Yearly Status Report - 2017-2018

Part A	
Data of the Institution	
1. Name of the Institution	**P. T. SARVAJANIK COLLEGE OF SCIENCE**
Name of the head of the Institution	**DR. PRUTHUL RAMESH DESAI**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**02612240028**
Mobile no.	**9426854713**
Registered Email	**pruthuldesai@gmail.com**
Alternate Email	**principal@ptscience.ac.in**
Address	**P T Sarvajanik College of Science, M T B College Campus, Jawaharlal Nehru Marg, Athwalines, Surat**
City/Town	**SURAT**
State/UT	**Gujarat**
Pincode	**395001**

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	state
Name of the IQAC co-ordinator/Director	DR. ANITA BAHADUR
Phone no/Alternate Phone no.	02612240028
Mobile no.	9825454366
Registered Email	anita26p@gmail.com
Alternate Email	principal@ptscience.ac.in

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	http://www.ptscience.ac.in/upload/2016-17.pdf

4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.ptscience.ac.in/upload/term%20schedule_2017-18.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
2	A	3.03	2015	03-Mar-2015	02-Mar-2020

6. Date of Establishment of IQAC	01-Jul-2007

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Science Academies'	18-Dec-2017	27

Refresher Course on Statistical Physics by Prof. Deepak Dhar and others	13	
ecture cum Demonstration of Physics experiments byProf. H. C. Verma, Retd. Prof. IIT, Kanpur	28-Jan-2018 1	700
Conceptual Foundations of Quantum Mechanics by Prof. V. N. Potbhare, Retd. Professor, DOP, M. S. University, Baroda	17-Aug-2018 3	140
Au-some Cosmic explosion & its implication for 21st century Astronomy byProf. A. Gopakumar TIFR, Mumbai	19-Feb-2018 1	98
Carrier Counselling by Mr. Ghanshyam Khatri	03-Feb-2018 1	85
Public Awareness Program on Radio Activity by Mr. A. K. Patra Kakrapar Atomic Power Project, Kakrapar, Gujarat	18-Sep-2017 1	153
Topological Phases of matter by Prof. Sudhir Jain BARC, Mumbai	01-Sep-2017 1	257
Carrier Counselling by Mr. Vivek Patel	22-Jul-2017 1	156
Bridge course Chemistry during summer vacation	16-Jun-2017 7	38
Bridge course in Physics during summer vacation	12-Jun-2017 12	25
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institute	CPE	UGC	2016 1,825	2448000
Faculty	Travel grant	UGC	2017 0	70907
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes

Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	**2**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. Bridge courses were conducted in Physics and Chemistry during summer vacation 2. Special seminars were arranged by the college staff in which the faculty members of the college gave presentations on various topics 3. Special seminar slot was added in the time table in which invited talks, informative and motivational talks and screening of science documentaries and science fiction are arranged

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
To arrange invited talks of renowned scientists/ professors/research scholars etc.	**Physics Department: Prof. Sudhir Jain from BARC, Mumbai was invited to deliver a talk on “Topological Phases of Matter: Nobel Prize in Physics 2016”, We invited Mr. M. V. Parikh and Dr. A. K. Patra from KAPS, Kakrapar to deliver talks on “DAE – Society Benefits” and “Radiation – A Fact of Life”, Prof V N Potbhare, Retd Professor, Department of Physics, M S University, Vadodara was invited to for a lecture series on “Conceptual Foundations of Quantum Mechanics” during 17th August to 19th August, 2017, Renowned Prof. H. C. Verma from IIT, Kanpur was invited on 28th January, 2018. He spared the whole day at the college with two sessions. In the morning, he had a presentation on “Science in India”. In the afternoon session, there was demonstration of**

	experiments indigenously designed by him. Almost 800 students of schools and colleges were benefitted by it, Chemistry Department: Dr. Prem Kaushal, CDFD, Hyderabad delivered a talk on “Nobel Prize in Chemistry in 2017”.
To encourage students to participate in national/state level exam/competition/symposia/seminars/workshops/conventions	Mathematics Department: Annual convention of Gujarat Ganit Mandal at Ganpat University, Mahesna, Students participated state level Prof. A. R. Rao Mathematics Competition, Physics Department: Students participated in “National Competition for Essay Writing in Physics”, organized by IAPT, Students appeared in a National Level Examination, called NGPE, organized by IAPT, Kanpur, Students participated in CPEx – 2018(State Level Final) organized by RC – 7 (Gujarat) of IAPT held in our college. Our students won first prize in UG level.
To take students to educational tours – arranged by individual departments	Zoology Department: Kosmada (Induced breeding), Sarthana Nature’s Park, Wadhvana bird sanctuary (Ta. Dabhoi), Mathematics Department: Annual convention of Gujarat Ganit Mandal held at Ganpat University, Mahesna, Physics Department: Dang district for night sky gazing and Charusat, Changa for a workshop on nano-science and nano-technology, Chemistry Department: Forensic Science Laboratory, Surat and NSS Camp was organized at Kalibel, DANG for one week
It was decided to add a seminar slot in the time table	Executed
To arrange a series of lectures on “Nobel Prize” in different subjects.	Arranged lectures on Nobel prize in Chemistry: by Dr. Prem Kaushal, CDFD, Hyderabad, Physics: by Prof. A Gopakumar, TIFR, Mumbai, Medicine/Physiology: Prof. Sheeba Vasu, JNCASR, Bengaluru
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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
LAC	04-Jan-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No

16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2018**
Date of Submission	**19-Feb-2018**
17. Does the Institution have Management Information System ?	**No**

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Institution has the mechanism for well-planned curriculum delivery and documentation: • As per the present structure of the Veer Narmad South Gujarat University, the curriculum is designed by the committee formed by the Board of Studies of the respective subjects and approved by the Faculty and the Academic Council of the university. • Then the curriculum is forwarded to all the affiliated colleges of the university. • In the beginning of the academic year, all the HODs call upon the meeting of the staff members and discuss the curriculum with them. The papers/topics of the papers are distributed among the staff members as per the specialization and the expertise of the teachers after a fruitful discussion in the meeting. • The teachers conduct the theory classes on the regular basis as per the time table and if required, they engage extra classes also to cover the syllabus. • We have sufficient number of laboratories in the college across the departments. • The students are called for performing experiments in the laboratory during the stipulated time mentioned in the time table. • They are informed to prepare a record book and a graph book to record and maintain their observations. Then they are instructed to prepare journal to record the experiments they have performed and get them signed by the respective teacher. • It is assured that the students perform maximum number of experiments prescribed in the curriculum. • The student's attendance is also recorded, both in the theory classes as well as in the laboratories.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NIL	**NIL**	**12/06/2017**	**0**	**NA**	**NA**

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nill	**NIL**	**12/06/2017**
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BSc	Physics, Chemistry, Mathematics, Botany, Zoology	12/06/2017

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	Nil	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
NIL	12/06/2017	Nill
No file uploaded.		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
MSc	Nuclear Physics	22
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
Feedback from students is taken during the contact hours in informal way by teachers and principal and their suggestions are incorporated. From Teachers, Employers, Alumni and Parents feedback is taken during the meetings with them.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BSc	BSC	420	448	448
MSc	MSC	90	91	91
MPhil	MPHIL	11	11	11
PhD or DPhil	Mathematics, Zoology	6	Nill	6

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2017	1241	173	42	Nill	23

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
29	29	27	14	Nill	Nill
View File of ICT Tools and resources					
View File of E-resources and techniques used					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

• The students are mentored by their respective teachers in different departments and any grievances or issues are addressed by the faculty to help the students from time-to-time. • The teachers carry out counselling in the class also as and when needed. • Sometimes, individual one-to-one counselling is also done when need arises.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1414	42	1:34

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
60	29	31	Nill	23

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2017	NIL	Nill	NIL
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-	Date of declaration of results of semester-

			end examination	end/ year- end examination
MSc	MScBOT001	Sem IV	20/04/2018	09/05/2018
MSc	MScPHY001	Sem IV	20/04/2018	25/05/2018
MSc	MScCHEM001	Sem IV	20/04/2018	23/05/2018
BSc	BSc001	Sem VI	13/04/2018	08/05/2018

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

• It is being done as per VNSGU rules and regulations. • We encourage students to deliver presentation/seminar on the topics of their choice and we consider it as their internal evaluation test.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

• The college is affiliated to the Veer Narmad South Gujarat University, Surat. The academic calendar is prepared by the University and the college follows the same. • In the beginning of the academic year, the HoDs convene a meeting with the respective departmental faculty members. The teaching work for the current semester is allocated to the respective teachers. • The draft plan for the academic year is discussed in the meeting regarding the assignment collection, conduct of internal examinations and their evaluations, practical viva, journal preparation and certification, co-curricular and extra-curricular activities, celebration of National Science Day, invited talks by eminent persons etc. The progress of the matter is monitored by the HoDs time to time and actions are taken accordingly.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://www.ptscience.ac.in/upload/co-po_ptscs.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
BSC001	BSc	Bachelor of Science (Physics, Chemistry, Mathematics, Botany, Zoology)	394	352	89.34
MSC	MSc	Master of Science (Physics, Chemistry, Botany)	81	70	86.42

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

NIL

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	1095	INDIAN SPACE RESEARCH ORGANISATION	1853000	0

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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Conceptual Foundations of Quantum Mechanics	Department of Physics	17/08/2017
Lecture cum Demonstration of Physics experiments	Department of Physics	28/01/2018
“Is Anyone Out There?” by Dr. Pruthul Desai, Principal	Department of Physics2/07/2017	22/07/2017
Career Counselling	Department of Physics	22/07/2017
Topological Phases of Matter by Prof. Sudhir Jain BARC, Mumbai	Department of Physics	01/09/2017
Public Awareness Program on Radio Activity by Mr. A. K. Patra Kakrapar Atomic Power Project, Kakrapar, Gujarat	Department of Physics	18/09/2017
Milestones in The History of Optics by Prof. V. H. Thakkar, Asso. Prof.	Department of Physics	28/09/2017
What First: Theory or Experiment? by Prof. V. H. Thakkar, Asso. Prof.	Department of Physics	31/01/2018
Gravitational Waves: New window on the Universe by Dr. Pruthul Desai, Principal	Department of Physics	03/02/2018
Carrier Counselling by Mr. Ghanshyam Khatri	Department of Physics	03/02/2018
Au-some Cosmic explosion its implication for 21st century Astronomy by Prof. A. Gopakumar TIFR,	Department of Physics	19/02/2018

Mumbai		
A Public Speaking Contest	Sir P. T. Sarvajanik College of Science	
Inter-College Elocution Competition	Sir P. T. Sarvajanik College of Science	
College Level Essay Writing Competition	Sir P. T. Sarvajanik College of Science	
College Level Elocution Competition	Sir P. T. Sarvajanik College of Science	

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NIL	NIL	NIL	12/06/2017	NIL
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	12/06/2017
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
NIL	Nill

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Chemistry	1	0.75
International	Zoology	2	0.0
National	Zoology	2	3.66
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Mathematics	2
Physics	2
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the	Name of	Title of journal	Year of	Citation Index	Institutional	Number of

Paper	Author		publication		affiliation as mentioned in the publication	citations excluding self citation
Monoazo styryl Quinazolinone Reactive dyes: Their synthesis, application and DFT calculation	Dr. Bhavesh M. Patel	Proceedings of the national academy of science, India, Section A	2017	0	Sir P T Sarvajanik College of Science, Surat	1
Glucose triggered enhanced solubilization, release and cytotoxicity of poorly water soluble anti cancer drug from T 1307 micelles	P. Patiddar and Anita Bahadur	Journal of biotechnology	2017	14	Sir P T Sarvajanik College of Science, Surat	7
Systematic characterization of pluronic micelles and their application for solubilisation and in vitro release of hydrophobic anticancer drugs	Anita Bahadur	Journal of Molecular liquids	2017	39	Sir P T Sarvajanik College of Science, Surat	35
Comparison of total protein content in the muscles of Catla catla on exposure	Ankita Patel Anita Bahadur	Res Rev: A Journal of life science	2017	0	Sir P T Sarvajanik College of Science, Surat	Nill

to Ag and ZnO nano particles and their metal ions						
Variation in activity of lipase immobilized on Chitosan and alginate nano particles by changing concentration of the preparatory agents.	Heena Devnani Anita Bahadur	Res Rev: A Journal of life science	2017	0	Sir P T Sarvajanik College of Science, Surat	Nill

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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
NIL	NIL	NIL	Nill	Nill	Nill	0

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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nill	4	18	3
Presented papers	Nill	2	Nill	Nill

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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Meeting of our college campus ambassadors with deputy collector at Jilla Seva Sadan.	Collector Office, Surat	3	2
Paricipation in	NSS unit	3	7

organizing Thalesemia Test for sem-1 students			
Orientation Programme for new volunters from F Y B Sc NSS Day celebration	NSS unit	3	119
Programme Sankalp se Sidhdhi’ at Gandhi Smruti Bhavan	NSS unit	3	261
Flag hosting and Swachhata Abhiyan	NSS unit	3	15
YOGA- MEDITATION Programme	NSS unit SIR P. T. SARVAJANIK COLLEGE OF SCIENCE Lakulish Yog University	3	18
WORLD PREVENTIVE HEALTH CARE DAY	NSS unit	3	191
BREAST FEEDING WEEK celebration	NSS unit SIR P. T. SARVAJANIK COLLEGE OF SCIENCE Sheth P.T.Mahila College of Arts and Home Science	3	174
Participated in FEMICON conference at V.N.S.G.U.,	Damini Organisation	3	9
TREE PLANTATION in Botanical Garden	NSS unit	3	115
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NIL	NIL	NIL	Nill
No file uploaded.			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
NSS	Sir P T Sarvajanik College of Science, Surat	Lecture on “Urban Horticulture”	3	155
NSS	Sir P T Sarvajanik	Yoga-Meditation	3	56

	College of Science, Surat			
NSS	Sir P T Sarvajanik College of Science, Surat	“No Tobacco” campaign	3	119
NSS	Sir P T Sarvajanik College of Science, Surat	Swachhata abhiyaan	3	67
NSS	Sir P T Sarvajanik College of Science, Surat	World PHD gratitude ceremony	Nill	5
NSS	Sir P T Sarvajanik College of Science, Surat	Swachha Surat abhiyaan.	3	180
NSS	Sir P T Sarvajanik College of Science, Surat	Thalassemia camp	3	22
NSS	Sir P T Sarvajanik College of Science, Surat	NSS camp (07 days)	3	40
NSS	Sir P T Sarvajanik College of Science, Surat	Femicon conference for girls	2	11
NSS	Sir P T Sarvajanik College of Science, Surat	Breast feeding awareness program for girls	2	255

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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
NIL	NIL	NIL	0

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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant

Academia-Research lab collaboration	Project work	KAPS, Kakarapar	08/09/2017	08/09/2017	M Sc (Nuclear Physics) students
Academia-Research lab collaboration	Project work	KAPS, Kakarapar	28/09/2017	28/09/2017	M Sc (Nuclear Physics) students
Academia-Research lab collaboration	Project work	KAPS, Kakarapar	29/09/2017	29/09/2017	M Sc (Nuclear Physics) students
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
NIL	12/06/2017	NIL	Nill
No file uploaded.			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
11.5	39.29

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SOUL	Partially	2.0	2006

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total

Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill
Others(specify)	126	Nill	Nill	Nill	126	Nill
Text Books	2003	209838	150	17440	2153	227278
Reference Books	10190	2718251	143	66300	10333	2784551
e-Books	1002	Nill	Nill	Nill	1002	Nill
Journals	242	411043	23	55505	265	466548
e-Journals	Nill	Nill	Nill	Nill	Nill	Nill
Digital Database	Nill	Nill	Nill	Nill	Nill	Nill
CD & Video	11	60	Nill	Nill	11	60

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	12/06/2017

No file uploaded.

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	40	1	8	7	0	1	7	50	0
Added	21	0	1	0	0	0	0	0	0
Total	61	1	9	7	0	1	7	50	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

50 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NIL	Nill

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
0.52	5.66	8.91	22.35

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

• The college is very conscious as far as the maintenance of the infrastructure and updating the other facilities are concerned. • The maintenance of infrastructure involves repair work of college building, plumbing work, electrical work, furniture repairs etc. The Sarvajanik Education Society (SES) has a well-established Estate department which takes care of all maintenance work. • Routine cleaning of the laboratory, library, sports complex, classrooms etc. is done by the departmental peons of the college. • As for the cleaning of campus and campus facilities, an AMC has been given to a professional housekeeping agency and cleaning is done by the trained staff of the agency on day-to-day basis. • AMCs are in place with different professional agencies for the maintenance of on-campus computers, laptops, printers, projectors, air-conditioners, CCTV camera system, drinking water utility system and other such electronic devices appliances. This ensures that the computers and other essential utilities have a minimum downtime. • The support facilities like replenishing of consumables like laser printer toners, photocopying machine toners, laboratory chemicals, stationary items etc. are also made available through pre- authorised vendors. • The college boasts of a vast green cover of trees and lawns. This also means that the areas under green cover will have a lot of leaves and twigs falling from trees and shrubs. The housekeeping agency maintains the campus clean. • The college has outsourced the maintenance of the garden and green cover elements to a horticulture agency. They regularly water, trim and maintain the gardens, potted plants, trees etc. • The library has an OPAC software, and is RFID enabled. As far as the laboratories are concerned, the laboratory assistants and the laboratory in-charge are responsible for the upkeep of the equipment. The stock register of equipment of different laboratories is maintained. Our college has large playground and a pavilion for outdoor and indoor sports activities respectively. Maintenance of all sports facilities is looked after by the Assistant Professor in Physical Education and a peon dedicated to this task. • The college has an on-campus health centre which is looked after by a full-time doctor and a compounder.

https://www.ptscience.ac.in/upload/aqar/procedure%20%26%20policies.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Scholarship from Management/ Alumini	67	184491
Financial Support from Other Sources			
a) National	Financial support from goverment	462	0
b)International	NIL	Nill	0

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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Bridge course Chemistry	16/06/2017	38	Sir P T Sarvajanik College of Science, Surat
Course on Conceptual Foundations in Physics (Bridge Course)	12/06/2017	25	Sir P T Sarvajanik College of Science, Surat

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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2017	JAM EXAM	42	200	13	Nill

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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nill	Nill	Nill

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Envision Scientific Pvt. Ltd.	16	9	NIL	Nill	Nill

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2018	1	BSc	BOTANY	Dept. of Bioscience, VNSGU, Surat	B. Ed.
2018	4	BSc	CHEMISTRY	B.M.College	B. Ed.

				of Science & Tech, Bharthana, Surat, Shree Sarvodaya Shikshan Mandalk B. Ed. College, Surat, Shri. S. R. Patel B. Ed. College, Anita, Kim, Swaminarayan B. Ed. College, Ankleshwewar	
2018	13	BSc	MATHEMATICS	Bhagwan Mahaveer College of Edu., Surat, Registrar, VNSGU, Surat, Shree Sarvodaya Shikshan Mandal B. Ed. College, Surat, Swami narayan, B. Ed. College, Ankleshwewar	B. Ed.
2018	11	BSc	PHYSICS	Dept. of Physics, VNSGU, Surat	B. Ed.
2018	2	BSc	ZOOLOGY	Bhagwan Mahaveer College of Edu. Surat , Vivekanand Colloege for B. Ed. Surat	B. Ed.
2018	1	BSc	MATHEMATICS	V. T. Choksi Sarvajanik Law College, Surat	Law
2018	54	BSc	CHEMISTRY	B.M.College of Science & Tech, Bharthana, Surat, Department of Chemistry,	M. Sc.

				VNSGU, Surat, Registrar, VNSGU, Surat, Jay Jalaaram Talimi Saatak Mahavidhtyalaya, Thava, Di-Bharuch, Navyug Science College, Surat, Shree Narmada College of Mangrol, Surat	
2018	60	BSc	MATHEMATICS	Department of Mathematics, VNSGU, Surat, Jilla shikshan and Talim Bhavan, Navsari, Registrar, VNSGU, Surat	M. Sc.
2018	38	BSc	PHYSICS	Department of Physics, VNSGU, Surat, Registrar, VNSGU, Surat	M. Sc.
2018	11	BSc	ZOOLOGY	Dept. of Bio-science VNSGU, Surat, Registrar, VNSGU, Surat	M. Sc.

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	3
SLET	7
Any Other	1
Any Other	2

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Volleyball (Women)	West Zone Inter University	2
Volleyball (Women)	VNSGU, Surat Inter College	12
Taekwondo (Women)	Canada Open Taekwondo Championship 2017-18	1
Taekwondo (Women)	Commonwealth Taekwondo Association Championship	1
Taekwondo (Women)	Senior State Taekwondo Championship	1
Taekwondo (Women)	All India Inter University	1
Taekwondo (Women)	VNSGU, Surat Inter College	1
Cross Country (Men)	VNSGU, Surat Inter College	9
Chess (Women)	West Zone Inter University	1
Chess (Women)	VNSGU, Surat Inter College	6
View File		

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Bronze Medal (Trio)	National	1	Nill	PM51	Kosambia Meet Pareshbhai
View File						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

• A student’s council is a platform for the students to experience and practice healthy democratic policies. The college believes in and encourages the active participation of students in various academic curricular, extracurricular and other day to day activities. The students are thus groomed for leadership qualities, team work, event organizing skills and facing unforeseen challenges and overcoming them. • The University has set some norms for the formation of the student’s council and requires that the council be headed by the Principal of the college. The various committees are chaired by a senior faculty member and comprises of faculty members too. • The General Secretary and the other elected student members are part of these committees. The students other than elected students are also co-opted as team members. This is usually done in cases of sports and cultural activity like cases. This ensures that students who excel in such activities are able to give their valuable inputs and aid in smooth planning and execution of events. Such diversified student’s union creates an atmosphere of harmony, vitality and synchronization in the routine

management of the college. • The fund for the students' union comes from the semester fees collected by the Institute. • The members of student's council actively take the leadership in organizing various events like Elocution competition, youth festival, sports events, blood donation camp, tree plantation, community services, college's annual day, quiz competition and many more activities. • Various days like environment day, blood donation day, food nutrition day, no vehicle day etc. are celebrated under the aegis of student's council. • As a part of NSS and NCC activities students visit the nearby villages, are doing various activities to solve their problems, arrange programs on traffic rules awareness etc. In flood-like situation, students take initiative to help affected people by collecting food, clothes etc. from nearby localities and providing it to the affected people. • The various departments too have subject related clubs such as Mathematics Club, Physics Club, Chemistry Club, Eco Club etc. Some students who are found to have the leadership potential are given the responsibility of organising and conducting activities throughout the year. Thus, the students not only actively get an opportunity for active participation in the academic activities through the clubs but simultaneously they are able to develop leadership qualities in them.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

793

5.4.3 – Alumni contribution during the year (in Rupees) :

128790

5.4.4 – Meetings/activities organized by Alumni Association :

4 Meetings were conducted.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

In order to manage and ensure the smooth functioning of its constituent institutes, the SES has formed a unique two-tier system. The first tier is at the level of the overall administration of the college. The LAC – Local Administrative Committee, as it is named, looks after various affairs of the institute for which that committee has been framed. The LAC is headed by a chairman appointed by the SES. The Principal of the college is the ex-officio member of the committee. The other members of the committee, nominated by the SES include - a few ex-principals of the college, a representative from the alumni, some members from the industry, a representative each from teaching faculty and non-teaching faculty of the college. The LAC meets at least once in a term (twice a year) to discuss and finalize various affairs of the college for the academic year. It includes the financial matters, such as purchase of the books, equipment and instruments, giving AMCs for various purposes, appointing the required ad hoc staff – both teaching and non-teaching etc. Many institutes, in the country, suffer due to financial bottlenecking and lack of financial freedom. But in our case, we are fortunate that the LAC aids in the smooth fund flow and glitch free availability of funds as and when necessary. The LAC is a bridge between the SES and the college. It also acts as a buffer

and is often looked upon as an intermediary to resolve any issues faced by the staff members. Another tier of decentralization is at the departmental level. This is a case of operational autonomy via a shared collective responsibility. In the beginning of the term, the HODs are informed to prepare a list of the requirements for their respective departments that includes books, equipment, instruments, ad hoc staff in both teaching and non-teaching fields and any other infrastructural/academic facility to be augmented in the department. The HODs consult the teaching and the non-teaching staff members of the department whence, after deliberation, on receiving feedback from them finalizes the proposal which can be put forward in the LAC. This financial decentralization by way of participative management is indeed one of the outstanding features of our college and a classic example of healthy management and institute relationship.

6.1.2 – Does the institution have a Management Information System (MIS)?

No

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	Admissions are conducted as per the university norms and government orders., Strict transparency and admission rules are adhered to by the college.
Human Resource Management	Teachers are given additional charges for various extra-curricular and co-curricular activities such as NSS – Dr J M Patel and Dr Hetal Gajjar NCC- Dr Dhiraj B Shah
Library, ICT and Physical Infrastructure / Instrumentation	New course based books purchased in good numbers
Research and Development	Teachers are encouraged to pursue research and attend conferences
Examination and Evaluation	Regular tests and internal examinations (both theory and practical) are conducted as per the instruction of the university
Teaching and Learning	ICT enabled teaching
Curriculum Development	Curriculum is prepared by the university in a meeting with board

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Nill	NIL

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support

2017	NIL	NIL	NIL	Nill

No file uploaded.

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2017	NIL	NIL	Nill	Nill	Nill	Nill

No file uploaded.

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Refresher Course	2	18/12/2017	29/12/2017	13
Teachers Training Program	1	30/08/2017	31/08/2017	2
Teachers Training Program	1	01/05/2017	06/05/2017	6
Refresher Course	1	29/05/2017	18/06/2017	21
Orientation	1	23/10/2017	19/11/2017	28
Teachers Training Program	2	18/08/2017	24/08/2017	7
Teachers Training Program	1	27/11/2017	24/02/2018	90

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nill	Nill	Nill	Nill

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Cooperative society, Health Centre, Canteen	Cooperative society, Health Centre, Canteen	Health Centre, Canteen

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

• One of the main pillars of sustaining an institution is finance. The inflow and outflow of finance and its proper management is crucial to the smooth running of the institution's steam engine. • The college has computerised its financial accounting and uses Tally software for the management of financial resources. The SES also carries out financial audit regularly and external audits are also done. • The annual Government audit is also carried out.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Indian Academies of Sciences	**615000**	**Refresher Course**
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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	**Yes**	**GoG**	**No**	**NIL**
Administrative	**Yes**	**GOG**	**Yes**	**CA**

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

NIL

6.5.3 – Development programmes for support staff (at least three)

NIL

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. M. Sc. course in Physics was started with specialization in Nuclear Physics in the year 2016. 2. The efforts to digitize the records of the office and to computerize its routine functioning were initiated. 3. Online fee collection was started for the students. 4. It was resolved to put forward the proposal to the UGC seeking Autonomous status for the college. 5. Establishment of bicycle club.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	**Yes**
b)Participation in NIRF	**No**
c)ISO certification	**No**
d)NBA or any other quality audit	**No**

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2017	**· Bridge course in**	**12/06/2017**	**12/06/2017**	**24/06/2017**	**25**

	Physics during summer vacation				
2017	Conceptual Foundations of Quantum Mechanics by Prof. V. N. Potbhare, Retd. Professor, DOP, M. S. University, Baroda	17/08/2017	17/08/2017	19/08/2017	140

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
NIL	Nill	Nill	Nill	Nill

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
Solar streetlights have been installed in the campus.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Ramp/Rails	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2017	1	1	19/11/2017	1	Conducting exam for bailiff candidates by the High Court of Gujarat	Exam was conducted	320

2017	1	1	21/05/2018	1	Conducting JEE (Advanced) 2017	Exam was conducted	285

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Nil	12/06/2017	All the teachers and the non-teaching of the college are governed by the service conditions laid down by the affiliating University.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Swachhta Pakhvada	01/12/2017	15/12/2017	86
Tree plantation in botanical garden	06/07/2017	06/07/2017	115
Flag hoisting and swachchhata abhiyan	15/08/2017	15/08/2017	18

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Bicycle club has been established in the college. Some donors, our alumni and well-wishers have donated bicycles to the college. These bicycles are issued to the students at a nominal rate with the condition that they would come to the college on the bicycle every day and use them on a regular basis. The Principal and some staff members of the college too commute at times on a bicycle. This small gesture by the college helps prevent consuming fossil fuels generating carbon waste. It’s a small contribution by the college towards eco-friendliness and reducing our carbon footprint. 2. The college has implemented Rain Water Harvesting System. The rain water falling on the rooftop of the college building is channeled to an underground storage facility. The water stored during the rainy season is used by the Chemistry laboratory throughout the year as a source of distilled water for preparing various chemical solutions. 3. The rain water falling on open areas is often wasted. The college has implemented ground water recharging facility by diverting the running off water to an earmarked area. Here the runoff water is percolated into the ground for recharging the borewell. 4. The students are motivated to avoid using plastics in the campus. In order to do so, “plastic-free campus drive” was called upon by the volunteers of NSS and NCC. 5. An Eco club is established in the college. The students participate in the activities of the club and are made aware of environment, global warming and spread consciousness to take care of our environment. This inculcates a sense of responsibility and sensitivity towards the ecology and environment amongst them. Shri Pareshbhai Randeria, Deputy Garden Superintendent, Surat Municipal Corporation, was invited to deliver a talk on “Urban Horticulture” on 8th July, 2017 under the banner of the club. 6. Tree plantation drive was undertaken under NSS and the volunteers planted 50 trees in the botanical garden space in the college campus. The participating students were explained on how to care and look after the saplings on a regular basis.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Bridge courses are conducted during summer vacation in various subjects. 2. Nobel Lecture series is conducted and invited talks are arranged.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://www.ptscience.ac.in/upload/ptscs%20best%20practices%202017-2018.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Our vision statement reads: To promote experimental scientific pursuit and to provide conducive environment to students, to develop aptitude and to sharpen skills of students to meet the challenges of rapidly changing world and to instil a spirit of camaraderie amongst students and sensitize them regarding their role and duty towards nation building. With huge impressive infrastructure, well-equipped laboratories, lush green campus and conducive environment we strive hard to mould our students to achieve academic excellence and be role models for the society. During the last two decades, the world has changed like never before, thanks to the technological advancements, computer technology, artificial intelligence and what not. In this ever changing scenario, we strive hard to bridge the gap between what is taught and the progress of science is widening day-by-day. We have introduced some novel concepts in this regard in our academic calendar. It includes providing platforms to the students to interact with the best brains of our nation by having Nobel Lecture Series and invited tlaks, tours to the places of academic and industrial interest, organizing different competitions for the students, motivating them to actively involve themselves in the NCC, NSS and PT activities. The outcome of all this is that the students become quite competent when they are ready to enter real world of challenges. The regular activities of NCC, NSS and PT under the guidance of program officers and teachers inculcate in them the sense of responsibilities towards the community, society and the Nation.

Provide the weblink of the institution

https://www.ptscience.ac.in/upload/the%20performance%20of%20the%20institution%20in%20one%20area%20distinctive%20to%20its%20vision%2C%20priority%20and%20thrust.pdf

8.Future Plans of Actions for Next Academic Year

1. To arrange seminar/workshop by students on different themes: It is resolved to continue to invite eminent persons from the premier institutes of our country to deliver talks or give seminars across the topics of science. 2. To arrange a series of lectures on “Nobel Prize” in different subjects: A unique feature of our college to arrange a lecture series on “Nobel Prize” every year should be continued. 3. To take students to educational tours: The departments should continue to arrange educational tours for the students. 4. To encourage students to participate in national/state level exam/ competition/symposia/seminars/workshops/conventions: Various exams and competitions are held at National/State/Local level and we motivate our students to participate in them. They not only participate in such exams and competitions, but some of them get rank certificates and prizes also. The students are also motivated to actively engage themselves in symposia/seminars/workshops/ conventions etc. at various levels.