



Yearly Status Report - 2019-2020

Part A

Data of the Institution

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 Sarvajanic 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	Viresh H Thakkar
Phone no/Alternate Phone no.	02612240028
Mobile no.	9426120840
Registered Email	vireshhthakkar@gmail.com
Alternate Email	vht@ptscience.ac.in

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://www.ptscience.ac.in/upload/aqar/aqar_2018-19.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/academic%20calendr%202019-20.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
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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
To encourage and prepare	19-Jan-2020	18

students to participate in National level Examinations	1	
To arrange educational tours	05-Jan-2020 1	20
To arrange Nobel Lecture series	08-Jan-2020 1	70
To arrange Nobel Lecture series	03-Jan-2020 1	155
To arrange Nobel Lecture series	02-Aug-2019 1	120
To have invited talks	28-Jan-2020 1	130
To have invited talks	30-Aug-2019 1	130
To have invited talks	17-Dec-2019 1	150
To have invited talks	24-Sep-2019 1	55
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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
College	CPE	UGC	2016 1827	150
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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 :	5
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)

- Invited Talks
- Nobel Lecture Series
- Taking students to academic tours
- To encourage students to participate in various competitions and exams

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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 initiate a new activity in the college, arrange lecture series on "Stalwarts of Indian Science"	Prof. K. N. Joshipura, Retd. Prof., Department of Physics, S. P. University, V. V. Nagar was invited to deliver the first talk of the series that was on Dr. Vikram Sarabhai to commemorate his Birth Centenary. It was titled Dr. Vikram Sarabhai, a Visionary Scientist Highlights of Chandrayan2.
To arrange a series of lectures on "Nobel Prize" in different subjects	Arranged lectures in 1. Chemistry: by Prof. Raghuram Chetty, IIT, Chennai. 2. Physics: by Prof. Raghavan Rangarajan, Dean of Undergraduate College, AU, Rangarajan "Physical cosmology and exoplanets. 3. Medicine/Physiology: by Dr. Dipak Saini, IISc, Bangalore.
To arrange invited talks	Dr. C. M. Nautiyal, INSA, New Delhi was invited to deliver a talk on "Interdependence of Science Technology" on 24/09/2019 in collaboration with SCET, Surat. • Dr. Mehul Pandya, Scientist, ISRO (SAC), Ahmedabad was invited to deliver a talk on Indian Space Programme. • Dr. J. K. Patel, Head, Department of Mathematics, Navyug Science College, Surat was invited to deliver a talk on "Continued fractions". • Ms. Mansi Shah, Ad hoc Lecturer, Department of Mathematics, VNSGU, Surat was invited to deliver a talk on "Math behind Google".
A seminar slot was added in the timetable	Executed
To take students to educational/study tours	Students were taken to Marine National Park, Bet Dwarka by the Department of Zoology.
To encourage students to participate in national/state level exam/competition/symposia/seminars/workshops/conventions	Mathematics Department: • Students participated in the state level Madhava Mathematics Competition and state level Prof. A. R. Rao Mathematics Competition. • "Inter-college power point presentation competition" held at our college. • A "Poster making

competition" was organized on "Life and Work of Ramanujam". Physics Department:

- 11 students participated in "Inter-college power point presentation competition" held at our college.
- 8 teams of the students participated in "Inter-college Quiz competition" held at our college.
- 25 students participated in "Inter-college Essay Writing Competition" held at our college.
- College level elocution competition was held in which 15 students participated.
- College level ppt competition was held in which 12 students participated.
- College level Quiz competition was held in which 18 students participated.
- 11 students participated in "Inter-college poster making competition" held at our college.
- Students appeared in a National Level Examination, called NGPE, organized by IAPT, Kanpur.
- Students participated in CPEX - 2019 organized by RC - 7 (Gujarat) of IAPT.

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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name of Statutory Body</th> <th style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">LAC</td> <td style="text-align: center;">27-Jan-2021</td> </tr> </tbody> </table>	Name of Statutory Body	Meeting Date	LAC	27-Jan-2021	
Name of Statutory Body	Meeting Date				
LAC	27-Jan-2021				
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	2020				
Date of Submission	29-Jan-2020				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Institutional Management Information System P T Information Management System (PTIMS) - A brief overview (http://ptims.netfas.com/Admin/login.aspx)</p> <p>The college management realised quite early the benefits of moving towards digitization and use of information</p>				

technology in college administration. It was also felt that a readymade software solution would not be sufficient for the specific requirements as an educational institute. What was required was a solution where changes could be brought about without involving external agencies every time. It was in this context that a customized cloudbased information management system was implemented. We knew we may not get the solution 'right the first time' and that this is a process that evolves over time and needs constant nudging (editing in IT language). With years gone by the results are showing and the P T Information Management System (PTIMS) has now become an integral part of the institute. We now have an almost paperless administrative office and the use of paper printing is resorted to in cases where paperwork is mandatory. The PTIMS equally caters to the needs of students, faculty members and the other staff. It manages student attendance, admission procedures, student enrolment and fees collection procedure. It is a comprehensive ERP software solution that eliminates the trouble of carrying out administrative and academic activities, which were previously done manually. It has eliminated the need of doing repetitive tasks and managing paperbased files to help create a paperless work environment in the college. It comprises of multiple modules and sub modules that help execute different activities of the institute with ease. Benefits of P T Information Management System Software

The PTIMS software streamlines all academic and nonacademic activities of the institution, thus providing umpteen benefits to the management, administration, teachers and students. Since its implementation the benefits have far overcome the pain of the initial stages of installation. Some highlights are given below:

1. **Productivity:** The PTIMS software is time saving as it reduces manual work and facilitates a smooth flow of academic and nonacademic activities.
2. **Accessibility:** The institute has subscribed to a payment gateway for receiving fees online. This has helped the parents and students to pay the

fees remotely and in turn reduced the long wait and queues formed at the college office. 3. Data Security: It reduces endless paperwork as well as reducing the need for paper storage. The data can be updated within seconds and it is stored on the cloud in encrypted format. 4. Easier Communication: It makes it possible to circulate information among teachers, students and staff in a faster manner. 5. Customised Reports: It is possible to generate customisable reports for the administrative and teaching staff. The latest addition has been to provide an application on mobile phones for students and teachers so that they can access the college data as and when necessary and that too from anywhere in the world. In conclusion the PTIMS software has been a boon for our institute because of its versatility, security and high quality performance at every level.

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

• 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
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	NIL	12/06/2019
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
Nil	NIL	12/06/2019

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	12/06/2019	Nil
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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	A five-day project work	19
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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 an 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
MSc	Chemistry	30	Nil	39
BSc	BSc	450	9487	424

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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
2019	1236	177	23	Nil	17

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	Number of smart classrooms	E-resources and techniques used
26	26	27	14	Nil	Nil

[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
1413	40	1 : 35

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	26	34	2	21

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
2019	Dr. Arun Dholakia	Associate Professor	Sarvajanic Shikshan Ratna (Best Teacher) Award by SES

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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-end examination	Date of declaration of results of semester-end/ year- end examination
BSc	BSc	II, IV, VI	28/09/2020	10/11/2020
MSc	MSc	IV	10/09/2020	25/11/2020

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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
BSc	BSc	Physics, Chemistry, Mathematics, Botany, Zoology	400	382	95.50%
MSc	MSc	Physics, Chemistry, Botany	74	63	85.14%

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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	ISRO	18.53	6.02

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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
IPR and Patent	Chemistry	21/01/2020

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	12/06/2019	NIL

No file uploaded.

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	Nil

No file uploaded.

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
Zoology	1

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)
International	Mathematics	1	6
International	Zoology	7	0

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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
Zoology	4
Mathematics	1
View File	

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 Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Micellar characteristics of an amphiphilic star-block copolymer in DES-water mixture	Pooja Patidar, Anita Bahadur	Colloid and Polymer Science	2020	1.61	P T Sarvajani College of Science, Surat	2
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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	Nil	Nil	Nil	NIL
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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	8	18	5	12
View File				

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
Clothes Collection Distribution at Kalibell Village	NSS unit PTSCS	3	40
National Yoga Day Celebration	NSS unit PTSCS	3	15
Breast Feeding	NSS unit PTSCS	2	350

Awareness Programme			
Participated in Femicon Conference	Damini Organisation	1	40
Beti Bachao, Beti Padhao - awareness rally	NSS unit PTSCS	3	34
View File			

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	Nil
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 activities	Number of students participated in such activities
Seminar	DEO Shri R. R. Borad and Bhaveshbhai Italiya	Seminar on Matdaar Yadi Sudharna Program	Nil	2
Video conference	Collector, Surat	Video conference on "EVP"	Nil	1
"Fit India" movement	VNSGU, NSS unit	Cycle rally	Nil	5
National voters' day celebration	Collector, Surat	Campus ambassadors' awards at Science city	Nil	2
Social awareness	NSS unit PTSCS	Social awareness about safety measures for Corona pandemic	Nil	24
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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
No file uploaded.			

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/	Duration From	Duration To	Participant

		industry /research lab with contact details			
Academia-Research lab collaboration	Project work	KAPS, Kakrapar and SVNIT, Surat	17/02/2020	21/02/2020	19
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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	Nil	NIL	Nil
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
3.76	20.74

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with Wi-Fi OR LAN	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 partially)	Version	Year of automation
SOUL 2.0	Fully	2.0	2006

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	2433	248838	200	21560	2633	270398
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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	12/06/2019
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	70	1	8	2	1	1	5	600	0
Added	26	0	0	0	0	0	0	0	0
Total	96	1	8	2	1	1	5	600	0

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

600 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	Nil

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 incurred on maintenance of physical facilities
0.25	9.32	14.11	23.5

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 Sarvajanic 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	P T Sarvajani College of Science Alumni Association	97	312000
Financial Support from Other Sources			
a) National	NATIONAL SCHOLARSHIP SCHEME PORTAL	19	Nil
b) International	NIL	Nil	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 implementation	Number of students enrolled	Agencies involved
Course on Conceptual Foundations in Physics (Bridge Course)	12/06/2020	43	P T Sarvajani 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 passed in the comp. exam	Number of students placed
2019	JAM exam preparation classes (by Department of Physics)	30	Nil	2	2

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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		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
NIL	Nill	Nill	L T Ltd., Surat	234	Nill

[View File](#)

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	7	B. Sc.	Zoology	Department of Biosciences, Veer Narmad South Gujarat University, Surat	M. Sc.
2020	32	B. Sc.	Physics	INDIAN INSTITUTE OF TECHNOLOGY, MANDI, HP	M. Sc.
2020	49	B. Sc.	Mathematics	Department of Mathematics, Veer Narmad South Gujarat University, Surat	M. Sc.
2020	26	B. Sc.	Chemistry	Soorajba college of education for women Ka disarvavishw a vidhyalaya, Gandhinagar	B. Ed.
2020	10	B. Sc.	Botany	P T	M. Sc.

[View File](#)

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	9
SET	1
SLET	4
GATE	2
Any Other	3

[View File](#)

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

Activity	Level	Number of Participants
Cross Country (Men)	Inter College	6
Badminton (Women)	VNSGU, Surat Inter College	3

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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
2019	NIL	Nill	Nill	Nill	Nill	NIL

No file uploaded.

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) :

327000

5.4.4 – Meetings/activities organized by Alumni Association :

• The meetings of Working Committee are held on regular basis. • Every year, some entertainment program is arranged for the members. • Campus interview is organized by the alumni association. • Annual General Body Meeting is held every year in which the association honours the member of college who has retired. Also those alumni who have special achievements like posted on a reputed place, clearing a national level, state level examination, elected/selected for a specific post in the university/company/ industry/firm etc. during the year are also felicitated in this program. • It takes active participation in the blood donation camp organized by the college. • It provides fund for organizing popular lectures / invited talks /workshops / seminars etc. in the college.

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)?

Yes

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
Curriculum Development	<ul style="list-style-type: none"> • It is done through the Board of Studies of different subjects from time to time.
Teaching and Learning	<ul style="list-style-type: none"> • The faculty have adopted ICT tools for teaching to make it more elaborative and understandable. • The students are shown NPTEL lectures on the regular basis on various topics to give them a broader spectrum of the topics.
Examination and Evaluation	It is carried out as per the rules of VNSGU, Surat.
Research and Development	<ul style="list-style-type: none"> • Some of faculty members are actively involved in research and students are registered under them for Ph. D. degrees.
Library, ICT and Physical Infrastructure / Instrumentation	<ul style="list-style-type: none"> • Library is fully computerized. All the information regarding the availability of the books, magazines etc are found on computers, kept in the library, which students/teachers can excess very easily. • The software is user-friendly.
Human Resource Management	<ul style="list-style-type: none"> • Faculty and Staff are encouraged to participate in self-development programmes. • Administration supports

	faculty, staff and students to optimize their work. • Estate Office offers round the clock support for infrastructural requirements especially, electricity, water supply and routine maintenance. • Faculty Members are involved in teaching, research and various administrative tasks.
Industry Interaction / Collaboration	• Departments are recommended to make their courses of study relevant to industry. • Industrial visits, lectures by industry experts and domain experts are regularly conducted.
Admission of Students	It is centralized, at the university level.

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

E-governance area	Details
Planning and Development	• To develop mobile app for faculty and students for easy access to the information related to the functioning of the college. • To develop the e-teaching and e-learning environment in the college.
Administration	• Office work is computerized and majority student related work is carried out through software of the college. • The allotment of exam duties to the faculties and even the block number allotment are done through the software system.
Finance and Accounts	It is computerized.
Student Admission and Support	• Admission to first year is done online through software by VNSGU while admission to second year and third year is done online through our own software. • Majority of office work such as fees collection, issuing TC and transfer certificates etc are also done through the software.
Examination	• There are two ways students are examined: one is through internal evaluation which is as per the VNSGU rules and the other is through external examination which is conducted by the university.

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	Name of the professional body for which membership	Amount of support

		support provided	fee is provided	
2019	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)
2019	Financial education workshop for the Middle Income Group	Financial education workshop for the Middle Income Group	26/02/2020	26/02/2020	26	14
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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
UGC sponsored Refresher Course	1	18/11/2019	01/12/2019	13
Science, technology and innovation (STI) connect forum at university for R D proposal on state priority areas with frontier areas of S T	1	26/11/2019	26/11/2019	1
Science Academies' Refresher Course	2	10/06/2019	22/06/2019	13
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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
<ul style="list-style-type: none"> • There is a credit cooperative society which gives loan to the needy and some household things charging a nominal interest. • A group insurance scheme is operative which can benefit the family of the staff in case on any untoward incident occurs. • In campus canteen facility is there. 	<ul style="list-style-type: none"> • There is a credit cooperative society which gives loan to the needy and some household things charging a nominal interest. • A group insurance scheme is operative which can benefit the family of the staff in case on any untoward incident occurs. • They are provided uniforms. • The laboratory staffs of the Chemistry Department are provided safety-shoes, safety glasses, apron and gloves to work safely in the laboratory. • In campus canteen facility is there. 	<ul style="list-style-type: none"> • A health centre is operative with full time doctor if a student has any health related issue during college hours. • The charge is also very nominal. • In campus canteen facility is available.

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
NIL	0	NIL
No file uploaded.		

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	Financial audit by 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)

- They are covered under EPF scheme.

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. Arranged Science Academies' Refresher Course 7. A major research project, under the supervision of Dr. D. B. Shah (Department of Physics) funded by ISRO

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	Yes

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
2019	Orientation for new entrants to F. Y. B. Sc. Sem I	Nil	06/08/2019	06/08/2019	200
2019	Launch of a new lecture series "Stalwarts of Indian Science"	Nil	22/08/2019	22/08/2019	150
2019	Celebrated 50th Anniversary of "Humanity's Historic First Steps on the Moon"	Nil	20/07/2019	20/07/2019	100
Nil	State level "One Day Teachers Training programme in Practical Physics: Learning	Nil	15/02/2020	15/02/2020	30

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	Nil	Nil	Nil	Nil

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

1. The campus is powered by LED lighting. It helps save electricity as compared to other sources. It has some unique features it is non-toxic, portable, compact, handy, easy-to-install, light weight, cheap, having longer life etc. It also produces more luminance as compared to normal sources such as tube light, CFL and incandescent lamp. In the light that is generated by a semiconductor source, UV part of the electromagnetic spectrum is absent which is not only beneficial to our eyes, but also does not attract insects.

2. The importance of rainwater harvesting lies in the fact that it can be stored for future use. As it is natural fresh water, just it can be used directly also. The stored water can be utilized to revitalize the ground level water and improve its quality. This also helps to raise the level of ground water which then can be easily accessible. Presently due to population explosion and scarcity of all natural resources, the water conservation is on the top of the list. We can't imagine life without water. With a view of this, our institute has taken good initiative to start rain water harvesting. In our state we have almost three and a half month active monsoon. So we have installed all necessary pipes on roofs to bring down the rain water and store it in a huge underground tank with a storage capacity of 25,000 L. We are utilizing this water in our Chemistry laboratories as well as for the general purpose. This helps our institute in bringing down many expenses like electricity charge, distillation charge and municipal fresh water supply bill charges etc.

3. Vermicompost is a nutrient rich natural fertilizer and soil conditioner produced by complete breakdown of organic matter by some species of earthworm. It is also known as vermicast and is very different from compost produced by bacterial decay and is much richer in nutrients. The main benefits of vermicompost are as follows: a) It improves the physical structure of soil. b) It improves biological property of soil (enrichment of microbes, enzymes and growth hormones). c) It attracts deep burrowing earthworm already present in soil. d) It prevents soil erosion. e) It increases the population of beneficial bacteria. f) It decreases the population of pathogenic insects, pests like nematodes etc. g) It increases the yield of crops like sugarcane, grapes, banana, coconut etc.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	14
Ramp/Rails	Yes	14

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
2020	1	1	23/02/2020	1	Conducting written test of clerical grade for The Surat District Co-operative Bank Ltd.	The exam was postponed due to corona pandemic	630

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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	12/06/2019	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
Plastic Free India Awareness for School Students in different areas of city	20/07/2019	31/07/2019	15
Plastic Free campus - Programme	05/08/2019	08/08/2019	45
Beti bachao, Beti padhao	14/08/2019	14/08/2019	110

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

1. Water harvesting system is working successfully. 2. The part of the campus which is not part of the building infrastructure, road or pavement is given cover by not only planting trees or growing grass, but maintaining also on a day-to-day basis. It helps to make the campus maintain moderate temperature, remain dust free and simultaneously avoiding greenhouse gases. 3. The heater facility in the boys' hostel is solar powered. 4. The students are given bicycles at a nominal rate to come to the college regularly. They are motivated to avoid using the vehicles which are running on fossil fuels by making them aware of the harm created by the smoke emitted by such vehicles. 5. LED

lighting has been installed in the campus.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. The "Nobel Lecture Series": This is a unique feature of our college, perhaps ours is the only college in this region to have a program like this. We initiated the "Nobel Lecture Series" in 2014 and since then every year, we invite speakers from premier institutes of our country like TIFR, BARC, IITs etc. to deliver talks on the Nobel Prize given in all the three sciences.
2. The "Bicycle Club": This is another unique feature of our college, an initiative to contribute to save environment. Our college has procured about 30 bicycles, through donations received from different stake holders such as our well-wishers and donors. The policy is to provide a bicycle to the students he/she can take it home and use it with the condition that he/she has to come to the college on bicycle only. It is provided at a nominal rent of Rs. 100/- per month. Students using bicycle have distinct advantages such as, they contribute to the reduced use of fossil fuel and therefore the reduced smoke emission, it makes them more fit and healthy, it brings awareness among them against the pollution of environment.

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/agar%20best%20practices_2019-20.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 talks, 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 Bridge Courses in all the subjects that we offer at the UG level
2. To arrange lectures under "Nobel Lecture Series" 3. To arrange invited talks on different topics of current affairs and others. 4. To take our students to various places of academic interest. 5. To inspire the students to participate in various academic activities on and off the campus. 6. To motivate them to prepare power point presentations in their fields of interest and present them in front of the other students. 7. To prepare for elocution competition on the topics of their syllabi. 8. To arrange orientation courses for the new entrants. 9. Any other student-centric program that is possible. 10. Explore possibility of consultancy tie ups with industries. 11. Apply for incubation centre facility under SSIP policy of Govt. of Gujarat.