



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

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

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

### Part – A

**AQAR for the year : 2016-17**

#### 1. Details of the Institution

- 1.1 Name of the Institution : Progressive Education Society's Modern College of Arts, Science and Commerce
- 1.2 Address : Ganeshkhind, Pashan Road,  
Opposite Savitribai Phule Pune University,  
Pune
- State : Maharashtra
- Pin Code : 411 016
- Institution e-mail address : moderncollege16@gmail.com
- Contact Nos. : 020-25634021, 020-25650931
- Name of Head of the Institution : Principal Dr. Sanjay Sopan Kharat
- Tel. No. with STD Code : 020-25637967
- Mobile : 9011070912
- Name of the IQAC Co-ordinator : Mr. Parag Shah
- Mobile : 9881313944
- IQAC e-mail address : iqacmodernkg@gmail.com
- 1.3 NAAC Track ID : MHCOGN10754
- 1.4 NAAC Executive Committee  
No. & Date : EC(SC)/22/A&A/2.3 dated 22/02/2017
- 1.5 Website address : www.moderncollegegk.org
- Web-link of the AQAR : www.moderncollegegk.org/AQAR-2016-17.pdf
- 1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B+		2004	16/02/2004 to 15/02/2009
2	2 <sup>nd</sup> Cycle	A	3.10	2011	27/3/2011 to 26/3/2016
3	3 <sup>rd</sup> Cycle	A	3.26	2017	22/2/2017 to 21/2/2022

1.7 Date of Establishment of IQAC: 02/01/2006

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC. **Reaccredited on 22 February, 2017**

AQAR : 2015-16 submitted to NAAC on 07/07/2016

1.9 Institutional Status

University	State
Affiliated College	Yes
Constituent College	No
Autonomous college of UGC	No
Regulatory Agency approved Institution	No
Type of Institution	Co-education Urban
Financial Status	UGC 2(f) UGC 12B Grant-in-aid + Self Financing

1.10 Type of Faculty/Programme

<b>Arts</b> <input checked="" type="checkbox"/>	<b>Science</b> <input checked="" type="checkbox"/>	<b>Commerce</b> <input checked="" type="checkbox"/>
Law	PEI (Phy.Edu)	TEI (Edu)
Engineering	Health Science	Management
Others (Specify)	B.Voc. course in Food Processing and Green House Technology sanctioned by UGC. The course commenced in 2014-2015.	

1.11 Name of the Affiliating University : Savitribai Phule Pune University, Pune.

1.12 Special status conferred by Central/ State Government—

UGC / CSIR / DST / DBT / ICMR etc.

Autonomy by State / Central Govt. / University

University with Potential for Excellence UGC-CPE

**DBT Star Scheme**  (STAR status conferred) UGC-CE

UGC-Special Assistance Programme **DST-FIST**

UGC-Innovative PG programmes

UGC-COP Programmes

Any other

UGC-COC, Remedial Coaching, Development Grants, B.Voc. (Food Processing and Green House Technology)
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## 2. IQAC Composition and Activities

2.1	No. of Teachers	:	9
2.2	No. of Administrative/Technical staff	:	2
2.3	No. of students	:	3
2.4	No. of Management representatives	:	2
2.5	No. of Alumni	:	2
2.6	No. of any other stakeholder and community representatives	:	1
2.7	No. of Employers/ Industrialists	:	1
2.8	No. of other External Experts	:	1
2.9	Total No. of members	:	21
2.10	No. of IQAC meetings held	:	
2.11	No. of meetings with various stakeholders	:	Total 62
			Faculty 39
			Non-Teaching Staff 4
			Students 5
			Alumni 4
			Administration/Others 10

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

Yes  No

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 Number	<b>25</b>
Institution Level	21
International	00
National	02
State	02

(ii) Themes

**National Level** : 1. National Conference on 'Changing Business Culture : Challenges and Opportunities' by Commerce Faculty.

2. National Seminar on 'GIS Applications in Environmental Issues' by the Department of Geography.

**State Level** : 1. State Level Conference on 'Social and Cultural Transformation Through Ages' by the Departments of History and Sociology.

11. Gender sensitization	Constituted a Gender Champion Club with two student members and one nodal teacher. Street plays, Guest Lectures, Debates and movie screening is being organised towards gender sensitivity
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*\* Attach the Academic Calendar of the year as Annexure : refer to Annexure 1 (Page 39-40)*

2.16 Whether the AQAR was placed in statutory body      Yes                          No   

Management      :      Local Managing Committee, IQAC

Any other body    :      Heads of Departments and staff of the college

Provide the details of the action taken

- Data for AQAR was collected from different sources such as academic departments, office, library, sports and other in-house committees.
- Members of IQAC worked together to analyse and rearrange the data.
- AQAR was written after a series of discussions by the committee members with the authorities of the college.
- AQAR was presented to Management representatives, heads of the Department and staff of the college.
- Views / suggestions received in the statutory body and by all stakeholders were incorporated.
- AQAR was submitted through E-mail.

2. State Level Seminar on 'The Role of Advanced Sensors in the Development of Smart City' by the Department of Electronics.

- Institutional Level** :
1. One Day workshop on 'Fishery Production and Management' funded by Marathi Arthashastra Parishad, Akola conducted by the Department of Economics
  2. A workshop on 'College to Corporate' by the Department of English under the aegis of Student Welfare to inculcate employability skills among students.
  3. A workshop on 'Preventing Child Abuse' by the Department of Sociology.
  4. A workshop on Soft-skill Development by the Department of Sociology under the aegis of Student Welfare
  5. A skill-development course on 'Skills in Psycho Social Counselling for Community Work' by the Department of Psychology jointly with BAPU Trust
  6. Ten Day Soft-skills Development Programme for Third Year students from all the three faculties jointly sponsored by Barclays, NASSCOM Foundation and National Skill Development Corporation (NSDC).
  7. Two-day soft-skills development workshop for Post Graduate Students by the Department of Computer Science
  8. Faculty Development Programme on 'Learning and Learner-Centred Training' by the Department of Psychology
  9. Two Day Workshop on Bio-informatics by the Department of Biotechnology
  10. A Workshop on 'Advanced Synthesis Methods' by the Department of Physics
  11. Training workshop on 'Physiochemical and Microbiological Characterization of Soil' by the Department of Micro Biology

12. A training workshop on 'Biochemical Techniques and Instrumentation' by the Department of Micro Biology
13. One Day Programme on 'Personality Development' by Vidyarthini Manch
14. One Day Awareness Programme on 'Anti-Ragging issues' and "on preventing Sexual Harassment" by Vidyarthini Manch
15. One Day Karate Training Programme towards self-defence of girl students under Nirbhay Kanya Abhiyan
16. One day programme on 'Understanding importance of Health and menace of Female foeticide' under Nirbhay Kanya Abhiyan
17. An awareness generation session on 'Cyber Crimes'.
18. A workshop on 'Importance of Disaster Management.'
19. One Day Programme on 'Nutritious Food' organized under the aegis of the Department of Adult & Continuous Education
20. One Day Seminar on 'Unorganised Labour' organized under the aegis of the Department of Adult & Continuous Education
21. Two day programme on 'Pre-marital Counselling' under the aegis of the Department of Adult & Continuous Education

2.14 Significant Activities and contributions made by IQAC

1. Enhancement of Student Welfare Activities :

Amount spent during the year on Student Welfare Activities Rs. 7,90,123/- such as sports promotion through cash awards, sports kits, travel allowance, felicitation of students for their excellent performance in academics, co-curricular and extracurricular activities, for research sensitisation and industrial exposure.

2. Submitted research proposals to National & Different State Level Agencies & received the funding.

No. of Research Proposals under UGC / BCUD, SPPU, Pune / Other	Amount Received during the year in Rs.
Total : 8 (4 UGC + 2 BCUD + 1 SERB + 1 Bapu Trust = 8)	30,74,600

3. Increased rapport with various stakeholders like teaching and non teaching staff, students, parents, alumni, community by conducting 62 meetings.
4. Preparation and submission of proposals and attended interface meetings for awards and recognitions :
  - **National level** : Two proposals for Science Academy, a proposal for continuation of DBT- STAR scheme
  - **State level** : Energy Conservation Award from Maharashtra Energy Development Agency (MEDA)
  - **University level** : Award for College Magazine and Officer of Student Welfare Board
5. **Academic Audit** was conducted from 8<sup>th</sup> December to 10<sup>th</sup> December, 2016 by the external Professional Agency CEDA. Recommendations were given for quality enhancement. Work is being done in that direction.
6. Motivated students to undertake research activities and projects : 403

#### 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 \*

Plan of Action	Achievements
1. Employing different learning techniques to enhance quality of teaching and learning	<ol style="list-style-type: none"> <li>1. Learning by doing/ Group discussions/ seminars</li> <li>2. Hands on training</li> <li>3. Guest Lectures by experts</li> <li>4. Industrial visits &amp; study tours</li> <li>5. Learning through Educational Games : word power games.</li> <li>6. Case Study Method.</li> <li>7. Use of IT in education : Presentation, Film screening</li> </ol>
2. To strengthen research activity	<ol style="list-style-type: none"> <li>1. Students were motivated to participate in the research conference and competitions.</li> <li>2. Research induction programmes for students by different departments</li> <li>3. A lecture series by Commerce Faculty for post graduate students on Research Methodology</li> <li>4. Faculty members have been appointed on editorial board of research journals.</li> </ol>



	<ol style="list-style-type: none"> <li>5. Published compendium of papers published by the faculty as well by Students. (Department of Psychology and Zoology)</li> <li>6. Augmentation of library, laboratory and other research related resources.</li> <li>7. Organisation of seminar by science departments under DBT-STAR Scheme.</li> <li>8. Inducement to students for getting patents for their innovation</li> <li>9. English Department started research based publication viz. Odyssey that includes research based articles contributed by the students.</li> <li>10. Students were involved in Data Collection of Phonological data of 36 native plant species by the Department of Botany</li> <li>11. Students from Science faculty were selected for Summer Training/ Internship programmes</li> </ol>
<p>3. Enhancing employability</p>	<ol style="list-style-type: none"> <li>1. Industry and corporate exposure to students through industrial visits and guest lectures of resource persons from industry</li> <li>2. Sent student volunteers to agri show 'Kisan'</li> <li>3. Soft-skill development initiatives by different departments and placement cell</li> <li>4. Industry orientation to students by lectures organised by the Placement Cell</li> <li>5. Competition for writing Business Plan was organised by the Department of B Voc</li> <li>6. Summer Internship by students of different departments directly in NGOS and other relevant organisations</li> <li>7. 8 skill development courses were conducted</li> <li>8. Commerce faculty has undertaken training in Tally ERP, Banking club activities, a programme on journey to be an entrepreneur</li> </ol>

4. Co-curricular activities	<p><b>Total</b> <b>180</b></p> <ul style="list-style-type: none"> <li>• Guest Lectures 60</li> <li>• Wall Magazines 3</li> <li>• Publications 5</li> <li>• Surveys 3</li> <li>• Quiz 8</li> <li>• Group Discussions/Debate 8</li> <li>• Study Tours/ Industrial visits/ field visits 35</li> <li>• Film Screenings 17</li> <li>• Exhibitions 4</li> <li>• Miscellaneous : Posters, Rangoli, Project etc. 37</li> </ul>
5. Social outreach programmes	Conducted 26 social outreach programmes. 11 different celebrations of days of national importance
6. Addressing diversity	English Department conducted cultural exchange programme viz. Transcending Cultural Boundaries to create an environment of multicultural understanding A special section on 'Know my Country' reserved for articles contributed by the international students
7. Use of modern technology for communication with stakeholders.	Communicating alerts and reminders thorough SMS and social media, On-line admissions for all courses. Regular use of social media for communication with students
8. Digitization of important documents	Management Information System (MIS) initiated.
9. Green initiatives	Composting of organic waste Proper system of disposal of organic waste and laboratory waste was undertaken. MOUs for e-waste and plastic waste disposal Drives for cleanliness in the campus, e-waste and plastic waste disposal were organised
10. Examination reforms	To avoid mistakes in the hall ticket the online examination forms filled by student are checked by the faculty before submission. External exams were conducted for the benefit of students

## Part – B

### Criterion – I : Curricular Aspects

#### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	1	1	2	-
PG	9	-	9	-
UG	8	1	9	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	2	-	-	2
Certificate	8	8	12	16
Others	M.Phil.-1	1	2	-
<b>Total</b>	<b>29</b>	<b>11</b>	<b>34</b>	<b>18</b>

Interdisciplinary	14	-	12	2
Innovative	-	-	-	-

- 1.2 (i) Flexibility of the Curriculum : We have CBCS for PG courses, Core system for most of the courses and Elective option for some UG and PG courses

(ii) Pattern of programmes :

Pattern	Number of programmes
Semester	15
Trimester	0
Annual	2

#### 1.3 Feedback from stakeholders\* (*On all aspects*)

Alumni  Parents  Employers  Students

Mode of feedback : Online  Manual  Co-operating schools

*\*Please provide an analysis of the feedback in the Annexure: refer to Annexure 2 (Page 41)*

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

No.

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

1. Research Centre in Zoology

2. BCA (Science)

## Criterion – II : Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
89	81	7	1	48

2.2 No. of permanent faculty with Ph.D. 40

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
48	5	0	0	0	0	0	0	48	5

2.4 No. of Guest and Visiting faculty and Temporary faculty

Guest : - Visiting : - Temporary : 05

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/	2	10	5
Presented papers	19	38	7
Resource Persons	-	2	1

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

- The college has prepared research compendium for all publications of staff members from the year 2011 to 2015. The research compendium acts as a ready reference for staff and students.
- Group discussions, role plays, seminar presentation, case studies, surveys, use of scientific games, hands on training were conducted for UG and PG students.
- ICT based teaching methods used are: power point presentations, screening of educational films and *Youtube* videos, use of various software, use of audio-visual aids, use of e-books, access of subject related websites, sending notes via email using google-groups.
- Educational Visits, study tours and field work help students to get exposure and helps in improving their practical knowledge.
- Poster, model building and project competitions.
- Entrepreneurship skill development program-Vividha.

- Commerce faculty organized various programs like Cost Fest, Hands on trainings, Bank connect so as to enhance commercial skills of students.

2.7 Total No. of actual teaching days during this academic year 210

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

- Open Book Examinations, Bar coding, Photocopy, Online Multiple Choice Questions
- Re-checking and re-valuation
- The examination and revaluations reforms initiated in the previous year were continued in this year.

**Examination Reforms**

- Bar coding system initiated at university level is efficiently implemented in the college. Two workshops were organised for the staff members for training of staff.
- Examination forms are pre-checked by the faculty members so as to avoid any mistakes in the Hall Tickets.
- Conducted one day workshops on internal examination reforms and on assessment methods.

**Evaluation Reforms**

- Answer-books of internal tests are shown to the students. Queries and doubts are resolved satisfactorily.
- Photocopy of the answer book is provided on demand.
- Assignments, presentations, open book test, multiple choice questions are used for continuous assessment.
- First Year Central Assessment Programme (CAP) is conducted.

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

BOS Members	Workshops
7	3

2.10 Average percentage of attendance of students 70%

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
T.Y.B.Sc. (Chemistry)	25	28	28	16	20	92
T.Y.B.Sc. (Microbiology)	36	20.58	29.4	26.4	2.9	79.41
T.Y.B.Sc. (Physics)	5	20	60	-	-	80
T.Y.B.Sc. (Mathematics)	18	20.4	8	19.55	22.2	70.22
T.Y.B.Sc. (Bio-technology)	31	23.7	50	31.1	0	76.3
T.Y.B.Sc. (Zoology)	22	31.8	26.13	23.49	9.8	62.2
T.Y.B.Sc. (Computer Sc.)	125	9.6	28	13.6	0	51.2
T.Y.B.A.	133	5.7	24	30.7	1.9	62.4
T.Y.B.Com.	326	1.53	16.8	35.75	11.6	59.3

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

The institute monitors and evaluates teaching learning process through IQAC

- Teachers' diary is maintained by the teaching faculty. Teaching Plan is prepared and syllabus completion undertaking from faculty members.
- IQAC meetings are conducted at college as well as departmental level to plan the academic activities in the college.
- IQAC takes feedback from Alumni and industry experts, students and parents and accordingly designs the activities in the college.
- Teachers make teaching plan and practical plan to ensure smooth conduct of course and syllabus completion.
- Authorities keep a vigil on daily teaching schedule.
- Feedback system is implemented effectively to monitor and evaluate the teaching learning process.
- Subject-wise result analysis is done regularly and corrective measures are taken for improvement.

- Department level examination committee decides schedule of continuous assessment for PG classes.

#### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	2
UGC – Faculty Improvement Programme	1
HRD programmes	-
Orientation programmes	-
Faculty exchange programme	-
Staff training conducted by the university	1 STP
Staff training conducted by other institutions	14
Summer / Winter schools, Workshops, etc.	30 (workshops)
Others- seminars/conferences/symposia	9/15/4

#### 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	50	9	-	9
Technical Staff	13	1	-	1

### Criterion – III : Research, Consultancy and Extension

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

- The college research committee guides staff members for writing project proposals to various funding agencies. The staff members are encouraged to write project proposals. The college provides seed money to staff and students for carrying our small research projects Interaction with scientists to motivate students.
- Students as well as staff members are made aware of various research opportunities such as Workshops, Seminars, Conferences, Research projects etc.
- In various departments activities to develop research attitude are carried out which include designing working models for explaining various processes, poster making based on scientific concepts, developing experimental projects that help to build self confidence and better understanding etc.
- Applied projects with social relevance are developed by the students of Electronics Department.
- Three students are guided for 'Aavishkar' – a regional level research project competition under BCUD project.
- Students are encouraged to write Scientific Review Articles and presenting the same.
- Post Graduate students carry out summer training and projects in research institutes like NCCS, NCL, ARI, NARI, NIV etc.
- **Research Induction Program** for Life Sciences Post-Graduate Students, 06 – 07 September 2016.

#### 3.2 Details regarding major projects (2016-17)

	Completed	Ongoing	Sanctioned	Submitted
Number	01	03	-	02
Outlay in Rs. Lakhs	3.50	39.046	-	43.25

#### 3.3 Details regarding minor projects (2016-17)

	Completed	Ongoing	Sanctioned	Submitted
Number	04	05	-	01
Outlay in Rs. Lakhs	6.50	16.2	-	3.0



3.4 Details on research publications

	International	National	Others
Peer Review Journals	22	10	--
Non-Peer Review Journals	5	-	--
e-Journals	02	01	-
Conference proceedings	05	24	08

3.5 Details on Impact factor of publications:

Range	0 – 5	Average	
h-index	21	Nos. in SCOPUS	6

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (Rs. in Lakhs)	Received (Rs in Lakhs)
Major projects		UGC, SERB	39.046	19.156
Minor Projects		UGC	11.90	8.20
Interdisciplinary	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	BCUD	4.3	2.15
Students research projects ( <i>other than compulsory by the University</i> )	Projects under DBT Star College Scheme & UGC COC	DBT and UGC	18.00	-
Any other	2016 May-September	Bapu Trust	1,24,000	1,24,000
Total (Rs. in Lakhs)	-	-	74.486	30.746

3.7 No. of books published

- i) With ISBN No. : 10  
 Chapters in Edited Books : 08  
 ii) Without ISBN No. : --

3.8 No. of University Departments receiving funds from –

UGC-SAP, CAS, DST-FIST, DPE, DBT Scheme/funds N.A.

3.9 For colleges :

Autonomy Nil CPE Nil  
INSPIRE Nil CE Nil

**DBT Star Scheme sanctioned for 9 Departments under science faculty**

Any Other

DST FIST Scheme College as a whole

UGC Development Grants

3.10 Revenue generated through consultancy Rs. 5,48,000/-

3.11 No. of conferences organized by the Institution

Level	Inter-national	National	State	University	College
Number		2	2	3+2 (Faculty Development)	21 (workshops)
Sponsoring agencies		BCUD, SPPU	BCUD, SPPU	College	College

3.12 No. of faculty served as experts, chairpersons or resource persons 21

3.13 No. of collaborations

International : 01 National : 05 Any other : 11

3.14 No. of linkages created during this year : 92

3.15 Total budget for research for current year (Rs. in lakhs) :

From Funding agency : Rs. 74.486

From Management of University/College : Rs. 6.000

Total : Rs. 80.486

3.16 No. of patents received this year : Applied for three patents at National Level.

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

Total	Inter-national	National	State	University	District	College
8	6	3	-	-	-	-

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

Guides 10 Students 34

3.19 No. of Ph.D. awarded by faculty from the Institution : 05

3.20	No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)			
	JRF	01	SRF	01
	Project Fellows	-	Any other	01
3.21	No. of students Participated in NSS events			100
	University level	100	State level	-
	National level	-	International level	-
3.22	No. of students participated in NCC events			18
	University level	18	State level	-
	National level	-	International level	-
3.23	No. of awards won in NSS			Nil
	University level	-	State level	-
	National level	-	International level	-
3.24	No. of awards won in NCC			Nil
	University level	-	State level	-
	National level	-	International level	-
3.25	No. of Extension activities organized :			
	University forum	09	College forum	03
	NCC	-	NSS	-
	Any other	14		
3.26	Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility			
	<ul style="list-style-type: none"> <li>• Blood donation camp.</li> <li>• NET- SET preparation workshop.</li> <li>• <i>Swarmadhuri</i> : Inter collegiate classical music and <i>Natyasangeet</i> competition.</li> <li>• Workshop for mother parents.</li> <li>• A public awareness session on preventing violence against women under the aegis of Vidyarthini Manch.</li> <li>• Disaster management workshop.</li> <li>• Cost-Fest workshop.</li> <li>• Exhibition of tribal handicrafts.</li> <li>• Personality development workshop for Girls.</li> </ul>			

- *Nirmalya* collection during Navaratri at Chaturshringi temple and converting it into Bio-fertilizer.
- Helping local police for maintaining discipline during festivals.
- Activities in collaboration with Indian **Red Cross Society**. Students participated in Police Mitra activity of crowd management during *Ganapati* Festival, participated in training programme on counselling. Attended a national level Training for Youth programme at Bangaluru that acquainted students with disaster management, first-aid, team building.
- 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 societies as well as in various departments of the college.
  - **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 at Vadgaon Maval was done on 2 acre by 24 students and 2 teachers and a staff member.
    2. Kranti diwas celebration was organized along with History department wherein Lecture was organized on **Youth Empowerment** by Keshawanand Swami from ISKCON.
    3. Students were involved in *Nirmalya* collection drive during *Navratri* festival at *Chaturshringi* Temple to convert the biodegradable offerings into bio-fertilizer.
    4. Blood donation camp was organized in the college.
    5. Special winter camp was organized at Lavarde village, Tal. Mulshi, Dist. Pune.

## Criterion – IV : Infrastructure and Learning Resources

### 4.1 Details of increase in infrastructure facilities :

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	3.5 acres	-	Parent society	3.5 acres
Class rooms	30	-	Parent society	30
Laboratories	33	1	Parent society	34
Seminar Halls	1	0	Parent society	1
No. of important equipment purchased (≥ 1-0 lakh).	42	8	DST FIST , UGC	50
Value of the equipment purchased during the year (Rs. in Lakhs)	107.16	28.78391	UGC, DBT & Parent institution	136.32591
Others	1,372	162	UGC, DBT & Parent institution	1,534

### 4.2 Computerization of administration and library

**Office:** Vruddhi Software is used for student record and Tally ERP-9, E –tax is used for accounts.

**Library:** Library software is upgraded with new KOHA library automation software and DSPACE digital library software. FedGate federated search engine is introduced to search all library resources (catalogues and e resources) on a single search window. Flipped classroom is designed to educate patrons online. It is used to access e content consortia and e content developed by staff members.

### 4.3 Library services :

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	11,714	13,79,272	408	82,690	12,122	14,61,962
Reference Books	14,831	70,43,553	63	67,980	14,894	71,11,533
e-Books	1,450 Audio Books+ e-books access through	17,225	DSPACE Institutional repository for eBooks	1,95,500	More than 50,000	2,12,725

	NLIST and DELNET Consortia Databases More than 50,000					
Journals	95	1,27,552	92	1,17,372	187	2,44,924
e-Journals	e-journal access through NLIST and DELNET Consortia Databases More than 30000	17,225	FedGate Software for online e-journals and e-books	1,15,000	More than 30,000	1,32,225
Digital Database	NLIST and DELNET Consortia Databases + Free Online databases More than 25	17,225	More than 50 free online e-journals, e-books, educational videos and scholarly literature data bases to library e-resources portal and flipped class room. Access to open access digital libraries and scholarship portals	---	NLIST and DELNET Consortia Databases More than 50 free online e-journals, e-books, educational videos and scholarly literature data bases to library e-resources portal	17,225
CD & Video	959	9,025	15	-	974	9,025
<p>Others (specify)</p> <p>Other free online research publications like e-books, e-journal, databases, theses and dissertations databases, digital libraries, ready references, encyclopaedias, e-news, biographies, e-text achieves are made available to all patrons on our college website and blog in the form of Portal available at <a href="http://moderncollegecentrallibrary.blogspot.in/p/gateway-to-e-resources.html">http://moderncollegecentrallibrary.blogspot.in/p/gateway-to-e-resources.html</a></p>						

#### 4.4 Technology up gradation (overall)

	Total Compu-ters	Compu-ter Labs	Inter-net	Browsing Centres	Compu-ter Centres	Office	Depart-ments	Other
Exist-ing	365	11	10 Mbps	11	2	18	347	-
Added	104	-	20 Mbps	-	-	3	91	10 Hostel 1 Stand by 6 Staff room 2 Office 1
Total	469	11	20 Mbps	11	2	21	438	-

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

- Training for DSPACE software for 3 days and KOHA software for 1 day was organized.
- Training sessions were conducted in three batches for students about library automation.

#### 4.6 Amount spent on maintenance :

	Rs. in lakhs
i. ICT	17.14088
ii. Campus Infrastructure and facilities	34.89142
iii. Equipment	0.99308
iv. Others	1.47595
<b>Total</b>	<b>54.50133</b>

## **Criterion – V : Student Support and Progression**

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

To make students aware of the different student support services, the institution has arranged for various committees to function with the purpose of enhancing awareness. The details are as follows :

- Information through Website of the College
- Annual Academic Brochure
- Circulation of College Magazine *Akanksha* which provides reports of Student Support Services of the past year.
- Notices are displayed.
- Black Boards displaying informative notices at the Porch.
- Circulation of notices among the classrooms.
- SMS Service and social media is used to inform different activities for academic and extra-curricular activities.
- Student Representatives work as a communication channel with the student community.

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

- Tracking of progression through alumni registration on website, different groups on social media and through meetings of alumni association.
- Students email their achievements to the respective departments.
- Tracking is done through verification of academic records asked by recruiters and government agencies.
- References and recommendations by teachers for students applying for education abroad.
- Result Analysis is conducted every year in order to track the performance of the students and analyse what improvements could be done.
- Student Progression is also tracked for performances in cultural, sports and other extra- curricular activities.
- Committee heads apprise the authorities about their goals and objectives.
- Annual Reports of all committees and departments are published in college magazine.
- For academic progression Remedial Coaching is being conducted.
- Extra classes, bridge courses and lectures on the lines of foundation course are being conducted.



- Skill mapping is being done.
- Feedback from students helps the authorities to improve the performance.

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

UG	PG	Ph. D.	Others
3831	784	0	0

(b) No. of students outside the state : 149

(c) No. of international students : 50

Men		Women	
No	%	No	%
2233	48.38	2382	51.61

Last Year (2015-16)

General	SC	ST	OBC	Physically Challenged	Total
2387	727	219	986	03	4319

This Year (2016-17)

General	SC	ST	OBC	Physically Challenged	Others	Total
2461	759	157	656	22	560	4615

Demand ratio 1:1 Dropout % 2%

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

A competitive examination guidance cell is run by the college to provide help to the students who aim to attempt the various competitive exams. Guest Lectures are organised to motivate and inspire students. The study circle conducted workshops on various topics like Mental Ability and Mathematics. Reference books and text books of Mathematics, English and Mental Ability were made available to the students for their practise. Twenty students appeared for Graduate Excellence Examination, a preparatory exam for competitive exams. The Cell also conducted State level exam ACEC for which 300 students appeared.

No. of students beneficiaries : 265

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

NET 2 SET/SLET 2 GATE 0 CAT 0  
IAS/IPS 0 State PSC 0 UPSC 0 Others 11

## 5.6 Details of student counselling and career guidance

1. Psychological and Clinical counselling
2. Premarital counselling
3. Career guidance
4. Life Skills workshops

No. of students benefitted : 170

## 5.7 Details of campus placement

On Campus		
Number of Organizations Visited	Number of Students Participated	Number of Students Placed
26	446	89

## 5.8 Details of gender sensitization programmes

A debate was organised on the topic, 'Gender Equality has been established in India'. Dr. Manasi Palshikar, author, activist and Gender Studies expert was invited as the judge. There were 12 students who participated in the debate. Dr. Sadhana Natu who heads the Gender Champions Club was invited as a resource person for three workshops on Anti sexual harassment. A talk on Self Confidence for girls was organised which received a good response from the students.

## 5.9 Students Activities

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

#### Sports

State/ University level	54	National level	20
International level	1		

#### No. of students participated in cultural events

State/ University level	50	National level	0
International level	0		

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

#### Sports:

State/ University level	79	National level	17
International level	0		

#### Cultural:

State/ University level	08	National level	0
International level	0		

### 5.10 Scholarships and Financial Support

	<b>Number of Students</b>	<b>Amount Rs.</b>
Financial support from institution	08	5,14,801
Financial support from government	819	1,08,14,121
Financial support from other sources	3	1,80,000
Number of students who received International/ National recognitions	5	90,000

### 5.11 Student organised / initiatives

Fairs:	State/ University level / Institutional level	1
Exhibition:	State/ University level/ Institutional level	4
5.12	No. of social initiatives undertaken by the students :	20
5.13	Major grievances of students (if any) redressed:	Nil

## **Criterion – VI : Governance, Leadership and Management**

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

#### **“Vision Statement”**

*We aspire to enrich the national and global talent pool by producing intellectually and technologically sound manpower through excellence in academics and research.*

#### **“Mission Statement”**

*To generate innovative ideas by engaging youth in cutting- edge research, promote good citizenship by sensitizing them to socio-economic issues and champion global competency through their exposure to rapidly changing trends in education.*

### **6.2 Does the Institution have a management Information System**

- The college has a management information system.
- e-documentation and digitisation.
- Online admission procedure for all courses.
- Informative website and SMS based notification system.

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

#### **6.3.1 Curriculum Development**

1. Active participation of faculty members through representation in Board of Studies in various subjects as well as via participation in various workshops organized for curriculum development and execution.
2. Curriculum development for more than 30 career oriented self financed skill based courses.
3. Curriculum development for practical sessions and hands-on training programmes under DBT-STAR College Scheme.

#### **6.3.2 Teaching and Learning**

1. Conducting practical sessions beyond the prescribed curriculum under DBT-STAR College Scheme for inculcating a culture of learning-by-doing.
2. Encouraging students to carry out research projects to develop critical thinking.
3. Adoption of conventional as well as modern ICT-based teaching methods.
4. Peer learning.

5. Organization of competition for students like 'Anubhuti'- a research project presentation competition, 'Vividha'- entrepreneurship development platform for students and 'Interaction'- an intercollegiate competition for different courses in Computer Science.
6. In-house faculty development programme for newly inducted teachers on learning and learner-centric education

### **6.3.3 Examination and Evaluation -**

#### **Examination Reforms**

- Bar coding system initiated at university level is efficiently implemented in the college. Two workshops were organised for the staff members for training of staff.
- Examination forms are pre-checked by the faculty members so as to avoid any mistakes in the Hall Tickets.
- Conducted one day workshops on internal examination reforms and on assessment methods.

#### **Evaluation Reforms**

- Answer-books of internal tests are shown to the students. Queries and doubts are resolved satisfactorily.
- Photocopy of the answer book is provided on demand.
- Assignments, presentations, open book test, multiple choice questions are used for continuous assessment.
- Every year the first year Central Assessment Programme (CAP) is conducted as per the university guidelines.

### **6.3.4 Research and Development**

1. Sensitization of faculty members and students to undertake research projects.
2. Institutional support to faculty members in terms of all administrative and infrastructural matters and provision of Rs. 7,00,000 as seed money.
3. Development of research culture and providing institutional support to students to undertake research projects.
4. Organization of guidance sessions for faculty members about available funding options, concepts of Journal Impact Factor, Citation Indices etc.
5. Appointment of Academic & Research Co-ordinator.

6. Some faculty members have been appointed on editorial board of research journals.
7. Organisation of seminar by science departments under DBT-STAR Scheme.

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

1. The college has excellent automated library facilities.
2. Central Library procured advanced library management open source software KOHA.
3. Development of independent departments of History, Sociology, Economics, Political Science and an additional staff room and a retiring room
4. All PG classrooms have been made ICT-enabled
5. Noteworthy improvement of infrastructure and instrumentation facilities through supports from UGC, DBT and DST and procurement of instruments like Gel-Documentation, PCR, ELISA reader, Fluorescent Microscope, Rota-evaporator etc.

#### **6.3.6 Human Resource Management**

- Trainings of teaching and non-teaching faculty members and students in the college as well as other centres of higher education and research
- Procurement and subsequent use of new software for training of administrative staff
- Ensure participation of all the stake holders in decision making.
- Training workshop on examination work
- Training programme on laboratory safety.

#### **6.3.7 Faculty and Staff recruitment**

The recruitments are made in accordance with the Rules and Regulations laid by University Grants Commission, State Government and S. P. Pune University.

#### **6.3.8 Industry Interaction / Collaboration**

1. The college has a Placement Cell which organized various Academic-Industry Interaction/collaboration events and a successful campus placement drive.
2. Academic Co-operation Agreements were signed with industries and organisations
3. Industry-Connect was organised.
4. Industrial visits were organised.
5. Linkage with a regional Chamber of Commerce, Mahratta Chamber of Commerce, Industries and Agriculture, Pune
6. Hands-on training by Bank, NGOs and private units for introducing entrepreneurship skills

### 6.3.9 Admission of Students

1. The admissions were made strictly in accordance with the state government and S. P. Pune University rules and reservation policy has been strictly implemented.
2. Online admission process was successfully implemented.
3. Student counselling was done for admission and selection of particular subjects and specializations.
4. Approaching the International Students' Cell of SPPU for admissions to foreign students.

### 6.4 Welfare Schemes

Teaching	Cultural Programme, felicitation of achievers in common staff meetings and on national festivals
Non teaching	Ex-gratia for Diwali festival, Monetary support to needy staff members, Discounts in Tuition Fees for the wards of non-teaching staff
Students	In-house fund raised by faculty members as a loan scholarship. Various scholarship and fellowships Felicitation of performers Personality development workshops Reimbursement of expenses of students of Arts and Debate Circle Sports scholarships and reimbursement of TA and DA Implementation of student welfare schemes of SPPU

- 6.5 Total corpus fund generated --
- 6.6 Whether annual financial audit has been done : Yes

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Centre for Educational Development Administration (CEDA), Pune	Yes	Parent institution
Administrative	Yes	Centre for Educational Development Administration (CEDA), Pune	Yes	Parent institution

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

For UG Programmes                      Yes                           No            

\* College conducts first year examinations of undergraduate courses (B.A./B.Com./B.Sc.) as per guidelines of SPPU. Results are declared within stipulated time.

For PG Programmes                      Yes                           No            

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

**Examination Reforms**

- Training workshops on exam reforms, formalities, responsibilities are being conducted.
- Question papers for all examinations are sent online by SPPU. This system is effectively implemented in the college.
- Examination forms are pre-checked by the faculty members so as to avoid any mistakes in the Hall Tickets.

**Evaluation Reforms**

- Various methods for continuous assessment are used such as, presentations, open book test, group discussions, multiple choice questions.

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

Parent University (SPPU) statute promotes the autonomy to affiliated colleges. University authorities are co-operating for the process of autonomy. P. E. Society, parent institution has passed a resolution in Business Council regarding application for getting autonomy.

**6.11 Activities and support from the Alumni Association**

- An alumni association of P.E. Society's Modern College of Arts, Science and Commerce Ganeshkhind Pune is a registered association under public trust and Society's Act in the year 2010-11. It has its mission statement as 'a silent but powerful movement that transforms...' It has its executive body for execution of its objectives and policies. The body constitutes with the involvement of Principal and some of the senior faculties and alumni. The memorandum of association aims ...
- To impart valuable suggestions for quality education through Internal Quality Assurance Cell frequent meetings.



- To undertake the various activities for the present students so that it will help them to improve their employability skills and entrepreneurial abilities.
  - To assist the placement cell of the college for conducting soft skill development workshops, Personality development workshops and campus interview.
  - To achieve the inclusive growth of the students through endowment scholarship for deserving economically backward students.
  - To make collaborative effort in environmental consciousness, financial inclusion, women empowerment, academic up-liftment of the students.
  - To provide a platform for the alumni through Alumni Meet for enriching them with business contacts.
- A. **Endowment scholarship:** Two '**Gollapudy scholarships**' are instituted by Mr. Sandeep Gollapudy our second batch alumnus the first scholarship is in the name of his father and second in the name of his mother to support deserving students for securing higher education. In the year 2016-17 Mr. Ingale Bhagwat is a recipient of this scholarship. Mr. Amey Nisal has also instituted '**Nisal Scholarship**' of Rs. 5000/only. Mr. Piraji Mavale is recipient of this scholarship.
- B. **Tree plantation:** During *Vanamahatsav* tree plantation was done at the hands of representative of first batch alumnus Mr. Manish Konde.
- C. **Corporate to campus:** Interaction of well placed alumni with youth was conducted under corporate to campus during first half of the academic year for employability skill enhancement. Mr. Madhav Joglekar (For T.Y.B.Com on Interview techniques), Mr. Umesh Inamdar (for TY and M.Com on ISO), Mr. Kiran Desai (for EDC program on Entrepreneurial talents), Mr. Surpriyo Dasguta (For S.Y. B.Com on communication skills), Mr. Amey Nisal (for B.Voc. students on Business Plan) were invited and interacted with youth on current trends and opportunities in corporate world.
- D. **Skill development training:** For the first year students paper craft training was coordinated by Mr. Sagar Kanekar and Mr. Amy Nisal gave the one day training to the students.
- E. **Dhol tasha pathak performance:** The College is having Shivragini Dhol Tasha Pathak. It has performed during Ganapati Festival in front of residential societies. The pathak was under the guidance of Mr. Sagar Kanekar and Mr. Vijay Wagh.
- F. **Collaboration with NGO, Kalpataru:** On the occasion of Anant Chaturdashi in front of Tulshibaug Ganapati first year students were joined Kalpataru for demonstration of Smart City Project. Our alumnus Mr. Vinayak Kulkarni President of Kalpataru gave this opportunity to our students.

- G. **Cultural event:** During NAAC visit the cultural program was coordinated by Dr. Sadhana Natu along with our alumnus Mr. Sagar Kanekar and Mr. Aditya Apte.
- H. **Alumni power:** Alumni meet was organized as Alumni Power. During this meet there was performance of dhol tasha pathak as well as the documentaries of our proud alumni were shown followed with musical evening. There was an interaction of well placed alumni during academic audit of the college. Around 200 alumni were present on this occasion.
- I. **Deepsandhya:** On the occasion of Diwali Festival 'Deepsandhya' a musical evening was organized of alumni professional singers. This program was coordinated by Mr. Sagar Kanekar and Mr. Tushar Rithe.
- J. **Interaction with NCC cadets:** Our alumnus Major Omkar Kulkarni interacted with our NCC Cadets on the roles and responsibilities and focused on career opportunities in Army.
- K. **Vividhaa an exhibition:** Vividhaa exhibition is a unique feature of our alumni association. It aims at encouraging entrepreneurial talents and enhancing employability skills .It also aims at creating social accountability amongst youth. In this year all the programs were designed to achieve the theme of '**Clean and Green India**'. It includes the following...
- **Display and inauguration of stalls:** Around 43 stalls were displayed in the area of handicrafts, snacks and brain storming games.250 students participated in the exhibition. There were around 10000 footfalls every day. The inauguration was at the hands of Mrs. Madhuri Sahastrbudhe well known entrepreneur and BJP corporator, Dr. Desai Prabhakar Director of Student's Welfare Board SPPU and Mr. Karmerkar Chief Editor of Loksatta. The Performance of the stall owners was judged by Mrs. Vaishail Bandewar and Mrs. Mungse Jyoti. The winners were awarded during prize distribution ceremony. The profit of the stall was donated to **Manayaa**, a social institution by Microbiology department
  - **Open Forum:** OPEN FORUM is a discussion forum of youth icons who have made a remarkable contribution in their field This year we have organized open forum of our own successful alumni. The interview was coordinated by Sachin Ghodge and Ms. Sneha Chavan. Major Omkar Kulkarni- Army officer, Mr. Yatin Mokashi –Tabala Player ,Mr. Vinayak Kulkarni –Entrepreneur and social worker, Mrs. Pallavi Naik- Entrepreneur, Mr. Bharat Mahale-Entrepreneur, Mr. Nirgulkar Ashok- President of one

book one smile, Tushar Mule-Digital Village Concept Initiator were graced the occasion and gave inspiration to youth for their future.

- **Walk for cause of green and clean India:** The students prepared posters on the stated theme and to spread the message in the society through slogans walk was organized and Chatushrunji Police Department was also joined with us. We have given the first prize to the best poster preparation. The judging of the posters were done by Prof. Swati Kandharkar vice principal Science faculty and Prof. Shruti Bhankhande Head of History Department.
- **Recipe Competition:** This event was organized for all the stake holders of the college. The participants had prepared the food items with the ingredient of vegetables and fruits. Dr. Mrunalini Shah former faculty member and Mrs. Pallvi Naik alumna were the judges.
- **Inspire yourself:** Our alumna Mr. Akshay Waghmare famous Marathi film and Jai Malhar fame Mr. Devdatta Nage visited the exhibition and inspired the youth towards personality grooming tips and career opportunities.
- **Street Play:** On the stated theme the street play was organized for the various teams of 10 students each

#### **6.12 Activities and support from the Parent – Teacher Association**

The PTA actively participated in the conducting the Parent-Teachers Meetings in the college in different departments. Organised one-day programme on the theme '*Kisan Pakak Melawa*' : Fair for parents from agricultural background

#### **6.13 Development programmes for support staff**

1. College has conducted workshops on Lab-Safety and Good Lab Practices for laboratory assistants in science departments.
2. Health insurance for all support staff.
3. Encouragement for further education and felicitation of their achievement.

#### **6.14 Initiatives taken by the institution 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 12th 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 11th 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 power 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 t e- recovery of solvents from used solvent waste.

**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 Centre 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.

## **Criterion – VII : 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.

IQAC is actively involved in enhanced functioning of the infrastructure, library resources, instrumentation facilities and interaction with all stake holders of the institution. This has resulted in introducing some innovations during this academic year.

- (a) Improvised methods are implemented for effective teaching and learning. These involve identifying slow learners and imply remedial teaching to them for better understanding. ICT based teaching involves use of internet, Google App, Flint etc. Students are motivated by a variety of ways like performing small projects, model making, cooperative learning, study visits, interaction with successful alumni, guest lectures, entrepreneurship training programs etc. Safety and disaster management workshops were conducted for staff and students.
- (b) New skill based courses, hands on training and summer training programs are organized by science faculty for undergraduate and post graduate students. It has resulted in research publications.
- (c) The teachers have raised a fund to help for college fees of needy students.
- (d) Industry-Academic connect activities are done through linkages for summer training and projects for students.
- (e) Feedback on Teaching is shared with teachers to create a positive impact on Teaching-Learning process.
- (f) The library has created flipped classroom for educating patrons online and has introduced KOHA, D-space and FedGate search for all resources.
- (g) Academic Audit has been done by the external professional agency, CEDA, Pune.
- (h) Environment awareness related many activities are initiated such as
  - i. Use of solar and wind hybrid energy for generation of electricity of 13kv is being utilized for classrooms, corridors and administration office.
  - ii. Digitization of administrative processes and central documentation has helped to reduce carbon foot prints.
  - iii. Effluent water plant is installed which converts laboratory effluents into recyclable water which is then used for on-campus trees.
  - iv. Baction Compost Plant processes about 40 kg organic garbage and generates 5 kg manure which is used for the botanical garden.

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

Strengthening of Teaching-Learning Process	Teaching related activities are monitored and improvised regularly. The Feedback on teaching is shared with faculty and suggestions or recommendations are given by the Principal. This has helped in enhancing the quality of teaching-learning process. ICT based teaching is made a regular activity being enabled by LCD and internet facilities in classrooms. Organization of Guest Lecture series, Conferences, Seminars and Workshops has helped teachers and students to interact and nurture research aptitude and updating the subject knowledge.
Designing of skill based courses for students	These programs are conducted by the college considering their need to increase employability skills of students. Soft Skill Development programs nurture communication and writing skills as well as personality development. In house magazines enhance their creativity and expressions in writing.
Mobilization of resources and research	Research grants are procured from funding agencies like UGC, DBT, BCUD- S.P. Pune University and other resources. It has helped to motivate staff and students for doing research and publish it in journals and present it in conferences.
Infrastructure Development	Renovation of Staff Room, Language Laboratory, Mathematics, and Geography Department is done. Psychology Laboratory is newly set up. Canteen premise is renovated.
Digitization of administrative processes and central documentation	Online admission processes and digitalized records have made the processes almost paperless which has greatly contributed to reduction of carbon foot prints.
Use of Renewable energy resources	Wind and solar hybrid energy plant usage has cut down about 30% of electricity bills. Many institutes have visited this facility in order to implement it for their own premises.
Waste Disposal	Organic waste is converted into vermi-compost, effluent water is made recyclable and e-waste is given to MPCB authorized e-scrap centre. Bio hazard waste is detoxified and decontaminated before disposal. Broken glassware is given for recycling.

- 7.3 Give two best practices
- Effective teaching and learning methods
  - Environment awareness activities

**Note: Details of Best Practices as per format have been attached – Annexure-III**

- 7.4 Contribution to environmental awareness /protection
- Use of solar and wind hybrid energy to generate electricity.
  - Efforts to develop ‘Zero Waste Campus Model’ by making vermi-compost out of organic waste, effluent water treated into recyclable form to water plants, recycle and reuse of organic solvents, to give broken glassware for recycling and detoxifying and decontaminating biohazards.
  - MOU for e-waste and plastic waste Management

7.5 Whether environmental audit was conducted? Yes  No

7.6 Any other relevant information the institution wishes to add.

- State level (MEDA) Award for Energy Conservation
- Active Counselling Cell
- Encouragement to Research and filing Patents
- State level Awards for achievement in sports : *Shiv Chhatrapati* Award winners.

8. Plans of institution for next year
- ICT based Communication system in conduct of examinations.
  - Computerised attendance system.
  - Soliciting more funds for research
  - Faculty development programmes with special focus on interdisciplinary research, use of technology in research, effective communication for teachers, role of teachers in administration

**Mr. Parag Shah**  
Coordinator, IQAC

**Principal Dr. Sanjay Kharat**  
Chairperson, IQAC

Date : 29 September 2017

Place : Pune

**Annexure 1 : Academic Calendar**



P. E. Society's  
 Modern College of Arts, Science and Commerce, Ganeshkhind, Pune 411053  
 Ph. 020 25634021/25631091 website: [www.moderncollegek.org](http://www.moderncollegek.org) Email: [modern53@rediffmail.com](mailto:modern53@rediffmail.com)  
 Academic Calendar 2016-17 (First Half)

	FIRST WEEK	SECOND WEEK	THIRD WEEK	FOURTH WEEK
<b>MAY</b>	1. Printing of Brochures for Entrance Exam	1. Planning, Execution of Entrance Exam	1. Admission Committee Meeting	1. Entrance Examinations.
<b>JUNE</b>	1. FY Class Admission	1. Term Meeting 2. SY, TY Admission 3. Communicating Time Table	1. Commencement of SY, TY Teaching.	
<b>JULY</b>	1. Commencement of FY Teaching. 2. Admissions of PG Classes 3. Principal's address for F.Y students	1. Filling up Eligibility Forms 2. Filling up Scholarship & Free Ship Forms 3. Beginning of Science Practical	1. Declaration of Merit list of PG Courses 2. Selection of Earn & Learn Students 3. Selection of NSS, NCC Students	1. Commencement of PG Classes
<b>AUGUST</b>	1. Independence Day-flag Hoisting (15th August) 2. Akansha Meeting 3. Student's Council Elections		1. Modern trekking club activity 2. Filling of Exam. Forms 3. Spoken English Course 4. Modi Course	2. Science Association Inauguration
<b>SEPTEMBER</b>	1. Blood Donation Camp 2. World Population Day Program	1. Internal Exam.SY/TY (science) 2. Health Checkup-FY Classes	1. Commerce Horizon Publication. 2. Commerce backlog examinations.	2. BCA Internal Examinations
<b>OCTOBER</b>	1. Commencement of University Examination. 2. Dead stock verification	1. Internal Exams FY (science) 2. B. A./B.Com. Term End Exam 3. PG Mid Semester Exams	1. Term End Meeting	



## Academic Calendar 2016-17 (Second Half)

	FIRST WEEK	SECOND WEEK	THIRD WEEK	FOURTH WEEK
<b>NOVEMBER</b>	Diwali Vacation and University Exams (BA/BCOM/BSC )		EVS Course	1. Faculty Development Programme
<b>DECEMBER</b>	1.PG Practical Exams 2. World AIDS Day program	2. Declaration of B.A., B.Com., term end exam result	1.Educational Tours	1. NSS Winter Camp
<b>JANUARY</b>	1.Filling up of Exam. Forms 2.Celebration of Vivekananda Jayanti and Yuva Saptaha Begins 3.Alumni Meet-VIVIDHA 1.Science Exhibition (Anubhuti)		1.Sports Competitions 2. 'Interaction' Computer Dept. Intercollegiate Activity	1. Celebration of Kanitkar Day(25 <sup>th</sup> Jan) 2. Flag Hoisting (26 <sup>th</sup> Jan) 3. Swara madhuri Competition
<b>FEBRUARY</b>	1. Annual prize Distribution	Program of Vidhyarthini Manch	1.FY Practical & PT Examinations	1. Internal Examinations Science 2. Environmental Awareness Examinations 3 Dead stock verification.
<b>MARCH</b>	1. University Practical Examinations (SY/TY,B.com/B.sc)		1.Preparation of AQAR 2.University Examination/PG Examination	
<b>APRIL</b>	1.Planning of Committees for Next Academic Year	1.PG Practical Examinations, 2.Printing of Prospectus, Admission forms 3.Submission of Committee related files to Central Documentation Committee 4. Filling up of PBAS Forms		1.MA/M.Com Project ,Viva 2.Year End Meeting & Distribution of Committee Work & College 3.AkankshaMagazine Release 4.Akeshyatrutiya Programme 5.Assessment of workload for advertisement for new posts

## Annexure 2

### FEEDBACK ANALYSIS REPORT 2016-17

#### 1) Curricular Aspects

**Analysis :** More than 86% students feel that there is correlation between the syllabus studied in the previous year and syllabus studied in the current year in an excellent manner only 10% students feel it in an average manner. 4% students do not have opinion about it.

**Action taken :** Based on the feedback received from the students IQAC suggested to conduct bridge courses so as to enable the students to learn the curriculum. Department of Mathematics and Biotechnology have conducted bridge courses while Department of Microbiology has conducted bridge lectures.

#### 2) Parents Feedback

**Analysis :** Almost all parents feel it proud to take the admission for their ward in Modern College, Ganeshkhind. Around 82% parents agree that the college admission procedure is fair and accurate. More than 80% feel that the discipline in the college is good and atmosphere in college is of learning and they found a positive change in their ward after joining the college. Also more than 75% parent regularly visit college website and found it informative. 15% parents are neutral about their responses.

**Action taken :** College organises event for Mothers '*Aai Mazya Mahavidyalayat*', '*Kisan Paalak Melawa*' and Parent-Teacher Meetings so as to acquaint the parents about college activities.

#### 3) Alumni Feedback

**Analysis :** The feedback taken from our alumni is very positive. Out of which, 91% alumni show positive inclination. Above 8% alumni are neutral about their views and about 0.01 % do not agree.

**Action taken :** Faculty wise alumni groups have been created on social media so as to reach more number of alumni. Information about registered alumni association, its membership and activities is publicised through college website. A compilation of information on successful alumni has been published in a book form titled '*Modern Yashogatha*'.

#### 4) Infrastructure Feedback

**Analysis :** 85% students are satisfied with the services like availability of sufficient purified drinking water, student amenity centre etc. Also more than 32% students are satisfied on proper use of suggestion box, proper working of laboratory equipment,

functioning of placement cell. Moreover around 67% students are aware of first aid box, special facility for physically challenged student and parking services, fire extinguisher facility as well. All students are aware about solar wind hybrid power generation plant installed in college premises and are positive towards energy conservation and Management.

**Action taken :** Proper display boards and signage have been put up in the premises for making the students aware about available infrastructure. Cleanliness drive are organised regularly to clean the campus and also to develop ownership among the students.

**Interpretation**

Some of the spontaneous feedback as well as unsolicited feedback from other visitors have helped us to maintain the constant momentum in our success venture.

IQAC is taking due cognisance of feedback through a proper mechanism, analyses and tries to resolve shortcomings by involving concerned committees/departments. Routine matters are resolved at the institutional level while policy related matters are referred to the management. There is a challenge to maintain the satisfaction level of stakeholders.

## Annexure-III

### Best Practice I

1. **Title of the Practice: Effective Teaching and Learning**
2. **Goal:** To make teaching and learning an enjoyable experience for students and learn life skills and make them confident, knowledgeable and responsible citizens having environmental and social awareness.
3. **The Context:** There are students from various socio-economic strata in the college. These also include students from different states and countries. It is required to identify their learning abilities and skills so as to make them finish the course successfully, inculcate values as well as develop their own personality and successfully tackle competition and challenges in life. This is achieved by many innovative and effective ways.
4. **The Practice:** Consistent efforts are being done for overall development of students. The teachers identify slow learners and fast learners by taking tests in the beginning of the academic year. Remedial teaching is done for slow learners. Seminars, quizzes, group discussions, model making, role plays, guest lectures, study tours are conducted for better understanding of the subject. Effective use of ICT based teaching is done regularly. Formation of subject groups on social media that includes teachers for interaction, use of Google scholar, interaction with successful alumni, discussion on recent research, participation in conferences etc. Teachers learn new pedagogies by participating in workshops and training courses and implement those in their teaching. Our library resources and ICT enabled classrooms support the same. Some teachers have uploaded innovative modules on the website and Google. Students do research projects and have published the work in reputed journal and filed for patents. A variety of students-centric activities are organized throughout the year. Intercollegiate competitions like Interaction by Computer Science Department, Cost Fest by Commerce Faculty, Modern Shree : a Sports event and *Swarmadhuri*, essay competitions are held every year. Interdisciplinary annual activities for students include Arts Circle, Wall Magazine, In-house research based publications, Kaun Banega History Scholar?, Modi Script Writing course, *Anubhuti* : science projects and Soft Skill Development workshops. Every year, faculty members raise a fund for loan scholarship to help needy students. Feedback of students is discussed with teachers to improvise quality of teaching. Academic Audit has been done by the external professional experts.

The registered alumni association 'Modernites' [No. F38148(P)] every year organizes *Vividha : An Exhibition Cum Sale : Training of Business and Employability Skills* for all students and other stake holders which has motivated many students for self-employment. As a social connect the National Service Scheme team of the college collects tons of biodegradable offerings to deity during Navratri festival at Chatushringi temple and converts it into compost. Students assist farmers for weekly sale of vegetables from farms to college in Agro to Campus drive. NSS, Rotaract Club and Red Cross groups of college organize blood donation camps. Disaster Management and Safety workshops are conducted for students and staff. Placement Cell has helped on campus placement of many students.

5. **Evidence of Success:** The success measured is in terms of proactive participation of college teachers, students, alumni and parents and also evident from their feedbacks. It has also resulted in improvisation of results, increase in number of teachers and students doing research projects and opting for higher studies. The science projects which are demonstrable are appreciated by all the stakeholders and some may lead to product development. Three patents are filed in addition to research papers. Linkages and MOUs for research projects are also increased. Events like *Vividha* have motivated students for entrepreneurship which is a great step towards our 'Make in India' campaign.
6. **Problems Encountered and Resources Required:** Crunch of space is an issue. More research funds should be procured for enhancing research.

#### **Best Practise II:**

1. **Title of the Practice: Environment awareness Initiative**
2. **Goal:** To take initiative in creating awareness of importance of conservation and preservation of environment among students, staff, all stake holders of the college and community by setting our own example.
3. **The Context:** Human race has excessively made use of natural resources without thinking of its aftermath. Every single person must proactively participate to save our environment. Extensive use of vehicles, cutting of trees, irrational use of water, paper and electricity only adds up to the threat to clean environment. We as educationists have come forward to take initiative to take measures to conserve and preserve our environment and motivate others too.
4. **The Practice:** The institution has a dedicated committee for Environment, Safety and Health. It monitors the campus and works in the context of environment

protection initiatives.

- (a) The Green Audit is done by professional external auditor.
  - (b) The Green House Gases emissions quantification has been done in terms of carbon dioxide equivalents.
  - (c) The administrative processes and central documentation has been digitized.
  - (d) The college has become pioneer in use of renewable energy resources. Solar and wind hybrid energy is used for generation of electricity which is being utilized for classrooms, corridors and administration office. It has considerably reduced the need of standard electricity supply.
  - (e) e-waste is generated from worn out computers, other hardware, mobiles, electric appliances etc. It consists of hazardous materials such as lead, zinc, lithium batteries, tin etc. Improper disposal of these products is dangerous for living beings. Hence MOU is done with MPCB authorized e-scrap centre. The e-waste and plastic waste is collected and given to this agency for proper disposal.
  - (f) Students are sensitized and educated for segregation of wet and dry garbage. Organic waste including canteen waste is processed through Baction Compost plant. The manure generated is used for the botanical garden and other trees in the campus.
  - (g) Every year National Service Scheme team of the college collects tons of biodegradable offerings to deity during Navratri festival at Chatushringi temple and converts it into compost. This initiative has generated environment related awareness in the society at large.
  - (h) Effluent water plant is installed which converts laboratory effluents into recyclable water which is being used for trees in the campus.
  - (i) Experiments are performed on micro-scale so as to minimize use of chemicals. Organic solvents are recovered after usage using rotary evaporators and reused.
  - (j) Biohazard waste is detoxified and decontaminated before disposal.
  - (k) Used papers and broken glassware is given for recycling.
5. **Evidence of success:** The use of solar and wind hybrid energy has reduced the electricity bill of the college by about 30%. Digitization of administrative processes and central documentation has helped to reduce use of papers. The college is almost made a zero waste campus because of all these practices.
6. **Problems Encountered and Resources Required:** Efforts are required by each and everyone to contribute to the green campus. Financial aid is required to enhance these activities.