>• “Feminsim for All”</li> <li>• “<i>Bindast Bol</i>” Street Play for voice against harrasment under, fortnight for elimination of violence against women from 15<sup>th</sup> Nov. To 31<sup>st</sup> Dec. 2016 held at Amnesty International.</li> <li>• Understanding “<i>Masculinity In Urban Space</i>” lecture by Smt. Madhuri Lokare.</li> <li>• Screening of Documentary on “Memories of Fear”.</li> <li>• A workshop for blind girl students regarding sexual awareness organized by SAATHI enabling Center.</li> </ul>
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### 5.9 Students Activities

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

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

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

Sports: State/ University level  National level  International level

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Cultural: State/ University level  National level  International level

### 5.10 Scholarships and Financial Support

	Number of Students	Amount
Financial support from institution Smt. Champutai Gokhale Scholarship	06	1,00,000.00
Financial support from government State Government Scholarship	1027	----
Financial support from other sources Savitribai Phule Pune University, Pune	380	----
Number of students who received International / National recognitions		
<p>i. Smt. Shaikh Reshma Bano awarded Prof. B. G. Shirole Prize of Rs. 6,400/- by SPPU for standing 1<sup>st</sup> in subject of Zoology.</p> <p>ii. Smt. Manasi Ashok Bharati awarded the President of India, Dr. Shankardayal Sharma, Gold Medal for the year 2016-2017 through SPPU.</p> <p>iii. Smt. Kulkarni Vedangi Narendra successfully completed 3 months Visiting Students' Research Programme at Institute for Experimental Molecular Imaging, R.W.T.H., Aachen University, Germany.</p> <p>iv. Smt. Sayali Mule was selected for presentation at Venus Exploration, VEXAG - NASA to provide scientific input and technology development plans for planning and prioritising exploration of Venus at NASA.</p> <p>v. C.C. Jyoti Tiwari awarded best Cadet for the year 2016 by No. 3 (Mah) Naval Unit NCC, College of Engineering Campus, Shivaji Nagar, Pune.</p> <p>vi. Hitesh Lala T.Y. B.Sc. Physics and Radha Gharapurkar M.Sc. Physics received the prestigious Erasmus Munds Scholarship of Euros 49,000/- for masters course in Astronomy &amp; Astrophysics.</p> <p>vii. Fergusson College Team: Neelima Akolkar, Aditi Joshi, Ajinkya, Sourabh Mathre discovered three Main Belt Asteroids during the International Asteroid hunt program organized by Space Generation Advisory Council. 20 teams were selected all over the world for this event. Kshitija Angaluri MSc - I also took part in the same event with different team members and made 6 Main belt asteroid discoveries with her team.</p> <p>viii. Parisee Shirke T.Y. B.Sc. Physics was declared University topper across all subjects in SPPU, 2016.</p> <p>ix. Parikshit Biswas (SY), Swarnim Shirke (SY) Prithwijeet Chakraborty (TY) &amp; Palash (TY), were placed among State 1% toppers (among top 16 students at state level) at the National Graduate Physics Examination 2017.</p> <p>x. Harshal Potdar – TY B.Sc, received a summer internship from the Indian</p>		

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	Academy of science, 2016-17 and completed a project on Graphene based electrodes.
xi.	Tilak Pawar, Hitesh Lala, Aishwarya Thakur (TY) and Rohit Sachdev (MSc-II) attended a four day National workshop on Solar Astrophysics at MA college of Arts and Sci. Kotamangalam, Kerala during Nov. 30- 2nd Dec. 2016
xii.	Nachiket Dravid, Apoorva Shah and Nipun Bhawe F.Y. B.Sc. were selected for the NIUS program which they completed at HBSC Mumbai from 13 <sup>th</sup> -28 <sup>th</sup> June 2017.
xiii.	Chaitrali Mulay M.Sc –I attended ATSOA Winter School at Arya Bhatta Research Institute, Nainital 22 <sup>nd</sup> Feb. 3 <sup>rd</sup> March 2017.
xiv.	Chaitrali Mulay M.Sc –I Selected for IUCAA Vacation students research program for the project ASTROSAT reduction techniques.
xv.	Sanket Kumawat TY B.Sc. carried out a summer internship at IIT Mandi on polymer solar cells.
xvi.	Sanket Kumawat TY B.Sc. attended a UG symposium at Presidency University Kolkata and presented a paper on “Nano scale polymer grafted solar cell” during 9 <sup>th</sup> & 10 <sup>th</sup> April 2017.

### 5.11 Student organised / initiatives

Fairs: State / University level  National level  International level

Exhibition: State / University level  National level  International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: **NIL**

## Criterion – VI

### 6. Governance, Leadership and Management

#### 6.1 State the Vision and Mission of the institution

- **Vision:** We aspire to carry forward the vision of our founders of providing affordable quality education, while expanding our academic horizons to bring the institution on par with global leaders in the field of higher education.
- **Mission:** Strive for excellence in education in keeping with the motto of the college, “Knowledge is Power” and prepare young minds for imbibing knowledge, skills and sensitivity.

#### 6.2 Does the Institution has a management Information System

Yes, the Institute has MIS System and it is presently used for On-Line Student Admission process, Database of Students. MIS is also used for Administrative processes including finance - Network through Software's like Tally.

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

##### 6.3.1 Curriculum Development

- a. Study of best five institutes/ colleges curriculum.  
Several departmental and common meeting of teacher's were conducted before the actual framing of curriculum. Experts from autonomous colleges were invited to interact on their experiences while designing the curriculum. This gave a fundamental insight on how the syllabi/ curricula should be designed and developed. Apart from this, each department were asked to carry out homework of their respective syllabi from best universities/ colleges/ institutes in India and abroad.
- b. Refer model curricula prescribed by the UGC.  
Apart from the above mentioned exercise, Model Curricula developed and posted on UGC website were also referred. Content of some papers in some subjects have also been used to prepare syllabi under autonomy.
- c. Curriculum Development Workshops were made mandatory for all the departments, apart from Board of Studies meeting which helped in evaluation of syllabi prepared under autonomy.
- d. Feedback from the present students and Alumni has been given due consideration while preparing the syllabi under autonomy.
- e. Industry Interface in Curriculum Design and Development is practised for all academic programmes under Autonomy.

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## 6.3.2 Teaching and Learning

- a. Active Learning Model as teaching pedagogy.
- b. Definitive mechanism to achieve 'learning outcomes' for all academic programmes.
- c. Introducing concepts like 'Hobby Club' to make learning more interesting.
- d. Field based studies and surveys to enrich the teaching-learning process.
- e. Proactive efforts for skill updation of teachers and students is practised especially for professional academic programmes.

## 6.3.3 Examination and Evaluation

- a. Choice Based Credit System has been adopted from 2016-17.
- b. Examination system consists of "Concurrent Evaluation" and End Semester Examination, with 50% weightage for each heading. It consists of multiple choice questions as well as subjective questions, open book test, group discussion, assignments, field study, survey reports etc.,

## 6.3.4 Research and Development

- a. Administrative support for teachers undertaking research projects.
- b. Awareness of guidelines regarding different funding agencies, calculation of Citation Index and h-Index.
- c. Sensitizing and motivating young teachers to undertake research projects.
- d. Organization of Pre-Ph.D Courses.

## 6.3.5 Library, ICT and physical infrastructure / instrumentation

- a. Automation of Central Library and Departmental Library services is in progress.
- b. Digitization of Old and Rare Manuscripts.
- c. Efforts for enhancing competence building among Library Staff by training them at Centres of higher learning and Excellence.

## 6.3.6 Human Resource Management

- a. Use of Human Resource as per their competency to complete a particular task (Academic and Administrative).
- b. Training to the Human Resource at Centres of higher learning and Excellence.
- c. Teachers' training for skill enhancement is undertaken.

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### 6.3.7 Faculty and Staff recruitment

- |    |   |
|----|---|
| a. | Recruitment of Faculty is as per State Government and Savitribai Phule Pune University regulations. |
|----|---|

### 6.3.8 Industry Interaction / Collaboration

- |    |  |
|----|--|
| a. | Industry Interaction through “Industry - Institute Interaction Cell” now named as Career Facilitation Centre.  |
| b. | This Cell conducts “Academic summits with Industries and Sectorial Career Summits, which have helped in mobilizing student Placements, and knowledge / skills essential in an Industry.” |

### 6.3.9 Admission of Students

- |    |  |
|----|--|
| a. | On-Line Student Admission Process  |
| b. | Counselling to students to choose appropriate choice / combination of subjects in Arts and Science at the time of admission. |
| c. | Support for Computational Access during admissions to rural / outside students for form filling etc.                         |

### 6.4 Welfare schemes for

Teaching	Credit Cooperative Society
Non-teaching	Credit Cooperative Society
Students	Earn and Learn Scheme under Student Welfare Scheme

### 6.5 Total corpus fund generated

Nil
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### 6.6 Whether annual financial audit has been done

Yes

No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	IQAC	Yes	IQAC
Administrative	Yes	State Government	Yes	Deccan Education Society

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes    Yes     No

For PG Programmes    Yes     No

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

(a) Introduced Concurrent Evaluation System from the year 2016-2017 under Autonomy

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

(a) University (Savitribai Phule Pune University) has conferred Academic Autonomy to the college from the academic year 2016-2017

6.11 Activities and support from the Alumni Association

(a) Regular meetings of Alumni Association.  
(b) Financial support to needy students.  
(c) Integration of eminent Alumni in Curriculum Development.

6.12 Activities and support from the Parent – Teacher Association

(a) Interaction with parents informally at departmental leave.  
(b) Formally it is done once a year.

### 6.13 Development programmes for support staff

- |  |
|--|
| (a) Workshop for Laboratory Assistants and Attendants.               |
| (b) Training in basic Excel and MS Microsoft Office for Office Staff |

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

- |   |
|---|
| (a) Awareness campaigns for generating Environmental Awareness    |
| (b) Use of alternative energy sources especially in laboratories. |

## Criterion – VII

### 7. Innovations and Best Practices

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

- |  |
|--|
| (a) Research projects (short term) to undergraduate students has proved to an effective way for instilling sense of research among the students. |
| (b) Industry Interface in curriculum development and training of teachers and students.  |

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

- |   |
|---|
| (a) Enhancing the infrastructure for Academic Autonomy.   |
| (b) Enhancing I.T. Infrastructure   |
| (c) Skill updation / enhancement programmes for teachers and students.                          |
| (d) Expert interactions of teachers to improve their skills have been conducted under Autonomy. |
| (e) Both the Actions have been implemented successfully.  |

#### 7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

<i>(Please refer to Annexure III).</i>
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### 7.4 Contribution to environmental awareness / protection

- (a) Programmes on environmental issues and awareness are regularly conducted in the College.
- (b) Waste Management, Awareness rally on use of cloth bags.
- (c) Sample survey on solid waste generated in the campus and its management. It was presented at Kirloskar Vasundhara Film festival and was awarded second prize.
- (d) Cleaning of river banks of Mula and Mutha.
- (e) Guest Lectures on Climate Change, Debate Competition on wild life conservation and Management, Quiz Competition on Wild Life, celebration of wild life week etc.,
- (f) One day seminar on plastic and e-waste management.

7.5 Whether environmental audit was conducted? Yes  No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Nil

### 8. Plans of institution for next year

1. Strengthening of Laboratory and Teaching Infrastructure.
2. Modernization of Research and Instrumentation Laboratories.
3. Upgradation of Language Laboratory
4. LIFE (Learn to Innovate For Excellence) Programme
5. Restructuring of Entrepreneurship Development Cell
6. Promoting Science Education Initiative (SEI)

**Dr. Samir Terdalkar**  
Coordinator, IQAC

**Dr. Ravindrasinh Pardeshi**  
Principal and Chairman IQAC

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# Internal Quality Assurance Report 2016-2017

## ANNEXURE – I

**Fergusson College (Autonomous), Pune-4.  
Academic Calendar under Autonomy  
Year 2016-2017 (Semester- I)  
For all F.Y. B.A. / B.Sc. / B.Voc. /  
M.A. / M.Sc.**

Month	Date	Under Autonomy (F.Y. B.A. / B.Sc. / B.Voc.)	Under Autonomy (M.A. / M.Sc.)
June-16	15/06/16	UG College Reopens	--
	20/06/16	F.Y. B.A. / B.Sc. / B.Voc. Admissions	--
July-16	07-01-2016	FY Lectures Commencement	PG- II Commencement of Lectures
	11-07-2016	F.Y. B.Sc. Practical Commencement	PG- II Commencement of Practicals
	14/07/2016	--	PG- I Commencement of Lectures
	18-07-2016	--	PG- I Commencement of Practicals
August-16	01/08/16 to 06/08/16	UG_CA I (Assignment -I) <b>10 Marks</b>	
	13/08/16	UG-Last date of submission of Assignment	
	16/08/16 to 20/08/16		PG-CA I (Assignment -I) <b>10 Marks</b>
	20/08/16	UG-CA -I Result (Marks display at Department and submit soft copy to Examination Board)	
	22/08/16 to 29/08/16	UG-CA - II (Mid- Semester Test) <b>20 Marks</b>	
	27-08-2016		PG-Last date of submission of Assignment
	29-08-16 to 03-09-16	<b>F.Y. B.A. / B.Sc. / B.Voc. form Filling</b>	
September-16	03-09-2016		PG_CA -I Result (Marks display at Department and submit soft copy to Examination Board)
	05/09/16to 17/09/16		PG_CA - II (Mid - Semester Test) <b>20 Marks</b>
	05/09/16to 17/09/16	<b>F.Y. B.Sc. / B.Voc. theory</b>	

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		<b>paper setting</b>	
	05/09/16to 17/09/16	<b>F.Y. B.Sc. / B.Voc. practical slips setting at dept.</b>	
	19/09/16to 30/09/16	<b>F.Y. B.A. theory</b> paper setting	
	12/09/2016	UG-CA -II Result (Marks display at Department and submit soft copy to Examination Board)	
	12.9.16 to 17.9.16	UG-CA -III (Assignment -III) 10 Marks (Flexible methods)	
	19.9.16to 24.09.16	<b>S.Y. B.Sc. / T.Y. B.Sc. Internal examination</b>	
	24.9.2016	UG-Last date of submission of Assignment/ Report	
	24/09/2016		PG-CA -II Result (Marks display at Department and submit soft copy to Examination Board)
	26.9.16 to 1.10.16	<b>F.Y. B.Sc. / B.Voc. Practical exam. + F.Y. B.Sc. backlog Practical Exam</b>	
	26.9.16 to 1.10.16		<b>M.A. / M.Sc. part I exam form filling</b>
Oct-16	01.10.2016	UG-Total CA Result (Marks display at Department and submit soft copy to Examination Board) <b>50 marks.</b>	
	03/10/16 to 08/10/16		PG CA -III (Assignment - III) 10 Marks (Flexible method) <b>Theory Paper Setting</b>
	3.10.16 - 22.10.16	<b>F.Y.B.A. / S.Y.B.A. / T.Y.B.A. TERM end Exam</b>	
	3.10.16 - 22.10.16	<b>F.Y.B.A. / B.Sc. / B.Voc. End Sem. Exam (ESE)</b>	<b>Practical Slips setting at department</b>
	15/10/2016	<b>UG CAP</b>	Last date of submission of Assignment/ Report
	22/10/2016		Total CA Result (Marks display at Department and submit soft copy to Examination Board) <b>50 marks.</b>
	<b>DIWALI VACATION / WINTER BREAK</b>		
Nov. 16	07-11-16 to 12-11-16		<b>PG-I End Semester</b>

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			<b>Practical Examination</b>
	19.11.16	Declaration of Result F.Y.B.A./B.Sc.	
	21.11.16	<b>Commencement of Sem.-II Lectures &amp; Practicals (F.Y. B.A. / B.Sc. / B. Voc.)</b>	
	21-11-16 to 26-11-16		<b>PG-I End Semester Theory Examination</b>
	27/11/16 to 10/11/16		<b>CAP for PG I</b>
	26/12/2016		<b>Declaration of Result of PG-I</b>

### Feedback Analysis Report

The College has implemented a new ERP System (GEMS ERP). The system helped to keep record of entire life cycle of a student and his/ her activities. The system also carries out admission process, marks display and result declaration, record of all academic activities of the students. It also has a facility of taking feedback on teaching.

In the first phase, a separate team of teacher's who are more technology savvy were selected for this task. The work began by preparing a format for taking feedback on teaching as well as curriculum developed under autonomy. Both the formats were discussed in IQAC and finally approved in Heads Forum and integrated in the ERP System. The parameters in the feedback form include: Communication Skills, Sincerity / Commitment of teacher, Knowledge base of teacher, Inputs beyond the curriculum, Use of ICT and other teaching methods, Accessibility of teachers in and out of class and Overall Quality of Teaching.

Feedback on teaching and for curriculum was taken for all postgraduate programmes. A time table for feedback was prepared and communicated to all the Heads of Department. The entire process of taking the feedback was completed in a period of three days.

The Overall feedback on teaching could be summarized as follows:

- (a) Overall feedback on teaching is quiet satisfactory
- (b) Teachers' have been rated on a scale of 0 to 4 and their average scores have been calculated and it is observed that most of the teachers' have a score of 3.00 on a four point scale.
- (c) In some departments/ subjects like Psychology, Marathi, Physics, Environmental Science, Biotechnology, Organic Chemistry etc., the "knowledge base of teachers'" has been appreciated by the students.
- (d) Some subjects need improvement on Use of ICT and other teaching methods in the classroom.

The feedback on curriculum (for post graduate programmes) has been taken from students. There were some suggestions from students regarding curriculum. Students' requested to include certain recent methods of programming (like PYTHON) to be incorporated in the syllabi. All such suggestions were passed on to the respective Board of Studies for consideration. Most of the suggestions will be incorporated after elaborate discussions on topics suggested by students.

### **Best Practice-I**

1. **Title of the Practice: Industry-Institute Interface in Teaching Learning**
2. **Goal: Integrate Industry component in Teaching-Learning Process**
3. **The Context:** The purpose of education is not to secure degrees but equip them to face the challenges in real life and gain employability after completion of their academic programme(s). Over a period of time, there has been a considerable gap between the academia and industry. It was in the year 2010, we thought of establishing Industry-Institute Interaction Cell apart from Training and Placement Cell. In the past few years this Cell has gained enough momentum and has strengthened the relationship with almost all types of industries. Sectorial career Summits, Panel Discussion, Guest Lectures, Expert Interactions and Special training programmes for both students and teacher's have become a regular feature under this Cell.

In the previous year, we have clubbed Industry-Institute Interaction Cell, Training and Placement Cell and newly established "Entrepreneurship Development Cell" under one umbrella and christened it as "Career Facilitation Center". There have been formal collaborations with some industries and also increase placement % of students. Industry participation is also there while framing the new syllabi under autonomy as well as industries also provide feedback on the syllabi.

### **Practices**

#### **Evidence of Success:**

- (a) Actual participation of Industry/ Industry experts for framing syllabi
- (b) Regular Feedback on the syllabi from relevant/ subject specific industries.
- (c) Formal collaborations with industries which has helped in gainful employment of students.
- (d) Special training programmes for teacher's as well students for knowledge updation and skill development.
- (e) Organization of Sectorial Career Summits and special programme called "Campus to Corporate" for all students.

## Best Practice-II

### 1. Title of the Practice: Fostering Social Responsibility

#### 2. Goal

- To instil a sense of social responsibility in students.
- To engage the students in meaningful service that meets community needs.
- To equip the students with skills, attitude and knowledge to work with the disadvantaged sections of society.

3. **The Context:** The purpose of education is not just preparing the students for a livelihood but also to make them good citizens and above all good human beings. Values of caring and sharing with the less privileged are one of the important elements of such education. It is our collective responsibility to empower the underprivileged to become self reliant so that they can live with respect and dignity. It is our duty to uphold the human rights of all disadvantaged sections of society. Our college encourages a lifelong ethic of community service.

#### Practices

- The college has a Social Outreach & Enabling Centre which gives an opportunity to the students to work with various civil society organizations. Around 300 students work with children from the underprivileged communities, on women's issues, de-addiction and counseling, children with disabilities, environmental issues and human rights issues. Broadly the work includes conducting surveys, organizing awareness campaigns, counseling, assisting teachers in day to day activities & during school annual days and other functions, conducting art and craft workshops, organizing clothes, toys and book collection drive and administrative work.
- We work with 15 civil society organizations namely KKPKP(*Kagad Kach Patra Kashtakari Panchayat*) – a waste collectors' organization, Ankur Vidyamandir – an inclusive school, Doorstep School – a school for the underprivileged children, Aalochana – a women's documentation centre, Vanchit Vikas –an organization working with urban poor, hawkers, sex workers and their children, Prism Foundation – an educational organization working with children with special needs Santulan – a drug de addiction centre, Mook Badhir Shikshan Kendra – a school for deaf and mute children, Department of Social Initiatives- Forbes Marshall, Hutatma Rajguru School – a neighbourhood school for the underprivileged children, Tathapi – a women's organization working on the issues of women and health, Sant Ramdas School – a Pune Municipal primary school, Deep Griha Society – an urban community centre, Aakash Foundation and Green Campus Initiatives. Saathi is another initiative to integrate students with blindness into the college main stream. This is achieved through several activities like peer mentoring, self improvement workshops and participation in regular college activities and annual celebration of Louis Braille Day.

**Evidence of Success:** The press has given coverage to the work done by the social outreach and enabling centre. Also several NGOs approach us for volunteers. The students have benefited a great deal. It has given them confidence in working with the community. It has been a process of self discovery for many.

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