

Annual Quality Assurance Report (AQAR)
2016-2017



Rayat Shikshan Sanstha's
YASHAVANTRAO CHAVAN INSTITUTE OF SCIENCE, SATARA
Sadar Bazar, Satara, M.S. 415001

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An autonomous Institution of the University Grants Commission
P.O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore – 560072 INDIA

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

2016-17

1. Details of the Institution

1.1 Name of the Institution

Yashavantrao Chavan Institute of Science, Satara

1.2 Address Line 1

533, Sadar Bazar

Address Line 2

Powai Naka

City/Town

Satara

State

Maharashtra

Pin Code

415001

Institution e-mail address

ycis.satara65@gmail.com

Contact Nos.

02162-234392

Name of the Head of the Institution:

Prin. Dr. K. G. Kanade

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02162-234392

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09881711038

Name of the IQAC Co-ordinator: Dr. Jaykumar J. Chavan

Mobile: 09421122648

IQAC e-mail address: ycisiqac@gmail.com

1.3 NAAC Track ID (For ex. MHCOGN 18879): MHCOGN10967

OR

1.4 NAAC Executive Committee No. & Date: EC(SC)/18/A&A/50.3, Dt. 05/11/2016

1.5 Website address:

Web-link of the AQAR: http://www.ycis.in/Pdf/AQAR_2016-17.pdf

1.6 Accreditation Details

Sr. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	--	2004	5 years
2	2 nd Cycle	A	3.37	2010	5 years
3	3 rd Cycle	A ⁺	3.57	2016	7 years
4	4 th Cycle				

1.7 Date of Establishment of IQAC: DD/MM/YYYY 10/01/2001

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 (2015-16) - 14/07/2016

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*):

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

DST Star Scheme UGC-CE

UGC-Special Assistance Programme DST-FIST

UGC-Innovative PG programmes Any other (*Specify*)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders: Total No. Faculty
 Non-Teaching Staff Students Alumni Others

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 Nos. International National State Institution Level

(ii) Themes

International: 1. Abroad research opportunities for students

National: 1. Recent Advances in Chemical Sciences
2. Innovative Trends in Electronics and Allied Technology

State level: 1. Statistics in Biological research
2. Tech ++

College Level: 1. Awareness about autonomy
2. Bioresonance – Recent advances in Biotechnology

2.14 Significant Activities and contributions made by IQAC

- Contribution in speeding up the process of gaining autonomy.
- Distribution and collection of self appraisal forms for updating records.
- Promotion of collaborations by signing MoUs.
- Organisation of faculty training programmes
- Organisation of meetings and obtaining feedback from various stakeholders.
- Recommendations for financial assistance to organize various activities.
- Encouragement to undergraduate and postgraduate research through seed money from college funds.
- Economic contribution by faculty towards drought affected areas

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
<p>Academic</p> <ul style="list-style-type: none"> • Initiation of PG courses in Biotechnology, Electronic Science and Computer Science • Initiation of UG course in NCC, Food Processing and Packaging • Conduction of Short term courses in collaboration with Karmaveer Vidya Prabodhini, Rayat Shikshan Sanstha, Satara. 	<p>Academic</p> <ul style="list-style-type: none"> • Efforts were taken to initiate PG courses of Electronics and Biotechnology by submitting proposals to Shivaji University, Kolhapur • B.Sc. Food Processing and Packaging course started from June 2016 • 32 new short term courses started in collaboration with Karmaveer Vidya Prabodhini from June 2016
<p>Infrastructure</p> <ul style="list-style-type: none"> • Renovation of ‘Karmaveer’ Auditorium • Construction of Golden Jubilee Building • Renovation of College Canteen • Beautification of campus. • Renovation of NAAC office and conference room • Display boards of buildings and activities 	<p>Infrastructure</p> <ul style="list-style-type: none"> • Karmaveer Auditorium renovated with modern technology • Construction of Golden Jubilee Building completed which availed space for 10 classrooms, 04 research laboratories, autonomous unit, exam cell etc. • Renovation completed • College campus improved by planting new specimens and proper labelling. Botanical garden enriched by planting RET plants. • IQAC/NAAC office and conference room renovated by providing additional space with ICT and reprographic facilities. • Display boards of buildings, departments and support services fitted at proper places.
<p>Research</p> <ul style="list-style-type: none"> • Organisation of Seminars / Conferences 	<p>Conferences /seminars organised</p> <ul style="list-style-type: none"> • 01 International, 02 National, 02 State level conferences organized

<ul style="list-style-type: none"> • Submit the proposals for Major and Minor research projects to UGC, DST etc. • Provision of Seed Money for research of faculty and scholars 	<ul style="list-style-type: none"> • 3 minor research project proposals submitted to UGC • An amount of Rs. 3,93,000/- has been provided to students and faculty
Teaching - Learning <ul style="list-style-type: none"> • Use of Smart classroom and new technique for curriculum delivery 	<ul style="list-style-type: none"> • Eight smart classrooms in use.
Other plans <ul style="list-style-type: none"> • To obtain autonomous status. • NAAC visit. • Valedictory of Golden Jubilee year celebrations. 	<ul style="list-style-type: none"> • In progress (UGC committee visit scheduled on 6th & 7th October, 2017) • NAAC Peer Team Visited on 17-19th October, 2016 and the institute secured A⁺ grade with CGPA 3.57. • Waiting for approval from parent institution.

**Academic Calendar Attached (Annexure I)*

2.15 Whether the AQAR was placed in statutory body Yes No

 Management Syndicate Any other body

Provide the details of the action taken AQAR has been approved by the management

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	05	--	05	--
PG	07	--	07	--
UG	18	--	06	--
PG Diploma	--	--	--	--
Advanced Diploma	--	--	--	--
Diploma	--	--	--	--
Certificate	16	32	48	22
Others	02 COC 14(star)		--	14
Total	62	32	66	30

Interdisciplinary	02	--	--	--
Innovative	--	--	--	--

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

(ii) Pattern of programmes:

Pattern	Number of Programmes
Semester	25
Trimester	00
Annual	02

1.3 Feedback from stakeholders* Alumni Parents Employers Students

(On all aspects)

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

***Analysis of the feedback attached (Annexure II)**

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

Yes. Syllabi for newly started under graduate course viz. B Sc. I Food Processing and Packaging has been introduced in the year 2016-17

- Implementation of Semester System as per the rules and regulations of the affiliated University
- The revised syllabus has been uploaded on University website for stakeholders' perusal
- Syllabi for 32 newly introduced short term courses have been designed by the faculty.

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

- Department of Food Processing and Packaging.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Assistant Professors	Associate Professors	Professors	Others
59	14	44	1(Principal)	---

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
149	--					--	--	149	--

2.4 No. of Guest and Visiting faculty and Temporary faculty:

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	48	16	-
Presented papers	13	32	12
Resource Persons	-	06	03

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

- Departments are advised to have introductory classes for first semester students.
- Use of visualizers, smart boards.
- Use of Card Game
- Inclusion of students in the research projects of the faculty.
- Provision of seed money to promote undergraduate and postgraduate research.

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

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

Being an affiliated college, examinations/evaluation (except B.Sc. I) is conducted by University through the Principal as officer in-charge of examination. However, following reforms in conduct of examination and evaluation procedures have been adopted by the college:

- Open Book Test
- Bar coding
- Provision of photocopy if asked by the student.
- Use of machine sewed supplement free answer-book to avoid malpractices.
- Examiners are provided with synoptic answer-key to the question paper prior to the assessment for fair and uniform assessment.
- Provision of question bank to help the students in preparing for the exam.

2.9 No. of faculty members involved in curriculum

Restructuring /revision /syllabus development
as member of Board of Study/Faculty/
Curriculum Development workshop

02

04

20

2.10 Average percentage of attendance of students

86.1%

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.Sc.(Electronics)	32	65.6	18.75	12.5	-	96.85
B.Sc.(Microbiology)	65	30.76	46.16	20	1.5	98.42
B.Sc.(Physics)	55	83.64	10.9	1.81	-	96.36
B.Sc.(Chemistry)	247	65.59	30.36	4.04	-	100
B.Sc.(Mathematics)	105	60	19.05	6.66	-	85.71
B.Sc.(Botany)	32	65.63	28.12	-	-	93.75
B.Sc(Plant Protection)	30	76.67	23.33	-	-	100
Botany(Seed	08	100	-	-	-	100

Technology)						
B.Sc(Zoology)	40	82.7	20.6	6.8	-	86.48
B.Sc.(Fisheries)	10	90.90	-	0	-	100
B.Sc(Statistics)	74	43.24	33.78	22.97	-	100
Computer science	46	50	36.96	8.70	-	95.66
B.Sc(Biotechnology)	71	12.67	39.49	15.49	28.16	95.81
B.C.S.	67	14.92	35.82	32.84	13.43	97
Forensic Science	34	23.53	44.12	17.64	11.76	97.05
Animation Science	21	33.33	33.33	19.05	4.76	90.48
Nanoscience & Technology	11	27.27	45.45	27.27	-	100
M.Sc(Botany)	14	42.86	14.29	-	-	57.14
M.Sc(Zoology)	17	6.2	37.5	56.2	-	71.58
M.Sc(Statistics)	17	35.29	23.53	35.29	-	94.11
M.Sc.(Microbiology)	16	6.25	75	-	-	81.25
M.Sc.(Physics)	16	31.25	12.5	-	-	43.75
M.Sc(Chemistry)	39	35.90	30.77	7.70	-	74.35
M.Sc.(Mathematics)	56	14.29	23.21	1.9	-	39.4

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

- Daily attendance
- Departments are advised to prepare academic calendar as well as teaching plan for the academic session
- Departmental visits to monitor departmental progress.
- IQAC looks into updating of teaching aids and teaching techniques.
- ICT Training workshops for faculty
- Analysis of result and plan of strategies for betterment.
- Principal organizes meetings with HOD and faculty of each Department to address the matter concerning feedback on teachers and curriculum.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	04
UGC – Faculty Improvement Programme	01
HRD programmes	----
Orientation programmes	----
Faculty exchange programme	----
Staff training conducted by the university	01
Staff training conducted by other institutions	---
Summer / Winter schools, Workshops, etc.	02
Others – 1. Post doctoral fellow	01
2. Faculty training for usage of smartboards and ubuntu operating system	193

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	10	07	----	07
Technical Staff	85	-	----	34

Criterion – III

3. Research, Consultancy and Extension

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

Following are the initiatives of the IQAC for promoting research:

- The IQAC has constituted Research Advisory/Monitoring Committee to monitor and promote research.
- Organization of workshops and guests lectures on research methodology, research paper writing and funding agencies.
- Encouragement to students for maximum utilization of CFC facilities.
- Guidance for Avishkar- a research competition.
- Intra-collegiate research project competition
- Motivation of faculty and students to participate and present research papers in conferences and seminars by providing seed capital.
- Provision of seed money to faculty and students for conduction of research.
- Felicitation of teachers for publishing their research work in International/ National Journals.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	02	02	--	--
Outlay in Rs. Lakhs	35,70,000/-	21,90,000/-	--	--

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	02	04	--	07
Outlay in Rs. Lakhs	1,20,000/-	5,27,500	--	-

3.4 Details on research publications

	International	National	Others
Peer Review Journals	39	11	--
Non-Peer Review Journals	--	--	--
e-Journals	--	--	--
Conference proceedings	--	14	--

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned	Received
Major projects	3 Years	UGC	21,90,000/-	16,58,000/-
Minor Projects	2 Years	UGC	1,20,000/-	84,000/-
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College (9 projects)	1 Year	Institutional Seed Capital	2,49,000/-	2,49,000/-
Students research projects (other than compulsory by the University)	1 Year	DBT-STAR College	2,00,000/-	2,00,000/-
Any other(Specify)				
Total				

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

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

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

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

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	01	02	02	01	01
Sponsoring agencies	Parent Institution	UGC-CPE	UGC-CPE	University & College	Self funded

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

3.13 No. of collaborations: International National Any other

3.14 No. of linkages created during this year:

3.15 Total budget for research for current year in lakhs:

From Funding agency From Management of University/College

Total

3.16 No. of patents received this year

Type of Patent	Status	Number
National	Applied	02
	Granted	01
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
03	-	-	-	01	02	-

3.18 No. of faculty from the Institution

who are Ph. D. Guides

and students registered under them

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 SRF Project Fellows

Any other

(Research Fellowship from Institution)

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

- Guppy fish distribution.
- Participation of students and faculty members in plantation programmes.
- Donations to drought affected people of the society.
- Awareness regarding Tuberculosis.
- Workshop on “Learn English Through Fun” for Remand home students
- Organization of NSS Annual Special Camp at the adopted Village, Mahuli.

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	4.06 acres	9700 sq.m	-	
Class rooms	52	02	UGC , College	54
Laboratories	47	09	CPE	56
Seminar Halls	02	--	--	02
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	-	10	DST-FIST	10
Value of the equipment purchased during the year (Rs. in Lakhs)	-	8,73,125/-	-	8,73,125/-
Others (Basket Ball Court, Office for autonomy, student parking shade, canteen)	-	45,60,560/-	-	45,60,560/-

4.2 Computerization of administration and library

- Improvement in Information Resource Centre
- Implementation of Biometrics
- Use of emails, SMS for communication
- An online public access catalogue (OPAC) facility is available in the library for speedy and convenient access.
- N-LIST(National Library& Information Service for scholarly content)
- Wi-Fi communication: Administrative Section is equipped with computers and internet facility with Wi-Fi connection.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	24078	--	--	--	24078	--
Reference Books	30,379	--	368	3,31,712	30,747	--
e-Books	21000	--	1,00,000	--	1,21,000	--
Journals	53	--	01	--	54	--
e-Journals	80000	--	--	--	80000	--

Digital Database	NList	--	N List	--	N-List	--
CD & Video	350	--	0	--	350	--
Others (specify)	--	--	-	--	--	--

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	340	16	10Broad Band	08	01	07	05	29
Added	15	01	02 Leas Line		01		01	
Total	355	17	12	08	02	07	06	29

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

<ul style="list-style-type: none"> • Organisation of Faculty training programmes for use of ICT tools • Training for UBUNTU operating system • Provision of classrooms with smart boards • Provision of visualizers and other ICT facilities for teaching • Computer training workshops for B.Sc. III students • Workshops on Advanced Embedded system and Android Apps

4.6 Amount spent on maintenance in lakhs:

i) ICT	1.2
ii) Campus Infrastructure and facilities	60.56
iii) Equipments	4.23
iv) Others	3.60
Total:	69.59

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Action plan prepared by IQAC is followed by different departments and committees who ensure awareness and implementation of student support services. Following are some of the activities –

- Student's orientation is conducted in the beginning of academic session for newly admitted students to aware about the various Student Support Services available in the institution.
- IQAC also gives such information by publishing on college website, prospectus and YC Times – college magazine.
- Organisation of various competitions
- Organisation of entrepreneurship awareness competition and soft skill development.
- Organisation of campus interviews through placement cell.
- Competitive exam guidance centre trains the students, this year 17 students got selected for various government posts through this centre.

5.2 Efforts made by the institution for tracking the progression

Tracking of progression is achieved through –

- Conduction of mid semester exams, Unit tests, Tutorials
- Students and parents feedback
- Activity Group reports
- Departments to maintain records of the outgoing students.
- YCians - Alumni Association maintains consistent correspondence with alumni.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others	Total
3154	392	91	01	3638

(b) No. of students outside the state:

00

(c) No. of international students:

00

Men	No	%	Women	No	%
	1234	33.91		2404	66.08

Last Year (UG+PG)							This Year (UG+PG)							
General	SC	ST	OBC	NT	Physically Challenged	Total	General	SC	ST	OBC	NT	SBC	Physically Challenged	Total
2027	200	11	529	196	08	2971	2353	272	14	627	245	35	-	3546

Demand ratio 1: 1.65 Dropout: 0.8%

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

- Competitive exam guidance centre is functional.
- NET/SET guidance workshops.
- Entry into services and NET/SET for OBC/SC/ST students.
- Guidance for M.Sc. entrance by department of Chemistry and Botany.

No. of student beneficiaries: 713

5.5 No. of students qualified in these examinations

NET SET/SLET 01 GATE CAT
IAS/IPS etc - State PSC 03 UPSC 02 Others 11

5.6 Details of student counselling and career guidance

- Student counselling is accomplished through –
- Principal's address
 - Parent teachers and experts
 - The HOD and teachers of the respective Departments provide academic guidance & support on a regular basis.
- Career guidance is achieved through –
- Organization of Guest lecturers for career counselling
 - International workshop on abroad research opportunities for students
 - Career oriented courses
 - Competitive exam guidance centre
 - 32 new Skill development programmes started.

No. of students benefitted: 1160

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
08	356	155	Data not available

5.8 Details of gender sensitization programmes

Ladies student welfare committee organised the following activities –

- Competitions like Dramatic monologue, Drawing, Rangoli, Science Poetry, Flower arrangement, Debate, Mehendi, Nailart on September 2016.
- 37 girl and 25 boys participated in youth festival (2016-17).

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

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	47	51,500/-
Financial support from government	989	49,55,738/-
Financial support from other sources	99	69,220/-

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: No grievances

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision:-

To equip students with knowledge and scientific attitude for living in the world of rapid technological change by means of teaching and training in science studies and to sustain the position as one of the most qualitative Institutes imparting science education.

Mission:-

- To provide higher education in science to all and to pay special attention to downtrodden.
- To enhance the knowledge generating capacity of the students in the globalizing environment, delivering superior and sustainable stakeholder values.
- To promote scientific temper among the youths especially from rural areas with a view to enable them awaken the masses intellectually.
- To promote qualitative research.
- To inculcate values like social equality, national integration, feeling of brotherhood and self-help.
- To give special attention to the women empowerment programs.

6.2 Does the Institution has a management Information System

Yes. e-governance.

- Vice-Principal academic and Vice-Principal administration
- H.O.Ds and chairpersons of various activity groups collect and integrate the data regarding curricular and extracurricular activities and submit to office.
- Registrar of college collects and integrates the data regarding administrative aspect.
- Accounts section of college collects and integrates the data regarding financial aspect.

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

6.3.1 Curriculum Development

- Organization of draft syllabus workshops.
- Institute has developed its own curriculum for short term courses.
- Faculty designed syllabi for 32 short term courses.
- Participation of faculty in BOS of affiliated University.

6.3.2 Teaching and Learning

- Faculty training programmes organised by IQAC for use of ICT tools
- Provision of ICT enabled teaching facilities has strengthened the teaching and learning process.
- Maintenance of academic diary
- Students seminars, and research projects
- Study tours and field visits
- Faculty training

6.3.3 Examination and Evaluation

In addition to the examinations recommended by the university, the Institute conducted Mid Term examination and unit tests. This helped the students to prepare for the semester exam. This also helped in the assessment of the students.

6.3.4 Research and Development

- Provision of seed money for research to both students and faculty.
- Financial assistance to students and faculty to present their research work.
- Improvement of facilities in Common Facility Centre

6.3.5 Library, ICT and physical infrastructure / instrumentation

Library –

- Provision of scholar card to meritorious students.
- Orators card facility
- Outside members
- Access to e-journals/ e-books through INFLIBINET/N-List

ICT –

- ICT enabled laboratories and classrooms to each department.
- Physical infrastructure, CFC, which is the common facility centre provides high cost instruments and equipments under one roof.

6.3.6 Human Resource Management

- Non-teaching staff and faculty are given ample scope to perform at their best levels by providing conducive environment.
- Welfare schemes available to take care of the needs of Human resources.
- Performance appraisal through ISO and RQMS
- Lecture observation.
- Evaluation by HOD and Principal.

6.3.7 Faculty and Staff recruitment

Recruitment of faculty and staff is carried out by the parent institute. However, the Institute recommends the names of competent faculty.

6.3.8 Industry Interaction / Collaboration

- MOU with industries.
- Interaction with industries for campus drives.
- Number of activities with industries.
- Organisation of International workshop.

6.3.9 Admission of Students

- Admission process is as per the guidelines of University and the college abides by the rules set by the University and Government.
- Admission committee looks after the admission process.

6.4 Welfare schemes for

Teaching	10
Non teaching	11
Students	02

6.5 Total corpus fund generated: **1.65 Cr.**

6.6 Whether annual financial audit has been done: Yes No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO	Yes	RQMS Parent institute
Administrative	Yes	Accountant General (Administrative officer)	Yes	
	Yes	ISO	Yes	

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?

- University has introduced semester system
- B. Sc I exams are conducted by college.
- University sends question paper online to avoid malpractice.

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

- University has communicated the circulars from Govt. of Maharashtra regarding autonomy to its affiliated colleges.
- College has taken initiative to obtain autonomy, proposal sent to university and Prima face committee of university, state govt. and UGC expert committee visited the college.

6.11 Activities and support from the Alumni Association

- Alumni meet by every department.
- Alumni association actively participates in the programmes and events in the college.
- The association provides financial assistance to needy students.
- It sponsors the Best teacher, best non-teaching staff, best library reader awards to faculty and students.
- It sponsors the rankers and gold medalists in the university examinations.
- Active role of alumni representative in IQAC and Local Management Committee of the institute.

6.12 Activities and support from the Parent – Teacher Association

The parent teacher association is established and 5 meetings held during the year

6.13 Development programmes for support staff

- Organisation of workshop for non teaching staff.

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

- Committee for college beautification.
- Distribution of cleaning areas for maintenance.
- Rainwater harvesting and proper drainage.
- Solar panels generate 46 kw per day.
- Awareness programmes
- Green audit conducted.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during academic year 2015-16 continued and which have created a positive impact on the functioning of the institution. Give details.

Decentralization of administrative work to some extent.

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

The plans made by IQAC at the beginning of the year are followed.

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

**Details provided in annexure (Annexure III)*

7.4 Contribution to environmental awareness / protection

- Campus has rainwater harvesting system, solar energy production, organic waste recycling unit.
- Conservation of RET plants in the college, Botanical garden with nursery.
- Nature club in the institute is engaged in activities related to awareness and protection of environment.
- Lectures and activities as cracker-less Diwali celebration are practised.
- Organization of lectures related to environmental conservation
- NSS and NCC are engaged in plantation and cleanliness drives.

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add or exam (VOT Analysis)

Strengths

➤ Institutional Achievements

- Accreditation at 'A' grade (Score 85.8) in the year 2004 by NAAC
- 'College with Potential for Excellence' status by UGC in the year 2009
- Reaccreditation at 'A' grade (CGPA 3.37) in the year 2010 by NAAC
- Reaccreditation at 'A+' grade (CGPA 3.57) in the year 2016 by NAAC

- ‘College with Potential for Excellence’ status by UGC in the year 2014
- Received grant to avail the Star College status by DBT
- Selection for FIST by DST
- Certified with ISO 9001-2008
- Best College Award from Parent Institution – 2016
- Academic Excellence Award from Shivaji University, Kolhapur.
- Two stages of Autonomous College completed.

➤ **Infrastructure**

- Impressive infrastructure with spacious well ventilated and illuminated classrooms.
- Well equipped separate laboratories for each subject with internet / Wi-Fi connectivity.
- Virtual classroom facility and five digital classrooms equipped with visualiser, smart board podium, LCD and overhead projector, computer and amplifier.
- Acoustically equipped auditorium and seminar hall.
- Completion of Golden Jubilee Building for research laboratories and examination cell.

➤ **Excellent library and learning resources:**

- Library with good collection of books, periodicals, e-books, e-journals.

➤ **Highly qualified faculty with research potential**

A good number of faculty members are with Ph.D. and majority of the faculty members are involved in active research with publications in journal of international repute.

➤ **Trained administrative staff :**

Institute has trained administrative staff who can handle efficiently the administrative and financial matters.

➤ **Green Audit, Water harvesting carried out.**

Weaknesses:

➤ **Inadequate faculty strength**

Almost 50% of total sanctioned posts are vacant at present which are filled with contract teachers as per the state government policy. It affects teaching and research activity.

Opportunities

➤ **Employment opportunity**

- As the place is developing fast with number of industries increasing day by day, students can look forward to better employment opportunities.
- Number of add on and skill oriented courses may help the students for self employment.

➤ **Opportunity to attract female students :**

- Social and religious harmony, peace loving people, disciplined students, safe and healthy environment attracts female students.

➤ **Opportunity to attract good faculty and visiting Professors :**

Institute of high repute, prime location and comfortable weather can attract highly qualified faculty and visiting Professors to share their expertise.

Challenges

➤ **Non availability of FSI**

Non availability of space to construct additional infrastructure.

➤ **Low placement**

Satara does not have large scale industries at the moment which can provide employment to all its educated manpower.

8. Plans of institution for next year – Plan for the year 2017-18

Plan of action

I. Academic :

- Initiation of PG courses in Biotechnology, Electronic Science and Computer Science
- Initiation of UG course – B.Sc. in Facility Services
- Initiation of skill oriented courses in collaboration with local industries.
- Continuation of Short term courses collaboration with Karmaveer Vidya Prabodhini, Rayat Shikshan Sanstha, Satara.

II. Infrastructure

- Establishment of examination cell and board meeting hall for autonomy
- Construction of students hostel
- Beautification of campus.

- Establishment of Farmers Facility Centre (Soil and Water analysis Laboratory)
- Establishment of Office of Information Technology (for academics and administration).

III. Research :

- Enhance collaborative research with Rayat Institute of Research and Development by sharing research recognized laboratories.
- Organisation of International/National Seminars /Conferences/Workshops etc.
- Submit the proposals for Major and Minor research projects to various funding bodies.
- Motivation for involvement of faculty in multidisciplinary research.
- Submission of proposal for Centre of Excellence under RUSA.
- Provision of Seed Money for research of faculty and scholars
- Submission of Proposal under Atal Incubation Centre under NEEti Aayog

IV. Teaching-Learning

- Use of Office of Information Technology (OIT) centre.
- Use of Smart classroom and new technique for curriculum
- Establishment of MoUs with insitutions and agro-industries for student, faculty exchange and collaborative activities.

V. Other :

- To obtain autonomous status.
- Conduction of collaborative activities with educational institutes and industries.
- UGC Expert Committee visit for granting autonomy.
- To start sport festival

Dr. Jaykumar J. Chavan

Signature of the Coordinator, IQAC

Dr. K. G. Kanade

Signature of the Chairperson, IQAC

Academic Calander (2016-17)

June	University Results, Admissions, Result Analysis, Faculty syllabus distribution, Annual planning, Time table for theory & Practical, Principal's address, Common staff meeting, Work allotment for administrative staff, Preparation of General Time table, Laboratory Preparations, Commencement of teaching, Annual meeting of Alumni association, Competitive Exam Guidance Centre: Admission & Planning NAAC Activity meeting, IOAC meeting.
July	Welcome function for B.Sc.I & M.Sc I students, Selection of N.S.S. Volunteers & N.C.C. Cadets, Student Selection for youth festival, Allotment of parent teachers, Planning of staff academy. Felicitation of meritorious students, Conduction of Unit test. LMC meeting, NAAC activity, Golden Jubilee Lecture.
August	Independence day celebration, N.S.S. & N.C.C. activities during Ganesh festival, Planning of students study tours, Preparation of Karmaveer Quiz Competition, Formation of student council, Organization of U.G.C. Seminar, Subject wise internal test, IQAC meeting, Reporting of Internal Exams.
September	Planning study tours, Teacher's Day celebration, Karmaveer Birth Anniversary Celebration. Organization of Competition Activities subject wise internal tests. Golden Jubilee Programme.
October	University Semester Examination, Planning for Karmaveer quiz contest, Academic planning for second term, Work distribution.
November	VACATION
November	General Staff Meeting, Short-term courses, NCC Winter camp, Parent meet, Review of activity group
December	N.S.S rural camp, Meeting of Head of Dept, Student study tour, Organization of Conference, Seminars, workshop etc, Karmaveer quiz contest, University results, Result Analysis.
January	Students study tours, N.S.S Special rural camp, N.C.C 'C' certificate exam, Gymkhana day, Internal exams & reporting, Organization of Conference, Seminars, workshops, Alumni meet.
February	Internal exams, Preliminary Practical exam, syllabus competition, Science day Celebration, University Practical Exams, farewell for B.Sc.III & M.Sc II Students.
March	Syllabus Completion Reports Internal & University Semester exams. IQAC

	Meeting & Review of plan. Students & Parents feedback.
April	Theory & Practical University Semester Exams, Staff Term end meeting Placement Activities, Skill oriented training, NET/ SET Guidance Workshop.
May	University Exams, Assessment, Summer vacation, University Results, Placement activity, PhD .Guidance.

Working Schedule

Academic Work: 200 days

Other Activities: 11 days

Examination Work: 39 days

Total Working: 250 days

Analysis of student Feedback

The student's feedback on Curriculum, infrastructure, teacher was collected from B.Sc. Part III students. The Collected feedbacks were analyzed and following suggestions were taken into consideration:

Infrastructure and facilities:

1. Students expressed the need of hall for cultural activities, sound recording lab and boys hostel
2. Students suggested to change the blackboard
3. More space for canteen and place for lunch.
4. Fast internet facility.
5. Library, recreational and sports facilities are moderate.
6. Parents are satisfied with infrastructure, facilities and services provided by the institute.
7. Students demand for Providing Wi-Fi facility.
8. Students Suggestion regarding water purifier.

Curriculum:

1. Curriculum should be more challenging and as per the needs of industry.
2. New concepts and Skill based units should be introduced in the syllabus.

Other:

1. Discipline
2. More campus drives
3. Organization of workshops and seminars
4. Cleanliness

Feedback on Faculty:

1. Faculty is good and punctual.
2. Faculty should communicate slowly and should spend more time in interaction with students.
3. Extra faculty for some professional courses.
4. Faculty always engaged in use of modern teaching aids.

Best Practices

1. TITLE OF THE PRACTICE:

Development of Research Attitude for Electronics and IT among undergraduate students

2. GOALS:

- To train students in recent technologies of Electronics and IT.
- To prepare students in programming and soft skills for inter institutional competitions.
- To organise state level event that provides platform to represent skills of student.
- To inculcate research attitude in the students.
- To exchange knowledge and technical skills in recent areas of Electronics and IT amongst U.G. students.
- To improve the stage courage, confidence and soft skills of the participants.

3. CONTEXT:

A One Day state level seminar is being organized since year 2010-11 by the department of Electronics and computer science of the institute. Every year students of various educational institutions from different parts of state participate in the seminar. The context in organizing this seminar is to provide platform to students to share and exchange the technical skills amongst them. This seminar is found to be very useful in following manner-

- It improves technical writing skills in the students
- It improves the knowledge of students to site references like research papers in journals and online resources, reference books.
- It improves presentation skills (presenting research paper)
- It improves designing skills (Designing of poster)
- It helps students to compile project in the form of research paper.

4. THE PRACTICE:

The seminar includes four events that check the technical, mental and representation abilities of the participants.

1. Paper Presentation
2. Poster Presentation
3. Online Programming
4. Quiz Competition

- The seminar is beneficial for B.C.S. / B.C.A./ B.B.A . / B.Sc.(Computer Science ,IT, Electronics) under-graduate students.
- The seminar is a unique activity organized in the Educational field that inculcates /imbibes research attitude amongst under-graduate students.
- The seminar is designed considering the students, faculty, researchers from urban as well as rural areas
- Funds are raised by the department, students in ample amount while college supports for funds
- Technocrats from different parts of the state are invited as chief guest and chair person
- Prior to the seminar, One Day Intra-College event is organized.
- Selected candidates participate in the One Day State Level seminar.

5. EVIDENCE OF SUCCESS:

The overall performance of practice in last six year is presented in tabular form which shows the continuous improvement in the number of participants.

YEAR	PARTICIPATED TEAMS	No. of Events
2011-12	53	3
2012-13	76	3
2013-14	68	3
2014-15	115	4
2015-16	122	4
2016-17	144	4

6. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED:

- **Raising funds through sponsorship from industries and society**
The seminar is self funded; hence our faculty and students strive hard to raise the funds from the society and industries. The donors and sponsors are identified and requested to donate for this event.
- **Good publicity of the seminar**
The widespread publicity of the seminar is achieved by dispatching pamphlets and letters to the principal of various colleges. Students of the institute visit neighbouring colleges in the city for campaigning. This proves very useful in publicity.

➤ **Managing the resources for the seminar**

Financial Resources:-Financial resources are raised through sponsorship from industries and society.

Human Resources:-The chair person for various activities is renewed personalities in the field of the Electronics and IT. They are invited through proper channel.

BEST PRACTICE: B

1) Title of the practice: Student support with respect to employability, competitive exam guidance and placement.

2) Objectives of the practice:

This practice has been effectively implemented with the following objectives:

- 1) To acquire the soft skills like communication skills, interview technique and overall personality development, general knowledge required for employability.
- 2) To provide guidance and training for the competitive exams such as UPSC, MPSC and other public services.
- 3) Organization and exposure to the State Level Quiz Competition on general knowledge.
- 4) To provide opportunity for placement through campus interviews by reputed companies.
- 5) Providing linkages to the campus life of students with the realities to be faced by them when they seek employment or opt for further higher studies.

3) The Context:

Student support in the broadest terms is the gamut of all activities that help in the progression of the students in addition to their studies like acquisition of skills for employability, inculcation of values and overall personality development. Many factors contribute to the development of student support services and to the sustenance of their quality.

- Institutional care as expressed in high quality infrastructure, efficient library services, arrangement to spot and nurture talent, mentoring for academic development, placement and counseling.
- The competitiveness of an institution to attract the best students, its status, the socioeconomic, educational and cultural ethos in which the institution operates and the public accreditation it enjoys depend on the effectiveness of such arrangements.

All above factors were taken care while designing the present best practice.

4) The Practice

Career guidance and placement services refer to provision of linkages to the campus life of students with the realities to be faced by them when they seek employment or opt for further higher studies.

College has adopted the best practice in student support with respect to career and placement with following design and practice-

- Various activity groups such as competitive guidance, quiz, vocational guidance, communication skill, placement cell were formulated with senior and trained teachers.
- All the activity groups plan various activities prior to the commencement of the academic year according to the guidelines provided by the college.
- The information regarding all the events undertaken is provided to the students through notices, prospectus, website and advertisements in newspaper.
 - Competitive Exam Guidance Centre: The Centre runs the basic foundation courses on syllabi of MPSC at various levels. A maximum of 200 students are selected through entrance examination for Pre-examinations. There is an intake capacity of 50 for main examination guidance and 140 for physical training and interview technique guidance respectively. Regular lectures of faculty and visiting faculty are conducted daily. Special programmes for physical fitness and mental preparedness are organized regularly. Mock interviews are organized.
 - Quiz Competition: College organizes Padmabhushan Dr. Karmveer Bhaurao Patil State Level Intercollegiate Quiz Competition in association with Karmveer Vidya Prabodhini, Rayat Shikshan Sanstha, Satara. The competition is based on MPSC general knowledge syllabus. Teams from various colleges in Maharashtra are invited. The quiz programme is conducted by the staff and students of the college. Faculty of electronics and computer science has indigenously developed software to capture the quickest response from participants within a fraction of a second. Teachers are trained to prepare the question bank on MPSC syllabus and buzzer round questions on videos and audios. The programme is anchored by the students of the college.
 - Placement Cell: it provides guidance to students for job opportunities, interview, aptitude tests, personality development and group discussions. Career counseling by experts sessions are organized. Campus interviews for third year and PG final year students are arranged.

5) Evidence of Success

- 17 students got selected for various government posts in 2016-17 through Competitive Exam Guidance Centre.
- Each year the participation of teams in the quiz competition has steadily increased. The event is popular and much awaited by the students.
- 155 students got placed in reputed firms through the placement cell in 2016-17.

List of Successful Students

Year	Class-1	Class-II	PSI	STI	Assistant	Clerk	Village Officer	Bank	NET/SET	Others	Total
2010-11	0	0	3	0	0	0	0	0	0	1	4
2011-12	0	0	16	3	2	3	4	0	1	1	30
2012-13	0	0	0	1	0	2	0	2	0	3	8
2013-14	3	0	5	1	0	5	4	0	2	6	26
2014-15	1	3	2	1	0	0	0	2	1	1	11
2015-16	1	0	0	1	3	2	2	2	0	0	11
2016-17	2	3	0	0	0	7	0	0	1	4	17
TOTAL	7	6	26	7	5	19	10	6	5	16	107

6) Problems Encountered and Resources Required:

- Lack of information about these activities or a failure to disseminate information about the benefits of such services to students.
- Lack of networking with industry for placements.
- The quiz competition being much awaited the auditorium space proves inadequate to accommodate the audience.