



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		SANMATI GOVERNMENT COLLEGE OF SCIENCE EDUCATION AND RESEARCH JAGRAON
Name of the head of the Institution		Dr. Sukhwinder Kaur
Designation		Director(in-charge)
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		01624223242
Mobile no.		9501600237
Registered Email		gcsciencejagraon@gmail.com
Alternate Email		nirmalsingh15963@gmail.com
Address		Raikot Road Jagraon
City/Town		Jagraon
State/UT		Punjab
Pincode		142026

2. Institutional Status																									
Affiliated / Constituent	Affiliated																								
Type of Institution	Co-education																								
Location	Semi-urban																								
Financial Status	state																								
Name of the IQAC co-ordinator/Director	Mrs. Nidhi																								
Phone no/Alternate Phone no.	01624223242																								
Mobile no.	9417265126																								
Registered Email	nidhimahajan2020@gmail.com																								
Alternate Email	mahajan.mahajan85@gmail.com																								
3. Website Address																									
Web-link of the AQAR: (Previous Academic Year)	<a href="http://www.gscjgn.org/files/AQAR%20REPORT%202018-2019.pdf">http://www.gscjgn.org/files/AQAR%20REPORT%202018-2019.pdf</a>																								
<b>4. Whether Academic Calendar prepared during the year</b>	Yes																								
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="http://www.gscjgn.org/files/Academic-Calendar-UG.pdf">http://www.gscjgn.org/files/Academic-Calendar-UG.pdf</a>																								
5. Accrediation Details																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B++</td> <td>80.75</td> <td>2004</td> <td>08-Jan-2004</td> <td>07-Jan-2009</td> </tr> <tr> <td>2</td> <td>B++</td> <td>2.80</td> <td>2016</td> <td>05-Nov-2016</td> <td>04-Nov-2021</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B++	80.75	2004	08-Jan-2004	07-Jan-2009	2	B++	2.80	2016	05-Nov-2016	04-Nov-2021
Cycle	Grade	CGPA	Year of Accrediation	Validity																					
				Period From	Period To																				
1	B++	80.75	2004	08-Jan-2004	07-Jan-2009																				
2	B++	2.80	2016	05-Nov-2016	04-Nov-2021																				
<b>6. Date of Establishment of IQAC</b>	01-Jan-2004																								
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																						

5) INSA sponsored Lecture on Popularisation of Science .	12-Feb-2019 1	120
4)National seminar on Water Resources- Management and Challenges.	25-Feb-2020 1	200
3)Lecture Series organized by Department of Chemistry in association with IISER Mohali.	29-Oct-2019 1	80
3.Lecture Series (comprising of three lectures ) during Science Fiesta	21-Oct-2019 1	250
2. 2. Intercollege and inter school quiz contest, Essay writing , Power point presentation, Still & working Model and Poster presentation competitions.	18-Oct-2019 2	276
1.Meetings of IQAC	22-Jul-2019 5	9
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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
1.S. Govt College of Science Education and Research, Jagraon.	Star college Scheme	DBT-CTP	2019 30	200000
2.S. Govt College of Science Education and Research, Jagraon.	Financial Subsidies to organise seminar, conference and workshop for the session 2019-2020	College Development Council., Panjab University, Chandigarh	2020 28	30000
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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	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	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No
<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>	
I)Prepared academic and extension activities calendar to stream line the different activities in the college. Worked to create a learner centric environment for providing quality education and ensuring interactive teaching learning process. Feedback and suggestions were taken from the students, parent and Alumni and analysed for ensuring the quality education.	
II) Organised workshops, extension lectures, seminars and quiz contest and Interschool and intercollege competitions during Science Fiesta.	
III)Students were encouraged to participate in co-curricular, extra-curricular and extension activities for their all- round development.	
IV)Students were taken to different universities and research centers to orient their mind towards research culture. Teachers and students were encouraged to participate and attend National and Inter-national conferences, workshops and seminars to update their knowledge.	
V)Infrastructure: Laboratories equipment and books were added during the session for quality enhancement out of Rusa and Star college grant. New seminar hall was under constructed and boundary wall was renovated to provide safe environment to students. Playground with 400 meter track was constructed to provide sports facilities. Virtual class room, new projectors, MIPS etc.were provided for effective class room teachings	
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<b>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</b>	
Plan of Action	Achivements/Outcomes
1.Every Department to hold workshop/ Seminar/ Extension lecture to ensure	i) Department of Chemistry organised a Lecture series on the theme "XRay

early exposure to research climate

Diffraction , Transmission electron microscopy Spectroscopy and Ultra fast Spectroscopy" on October 29, 2019 in association with the Department of Chemical Sciences , Indian Institute of Science Education And Research , Mohali. Dr. Sanjay Mandal, Seior Professor , presented a talk on X Ray Crystallography: single crystal and powder and applications. Dr. Ujjal K. Gautam, Assistant professor delivered a talk on Transmission Electron Microscopy Imaging and its related techniques. In addition to this , Dr. Sugumar Venkatramani and Dr. Mahir Singh Sidhu imparted knowledge to our students of M.Sc II Chemistry and B.Sc III on IR Spectroscopy and Ultra fast Laser and its role in spectroscopy. ii) Department of Botany organized a Seminar on the theme " Popularisation of Science " sponsored by INSA for the students of UG and PG classes in which former vice chancellor , PU Chandigarh Prof. R. C . Sobti was the resource person. Dr. Parminder singh, controller examination, P.U. Chandigarh also addressed the students on this occasion. iii) The language Department organized a seminar on " Personality Development on 28th September 2019. S. Satnam Singh Solopuri, the Chief Coordinator Sikhs Helping Souls Society was the resource person on this occasion. iv) The Physics department organized a special program to celebrate National Science Day on 28/02/2020. Poster presentation , power point presentation , poem recitation were organized to mark the discovery of Raman Effect and to enlighten the students about its importance.

2. Interdisciplinary approach to be adopted by all departments and organise the Inter-college and Interschool Competitions on Science Fiesta

Science Fiesta III was organised on 18/10/2019 and 21/10/2019 sponsored by DBT, Ministry of Science and Technology, Govt. Of India , New Delhi. 108 students from 12 colleges and 68 students from 7 schools participated . Following competitions were held during the event a) Essay Writing on the topic "Innovation in Sciences" b) Poster presentation (preprepared) on the topic "Innovation in Sciences" c) Quiz Competition on Interdisciplinary subjects d) Powerpoint presentation on Innovation in Sciences ii) Interdisciplinary approach to be adopted by all departments in

teaching. A Lecture series on Innovation in Sciences was organised on 21<sup>st</sup> 10 2019 comprising of 3 lectures. Dr. Felix Bast, Assistant Professor, Department of Botany, Central University of Punjab Bhatinda, delivered a talk on Voyage to Antarctica: Memoirs from 36th Indian Scientific Expedition to Antarctica. Dr. Daisy Rani Batish, Professor Department of Botany Panjab University, Chandigarh, delivered a talk on Biodiversity : Status depletion and conservation . Prof. Gurcharan Singh, Director , Sanmati Govt. College of Science Education and Research, Jagraon, delivered a talk on Basic Science of Medical Imaging . Twenty five teachers attended Lecture series at S. Govt. college of Science Education and Research, Jagraon on October 21, 2019. iii) A National Seminar on Water Resources : Challenges and Management sponsored by College Development Council , Panjab University, Chandigarh on 25 02 2020 was attended by and 200 students of host college and students from surrounding 7 colleges . Key note address was given by Dr. K.G. Singh, HOD , Department of Soil and water engineering Panjab Agricultural University , Ludhiana. Presidential address was delivered by Dr. Naresh Sehajpal, scientist/ outstanding scientist retd., Human Resource Development Centre, Gaziabad CSIR. Dr. Rajan Aggarwal, Senior Research Engineer, Department vi) A 7 Day summer training program was organised from 03 07 2019 to 09 07 2019 under the star college scheme granted by DBT, Ministry of Science and Technology, Govt. Of India , New Delhi in the subjects of Biology, Chemistry , Physics And Mathematics for the students of High School of the area to create their interest in the Science

3 .To encourage the faculty members and students to publish papers/ present papers and participate in national, international conferences.

i) Dr Karamdeep Kaur , Department of Punjabi attended a International seminar on February 2020. ii) Dr Karamdeep Kaur , Department of Punjabi published a book on Jeevan gatha Guru Nank sahib Ji , Bebe Nanaki Aate Mata Nanaki Ji on March 2020. iii) Dr Karamdeep Kaur , Department of Punjabi published a book chapter on Punjabi Sabhiyachaar... Badlada Paridrish in February 2020. Mrs. Chandpreet Kaur and Mrs. Gagandeep Kaur presented a

	<p>poster entitled Validation of Fe and Zn in multivitamin Tablets using ONO donor set at a National Seminar on Recent Trends in Interactive Sciences A Path to Global Expans iii)Mrs. Chaderpreet Kaur and Mrs. Gaganceep kaur from Department of Chemistry ,participated in a workshop on Gas Chromatography organised by the central Instrumentation Laboratory at D.A.V. College ,SECTOR 10, Chandigarh. Mrs. chaderpreet kaur participated in a National seminar on Unnat Bharat Abhaiyanorganised by National Institute of Technical Teachers Training and Research ,Chandigarh in collaboration with IIT Delhiand AICTE on 28TH AND 29TH November2019. iv)Ms. Ameet Rana, Department of Chemistry , attended a National workshop on Nutrient Management for Organic Agriculture at MataSahib Gajri College, Fatehgarh Sahib from 28052020 to 30052020.She also attended a National Webinar on Future Green and clean Communication on 22052020 at Mahendra Engineering College , Chennai.She attended a 7 day International Faculty Development Program on Biological Sciences from 25052020 to 31052020 at Nallumuthu Gounder College, Pollachi. She attended an International Webinar on Nano particles for drug delivery system on 30052020. She attended a 5 days summer school on Drug Design And analysis from 18may 2020 to 22052020 at Sage University , Indore . v) The graduate and post graduate students of the college participated in different workshops, quiz , poster making competitions etc</p>
<p>4. To impart hands on training to Students (Summer/Winter training)</p>	<p>Students from different schools participated in the summer training during July 2019. All the science departments made the necessary arrangements to develop the scientific aptitude among them and to create their interest in the science subjects.</p>
<p>5. To encourage the students to participate in Co-Curricular activities and Extra-curricular activities.</p>	<p>Sixty students of our college participated in zonal level youth festival in different items and bagged seven prizes.The students participated in competitions held duringScience Fiesta and on different occasions. Harsimran Kaur of B.Sc.IIIMed.bagged first prize in PPT presentation on a program on Save Mother Earth.</p>

6. Visits to Universities/ research Labs/tours	i)On 28th September,2019 the Department of chemistry organised a trip to Kasauli for students of M.Sc chemistry.Thirty three students of M.Sc.Chemistry joined the trip alongwith three faculty members. ii)The department of chemistry also organised a trip to Dehradun Musorie from 04032020 to 07032020 which was joined by 23 students accompanied by three faculty members . iii) From 2327 september 2019 Department of Botany Organized a plant excursion tour of M.Sc. II year Botany students to Mussoorie and adjoining areas it was joined by. Twenty Three students and Three faculty members. The students were able to Identify and collected 182 Angiosperms, 10 Pteridophytes, 7 Byrophytes of that area.
7. Allocation of Projects and assignments to students.	Minor research projects and assignments were given to students at undergraduate and post graduate level in the subjects of Chemistry, Physics, Botany and Zoology.
8. Purchase of laboratory material and books as per requirement	Equipment, chemicals & glassware, class work materials and books worth Rs. 30,63,178/-were purchased i) Equipment worth Rs. 25,80,041/- ii)Chemicals worth Rs. 1,93,411/- iii) Specimens (Zoology) worth Rs. 1,53,308/- iv) Glassware worth Rs.1,29,893/- v) Books worth Rs. 6525/-
9. To impart education based on moral/ethical values.Tutorial to be used for this purpose.	All the college students were divided into tutorial/buddy groups to have close interaction with students. Tutorials were held in the college and respective tutors/senior buddies discussed the problems and value of morals in life such as truthfulness, righteousness and kindness etc. and also guided them to shun drugs.
10. Feedback from different stakeholders to be arranged to improve teaching learning outcomes.	Feedback was taken from students, Alumni and parents about different parameters. The feedback taken from students was duly analyzed and acted upon.
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
College Council	30-Apr-2021



<p><b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b></p>	<p>No</p>
<p><b>16. Whether institutional data submitted to AISHE:</b></p>	<p>Yes</p>
<p>Year of Submission</p>	<p>2020</p>
<p>Date of Submission</p>	<p>31-Jan-2020</p>
<p><b>17. Does the Institution have Management Information System ?</b></p>	<p>Yes</p>
<p>If yes, give a brief description and a list of modules currently operational (maximum 500 words)</p>	<p>The management information system is designed for academic and administrative work. To streamline the work college has designed Office Management System. This system meets various aspects of the functioning of the office. The list of modules currently operational are: 1) Registration and Online Admission: The College is using an online admission module to admit students in UG and PG classes according to merit prepared online using the module. 2) Fee Module: The College is using this module of MIS to collect a fee from students of UG and PG classes by providing them with a unique registration ID and passwords. The college has signed a memorandum with Punjab National bank to provide an online integration network for a fee. 3) Attendance Module: By using this module teachers are creating an attendance list of students subject wise and date wise. this will create a digital register of every class taught. 4) SMS Module: This module of MIS is used to send messages to students and parents to inform about events in college. 5) Public Financial Management System (PFMS): PFMS is a government initiative for transparent and efficient fund transfer to organizations and beneficiary and also support reports of realtime expenditure at all levels. we have a PFMS account for managing government grants received. 6) Hostel Management System 7) Time Table Management: 8) Various types of Reports generation 9) Records of Seminars and projects issued to students</p>

## 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

The college is affiliated to Punjab University, Chandigarh. The syllabus is framed and governed by the university and the college implements it as such. However, the teachers can send their suggestions to the members of the Board of Studies in this regard. 1. The university prepares the academic calendar and college adheres to that during the academic session. The academic calendar is incorporated in the prospectus and displayed on the official website of the institution. 2. The time table is prepared at the beginning of the session. The same is then displayed on the notice board for information of students and is also circulated among the teachers for the proper implementation. 3. The teachers of various departments prepare the detailed schedule of topics/lectures to be delivered in class in advance for the timely, systematically, and effective completion of the syllabus. 4. The teachers acquaint the students with the syllabus, the relevant books required for course work, and the paper pattern followed by the university. 5. In the present semester system as per University, schedule syllabi are spread over two terms i.e. July to December and January to May. 6. The teachers use innovative teaching techniques like a)MIPS, b)PPT c)Projectors)Visual charts e)Models f) Recorded lectures by teachers (during the pandemic as lock down was imposed march onward ) of institution, along with chalk and talk method. 7. Assignments are given to students to improve their reasoning, writing skills and develop problem-solving skills. 8. Allocation of projects, new experiments to inculcate research aptitude. 9. The teachers conduct the class tests on completion of every unit. These tests help the students to prepare for their course work in time. 10. As per the requirement of the respective syllabi of the courses the excursions tours/trips to various institutes, universities, biodiversity regions are regularly scheduled. 11. The teachers are assigned tutorial periods to provide additional help to the students whenever necessary. 12. The students are also encouraged to consult the online material to enhance their knowledge. The college has 6 semi-smart classrooms one smart and one virtual classroom to make the teaching-learning process interesting and effective. 13.After timely completion of the syllabus, assessment of student's ability through class tests is done for the improvement of the student's potential and analysis of student's deficient areas. This helps in intime solutions to their problems. 14. The PG students of Botany are given topics for seminar presentation as it is a full fledged paper prescribed by the university. The students presents the seminar in front of all the faculty members of department as well as students of PG and UG classes. The presentation of seminar help students to develop habit of reading books , build confidence and also develops their analytical skills. 15. To provide hands on training of the theoretical aspects workshop also organized for the students.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
nil	nil	01/12/2019	0	nil	nil

#### 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	nil	Nil
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	Nil

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
0	01/12/2019	Nil
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
BSc	Medical, Non-Medical	86
MSc	Botany, Chemistry	Nil
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### 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
Employers	No
Alumni	Yes
Parents	No

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

Feedback Obtained
<p>The feedback questions are wide-ranging and cover every aspect of the college including the faculty, curriculum, extracurricular activities, infrastructure, and NSS, etc. The students are asked to indicate the degree of agreement on the scale ranging from one to five. A higher score indicating strong agreements and vice versa. The feedback obtained is analyzed by the team of senior teachers and needful is done. A brief analysis of Students, Parents, and Alumni feedback is as follows. STUDENTS FEEDBACK: • Curriculum, Teaching, Learning, and Evaluation: Students affirm that faculty comes well prepared and cover the syllabus well in time. Most of the students registered a score of four and five range. In case of any complaint about shortage of lab material or books, these are made available out of college funds. Students expressed their satisfaction</p>

with the evaluation system devised for them. • Infrastructure: a) Departmental libraries have an excellent collection of books and students are also contented with the Xerox facility. b) Students demanded improvement in the canteen facilities. c) The majority of students were satisfied with the water facility and demanded better washrooms. d) Students are satisfied with medical facilities being provided to them. e) Students demanded more computers and better internet services. f) Students wanted that the sitting capacity of the Auditorium should be increased. PARENTS FEEDBACK • Parents expressed their complete satisfaction over the academic environment being provided to their wards in the college. • They affirmed that the college emphasizes upon the holistic development of students. • Parents demanded a better mess facility in the hostel. ALUMNI FEEDBACK • Most of the members of the Alumni Association expressed satisfaction with the progress and growth of the College. They suggested that professional courses and vocational courses should be introduced in the Curriculum. • They emphasized that more practical work should be introduced as per the need of the industry and existing Society. • They demanded regular appointment of faculty members for the quality education of the students. • They wanted that Alumni Meet should be held in the month of December or January as in these months, NRI students visit their hometown and can attend. In conclusion, the satisfaction level can be graded as high in terms of infrastructure and academics. The feedback exercise has provided valuable inputs and shore spotlight on areas where improvements are needed. To establish and maintain a higher level of satisfaction among the students, the staff is making efforts to provide better facilities for their development.

## 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	48	101	46
MSc	Botany	48	96	33
BSc	Non-Medical	160	199	107
BSc	Medical	80	116	61

[View File](#)

### 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	402	136	15	2	13

### 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

30	20	8	2	10	6
<a href="#">View File of ICT Tools and resources</a>					
<a href="#">View File of E-resources and techniques used</a>					

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

The Govt. of Punjab has especially established this institution to provide quality science education to the rural and semi-urban youth and to bring them at par with their urban counterparts. This college caters to the needs of students coming from rural and backward areas and who lack the proper academic background and financial backup, so, mentoring of students is an essential requirement to render equitable service to all our students who have varied backgrounds. The student population varies in regard to educational and economic background, it becomes our duty to provide proper mentoring so as to bring out their highest potential. Student mentoring has the following aims • To enhance the academic performance of students. • To provide proper guidance at their tender age. • To counsel them in the choice of career by making them aware of the job opportunities suited to their qualification and interest. • To emphasize on all over Personality development by organizing various competition, motivational lectures and many other programme. • To teach morals and make them good and responsible citizens The students are provided mentoring on the first day during assembly of the new session by the Director and concerned teacher-in-charge about the facilities and other beneficial schemes like Scholarships, bus pass facility, N.S.S., etc. They are also acquainted with the examination, evaluation system of institution, and rules and regulations regarding discipline. The students of every class are divided into tutorials/ buddy groups of 20-25 students. Each group is assigned a teacher mentor/senior buddy who performs mentoring duties. Mentors are expected to offer guidance and counseling as per the schedule. The tutorial periods are held on the 1st and 3rd Friday of the week in which students are free to discuss any kind of problems with the teachers and they are also guided in all respects. The concerned teachers do their best to solve the problems of the students at the earliest. The female teachers also provide mentoring to the hostelers and try to provide the best academic atmosphere to them. The mentors sort out the personal, academic, and nonacademic problems of the mentees and provide guidance. The college has established a Grievance Redressal cum Personal Counselling cell to solve the personal problems of the students and provide them right guidance. This cell consist of Six faculty members of the college who works for the welfare of the students. To create scientific temperament and Research aptitude, the students are guided/informed time to time about the Summer Research Fellowships program and other student oriented research internship activities and are motivated to apply for such programs. These type of program help the students interact with the best minds and experience the best research atmosphere creating a urge in them to undertake projects and Research proposals in future.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
538	30	1:18

## 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
39	30	9	2	Null

### 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. Karmdeep Kaur Ms.Ameet Rana	Lecturer	Bhai Veer Singh Janam Divas award of hounor 5th Dec.2019 Guru Gobind Singh Study Circle Ludhiana

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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	0001	semester 1 dec 2019	31/12/2019	28/02/2020
BSc	0003	Semester 3 Dec.2019	24/12/2019	14/02/2020
BSc	0005	Semester-5 Dec.2019	23/12/2019	10/02/2020
BSc	0002	Semester-2	01/06/2020	28/07/2019
BSc	0004	semester-4 May 2020	31/05/2019	10/07/2020
BSc	0006	semester-6 May 2020	30/09/2020	14/10/2020
MSc	001	semester-1	27/05/2019	15/12/2020
MSc	002	3rd Sem Dec.2019	24/12/2019	18/05/2020
MSc	001	2nd Semester May 2020	23/12/2019	04/03/2020
MSc	002	4 May 2020	29/09/2020	19/11/2020

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

The college has initiated many reforms for the Continuous Internal Evaluation (CIE) of the students. Following the University directive with regard to internal evaluation, we keep 10 weightage for the theory and practical internal assessment at under graduate level and 20 at Post graduate level. The evaluation is based on class tests, midsemester (house exam), take-home assignments, seminars, projects and attendance. The class tests are conducted after completion of every unit to ensure best learning outcomes and identify focus areas for every student. This method ensures commitment of teachers and students as well as close and constant assessment of the students. For Post graduate students, class tests/snap tests, take home assignments, seminars and projects class room discussions and attendance are the parameters for the award of internal assessment. The department of Physics has also taken initiative to motivate students of UG classes to give seminars on topics related to their curriculum. This presentation of seminars of students have helped them by boosting their confidence, in-depth knowledge of the subject and also enhanced their analytical abilities. The teachers make extra efforts to provide guidance to the slow learners so that they improve their performance and to bring them near their counterparts in final evaluation.

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

Academic calendar is prepared by the university and college adheres to it during the session in the college. This calendar is also printed in the prospectus for the information of students. The college also makes its own activity calendar at the beginning of the academic year for organizing various

co-curricular/extra-curricular activities like science fiesta, quiz, seminars, workshops, extension lectures, club activities at departmental level/college level, house examination and other competitions. The internal examination is decided and conducted at college level. The semester end examination are conducted as per the schedule given by the Panjab university, Chandigarh. The director and IQAC coordinator ensure proper implementation of various academic and other activities and see that appropriate is made by the teachers and records are maintained accordingly. Academic calendar and activity calendar are uploaded on the Institutional website. Weblink:  
<http://www.gscjgn.org/files/Academic-Calendar-UG.pdf>  
<http://www.gscjgn.org/files/Academic-Calendar-PG.pdf>

## 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)

<http://www.gscjgn.org/learning-outcomes.php>

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
002	MSc	Botany	22	22	100
002	MSc	Chemistry	33	33	100
0006	BSc	Medical	25	25	100
0006	BSc	Non-Medical	75	75	100

[View File](#)

## 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)

<http://www.gscjgn.org/student-feedback.php>

## 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
Total	0	nil	0	0

[View File](#)

### 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
0	0	01/12/2019

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	01/12/2019	nil
<a href="#">View File</a>				

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	01/12/2019
<a href="#">View File</a>					

**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	Nil

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	Botany	1	Nil
<a href="#">View File</a>			

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
Punjabi Book Published	1
Chapter in Punjabi Book	1
<a href="#">View File</a>	

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
nil	nil	nil	2019	0	nil	Nil
<a href="#">View File</a>						

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	2019	Nil	Nil	0
<a href="#">View File</a>						

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



Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	7	8	25	6
Presented papers	1	2	Nil	Nil
Resource persons	Nil	Nil	Nil	Nil
<a href="#">View File</a>				

### 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
International Yoga Day on 21/06/2019	Institution Level	10	50
Inauguration of Nanak Bagachi on 20/07/2019	Punjab Pollution Control Board	3	70
Awareness Rally on Cleanliness on 14/08/2019	NSS unit	5	50
Fit India Blogging Run	Institution Level	3	70
Buddy Program Awareness on 14/11/2019	NSS unit	7	35
<a href="#">View File</a>			

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
Quiz Contest during Zonal Youth Festival on 13-10-2019	Second prize	B.K.S. college , Muhar	3
Essay writing during Zonal Youth Festival 13-10-2019	First prize	B.K.S. college , Muhar	1
Poem writing during Zonal Youth Festival 13-10-2019	First Prize	B.K.S. college , Muhar	1
Muhavera daar vartlap during Zonal Youth Festival 12-10-2019	Second Prize	B.K.S. college , Muhar	3
Mehndi	Second Prize	B.K.S. college ,	1

competition during Zonal Youth Festival 12-10-2019		Muhar	
Installation during zonal youth festival on 12-10-2019	Second Prize	B.K.S.college Muhar	3
Rangoli making competition during Zonal Youth Festival	First Prize	B.K.S.college, Muhar	1
Inter college power point competition on innovation in sciences on 18-10-19	Second Prize	S.Govt.college of Science Education and Research, Jagraon	1
Inter College Competition non Save Mother Earth on 31-10-2019	First Prize	Khalsa college, Sidhwan khurd	1
Quiz Contest during Science fiesta on 18-10-2019	Second Prize	S. Govt college of Science Education Research, Jagraon	1
<a href="#">View File</a>			

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
Fit India campaign	S. Govt college of Science Education Research, Jagraon	Run, awareness lectures	2	500
150th Birth Anniversary of Mahatma Gandhi	S. Govt college of Science Education Research, Jagraon	Seminar on Gandhian Philosophy of Truth and Non-Violence by Mohinder Singh Jassal	2	150
550th Birth Anniversary of Guru Nanak Dev ji	S. Govt college of Science Education Research, Jagraon	Lecture on "Sakshiat da vikas by Satnam Singh Sohlepuri, Coordinator of Healing Souls Society	2	200

Poshan Maah	S. Govt college of Science Education Research, Jagraon	Lecture on importance of right nutrition for women to prevent anemia by Dr. Ranbir kaur, Civil Hospital, Jagraon2	2	200
Awareness of Traffic Rules	S. Govt college of Science Education Research, Jagraon	Lecture on Road Safety and Traffic Rules by A. S. I. Sukhdev Singh, Traffic incharge, Jagraon	2	100
Sadbhaavna Divas	S. Govt college of Science Education Research, Jagraon	Oath taking Ceremony	2	100
100years of Jalian wala Bagh Massacre	S. Govt college of Science Education Research, Jagraon in collaboration with Art of Living Society	Essay Writing Competition	2	80
Environment: Awareness and Protection (Swachhta Pakhwada)	S. Govt college of Science Education Research, Jagraon	Cleaniness Drive	3	500
Environment: Awareness and action for Protection	S. Govt college of Science Education Research, Jagraon	Plantation Drive	4	50
550th Birth Anniversary of Guru Nanak Dev ji	S. Govt college of Science Education Research, Jagraon in collaboration with Punjab Pollution Control Board	Inauguration of Nanak Bagichi by Prof. S. S. Marwaha (Chairman of Punjab Pollution Control Board, Patiala)	3	20

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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	Nil
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/ industry /research lab with contact details	Duration From	Duration To	Participant
No Data Entered/Not Applicable !!!					
No file uploaded.					

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	01/12/2019	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
21.9	21.9
3.2	3.2
1.26	1.26
2.67	2.67

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
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Classrooms with Wi-Fi OR LAN	Existing
<a href="#">View File</a>	

#### 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
nil	Partially	nil	2020

#### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	17209	Nil	10	6525	17219	6525
Text Books	431	Nil	Nil	Nil	431	Nil
<a href="#">View File</a>						

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
Chander Preet Shetra	General concepts of Chemistry, organic and inorganic chemistry	you tube	26/03/2020
Sarbdeep Kaur Sidhu	Vibration waves and Electromagnetic theory , Statistical physics and thermodynamics and condensed matter physics	you tube	15/05/2020
<a href="#">View File</a>			

#### 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	38	0	5	1	1	6	10	2	22
Added	10	0	0	0	0	0	10	0	0
Total	48	0	5	1	1	6	20	2	22

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

2 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	<a href="#">nil</a>

#### 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
38.3	38.2	7.21	7.21

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 follows the university regulations in constituting all necessary staff committees and other statutory bodies that oversee the maintenance and utilization of all resources. These committees oversee the maintenance of college infrastructure, equipment and facilities. 1. The college has a building committee that oversees the maintenance of the college infrastructures via meetings conducted in which necessary requisitions are considered, followed up and proposed to the concerned Governing Body for sanctions of funds. All purchases are made on quotation basis and the infrastructural needs are fulfilled. 2. The Laboratory equipment is purchased and maintained by the departmental Committee that acquires required material and equipment. Suitable arrangement is made for the maintenance of computers, electronics, and laboratory equipment in the college at departmental level. A stock maintenance is undertaken annually by concerned Committees to check any lack or wear and tear in equipment. 3. The college owns a CCTV cameras, SMS System, for the safety, comfort, and effective communication with the students and parents. Each of this is maintained through various committees formed in the beginning of session. 4. The college campus is Wi-Fi enabled, the maintenance of which is done by members of computer and network centre. Wi-Fi data connections have been paid for by the college through the PTA fund. 5. Every department has well equipped departmental library which issues books to the students and maintains the record. The annual stock checking is dually undertaken to maintain the record. 6. The institution further has annual contract with the Canteen and hostel mess. The services are reviewed every year by the duly constituted committees and the contract renewed if all expectations are met. 7. Girls Hostel Committee sees to maintenance of rooms, CCTV cameras, lawns, sanitation, electrical appliances like geysers, washing machines, water coolers, RO system, fans and furniture as per requirement. 8. We also maintain Pest Control for the entire building and Girlshostel through anti-larva unit of Civil Hospital, Jagraon. 9. The Sports Grounds are maintained by the Sports Committee. 10. The college also caters to services such as Polling station for Elections in its premises to make optimum use of the college infrastructure. 11. College owns a generator and Photostat machine for the convenience of students which is properly maintained.

<http://www.gscjgn.org/facilities1.php>

#### 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	Alumni/Soni Scholarship	15	123146
Financial Support from Other Sources			

a) National	National scholarship portal(Minority), Post Matric Scholarship SC/BC and INSPIRE Scholarship	101	777871
b)International	Nil	Nil	Nil
<a href="#">View File</a>			

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
0	01/12/2020	Nil	0
No file uploaded.			

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	Career Counselling and Placement Cell	160	160	Nil	Nil
No file uploaded.					

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
87	87	2

## 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
IOL Chemicals Pharmaceuticals Limited, Barnala, Intermediates Pvt. Ltd., Raikot	63	8	GRD Group of colleges, Ropar.	1	1

[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	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	1	UG(B.Sc)	MED	P.U chd	M.Sc CHEM
2020	9	UG(B.Sc)	2 med,7 N.med	S.Govt college of science education and research jagraon	M.Sc CHEM
2020	1	UG(B.Sc)	med	Solan	M.Sc CHEM
2020	1	UG(B.Sc)	med	G.N.D.U	M.Sc chem
2020	1	UG(B.Sc)	N.med	G.N.D.U	M.Sc Phy
2020	1	UG(B.Sc)	N.med	Sudhar	M.Sc Phy
2020	1	UG(B.Sc)	med	Nalanda Uni	M.Sc Biochem
2020	1	UG(B.Sc)	med	S.Govt college of science education and research jagraon	M.Sc bot
2020	2	UG(B.Sc)	med	pbi.uni	M.Sc bot
2020	1	UG(B.Sc)	med	G.N.D.U	M.Sc Zoo
<a href="#">View File</a>					

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	Nil
SET	Nil
SLET	Nil
GATE	Nil
GMAT	Nil
GRE	Nil
Any Other	8
<a href="#">View File</a>	

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

Activity	Level	Number of Participants
1.Essay writing competition on 19-8-2019 on the topic Centenary celebration of Jallianwala Bagh Massacre.	Institution Level	12



2. Power Point Competition on 27-08-2019 on the topic Centenary celebration of Jallianwala Bagh Massacre.	State level inter college competition	1
3. Calligraphy contest on the topic Life and philosophy of Shri Guru Nanak Dev Ji on 04-09-2019	Institution level	30
4. Essay writing competition on the topic Life and philosophy of Shri Guru Nanak Dev Ji (550 Birth celebrations) on 17-09-2019	Institution level	60
5. Slogan writing competition on the topic Life and philosophy of Shri Guru Nanak Dev Ji (550 Birth celebrations) on 18-09-2019	Institution level	20
6. Speech and Poster Making Competition on 01-10-2019 on the topic Mahatma Gandhi- 150 th birthday celebrations	Institution level	16
7. Youth festival competition on 09-10-2019 to 12-10-2019 ( Various cultural items )	State level (Inter college Competition)	64
8. Shri Guru Nanak Dev Ji (550 Birth celebrations) Naitik Sikhya Exam on 14-10-2019	National Level	33
9. Inter zonal youth festival on 01-11-2019 to 02-11-2019 ( poem recitation , rangoli, essay writing competition)	Inter zonal level	3
10. Essay writing competition Gadar Movement on 13-01-2020	Institution level	7
<a href="#">View File</a>		

### 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	National	Null	Null	Null	Null
No file uploaded.						

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

Yes, college has a student council which comprises of toppers of class, best athletes, all round best students from boys and girls, best N.S.S volunteers from girls and boys, hostel head girl and student editors of College magazine. All the representatives select one president and the other secretary members of council with the guidance of teacher incharge. The council forms a connecting link between the director of college and students. The members of the student council delegate the duties further to the other students of the college for the successful accomplishment of the given tasks. They also help in organizing functions like conference, workshops, extension lectures, intercollege and school competitions, important days celebration, programs of clubs and societies. In the girls hostel, students perform various duties like head girl, vice head girl, treasurer, discipline committee, mess committee, beautification committee, cleanliness and sanitation committee etc. The students are inseparable part of 1. Subject societies 2. Women forum 3. Environmental club 4. Grievance Redressal /Sexual harassment committee 5. Hostel committee 6. Anti Narcotic Club 7. Red Ribbon club 8. Red Cross Society

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Yes, Alumni Association has been registered on September 6, 2016 under Societies Registration Act (XXI of 1860). Alumni Association of college has been playing great role in offering a platform to old students to reconnect with their alma mater. The meetings of Alumni association are held from time to time. The composition of association includes the director of college as patron, president, senior vice president, secretary and treasurer. Alumni members extend every possible help to the institution. They are regularly invited to interact with students. Alumni play an important role in encouraging students to excel in life. They come and share their expertise from various fields like government, academia, corporate world etc. Some of the alumni are occupying respectable positions in the state administration and in academics. They are invited to address the students to boost their confidence. They are role models to the students to achieve their goals.

- S. Darbara Singh Guru, IAS former, Chief Secretary to CM of Punjab
- S. Jaswinder Singh Brar Former DPI Colleges, Punjab
- Dr. Gurbakshish Singh Sidhu D.M. Gastro Max Hospital, Mohali
- Dr. Parmjeet Singh Gill, Okanogan University College, Kelowna
- Dr. Anil Kumar Sharma, Professor And Head, Kidwai Memorial Institute Of Oncology, Bangalore
- Dr. Phulwinder Swingh Senior Medical Scientist Cum Senior Research Fellow University of Adelaide, Australia
- Dr. Deepak, Kalyani Hospital, Jagraon
- Dr. Avtar Singh, Carewell Hospital, Jagraon
- Dr. Ajay Bansal, Bansal Hospital, Jagraon
- Dr. Gourav Garg, Garg Hospital, Jagraon
- Dr. Hari Singh Hans, Hans Maternity Hospital, Jagraon
- S. Mal Singh Hans, S.D.O BSNL, Jagraon
- S. Gurpreet Singh Sidhu, Principal Lala Lajpat Rai Engineering College And Technology, Moga
- Er. Gurpreet Mohinder Singh Sidhu, Additional S.E PSPCL
- Er. S. Harvel Singh, Dhaliwal Additional S.E PSPCL
- Er. Ravi Chopra, Additional S.E PSPCL
- Er. Dharpal, Additional S.E PSPCL
- Er. Jagdev Singh Hans, Additional S.E PSPCL
- Dr. Hardeep Singh Gill, University of Massachusetts Lowell
- Mrs. Harmandip Kaur, Former Director of College
- Mr. Mandeep Ralan, Assistant Commissioner Special Bureau
- Mr. Sandeep Goyal, Phd TIFR Post Doc. U.S.A
- S. Gurkirpal Singh, Guidance And Counseling Officer, Ludhiana
- S. Bhupinder Singh, Additional S.E PSPCL
- Dr. Karan, Assistant Professor DAV

College ,Sector -10 ,Chandigarh • Dr .Kuldeep Singh ,Education and Community Services Punjabi University, Patiala has offered his services for the college all the time . • Dr. Manjinder singh ,Assistant Professor in Department Of Pharmaceutical Technology NIPER ,Mohali works as an active member of this association • Mr. Sahil Sharma ,B.tech from IIT BHU

5.4.2 – No. of enrolled Alumni:

117

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

21000

5.4.4 – Meetings/activities organized by Alumni Association :

1. Alumni meeting was held on 22/08/2019 for the welfare of the college and to help the needy students to continue their studies 2. Next meeting of alumni association was held on 19/12/2019 to decide for the flooring of new building. Alumni association contributed around Rs.70000-/- for this purpose. 3. Alumni meeting was held on 20/08/2020 regarding the establishment of micro forest in the college campus in association with Eco sikh society. For this purpose Rs.21000 was utilised from the alumni fund. 4. Alumni Executive meeting was held on 20/08/2020 to take various decisions regarding the development of the college and welfare of the students. From Alumni Scholarship ,around Rs.80000-/- was given to 16 needy students.

## **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)

(1)To work towards decentralization, many committees have been formed in the college. Conveners of all committees work in collaboration for the smooth functioning of the college. Heads of departments prepare the time table, unitization of syllabus and organize lectures, workshops, projects and plan to ensure quality of teaching learning in co-operation with other faculty members of department. A decentralized mechanism empowers the faculty with a great level of responsibility in academic leadership helps the faculty in taking decision. There are 67 staff committees, a few important ones are: House/ university examination committee managed by Registrar, financial matters supervised by the college Bursar, various admission committees, STAR college, RUSA and UGC committee, IQAC, etc. Youth and cultural program committee, RTI and Court case committee, Press and publication committee, scholarship and financial aid committee, hostel committee, anti-ragging committee , grievance redressal and sexual harassment committee which do the needful for the welfare of students . (2)Certain activities regarding planning and decision making are with the Staff council and heads of various departments The college encourages a culture of participative management by involving staff members in various administrative functions. • (1)The college has set up various functional committees. The decisions are always taken in consultation with the members of committees headed by convener. The members of non-teaching are also associated with the committee. • (2)The departmental and other societies have a student body that participates equally in organization of all academic and cultural activities in the college. All the members work in a coordinate manner to make any activity or function a success. The students are inseparable part of • a) Subject societies, b) IQAC c) Women Forum, d) Environment committee e)Grievance Redressal/ Sexual Harassment Committee, f) Hostel committee g) Red Cross Society h) Red Ribbon Club i) Legal Literacy Cell j) Youth festival.

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
Admission of Students	Students are admitted in UG courses purely on the basis of merit and in PG on the basis of combination of entrance test conducted by Panjab university Chandigarh and their academic record to ensure transparency . Admission committees are constituted of teaching staff , that look after the entire admission process.
Industry Interaction / Collaboration	To prepare students for a successful career and make them employable, an interaction with the industry by way of industrial visits and inviting the representatives from the industry are organised from time to time. We plan to develop the formal collaboration with some industry in future. IOL pharmaceutical, WIPRO pharmaceutical and WERBIC pharmaceutical industry conducted campus placement drive and hired the students from our college.
Human Resource Management	(i) The permanent faculty is recruited by PPSC as per eligibility conditions laid down by UGC. (ii) Part-time/Guest faculty teachers are working as per the guidelines laid down by Government of Punjab/ DPI (Colleges), Punjab. The institute appoints adequate number of qualified faculty as per requirement in the beginning of the session through the procedure of open advertisement and interview by internal expert committee. (iii) Two members in office staff have been arranged on contract basis. (iv) Casual labour is managed for lab/ field work on DC rates as and when required.
Library, ICT and Physical Infrastructure / Instrumentation	i. Library: The College has a main library and 5 fully functional departmental libraries, having 17219 of books, 25 journals, 10magazines, 6 news papers. There is also a facility of N-List programme under INFLIBNET, where the students can have an access to all kind of reference material online. ii. ICT/ Physical Infrastructure: The college has 10 class rooms (2 smart rooms, 1 virtual class room, 7 semi smart rooms), 12 laboratories(out of

which 4 laboratories are provided with projectors), 1 seminar hall (well equipped with projector), 1 computer Centre cum UGC network resource Centre, 1 girls' hostel (with internet facility), 1 well maintained botanical garden hoisting more than 300 plant species belonging to different flora and grown in a systematic manner, 2 museum, 1 herbarium, 1 medicinal plant garden and 1 cactus garden. iii. Instrumentation: All the teaching departments have internet access to enrich the knowledge of students and teachers and also to help the students to fill scholarship forms, examination forms and help the staff in day to day work given by the university/ DPI. Administrative office and accounts office is also fully automated. iv. All laboratories are well equipped with all type of instruments and Lab material.

Research and Development

In order to develop scientific temper and research culture and aptitude among students, institute organizes • Workshops at college level where students get opportunities to interact with eminent research scholars of the subject. • Students are taken to research Labs/Universities to interact with research scholars and to expose them to the nature of research being carried in these labs. • Eminent scientists are invited to the institute to deliver lectures based upon their field of research in addition to advanced general topics. • Research activities like survey of college campus for occurrence of different species of plants are undertaken by the Botany department. • Laboratories are well equipped with sophisticated and latest instruments. • Students are encouraged to conduct departmental level seminars for enhancing their analytical skills. • Students at PG level are advised to qualify UGC-NET. • Minor research projects are allotted to students by all the departments to inculcate research aptitude in them

Examination and Evaluation

The evaluation procedures for each course is fixed well in advance and communicated to the students in the beginning of the year. • UG students are evaluated through monthly tests taken after each unit according to the course plan. They are also evaluated on

	<p>the basis of house test, assignments, seminar presentation, project work and attendance in internal assessment. • P.G. students are evaluated through class tests, snap tests, group discussion, seminar presentation, assignments and attendance. • Final evaluation of students is made by the University examinations.</p>
Teaching and Learning	<p>In addition to Chalk and Talk method of teaching, modern means of teaching have been introduced. • Teaching through PPTs , MIPS • Smart class rooms to make teaching still more interesting and effective. • The internet facility is provided to all the departments. • Facility of departmental libraries. • Extensive use of internet downloading of study material by both teachers and students. • Generation of SOPs and Lab manuals for the students • Extension lectures by visiting faculty, seminars by students • Participation of students in seminars/workshops/symposia and conferences. • Participation of Students in group discussions in classes • Assignments. • Feedback from students is taken which helps to improve the class room teaching in future</p>
Curriculum Development	<p>The process of Development and designing of curriculum is carried out by the university however, views of the college teachers are put forward to the university through the members of board of studies of the college.</p>

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

E-governance area	Details
Planning and Development	<p>(i) Each department is provided with computers having internet facility and projector. (ii) The college has upgraded the office administration software by adding more office modules, like registration and admission module, student fees, student login, subject module, result module, Teacher insertion module, student attendance, Alumni, SMS alert, Library, Hostel, Update log ,Reporting module etc.</p>
Administration	<p>(i) Administrative office, accounts office and departments are facilitated by 2 MBPS leased line. also fully automated. (ii) The database of its employees is maintained at a common platform named HRMS (Human Resource</p>

	Management System) hrms and salary of office staff is also prepared and disbursed through the IFMS (iii) 40CCTV surveillance system is operative at various points inside the campus.
Finance and Accounts	Salary of permanent employees is managed online by Punjab government treasury and of temporary employees is managed by college software. Scholarships or student fee concession or fee collection/ refund, all transactions are managed online. All payments are made through e-mode or cheque.
Student Admission and Support	(i) Registration for student admission as well as payment of fees is managed by office administration software. The students register themselves for admission to various courses online. Tentative merit list is displayed on the website. Students deposit the fee online. (ii) The guidelines and all relevant information for the applicants are uploaded on the college website and notice board. Soft copy of College prospectus is also uploaded on the college webpage. (iii) The contact details of convener of admission committees are also displayed on website/notice board..
Examination	Examination schedule is administered by Panjab university, Chandigarh. Prior to Semester end examination, all notifications like, submission of examination forms are timely displayed on college website and notice boards, information regarding collection of admit card, datesheet and other examination related formalities are also communicated to students through SMS/website/notice board. A list of examination based instructions is also uploaded on the website/notice boards prior to examination.

### 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
2019	Mrs.Chanderpreet kaur	Unnat Bharat AbhiyaanProspects and challenges	----	2300

2019	Mr.Nirmal singh,Mrs. chaderpreet kaur and Mrs.Gagandeep kaur	one day workshop on Gas Chromatography	-----	2550
2019	Mrs.Chanderpreet Kaur.Mrs.Gagandeep kaur	Validation of Fe <sup>2</sup> and zn <sup>2</sup> in Multivitamin tablets using ONO donor set.	-----	3200
<a href="#">View File</a>				

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	Administrative Soft ware training	Administrative Soft ware training for admission	05/07/2019	05/07/2019	25	10
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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
online refresher course in chemistry for higher education at swayam arpit	2	01/09/2019	16/02/2020	169
<a href="#">View File</a>				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nil	1	Nil	Nil

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Staff members	1. House building loans	1. Student Aid fund. 2.



contribute to Provident Fund 2. House building loans from Nationalized banks. 3. Medical reimbursement as per Govt. rules. 4. LTC 5. Pension Scheme

from Nationalized banks. 2. Loans from PTA fund, Wheat loan and festival loan. 3. Medical reimbursement as per Govt. rules. 4. LTC 5. Pension Scheme 6. Staff members contribute to Provident Fund. 7. Uniform

Free books to meritorious but poor students. 3. Special coaching to weaker students. 4. Bus Pass facility 5. SC,OBC and minority scholarships. 6. Scholarship from Alumni, teachers and other Non Govt. sponsored

## 6.4 – Financial Management and Resource Mobilization

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

Yes, the college conducts internal and external financial audits regularly. An audit is systematic and independent examination of documents, vouchers and account books of college to ascertain how the financial statement as well as records presents in a true and fair manner. The college superintendent and clerical staff maintains the record of all funds and entries are duly made in assigned registers (cash books) which are cross checked by college bursar. Internal audit of PTA is done by the Parents in the executive committee of PTA. In the beginning of the session, the income and expenditure statement of previous year is read out in the general house of the PTA for approval of the budget. External audit of PTA fund, grants under Star college scheme and UGC grants are done by authorized Chartered accountant. The Government funds are audited by auditors appointed by the office of the AG, Punjab. The external audit of Govt. Funds and Grants of the college was done from 24-02-2015 to 27-02-2015.

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
PTA	4500000	Honorarium to guest faculty, development of the college, daily wagers, purchase for infrastructure and for academic cultural and sports meet
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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	No	Null	Yes	IQAC College council
Administrative	No	Null	Yes	Bursar College Director

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

• The Parent Teacher Association is formed in the beginning of session. The president, vice president and treasurer of the association are elected unanimously for the session. All kind of expenditure from PTA fund is done with the approval of association. The approval of expenditure of previous session is taken from the parent teacher association and the expected Budget of the new session is put forward for their approval. The association is a valuable asset . PTA has spent money in meeting up institutional requirements like salaries of teachers, salaries class IV employees, repair of building etc. and organisation of college functions. • Parents are important stakeholders in imparting education to our students, college takes inputs from parents through active feedback from them on various issues like studies and infrstructural support, personality development of students etc. Concerned parents write emails to the college director which are replied and acted upon. • Feedback is analysed and sent to IQAC . IQAC conducts meetings with Principal and Departmental heads to take remedial measures. • If students are short of attendance/if not performing well in tests, parents are called to meet concerned teachers and future corrective action that they need to ensure.

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

• One day induction programme on use of GEM • Administrative Soft ware training for admission.

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

The college believe that oportunities should be available to all stakeholders for holistic development. Number of initiatives were taken. • With the help of grant received from DBT under the Star College Scheme, RUSA - HPLC, UV-Visible Spectrophotometer, Scintillation Counter Gamma RaySpectrometer and another instruments of worth rupees Rs. 48,52,903/- were purchased and Tissue Culture Lab was established to promote research climate in sciences. Laboratories are well equipped with sophisticated and latest instruments. Minor research projects are allocated to students by all the departments to inculcate research aptitude in them. The teachers also gain experience from mentoring and guiding research projects. • The college undertook initiative to promote scientific aptitude in budding scientists, college organized two day state level Science Fiesta II , intercollege interschool competitions, a workshop on the theme "Communicating Science For All" and Lecture Series on 22 23-02 2019. • In order to create awareness among the students about environment, three day programme was organized from 13 to 15-09-1018 in which intercollege quiz contest on "environment and its protection" , postermaking, speech/power point competition seminar on "Importance and protection of ozone layer " were held. • To improve infrastructure of the college, seminar hall, 400 meter track with playground and renovation of boundary wall have been initiated. Many more initiatives like generator, new CCTV cameras, virtual classroom equipment etc. were purchased which have helped in improving basic infrastructure available in the college. • Workshops, lecture series/extension lectures are held to inculcate research aptitude among the students. The teachers also assign minor projects to the undergraduate and postgraduate students which are supervised by the concerned teacher. Teachers are also encouraged to do orientation and refresher courses from time to time to update their knowledge.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
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
2019	2. Intercollege and inter school quiz contest, Essay writing , Power point presentation , Still working Model and Poster presentation competitions .	21/10/2019	19/10/2019	21/10/2019	276
2019	3.Lecture Series (comprising of three lectures ) during Science Fiesta	21/10/2019	21/10/2019	21/10/2019	250
2019	3)Lecture Series organized by Department of Chemistry in association with IISER Mohali.	29/10/2019	29/10/2019	29/10/2019	80
2020	4)National seminar on 'Water Resources: Challenges and Management" sponsored by CollegeDevelopment coucil PanjabUniversity, Chandigarh.	25/02/2020	25/02/2020	25/02/2020	200
2020	5) Lecture Series on" Popularization Of Science" by	12/02/2020	12/02/2020	12/02/2020	120

Post  
Graduate  
Department  
of Botany  
sponsored by  
INSA

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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
1. Lecture on Importance of Right Nutrition and Hygiene for Women( Poshan mah)	11/09/2019	11/09/2019	100	20
2. Investiture ceremony of women forum	07/02/2020	07/02/2020	100	20
3.Speech competition on Women empowerment	05/03/2020	05/03/2020	120	30
4. Lecture on women empowerment and precautions against corona virus	09/03/2020	09/03/2020	100	30
5. Lecture on Legal Rights of Women in India	20/02/2020	20/02/2020	170	30

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

- Plantation Drive on Van Mahoutsav, Department of Botany involve the staff and students to participate with full enthusiasm in plantation drives every year for maintenance of green belts.
- The subject of Environmental Studies and Road Safety Rules is taught in B.Sc. I.
- Drive against the use of polythene bags is undertaken regularly and entire campus has been declared as a plastic free zone.
- Vermicomposting unit has been established in the college to provide knowledge to the graduating students about biodegradation of waste biomass and organic farming.
- The medicinal plants garden has been started up on campus this year.
- Botanical garden, plants and lawns are maintained properly.

Steps taken for Energy conservation:

- The planning of the building is such that the rooms are adequately lighted and ventilated. On bright sunny days the rooms are very well lit. The need of switching on the tube lights is felt only during the

cloudy days. Switching off of the lights and fans are taken care of while leaving the class. • The college is using LED tube lights in most of its areas and thus ensuring conservation of electricity.

#### 7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	3
Physical facilities	Yes	3

#### 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
2019	Nil	1	09/07/2019	1	Traffic Rule Awareness by ASI SUKHDEV SINGH	Awareness about traffic rules	150
2019	Nil	1	11/11/2019	1	Poshan Mah (NUTRITION MONTH BY DR. RANBIR KAUR CIVIL HOSPITAL JAGRAON)	Awareness about right nutrition	100
2019	Nil	1	07/02/2019	1	Summer Training Camp	scientific interest	50
2019	Nil	1	20/07/2019	1	Nanak Bagichi	Awareness about Environment and its Protection	20
2019	Nil	1	21/08/2019	1	Van Mahoutsav	Awareness about Environment and its Protection	30
2019	Nil	1	01/08/2019	15	Sawachta Pandarwada	Awareness about importance of cleanliness	200

						iness	
2019	Nil	1	08/07/2019	25	Buddy group( Antidrug awareness campaign)	To create awareness about harmful effects of drugs	556
2019	Nil	1	20/08/2019	1	Sadbhavana Diwas	Awareness about social values	100
2019	Nil	1	29/08/2019	1	Fit India Movement Live Telecast for students	Awareness About Health Issues	200
2019	Nil	1	29/08/2019	1	Anti Ragging Awareness	awareness of Social Issues and disadvantages of ragging	200

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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)
Prospectus of the College	29/05/2019	It consists of guidelines for admission, information about guidelines for reservations rules of discipline, code of conduct for students, university examination rules, societies/clubs, awards and honours, academic calander, college activity calander, welfare schemes and scholarships.
Hand book of Hostel rules	10/07/2019	Important conditions/instructions regarding hostel admission, rules for mess bill payment, important instructions regarding Hostel discipline.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Lecture on "Personality Development according to Gurbani"	28/09/2019	28/09/2019	120
Seminar on "Gandhian Philosophy" by Dr. Mohinder Singh Jassal	02/10/2019	02/10/2019	100
Pledge on Rashtrya Ekta Diwas	31/10/2019	31/10/2019	120
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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

With the active involvement of the staff and students, we have been able to make campus clean, green and eco-friendly. Following initiatives have been taken in this direction.

- Water harvesting: The campus area of the college is very large. The rain water collected in the college building is directed towards the lawns which play a significant role in conserving water and recharging the water table naturally. No run away water has ever been reported in our campus.
- Efforts for carbon neutrality: As stated earlier, more than 1800 plants are grown in the college campus at present excluding the well maintained lawns which plays a great role in neutralizing the carbon di-oxide burden. In order to check the emission of CO<sub>2</sub>, following preventive measures are strictly in operation
- Burning of stubs leaves, uprooted weed is avoided, rather they are dumped for natural decay to get converted into compost. Plantation is done systematically every year.
- Plantation: Department of Botany in collaboration with NSS involves the staff and students to participate with full enthusiasm in plantation drives every year. Renowned personalities are requested to plant saplings in the botanical garden from time to time. Different occasions like Van Mahoutsav Earth Day, World Environment day, Ozone day etc. are celebrated to make the students aware of the role of plants in controlling the corrosion of the environment.
- Hazardous waste management: The students in the college wear lab coats while performing experiments in the Chemistry labs. Use of extremely hazardous chemicals is avoided. Students are advised to use a restricted amount of chemicals to perform experiments and the waste is disposed off carefully under the supervision of laboratory technicians and concerned teachers.
- E. waste: The non-functional components and other e-wastes are identified and dumped at safer place. We follow the government regulations for the disposal. Following activities are conducted to make campus eco friendly. Sr. No. Name of the activity

1. Speech/Debate Competitions on Swachh Bharat Abhiyan
2. Awareness rally on " Impotance of Cleanliness"

#### 7.2 – Best Practices

##### 7.2.1 – Describe at least two institutional best practices

For the holistic development of the students, a number of value based practices are carried out in the college. These practices are central to achieve the goal of the college that is to explore the best in the students and to bring them up as excellent personalities. For the holistic development of the students as well as provide them opportunities to excel in their chosen field. our Best practices are

- To develop scientific skills.
- Women Empowerment.

1. To develop scientific skills. Goal: our college was established in 1968 with a mission to impart quality Science Education to the semi urban youth. To realize

our mission, we have started this practice of inviting renowned personalities/scientists in the college to nurture scientific attitude in the students of the college and orienting them towards research. Context: As our college caters to the needs of the semi -urban youth, this practice was highly desired. The semi urban youth need exposure to the outer modern global world. Feeling the need to provide them opportunities where they can get a chance to upgrade their knowledge and to inspire them by interacting with the renowned personalities from the prestigious institutions. This practice facilitates their academic growth and acquaints them with the latest concepts. Practice: Eminent scientists are invited to the institute to deliver lectures based upon their field of research in addition to general advanced topics by Deptt. of Chemistry, Deptt. of Botany, Deptt. of Physics and Deptt. of Zoology. Scientists from different fields were invited to the college during various programs like, workshops , science fiesta, seminars and extension lectures who enlighten the students with their knowledge and experience. This helps in enriching their knowledge and create interest in their mind for the subject. The scientists also help the students and faculty members to understand recent developments in the field of science and clear doubts leading to clarity of subject. The students are also taken to research institutes for practical demonstrations and to expose them to the variety of techniques being used in these institutes. During this session, students got the opportunity to meet number of scientists, to name a few, i) Department of Chemistry organized a Lecture series on the theme "X-Ray Diffraction, Transmission electron microscopy Spectroscopy and Ultra fast Spectroscopy" on 29-10-2019 in association with the Department of Chemical Sciences, Indian Institute of Science Education And Research, Mohali.

Dr. Sanjay Mandal, Senior Professor, presented a talk on X- Ray Crystallography: single crystal and powder and applications .Dr. Ujjal K. Gautam, Assistant professor delivered a talk on Transmission Electron Microscopy Imaging and its related techniques. In addition to this, Dr. Sugumar Venkatramani and Dr. Mahir Singh Sidhu imparted knowledge to our students of M.Sc II Chemistry and B.Sc III on IR Spectroscopy and Ultra fast Laser and its role in spectroscopy. ii) Department of Botany organized a Seminar on the theme "Popularization of Science " sponsored by IINSA on 12-2-2020 for the students of UG and PG classes in which former vice chancellor , PU Chandigarh Prof. R. C . Sobti was the resource person. Dr. Parminder singh, controller examination,P.U. Chandigarh also addressed the students on this occasion. iii)

Interdisciplinary approach to be adopted by all departments in teaching. A Lecture series on "Innovation in Sciences was organized on 21-10-2019 comprising of 3 lectures. Dr. Felix Bast, Assistant Professor, Department of Botany, Central University of Punjab Bhatinda, delivered a talk on Voyage to Antarctica: Memoirs from 36th Indian Scientific Expedition to Antarctica. iv)Dr. Daisy Rani Batish, Professor Department of Botany Panjab University, Chandigarh, delivered a talk on Biodiversity : Status depletion and conservation . v) Prof. Gurcharan Singh, Director , Sanmati Govt. College of Science Education and Research, Jagraon, delivered a talk on Basic Science of Medical Imaging vi) A National Seminar on Water Resources : Challenges and Management sponsored by College Development Council , Panjab University, Chandigarh was organized on 25-2-2020. The Key note address was presented by Dr. K.G. Singh, HOD , Department of Soil and water engineering Panjab Agricultural University , Ludhiana.Presidential address was delivered by Dr.

Naresh Sehajpal, scientist-H/ outstanding scientist-rettd., Human Resource Development Centre, Gaziabad CSIR.Dr. Rajan Aggarwal, Senior Research Engineer, Department of Soil and Water Engineering, Panjab Agricultural sUniversity, Ludhiana gave a talk on Water Conservation and Management. Interdisciplinary approach to be adopted by all departments. Our college organizes the A)two day mega event science Fiesta. Science fiesta was organised on 18-10-2019 and 21-10-2019.on the first day ,inter school and inter college competitions of power point presentation Essay writing and speech competition were held on the



topicI Innovation in Sciences which was attended by 108 students from 12 colleges and 68 students from 7 schools. The second day ie 21-10-2019 was marked by Lecture series by renowned scientists. Evidence of success :The interest of the students in the subject increased after interaction with the visiting scientists and research institutes. But after such an interaction with the renowned personalities they were motivated and encouraged and number of them joined post graduate courses. Problem encountered and resources required: Being a government institute, it is managed by grants from different funding agencies like DBT, UGC and state council for carrying out such activities in the college. PTA fund is also used in case of shortage of funds. 2.Women empowerment: Our college has always provided safe and congenial atmosphere to the girl students. We have more girl students than boys in the college. Every effort is made to encourage and empower them by the college staff. Goals: • To make them aware of their rights and identity. • To prepare them for facing the challenges of life. • To eradicate the evils from the society like female foeticide, dowry system. • To address their problems by providing counseling. Context: The majority of the girls belong to semi urban middle class families who still believe in the submissiveness of women. It becomes our responsibility to develop confidence in them and to prepare them for facing the challenges of life. Practice: Women forum has been established in the college with the aim of empowering students and teachers. The Investiture ceremony was held on 7-2-2020 to designate them as President, Vice president and other positions. Lectures by dignitaries and other competitions are organized to make them aware of issues related to them. To accomplish this purpose Poster making, Speech competition etc are organized to create awareness about their rights. Speech competition was organized in the college on 5-3-2020 on the topic Empowerment of Women in which students enthusiastically participated and expressed their views vehemently. Lectures by renowned personalities and director also encourage them to rise in life. The international women's day is celebrated in the college in which renowned female personalities are invited to motivate the students to rise in life. This day was celebrated on 9-3-2020 in which Dr. Manisha Maini, Gynecologist from local Maini Hospital was invited to address the students on Women Empowerment as well as prevention from Corona virus. Poshan Maah was celebrated in the college to create awareness in the students about the right nutrition for curbing Anemia in women. Dr. Ranbir Kaur from civil hospital Jagraon addressed the students about importance of right nutrition for women. Sexual Harassment Prevention cell: The college has also established Sexual harassment prevention cell to provide a safe and healthy environment to the girl students and female teachers. Till date , no case has been reported to this cell. Evidence of success: The girl students became aware of their rights and were motivated to achieve higher aims in life. The students who felt shy during interactions were encouraged to become bold and active after these kinds of programs. They discussed their problems and issues with the female members of the women forum and were provided with all the necessary guidance. The problem encountered and resources required: The PTA fund was used to organize such programs for the upliftment of the girl students of the college.

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

<http://www.gscjgn.org/about-college.php>

### 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 college has a vision: •To impart high-quality education in science to produce professionals of national and international repute. The college has undertaken the following steps to achieve this vision: • Recipient of the Star

College Award, our college has received grants for 10 consecutive years from DBT to Upgrade infrastructure, promote scientific temper, research culture, and aptitude among students, the institute organizes Workshops: Two workshops were organized during the sessions to provide hands-on training to the students•

Interdisciplinary approach to be adopted by all departments. Our college organized the two-day mega event Science Fiesta comprising of inter college and inter school competitions like Essay Writing, Poster presentation (pre-prepared), Rangoli making Speech Competition, workshop for school and college students on 18-10-2019. The aim of organizing these programs is to spread awareness about role of science and technology in today's world and to inculcate scientific aptitude among young students. • College organized a lecture series on the topic Innovation in Science on 21-10-2019 sponsored by DBT Govt.of India,New Delhi,The resource person, Dr. Felix Bast from central university, Bathina delivered a talk on "The Voyage to Antartica Memoirs from 36th Indian scientific expedition to Antartica." Then, Dr. Daisy Batish from Dept. of Botany,Panjab University ,Chandigarh addressed the students on Biodiversitystatus,depletion and conservation.The college Director ,Prof. Gurcharan singh presented a talk on Basic Science of Medical Imaging.The post graduate department of Chemistry organised a lecture series on the topic XRay Defraction and TEM Imaging on 29-10-2019 • Minor research projects are allotted to students by all the departments to inculcate research aptitude in them and the college aims to continue its distinctive endeavors in this direction to achieve in some research and its applications in diverse fields of relevance and social utility. • Students are taken to research Labs/Universities to interact with Distinguished scientist and research scholars and to expose them to the nature of the research being carried in these labs.An INSA SPONSORED lecture was organised on 12-2-2020 in which Dr.R.C.Sobti ,Former vice chancellor Panjab University, Chandigarh delivered a talk on Popularisation of Science. Teachers of Botany Department organized field trips to study the flora and fauna of different habitat and Department of Zoology took students to Chhatbir Zoo to show them the variety of animals in their natural habitat. • Students are provided industrial training: Students are encouraged to conduct departmental level seminars for enhancing their analytical skills. • Laboratories are well equipped with sophisticated and latest instruments

Provide the weblink of the institution

<http://www.gscjgn.org/institutional-distinctiveness.php>

### **8.Future Plans of Actions for Next Academic Year**

To organize intercollege and interschool competitions in the form of Science Fiesta • To apply for infrastructural grants to the Government of Punjab for the completion of incomplete buildings. • To undertake educational tours and invite eminent scientists for extension lectures. • To hold workshops /lecture series for students/ community • Faculty will be encouraged to apply for financial assistance from the outsources for organizing Seminars/ Conferences/ Workshops and research projects. • To make the campus more "Divyangan" friendly, plans for the erection of dedicated washrooms and ramps have been initiated. • To start summer training for school and college students to give them exposure to and practical knowledge. • To encourage all departments to make educational excursions during the mid-semester break to augment learning, gathering field data, and developing research methodology skills. A report has to be submitted by all departments mentioning the learning outcomes and research findings and award the best report submitted by a department/student to encourage and motivates the students for increased participation. • A website committee will be created to upload all contents on the college website. • To promote the use of solar energy in the college through the installation of solar panels. • Faculty will be encouraged to attend the refresher course, orientation program, short Term course, Faculty development Programmes during the year, or do online. • All HOD

of departments plan their activities for the semester in advance and submit the tentative dates to the office along with details of the theme and resource persons. A notification for all events to be held in the college will be published on the website at least a week advance to ensure better publicity. A small report of all conducted activities has to be sent to the office along with some pictures of the event to be uploaded on the college website. • To encourage students/faculty for internship /research/training. • To start more Capability enhancement and development schemes like remedial coaching, Language lab, Yoga meditation, Personal Counseling, and Mentoring, etc. • More and more lectures to be organized for competitive examinations and career counseling. • The college will establish MoU with reputed industries to enhance Industry-Institute Interaction activities like Industrial visits, hands-on training, and guest lectures. • To organize professional development/administrative training programs for teaching and non-teaching staff. • To hold more social outreach programs to be initiated in collaboration with industry/ community /non-Government organizations through NSS//Red Cross etc. during the year. • To conduct more activities for the promotion of Universal values and ethics. • To start activities that are productive academically, culturally, and socially. • To celebrate different important days on campus to create awareness among the students. • To make campus green and highly eco-friendly.