



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S, SCIENCE COLLEGE, NAGPUR
Name of the head of the Institution	Dr. M. P. Dhore
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	07122423432
Mobile no.	9423103043
Registered Email	shivajinagpur2019@gmail.com
Alternate Email	dhoremp@gmail.com
Address	Humpyard Road, Congress Nagar, Nagpur
City/Town	Nagpur
State/UT	Maharashtra
Pincode	440012

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Urban			
Financial Status		state			
Name of the IQAC co-ordinator/Director		Dr. M. J. Hedau			
Phone no/Alternate Phone no.		07122423432			
Mobile no.		9326932159			
Registered Email		iqacsscnagpur@gmail.com			
Alternate Email		maheshhedaul@gmail.com			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		<a href="http://sscnagpur.ac.in/uploaded_files/Aqar-Report-2017-18.pdf">http://sscnagpur.ac.in/uploaded_files/Aqar-Report-2017-18.pdf</a>			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		<a href="http://www.sscnagpur.ac.in/uploaded_files/Academic-calender-2018-19.pdf">http://www.sscnagpur.ac.in/uploaded_files/Academic-calender-2018-19.pdf</a>			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
3	A+	3.51	2017	09-Jun-2017	08-Jun-2024
6. Date of Establishment of IQAC			15-Jul-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	

One day workshop on NAAC: New Methodology	16-Apr-2019 1	30
One day workshop on Intellectual Property Rights (IPR)	18-Apr-2019 1	32
Celebration of World Nature Conservation Day	08-Jul-2018 1	75
Wild life conservation week Programme	01-Oct-2018 7	156
Celebration of National Service Scheme Day	24-Sep-2018 1	96
Seminar on Web Development Career Opportunity	23-Sep-2018 1	105
Celebration of International Mother Language Day	21-Feb-2019 1	150
Physical and Medical Test Camp	15-Oct-2018 6	400
Seminar Human Rights and Constitution of India	08-Sep-2018 2	250
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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/Departmen t/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
College	Salary Grant	State Government	2018 365	79969872
College	NSS	University	2018 10	36980
College	INSPIRE	DST	2018 7	1300000
Faculty	Major Research Project	DAE	2018 365	176256
Faculty	Minor research Project	UGC	2018 365	267500
<a href="#">View File</a>				

**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

5

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<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>	
<ul style="list-style-type: none"> <li>• Academic calender is prepared</li> <li>• Academic Audit is conducted</li> <li>• One day workshop on NAAC: New Methodology</li> <li>• One day workshop on Intellectual Property Rights (IPR)</li> <li>• Bridge courses are organize at the beginning of the session</li> </ul>	
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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
To encourage all departments to conduct Conference / Seminars / Workshops/Guest Lecture of Eminent Personalities	<ul style="list-style-type: none"> <li>• Department of Chemistry organized Orientation</li> <li>• Programme for M. Sc. Students</li> <li>• Department of Botany organized Guest Lecture and workshop on Edible Mushroom Cultivation</li> <li>• Department of Mathematics organized a Guest Lecture on Algebra delivered by Dr Muktibodh Ex Head of Department of Mathematics, Mohata Science College, Nagpur</li> <li>• Department of Botany organized Intercollegiate Competition on 'Forest Conservation Day'</li> <li>• Language Department organized Short Term Course in Foreign Language in collaborations with Linguistic Department, RTM Nagpur University, Nagpur</li> <li>• Department of Language organized a Workshop on 'Personality Development and Communicative Skills'</li> </ul>
<a href="#">View File</a>	
<b>14. Whether AQAR was placed before statutory body ?</b>	No
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	No

<b>16. Whether institutional data submitted to AISHE:</b>	Yes
Year of Submission	2019
Date of Submission	06-Jul-2019
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Students submitted application for admission to first semester of B.Sc and BCA on portal shivajionline.com. A merit list is prepared online and students are admitted as per the rules and regulations of RTMNU and State Govt. Institute have Management Information System (MIS) used for :</p> <ol style="list-style-type: none"> <li>1. Prepare a list of students groupwise and section wise.</li> <li>2. Sorting the student's category wise and gender wise.</li> <li>3. Report and analysis of admission is prepared.</li> <li>4. University enrollments form are uploaded</li> <li>5. University Examination forms uploaded</li> <li>6. Prepared all type information about students in a required format.</li> <li>7. Prepared a database for Student Satisfaction Survey.</li> <li>8. The internal marks and practical examination's marks of respective subjects are sent to university.</li> <li>9. The correspondences of AISHE, UGC, University, NAAC are done online.</li> <li>10. The college ID Cards of students, Leaving Certificates, student's data, scholarship forms, etc. are processed online and etc.</li> </ol>

## 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

- College designs its own academic calendar in accordance with the calendar of university for effective implementation of curriculum. College holds a meeting of college council in the beginning of academic session to discuss the action plan. The inputs given by faculty members are noted and discussed in view of their advantages and disadvantages and the appropriate inputs are included in action plan for effective implementation of curriculum.
- All the Head of the Departments conducts their departmental meeting and distributes curriculum/syllabi / Work-load among the staff members and also discusses the various activities to be conducted during the session.
- The principal conducts

meeting with council of heads and approves the academic activities to be conducted during the session. • Time table committee frames the time table and distributes the workload amongst the staff member during the session as per workload prescribed by the university to the permanent, ad-hoc and contributory staff. • Each faculty maintains Academic diary and attendance of students.

Monthly plan of syllabi is displayed on the departmental notice Board • Continuous evaluation is carried out through Unit Tests, Surprise Tests, Home Assignments, Home examination and seminars etc. • The syllabus of the subject is prescribed by the Nagpur University. The overall short description about the syllabus is discussed in the classroom during theory period. The unit wise brief explanation is given to students by using various teaching aids. The particulars and details of the syllabus is available in central library and departmental library. • The annual plan and personal time table of the theory and the practical schedule is worked out by the concerned teacher in the academic diary • The period to period documentations and information with respect to topic taught in the class and experimentation executed during the practical schedule is documented and recorded in the academic diary. • The academic diary is updated daily and the same is checked and signed by the head of department and head of institution at regular interval. • The departmental meetings are conducted to review and discussed about departmental teaching and allied work at regular interval/periodically. • Faculties use all the teaching aids and resources available in the institute for the effective understanding and perception of the students during the direct contact teaching hours. Study material and hand written notes are circulated among the students as additional learning resources. • Students are allotted home assignment and project assignment among the students. • The college encourages the teacher to participate in workshops, seminars, Orientation, Refresher course and conferences. • College has introduced certificate courses and skill based courses in different subjects at college level 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/entrepreneurship	Skill Development
Immuno Diagnostic	0	20/02/2019	72	Pathology Laboratory	Detection of antigen antibody reaction and blood related experiment
Environmental and water management	0	18/02/2019	36	COD Analyzer	Sampling Analysis
Ground Water Exploration	Ground Water Exploration	01/04/2019	36	Consultancy in Ground Water Exploration	Skill to calculate level of ground water using resistivity method
Biofertilizers and Biopesticides	0	18/02/2019	72	Production Unit	Skill for Production with minimum cost
Biodegradable solid	0	18/02/2019	72	Production Unit	Skill for separation

waste management					of bacteria from soil
Statistical Quality Control	0	29/03/2019	30	As a statistical consultant, Data analyst etc	Various techniques to analyse data
Forestry and Wildlife conservation	0	18/02/2019	72	Forest department	Skill development in forest and wild life management

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BSc	PCM	01/07/2018
BSc	PEM	01/07/2018
BSc	PCSM	01/07/2018
BSc	SCSM	01/07/2018
BSc	ECSM	01/07/2018
BSc	CZM	01/07/2018
BSc	CBM	01/07/2018
BSc	CMBT	01/07/2018
BSc	CBG	01/07/2018
BSc	CGM	01/07/2018
BSc	PCG	01/07/2018
BCA	COMPUTER APPLICATION	01/07/2018
MCA	COMPUTER APPLICATION	01/07/2018
MSc	PHYSICS	01/07/2018
MSc	CHEMISTRY	01/07/2018
MSc	MATHEMATICS	01/07/2018
MSc	COMPUTER SCIENCE	01/07/2018
MSc	MICROBIOLOGY	01/07/2018
<a href="#">View File</a>		

### 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
MSc	Microbiology	01/07/2018
MSc	Chemistry	01/07/2018
MSc	Computer Science	01/07/2018
MSc	Physics	01/07/2018

MSc	Mathematics	01/07/2018
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### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	143	31

## 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
MATHEMATICAL MODELLING USING UGC MAPLECERTIFICATE	15/04/2019	32
MATHEMATICAL MODELLING USING MAPLE UGCDIPLOMA	16/04/2019	21
IMMUNO DIAGNOSTICS BIOTECH	20/02/2019	25
ENVIRONMENTAL WATER MANAGEMENT	18/02/2019	17
GROUND WATER EXPLORATION CERT	01/04/2019	11
GROUND WATER EXPLORATION DIPLOMA	01/07/2018	14
BIO FERTILIZER AND BIO PESTICIDES	18/02/2019	11
STATISTICAL QUALITY CONTROL	29/03/2019	16
FORESTRY AND WILD LIFE CONSERVATION	18/02/2019	8
<a href="#">View File</a>		

### 1.3.2 – Field Projects / Internships undertaken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
MCA	Computer Application	6
<a href="#">View File</a>		

## 1.4 – Feedback System

### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	No
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
The College has the mechanism for analyzing student feedback on institutional performance. A feedback from the students is obtained through feedback forms



containing questionnaire on various aspects viz. curriculum, sports, facilities in the department, involvement of teachers etc. The feedbacks and suggestions received are placed before the Principal for corrective measures from time to time. The issues facilitating the students 'responses are resolved promptly.

**Students:** A questionnaire containing 7parameters is prepared to obtain feedback from students to find out the image of the college. A random sample of 150 students is considered. Students have shown their satisfaction in almost all aspects covered in the Feedback form. However, their major demands are: Regular cleaning of wash rooms of block A, provision of WiFi facility to students, proper maintenance of microbiology and chemistry labs, improvement in canteen facility, proper way of giving instructions and notices and improvement in parking facility of students as well as staff. A questionnaire containing 7 parameters is considered to take feedback on individual teacher's performance from students. A random sample of 15 students for every teacher is taken. Four point scales is used to measure the quality level of each aspect.

**Teachers:** Teachers provide their feedback in the meeting of college council, council of heads College Development Committee regarding various needs of the students.

**Parents:** Most of the parents visit the college at the time of admission. Very few parents attend parent's meeting and respond to the feedback. However, time to time we interact with parents either on phone or in person, when they visit our college and always we found that they are happy with the day to day teaching and the conduct of unit tests. But our concern about the response to the feedback from the parents who are unable to contribute due to inability to express their own views regarding enrichment of syllabus, teaching methods etc. There is formal mechanism to collect the feedback on curriculum. The college designed the questionnaire for obtaining feedback on curriculum from different sources.

- Students: Through feedback form
- Parents: Through ParentTeacher Meet
- Alumni: Through Alumni Meet
- Industries: During placement drive
- Academic Peers: At the time of Conference, Workshops, Seminars, Guest lectures

The feedback collected is analysed and discussed in IQAC meetings. The principal and senior staff members have interactions with the students regarding the content of curriculum which is communicated to the university through the members of BoS. Faculty members participate in the workshop on curriculum and communicate the requisite changes to the concerned authorities.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BSc	Science	520	3758	520
BCA	Computer Application	120	0	0
MSc	Physics	22	0	22
MSc	Chemistry	22	0	22
MSc	Mathematics	22	0	22
MSc	Microbiology	22	0	22
MSc	Computer Science	40	0	40
MCA	Computer Application	30	0	0

[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
2018	1575	260	31	47	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	Number of smart classrooms	E-resources and techniques used
69	31	6	27	2	3

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

The formal Mentor Mentee system is a longstanding tradition of the college. Every teachers an academic mentor for few students whom she/he consistently monitors for Academic and Personal issues over the period of study. The mentor looks into matters regarding the mentee academic performance, completion of academic requirements, health followups and grievances if any. The mentor also interacts with the parents on issues related to academics. The college has followed the recommendation made by NAAC and introduces the structured mentoring system since first cycle the aim of the system is to enhancing the students' performance. The full time teacher and also Adhoc teacher of the college engaged as a mentor for each batch. The faculty members in each department identify three levels of learners i, e weak, average and advance learners and try for their better performance. At the beginning of the session, the batch wise name of the mentor is displayed. The mentor conducts orientation for mentees whereby they acquainted with the college, its vision and mission and also facilities available. The mentor maintained the detail information including educational background and socioeconomic status. They are also maintained the record of their class attendance, class performance and academic progress. The mentor uses formal and informal means of mentoring. The mentors provide primary psychological counselling for their personal difficulties and remedies are also suggested. Time to time counselling is done to solve their personal difficulties. Students are constantly encouraged to participate in various curricular and extracurricular activities. Curriculum based program were organized to develop scientific temperament among students. Mentors are also encouraged to read reference books, text books as well as other knowledgeable books to gain the more information about curriculum and extra curriculum. They are also encouraged to prepare for competitive examination. Major Issues Addressed: • The program addresses various academic, careers, personal issues to facilitate overall performance of students and evaluation of students based on various factors. • Guide students for better performance and provide books, notes, etc. and help students to perform better. • Group activities such as seminars, tests etc. are conducted to improve overall development and encourage team work. • Parent teacher meetings to work towards common goal of student development. • Constant feedback from students and parents to improve the working of Teacher mentor Program. Overview of the Activities Throughout the year, the teachers conduct various activities such as visits to organizations, birthday celebrations, parent teacher meetings. Special tests were conducted as group activity to inculcate team spirit and to remove unhealthy competition among the students. This activity was appreciated by students and their parents. Students also discussed their family problems with their mentors. Mentors visited the students place to know about their family background. In all efforts are taken for development of students to boost inclusiveness, gender sensitivity and social responsibilities of students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
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1835	69	1:26
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## 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
56	31	25	0	27

### 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
2018	NA	Assistant Professor	NA
<a href="#">View File</a>			

## 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
MCA	Computer Application	IV	16/04/2019	05/07/2019
MCA	Computer Application	VI	16/04/2019	11/07/2019
BSc	Science	II	06/05/2019	05/08/2019
BSc	Science	IV	09/05/2019	01/08/2019
BSc	Science	VI	06/05/2019	28/06/2019
BCA	Computer Application	II	08/04/2019	30/05/2019
BCA	Computer Application	IV	08/04/2019	13/06/2019
BCA	Computer Application	VI	08/04/2019	30/05/2019
MSc	Chemistry	II	08/04/2019	11/06/2019
MSc	Chemistry	IV	10/05/2019	20/06/2019
MSc	Physics	II	08/04/2019	10/06/2019
MSc	Physics	IV	10/05/2019	20/06/2019
MSc	Computer Science	II	08/04/2019	11/06/2019
MSc	Computer Science	IV	10/05/2019	24/06/2019
MSc	Microbiology	II	08/04/2019	20/08/2019
MSc	Microbiology	IV	16/04/2019	30/08/2019

MSc	Mathematics	II	08/04/2019	24/05/2019
MSc	Mathematics	IV	10/05/2019	26/06/2019
MCA	Computer Application	II	15/04/2019	05/07/2019
MCA	Computer Application	IV	16/04/2019	05/07/2019
MCA	Computer Application	VI	16/04/2019	11/07/2019
<a href="#">View File</a>				

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

The College takes the following initiatives for continuous internal evaluation::

- The information about the tentative dates of time table of examinations such as unit tests, surprise tests, terminal/test examination, and internal assessment is given in the prospectus, notices, academic calendar.
- The Principal discusses the norms of evaluation norms in the meeting of college council.
- A detailed time table for terminal/test examination and submission of assignment is put up on the notice board well in advance to help the students to plan and prepare effectively.
- The report of evaluation is made available to all stakeholders during the address by the principal and at the time of parentteacher meet.
- The valued answer books of test examination are given to the students by respective teachers. The model answers are discussed with the students. The results of these examinations are also communicated to parents.
- The concerned department maintains the record of internal assignments.
- At the beginning of each semester, every teacher informs students about the scheme of marking for internal assessment.

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

The college prepares academic calendar and event calendar in the beginning of the session taking into account the academic calendar of university for effective implementation of curriculum. The college organize a meeting of HODs and college council to discuss the action plan. The suggestions given by faculty members are discussed and according to merit and implemented. Syllabi of all the skillbased courses are designed by the respective coordinators of the college and then submitted to university. IQAC plays an important role in design, development and deployment of action plan. It coordinates and monitors the academic activities throughout the year. The heads of all the departments conduct their departmental meeting for distribution of curriculum/syllabi / workload among the staff members and to discuss the various activities to be conducted during the session. The heads of all the departments conduct their departmental meeting for distribution of curriculum/syllabi / workload among the staff members and to discuss the various activities to be conducted during the session

- The principal conducts meeting with council of heads and approves the academic activities to be conducted during the session.
- Time table committee frames the time table and allots the number of periods as per workload prescribed by the university
- Each faculty maintains Academic diary and attendance of students. Monthly plan of syllabi is displayed on the departmental notice Board
- Continuous evaluation is carried out through Unit Tests, Surprise Tests, Home Assignments, Home examination etc.
- College faculty members actively participate in the syllabus restructuring workshop, seminars and conferences
- Feedback mechanism helps for effective implementation of curriculum

The college prepares academic calendar and event calendar in the beginning of the session taking into account the academic calendar of university for effective implementation of curriculum. The college

organise a meeting of HODs and college council to discuss the action plan. The suggestions given by faculty members are discussed and according to merit and implemented. Syllabi of all the skillbased courses are designed by the respective coordinators of the college and then submitted to university. IQAC plays an important role in design, development and deployment of action plan. It coordinates and monitors the academic activities throughout the year. The heads of all the departments conduct their departmental meeting for distribution of curriculum/syllabi / workload among the staff members and to discuss the various activities to be conducted during the session. The heads of all the departments conduct their departmental meeting for distribution of curriculum/syllabi / workload among the staff members and to discuss the various activities to be conducted during the session • The principal conducts meeting with council of heads and approves the academic activities to be conducted during the session. • Time table committee frames the time table and allots the number of periods as per workload prescribed by the university • Each faculty maintains Academic diary and attendance of students. Monthly plan of syllabi is displayed on the departmental notice Board • Continuous evaluation is carried out through Unit Tests, Surprise Tests, Home Assignments,

## 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://sscnagpur.ac.in/uploaded\\_files/Student-Satisfaction-Report-2018-19.pdf](http://sscnagpur.ac.in/uploaded_files/Student-Satisfaction-Report-2018-19.pdf)

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
Sem III	MSc	Computer Science	35	31	88.67
Sem IV	MSc	Computer Science	34	34	100
Sem V	BSc	Science	417	304	72.9
Sem VI	BSc	Science	427	341	79.85
Sem V	BCA	Computer Application	80	37	46.25
Sem VI	BCA	Computer Application	81	52	52.63
Sem III	MSc	Physics	19	10	52.63
Sem IV	MSc	Physics	19	12	63.22
Sem III	MSc	Chemistry	22	17	73.9
Sem IV	MSc	Chemistry	22	9	40.90
Sem III	MSc	Mathematics	16	9	56.24
Sem IV	MSc	Mathematics	15	10	66.66
Sem III	MSc	Microbiology	22	22	100
Sem IV	MSc	Microbiology	22	22	100
Sem III	MSc	Computer Science	35	31	88.67

Sem IV	MSc	Computer Science	34	34	100
<a href="#">View File</a>					

## 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://sscnagpur.ac.in/uploaded\\_files/Student-Satisfaction-Report-2018-19.pdf](http://sscnagpur.ac.in/uploaded_files/Student-Satisfaction-Report-2018-19.pdf)

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	365	DAE	23	1.76
Minor Projects	365	UGC	3.75	2.67
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### 3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
One day workshop on Intellectual Property Rights (IPR)	Mathematics	18/04/2019
Workshop on computer Assisted spectroscopic data interpretation technique in collaboration with Department of Physics RTM Nagpur University, Nagpur	Physics	07/01/2019

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
Scholarship for higher education	Gupta Labhesh Ashokkumar	DST	22/05/2019	INSPIRE
Scholarship for higher education	Sharma Manisha	DST	22/05/2019	INSPIRE
Scholarship for higher education	Mohitkar Aditi	DST	22/05/2019	INSPIRE
<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
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No Data Entered/Not Applicable !!!

No file uploaded.

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
No Data Entered/Not Applicable !!!		

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

Name of the Department	Number of PhD's Awarded
Physics	2
Chemistry	1
Zoology	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Microbiology	22	2
International	Zoology	3	2
National	Zoology	2	2
International	Biotechnology	3	2
National	Chemistry	1	0
International	Chemistry	5	2
International	Physics	5	2
National	Physics	1	0
International	Mathematics	8	2
International	Botany	2	0

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#### 3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Mathematics	1

[View File](#)

#### 3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Present state of Leech Pauna in Melghat Region	S S Deshmukh	Ajanta ISSN 22775730	2018	0	0	0

Magnetic study of Aluminium and Cobalt mixed Lithium Ferrite synthesized by standard Ceramic method	S S Darokar	AIP Conference Proceedings 2014	2019	0	0	0
Magnetic study of Aluminium and Cobalt mixed Lithium Ferrite synthesized by standard Ceramic method	S S Darokar	AIP Conference Proceedings 2014	2019	0	0	0
Foucault's Pendulum Exploration using MAPLE 18 Samarium doped ZnO nanofibres for designing OrangeRed light emitting fabrics	S W Anwane	Resonance	2019	0	0	0
Samarium doped ZnO nanofibres for designing OrangeRed light emitting fabrics	S W Anwane	Materials today: Proceedings	2019	0	0	0
Bacterial nanocelluloses membranes combined with nisin: A strategy to prevent	Pandit R	Cellulose : international	2019	3	0	3



microbial growth						
Emerging role of nanobiocatalyst in hydrolysis of lignocellulosic biomass leading to sustainable bioethanol production	Pandit R	Catalysis Review Science and Engineering International	2019	6	0	6
Removal of Pb <sup>2+</sup> from dilute aqueous solution using modified GAC in batch mode	R U Khope	International Global Journal of Multidisciplinary studies Vol.8	2019	0	0	0
Assessment of Lead removal from aqueous matrices by adsorption on activated carbon	R U Khope	International EResearch Journal	2019	0	0	0
Synthesis and Characterization of 1245 Tetrazines	R A Deshmukh	ISSN: 23487143 February 2019	2019	0	0	0
Studies on Physico-Chemical properties of 'o' Diethyl Quinoxaline 2-Yl Phosphorothioate for quality control	R D Urkude	ISSN: 23487143 February 2019	2019	0	0	0
Bioefficacy of ACyano Pyrethroid	R D Urkude	ISSN: 23488374 February 2019	2018	0	0	0

and Phenyl Organothio phospahte insecticide against H Armigera on Pigeon pea						
Anacardium occidentale Extracts : A proposed multifaceted approach to combat Staphylococcus aureus infection	C J Chandekar, Pranita Gulhane	International Journal of Current Research in Life Sciences	2018	0	0	0
Antibacterial investigations of crude extracts of Anacardium occidentale on Pseudomonas aeruginosa	C J Chandekar, Pranita Gulhane	International Journal of Current Innovation Research	2018	0	0	0
Antimicrobial activity of leaves of Acacia arabika against Pathogenic Organisms Compared with Control Drug	C J Chandekar	International Journal of Current Microbiology and Applied Sciences	2018	0	0	0
Indian Spices: A Global Benefit To Health	C J Chandekar	Asian Journal of Science and Technology	2018	0	0	0
Inhibitory Potential of Rose Petals Extracts: An Attempt to	C.J. Chandekar and Pranita A. Gulhane	International Journal of Current Microbiology and Applied	2019	0	0	0

Annihilate Staphylococcus aureus		Sciences				
Evaluation of Antibacterial Activity of Plant Extracts on Antibiotic Resistant Bacteria	C.J. Chandekar and Pranita A. Gulhane	International Journal of Current Microbiology and Applied Sciences	2019	0	0	0
Antibacterial activity of Broccoli Extracts against Pseudomonas aeruginosa	J Chandekar	International Journal of Current Microbiology and Applied Sciences	2018	0	0	0
Acidic Pretreatment of Sugar cane molasses for citric acid production by Aspergillus niger NG4	J Chandekar	International Journal of Emerging Technologies and Innovative Research	2018	0	0	0
Antiadhesive properties of biosurfactant against Pseudomonas aeruginosa	C J Chandekar	International Journal of Engineering Development and Research	2018	0	0	0
Natural Plant Extracts: A Novel Therapy for Shelf Life Extension and Quality Retention of Fruits	C J Chandekar	International Journal of Engineering Development and Research	2018	0	0	0
Natural Plant	Pranita A. Gulhane,	International	2018	0	0	0

Extracts: A Novel Therapy for Shelf Life Extension and Quality Retention of Fruits	Namrata G. Shukla and Ashok V. Gomashe	Journal of Engineering Sciences and Research Technology				
Comparative Study of chemical and herbal Disinfectants on Multidrug Resistant Pseudomonas aeruginosa	Pranita A. Gulhane, Namrata G. Shukla and Ashok V. Gomashe	International Journal of Current Research and Academic Review	2018	0	0	0
Efficacy of Copper Metal on Probiotic Bacteria to Combat Dysbiosis	Pranita A. Gulhane, Priya V. Balbudhe and Namrata G. Shukla	International Research Journal of Pharmacy and Medical Sciences	2018	0	0	0
Formulation of Vegetable Compost for Growth Enhancement of Vigna radiata A sustainable Approach towards Organic Farming	Pranita A. Gulhane, Priya V. Balbudhe and Namrata G. Shukla	International Journal of Applied and Pure Science and Agriculture	2018	0	0	0
Anacardium occidentale Extracts: A Proposed Multifaceted Approach to Combat Staphylococcus aureus Infection	Mamta Marar, Pranita A. Gulhane and Chandekar C.J.	International Journal of Current Research in Life Sciences	2018	0	0	0
Antibacter	Mamta	International	2018	0	0	0

ial Invest igations of Crude Extracts of Anacardium occidental e on Pseud omonas aeruginosa	Marar, Pranita A. Gulhane and Chandekar C.J.	nal Journal of Current Innovation Research				
Inhibitory Potential of Rose Petals Extracts: An Attempt to Annihilate Staphyloco ccus aureus I	C.J. Chandekar and Pranita A. Gulhane	Internatio nal journal of Current Mi crobiology and Applied Sciences	2018	0	0	0
ndian Spices: A Global Benefit to Health	C.J. Chandekar and Pranita A. Gulhane	Asian Journal of Science and Technology	2018	0	0	0
Prevalence of Pseudom onas sp. in Urine Samples of Female Students and their AntiDrug Potential against some Common Ant ibiotics	Pranita A. Gulhane	Research Directions Journal	2019	0	0	0
Bioaerosol s in ENT Hospitals: A Threat for Nosocomial Infection	Pranita A. Gulhane	Internatio nal Journal of Creative Research Thought	2019	0	0	0
Acidic Pre treatment of Sugar cane molasses for citric acid production by Aspergi	Ritu Kurve, Anjali Sharma and C.J. Chandekar	Internatio nal Journal of Emerging T echnologie s and Innovative Research	2018	0	0	0

llus niger NG4						
Antiadhesive properties of biosurfactant against <i>Pseudomonas aeruginosa</i>	Ritu Kurve, Anjali Sharma and C.J. Chandekar	International Journal of Engineering Development	2018	0	0	0
Application of Manifold Sensors in wireless Digital Thermometer	M J Hedau	IJCSR	2019	0	0	0
A Novel Approach to Bluetooth and Zigbee with WBAN	S M Ghatole	IJESR	2019	0	0	0
Design and Implementation of Fuzzy logic Techniques for ACS	S M Ghatole	IJRAR	2019	0	0	0
WBAN Enabled Advancement in Bluetooth and Zigbee	S M Ghatole	IJRAR	2019	0	0	0
Advancement in Smart Biomedical wearable with Technical Challenges	S M Ghatole	SSRG	2019	0	0	0
<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
Foucault's Pendulum Exploration Using	S W Anwane	Resonance	2019	0	0	0

MAPLE18						
Samarium doped ZnO nanofibers for designing orange red light emitting fabrics	S W Anwane	Materials Today: Proceedings	2019	0	0	0
Samarium doped ZnO nanofibers for designing orange red light emitting fabrics	S W Anwane	Luminance	2018	0	0	0
An efficient synthesis of trisubstituted purine via unusual coupling of Nphthaloyl derivatives of amino acids	J K Gunjate	International Journal of ChemTech Research 5 (6):302330 31 ...	2018	0	0	0
Effect of different tree canopy soils on growth and quality of orange seedlings rootstock	R D Urkude	Plant Archives 2015 Vol.15 No.2 pp.10 971099 ref.5	2018	0	0	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	3	40	5	0
Presented papers	2	10	2	0
<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
Swami Vivekanand Jayanti	NSS	4	100
Ceremonial Parade on Republic Day	NCC	3	50
Blood donation camp	NSS	4	145
Tree Plantation	NSS and NCC	4	50
Nivadnuk Shaksharta club :Impotence of voting	NSS	3	300

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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NA	NA	NA	0

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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/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swaccha Bharat Abhiyan	NSS and NCC unit of the college	Cleanliness drive in the college campus	6	55
International Yoga Day	NCC Unit	Demonstration and practice of Yoga	2	40
Cancer Awareness Programme	Staff Welfare	Guidance on Cancer awareness and prevention measures	2	100
Voter day Programme	NSS Unit	Voters rally conducted and inspire the voters to vote in forthcoming election.	2	100

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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
NA	0	0	0



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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
NA	NA	NA	01/07/2018	18/07/2019	0

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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
NA	01/07/2018	NA	0

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## 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
20	12.89

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Others	Newly Added

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### 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
LIBMAN	Fully	web 0.2	2011

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	39720	7243506	505	210000	40225	7453506
Reference Books	2614	2125610	153	128465	2767	2254075
e-Books	62	85850	7	3960	69	89810
Journals	27	63303	0	0	27	63303
Digital Database	0	0	0	0	0	0
CD & Video	520	39960	8	3200	528	43160
Library Automation	1	0	0	0	1	0
Weeding (hard & soft)	0	0	0	0	0	0
<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
Dr S W Aneane	Special Relativity using 4Vectors (59 Min)	YOUTUBE	09/02/2019
<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	312	150	462	20	40	15	87	20	0
Added	0	0	0	0	0	0	0	0	0
Total	312	150	462	20	40	15	87	20	0

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

20 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
Dr S W Anwane	<a href="#">1. 2019 Special Relativity using 4-Vectors (59 Min)</a> <a href="#">2. 2018 N-R Method – An Interactive Approach (39 Min)</a> <a href="#">3. 2018 Generating Least-Square Equations (37 Min)</a> <a href="#">4. 2018 Demonstration of B-H Curve experiment (5 Min)</a> <a href="#">5. 2018</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
15	19.61	25	30.72

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)

For effective teaching and learning, the policy for creation and enhancement of infrastructure is framed in accordance with the growing need of the college. The proposals from all the departments are invited for creation, innovation and enhancement of infrastructure. Further the same is discussed in the meeting of council of heads and college council. Its conclusions are placed before CDC for approval and then college building committee finalizes the proposal on priority basis. The management liberally provides funds for the execution of infrastructural enhancement. A provision is made in financial budget for the maintenance and minor repairs of furniture and equipments. The management approves and allocates the funds. Day to day cleaning is carried out by outsourcing. The Electronic equipments/instruments are maintained and repaired through the college funds. The college has an AMC for maintenance of computers, networking facilities, ACs, water purifier, generator and lift. The maintenance and improvement of the campus is undertaken with the help of the local administration and Municipal Corporation

[http://sscnagpur.ac.in/uploaded\\_files/Procedure-and-Policies-18-19.pdf](http://sscnagpur.ac.in/uploaded_files/Procedure-and-Policies-18-19.pdf)

### CRITERION V – STUDENT SUPPORT AND PROGRESSION

#### 5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	WELFARE	8	83270
Financial Support from Other Sources			
a) National	GOI	798	3128055
b) International	0	0	0
<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
Study Skill	02/07/2018	40	College
Business Writing	04/07/2018	50	College
Personality Guidance Program	19/07/2018	30	Paramhans Ramkrishna Math Dhantoli Nagpur

Creating opportunities in Paramedical transforming the future of Health Care	14/08/2018	150	Founder and Chairman of IT Transform
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	IIT JAM	17	0	5	1
<a href="#">View File</a>					

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
0	0	0

## 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
Concetreix, Tata Trust, Sapology, HCL,	315	23	Accenture, Capgemini, Infosys, Wipro, TCS, ATOS	18	17
<a href="#">View File</a>					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	13	B.Sc	Chemistry	post graduate institute	M.Sc
2019	2	B.Sc	Botany	Christ University Bangalore	M.Sc
2019	3	B.Sc	Botany	Post graduates institute	M.Sc
2019	3	B.Sc	Zoology	Post	M.Sc

				graduates institute	
2019	10	B.Sc	Electronics	Colleges and PGTD	M.Sc, MCA
2019	50	B.Sc	Computer Science	Colleges and PGTD	M.Sc, MCA
2019	4	B.Sc	Microbiology	Colleges and PGTD	M.Sc
2019	4	B.Sc	Statistics	Institute of Science and PGTD	M.Sc
<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
<b>No Data Entered/Not Applicable !!!</b>	
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Yuva Mahostav	College	350
<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	Colour Holder	National	1	0	0	Mr Akshay N sakore
2019	Colour holder	National	1	0	0	Mr Rutupurna Zod
2019	Colour holder	National	1	0	0	Mr Samiksha s Landge 4 Dhanashree Thakre 5 Ku Ankita J Sawarkar 6 Mr Santanu V inikar0
2019	Colour holder	National	1	0	0	Dhanashree Thakre
2019	Colour holder	National	1	0	0	Ku Ankita J Sawarkar
2019	Colour	National	1	0	0	Mr Santanu

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

1. Floral Tributes were paid to Lokmanya Bal Gangadhar Tilak on his Death Anniversary observed on 1st August 2018. 2. 'Independence Day' was celebrated in the presence of students and staff members of the college. 3. Teachers Day' celebrated on the occasion of Birth Anniversary of Dr. Sarvapalli Radhakrishnan. 4. Birth Anniversary of Mahatma Gandhi and Former Prime Minister Lal Bahadur Shastri celebrated on 2nd October 2018. 5. The Death Anniversary of Rashtrasant Tukdoji Maharaj was observed on 11th October 2018 6. "Mahaparirwan Din" of Dr. Babasaheb Ambedkar was observed on 6th December 2018 by offering floral tributes to him. 7. Student's council celebrated 120 Birth Anniversary of Shikshan Maharshi Dr. Panjabrao Alias Bhausahab Deshmukh. 8. Floral tributes were paid to Hon'ble Dr. Panjabrao Alias Bhausahab Deshmukh on 27th Dec. 2018 in the college as well as at Maharaj Bag Square in the presence of Hon. Mayor Nandatai Gighkar. Society flag was also hoisted at the hands of Principal Dr. C. J. Chandekar in the presence of staff members on this occasion in the college. 9. World Heritage Day was organized on 12th Jan. 2019` in the presence of Principal and staff members and birth anniversary of Swami Vivekanand was also celebrated on this occasion. 10. Yuva Mohotsav "KARVAN " and Cultural Day was celebrated by students of the college on 2nd February 2019. This activity help student to prepare them for real life and strengthening their personal skill and Leadership qualities. 11. Student Participated in Intercollegiate Cultural Programme YUVARANG organized by R.T.M. Nagpur University Nagpur 12. Chatrapati Shivaji Maharaj Jayanti was celebrated on 19th February 2019 by offering Floral Tributes to him

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The college has an active alumni association registered with Charity Commissioner vide registration No. MAH1575/12(N) dated 21/12/2012 as per society's registration Act 1860. Alumni Association organizes social academic programmes including interactions between alumni students. Alumni association generates the fund for academic and infrastructure development. Dr. Avinash Rode, President of Alumni Association of the college spares his services for the medical care of staff and students. Alumni Association helps to groom the leadership at various levels. Guest's lectures are organized to counsel students for the competitive examination. Alumni Association also provides financial assistance to economically backward students. Alumni Association instituted a scholarship of Rs. 10,000/ for three Economically Backward Students every year.

5.4.2 – No. of enrolled Alumni:

0

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

Meeting organized

#### 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)

- Local Management Committee (LMC) is constituted as per the Maharashtra University Act. Three teachers and one nonteaching staff members represent LMC.
- The faculty members are involved in the decision making process during the meeting of college council, the council of heads and the IQAC. The conveners of various committees also have involvement in the decisions and deliberations of the meeting.
- The important suggestions regarding college development are conveyed by Principal through regular staff meetings. The regular meetings of students' council are organized with a view to obtain feedback and suggestions from the students for better implementation

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
Teaching and Learning	<ul style="list-style-type: none"><li>• Faculties are provided with all essential facilities for effective teaching.</li><li>• The department wise curriculum plan is prepared for Annual/Semester pattern examination.</li><li>• Teachers are encouraged to use audiovisual instruments like LCD projector, OHP, PPT, molecular models and charts.</li><li>• To improve the quality of teaching, management encourages the faculty to attend orientation courses, refresher courses, workshops and seminars.</li><li>• The teaching performance of faculty is evaluated through PBAS proforma.</li><li>• The faculties are suggested to use interactive method for better learning.</li><li>• The academic progress of the Students is evaluated through internal assessment</li></ul>
Curriculum Development	<ul style="list-style-type: none"><li>• The curriculum is designed by RTMNU and mandatory to all affiliating colleges.</li><li>• College designs its own academic calendar in accordance with the calendar of university for effective implementation of curriculum.</li><li>• It has been the usual practice to hold a meeting of college council in the beginning of academic session to discuss the action plan.</li><li>• The inputs given by faculty members are noted and discussed in view of their merits and demerits</li><li>• The institution encourages the faculty to organize the workshops in the college and attend the workshops organized by other colleges in various subjects on the syllabus framed by the</li></ul>

university. • The institution inspires the faculty to organize and attend national/international seminars/conferences

Examination and Evaluation

? Examination and Evaluation: The institution takes the following measures for internal and external evaluation processes: Internal Assessment The information about the tentative dates of time table of examinations such as unit tests, surprize tests, terminal/test examination, internal assesment is given in the prospectus , hand book, notices, academic calender and website. • The principal discusses the norms of evaluation in the meeting of college council. • A detailed time table for terminal/test examination and submission of assignment is put up on the notice board well in advance to help the students to plan and prepare effectively. • The report of evaluation is made available to all stakeholders during the address by the principal and at the time of parentteacher meet. The Evaluation Reforms Initiated By College: • The concerned department maintains the record of internal assignments. • At the beginning of each semester, every teacher informs students about the scheme of marking for internal assessment. • The college conducts surprize tests, terminal examination, vivavoce etc. for assesment and evaluation of the students. • As per the direction of university, 10/15 marks are assigned for internal assessment for each paper of different subjects. The students are assessed on the basis of class test, attendance, project assignments, seminar, study tours, industrial visits, visit to educational institutions and research organizations, field work, group discussions or any other innovative practice / activity.

Research and Development

• Research Committee is established in the college to promote monitor research culture. • Dissemination of information about forthcoming workshops, seminars and conferences. • 19 faculty members are recognized by University as a Supervisor. • 04 students awarded Ph.D under the supervision of faculty members • Five Departments are



recognized as a place of Higher Learning and Research. • Incentives are given to teachers for publication of their research work in peer reviewed Journals in the form of cash prize. • Best Researcher award is instituted at institute level.

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

E-governance area	Details
Planning and Development	<ul style="list-style-type: none"> <li>• The college organizes workshops for nonteaching staff to encourage them and to improve their working skills and sometimes the same is organized at parent society level.</li> <li>• Computer Literacy programme.</li> <li>• College domain mail facilities</li> <li>• Libman websoftware is installed for effective management of library.</li> <li>• Administrative office is well equipped with computers, printers, photocopiers, fax etc</li> </ul>
Administration	The campus is under surveillance of CCTV. Master software is used for office management including admission data, Identity Card, Library Card, Transfer Certificate, Character /Attempt Certificate, etc
Finance and Accounts	Master software is used for office management including accounting, Fee Collection, Scholarship etc
Student Admission and Support	<ul style="list-style-type: none"> <li>• Centralized Campus Management System (CCMS) Software is used for online admission process of B.Sc. Online centralized process for admission of P.G. Courses is carried out by parent University.</li> <li>• The detail information about the admission process is available on the website: <a href="http://www.sscnagpur.edu.in">www.sscnagpur.edu.in</a></li> <li>• The Seminar Room and Conference Hall is well equipped with multimedia and are used frequently for conducting seminars and talks by experts.</li> <li>• Entire campus is WiFi enabled</li> <li>• Open access for teachers and PG students.</li> <li>• MOPAC (Mobile Open Access Catalogue) facility is available.</li> <li>• SMS facility is provided to student for book issue/return.</li> <li>• Library is equipped with INFLIBNET system.</li> <li>• Digital Library with 20 computers having internet facility.</li> </ul>
Examination	Unit test, Surprise Test, Home exam

#### 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
<b>No Data Entered/Not Applicable !!!</b>				
<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)
<b>No Data Entered/Not Applicable !!!</b>						
<a href="#">View File</a>						

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Refresher course Sheetal Deshmukh	1	17/09/2018	07/10/2018	21
Online course A M Pumd	1	01/02/2019	03/03/2019	60
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
5	5	0	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
100 Fees concession in the admission	100 Fees concession in the admission	Fees concession given to physically challenge students

## 6.4 – Financial Management and Resource Mobilization

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

The college has internal and external audit mechanism. • The internal audit is carried out by the parent society and also by the charter accountant appointed by the management. • The external audit is carried out by Senior Auditor and Accountant General of Maharashtra State. Assessment of disbursement of salary and nonsalary grant is carried out by Joint Director Higher Education, Nagpur Division

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
<b>No Data Entered/Not Applicable !!!</b>		
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6.4.3 – Total corpus fund generated

10000000
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**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		Yes	IQAC
Administrative	Yes	Joint Director	Yes	Parent Society

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

- The teachers are regularly in contact with parent through mentor schemes and provide the development and progress of their child.
- Valuable suggestions of teachers are accepted by parents for improvement of their child.
- The parents are invited by teachers at department level.

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

- Training programme on computer awareness organized for nonteaching staff
- Workshop on office administration
- Workshop organized by ICC for awareness on Sexual Harassment Act 2013

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

- Strengthened the career, counseling and guidance cell, research cell and extension activities cell
- Improved on campus placement through placement cell
- Strengthened the students labs and add relevant new titles and journals in the library
- Established a central instrumentation facilities for teaching and research

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	One day workshop on NAAC: New Methodology	16/04/2019	16/04/2019	16/04/2019	30
2019	One day workshop on	18/04/2019	18/04/2019	18/04/2019	32

	Intellectual Property Rights (IPR)				
2018	Seminar on Web Development Career Opportunity	23/09/2018	23/09/2018	23/09/2019	108
2019	Physical and Medical Test Camp	15/01/2019	15/01/2019	20/01/2019	400
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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
One day seminar on Legal Awareness regarding rules and laws and gender equality 25/2/2019	25/02/2019	25/02/2019	130	72

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
NSS and Cultural committees of the college organised a lecture and various program for environmental consciousness and sustainable• Water harvesting arrangements are made in girl's hostel, BlockA, BlockBand newly constructed BlockC. The rain water collected at rooftop is channelized into the dugwell. •?Rain water is used as distilled water in the department of Chemistry. • Soak pits are dug at sloppy areas in the campus. • Regular plantation of saplings in the campus and maintenance of the same by NCC / NSS students for achieving carbon neutrality •?Efforts have been taken to make plastic free campus • Use of solar water heater •?Installation of solar power unit •?Installation of solar panel for street lights development. Tree plantation programmes at our college and nearby villages were also organised. Percentage of power requirement of the College met by the renewable energy sources : 25

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	5
Ramp/Rails	Yes	5

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational	Number of initiatives taken to engage with	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
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	advantages and disadvantages	and contribute to local community					
2019	1	1	18/10/2018	2	free Refreshment Stall	Deekshabhoomi	20
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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)
College Magazine	16/07/2018	The college magazine 'BHARTI' is published annually and distributed to students which include many ethical stories, short biographies, articles etc. the aim of the magazine is to inculcate ethical values among students. Moreover time to time cultural programmes are also organised to encourage students to participate in ethical practices, moral values based programmes etc.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Death anniversary of Lokmanya Bal Gangadhar Tilak	01/08/2018	01/08/2018	165
Birth anniversary of Ranganathan	09/08/2018	09/08/2018	150
Teachers Day	05/09/2018	05/09/2018	400
Independence Day	15/08/2018	15/08/2018	100
Birth anniversary of M.K. Gandhi and Lal Bahadur Shastri	02/10/2018	02/10/2018	100
Birth anniversary of Dr.PanjabraoDeshmukh	27/12/2018	27/12/2018	300
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Emphasis on more plantations to make environment clean and green.
- Use of polythene is strictly prohibited.
- A campus cleaning programme is organized by NSS and NCC during Gandhi Jayanti.
- Saplings to guests instead of Cut flowers and Bouquets
- Awareness programme like distribution of earthen pots for birds during summer, ecofriendly holi and rakhi are organised.

## 7.2 – Best Practices

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

**Best Practice I**

1. Title of Practice "Soilless Rooftop Organic Farming" 2. Goal: To provide low cost ecofriendly farming, an alternative to retrench agricultural land. 3. The context: The agriculturists in India are facing a big problem of supplying food to ever increasing population as agricultural land is decreasing due to fast growing urbanization and industrialization. The food we consume is contaminated due to extensive use of pesticides/insecticides/chemical fertilizers. The quality of soil is also degraded. These problems need to be addressed. An alternative solution to overcome above problems is the Soilless Rooftop Organic Farming, wherein use of vermicompost and harmless biopesticides are promoted. 4. The practice: Staff students of the college initiated the concept of Rooftop Organic Farming. 9' X 6' feet container is designed with underlying polymer sheets. Cocopeat and vermicompost is added in the peat in 60:40 ratios with addition of 1 kg azoatobactor and 1 kg neem powder. New type of CSIS irrigation system containing central pipe and four crossed pipe at subsurface region is used. Green nets are provided over the kits. During rainy season, it is further covered with plastic sheets. The ideas are derived from green house. The attributes of green house are inculcated in this practice. All small rooted crops can be cultivated such as chillis, brinjal, tomato, spinach, corriender, fenugreek, cucumber, bitter gourd, cabbage etc. 5. Evidence of Success: Students participated in 5th Indian Youth Science Congress Kolkata and 6th Indian Youth Science Congress, Guntur (A.P.), where the project on "Soilless Roof Top Organic Farming" was selected as 3rd most relevant innovation to solve zero hunger challenge at national level. The vegetables produced through this best practice are sold to the staff member and nearby locality and also used in girls' hostel mess. Prof. M. S. Swaminathan, father of green revolution visited the college and appreciated the project. Our students of B. Sc. Biotechnology have developed the further technology called HydroponicOrganic roof top farming, which is cost effective as compared to conventional Soilless Roof Top Organic Farming. This project was displayed at Raman Science Centre, Nagpur. 6. Problems encountered and resources required: Polymer sheets, Cocopeat, vermicompost, azoatobactor, neem powder, CSIS irrigation system, pipes, Green nets and plastic sheets. 7. Notes: The source of this project is available in the form of CD, PrintMedia. Expertise on this project is available. The various News Channels and Print Media made this concept of "Soilless Roof Top Organic Farming" popular. Links: [www.youtube.com/watch?vNg3hsRZ16ts](http://www.youtube.com/watch?vNg3hsRZ16ts) <http://www.nagpurto day.in/rooftoporganicfarminganauniqueinitiativebythestudentsofshivajiscience/02032152>

**2. Best Practice II**

1. Title of the practice : Residential Camp on "An Awareness About Future In Basic Sciences" 2. Goal: The goal of the residential camp is to encourage brilliant students to take up basic sciences as career, to inculcate culture of science among new generation, to encourage them to carry out research in basic sciences and to expose them to new avenues and related career opportunities. 3. The context: The college has great potential and provides many career opportunities to the students. However, the present scenario depicts that the best brain go to medical and engineering streams and other professional courses. Therefore it is necessary to encourage young talent to take up science as career. In order to motivate young and enthusiastic brains in the field of research, Department of Science and Technology, New Delhi sponsored an awareness programmeInnovation in Science Pursuit for Inspired Research (INSPIRE) for the students. The college is a premier institute in Central India and has potential to attract brilliant students in and around the region. To materialize the goal, the college organizes residential camp on Awareness about future in basic sciences every year since 2012. 4. The practice: It is a regular practice in the college since 2012 to organize a residential camp on An awareness about future in Basic Sciences.

This practice helps to attract the brilliant students to seek admission in U G Programme of basic sciences. The aim of the residential camp is ? To make the basic sciences more interesting ? To familiarize students with the concepts and innovations in science ? To create awareness among the students regarding various career opportunities ? To motivate the students for research career in basic sciences. Duration of this residential camp is of five days in which 70 lectures and demonstrations are pertaining to disciplinary content in Physics, Mathematics, Chemistry, Biology and Earth sciences which emphasize key concepts while 30 lectures and demonstrations highlight the features of interdisciplinary approach. The lectures and demonstrations/experiments/field visit are focused on various themes such as Energy, Earth, Environment, Wildlife conservation, India's Moon mission, Epidemic diseases, Unknown domains of science, Research and career opportunities etc. The college provides registration kit containing list of mentors, resource persons, their affiliation, name of topic and contact number of local persons. The college also provides Tshirts, caps, transportation facility, accommodation, local hospitality, certificate of participation, science books, prizes and home experimental kit. The students have opportunity to interact with renowned academicians, distinguished researchers and eminent scientists of national and international repute. The other academic activities carried out in the workshop are CD shows, discussions, experiment sessions, seminars, science quiz, sky watching programme and field visits.

5. Evidence of Success: Around 565 students are benefitted from three residential INSPIRE camps. The INSPIRE scholarship instituted by DST to the tune of Rs. 80, 000/ per student per year has been awarded to eight students of this college. More students are motivated to make career in basic sciences. This is quite visible from the fact that the students with good percentage and the students from lower strata of society seek admissions for basic sciences. The students became more confident in presentation of their work in the form of model, paper, quiz competition etc. The residential camp encourages the students to take up careers in science.

6. Problems encountered and Resources required: Brilliant students are inclined towards professional studies since they are unaware of the avenues in pure sciences. Technology oriented teachers, sincere students, spacious auditorium, wellequipped laboratories, ICT facility, renowned resource persons/ academicians /mentors with social commitment, distinguished researchers and eminent scientists of national and international repute.

7. Notes: Such camps help to develop Research and Development activities in basic sciences. These activities elevate the thinking process among the stakeholders. Print media has given a wide coverage to the deliberations of distinguished researchers and eminent scientists during the INSPIRE camp.

List of mentors

Sr. No.	Name of the Mentors	Address	Contact No.	Email
1	Dr. Rahul More (IIT Bombay and Oxford Alumnus)	Strategic Partner, Erehwon Innovation Consulting	Innovation and Strategy Expert   Chevening Scholar   Mentor @ MITADT University	M: 9561126611 rahul@erehwonconsulting.com
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Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

[http://sscnagpur.ac.in/uploaded\\_files/Brst\\_practices\\_2018-19.pdf](http://sscnagpur.ac.in/uploaded_files/Brst_practices_2018-19.pdf)

### 7.3 – Institutional Distinctiveness

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

- Highly qualified and dedicated faculty to impart and inculcates the cultural and social values among the stakeholders.
- Adequate and well maintained infrastructure, well equipped Laboratories, Girls' hostel and Ladies Gym.
- ICT facilities in teaching learning and administrative process.
- Multiple combinations in UG course.
- P.G. courses in Chemistry, Microbiology, Computer Science, Physics, Mathematics, Biotechnology, Master in Computer Application.
- Recognized center of higher learning and research in the subject Physics, Chemistry, Microbiology, Computer Science, Mathematics, Botany and zoology.
- Holistic development through sports, NCC, NSS and extracurricular activities.
- YUVA Mahotsava to commemorate the Birth anniversary of Dr. Panjabrao alias Bhausaheb Deshmukh.
- Residential INSPIRE Camp for promotion of Basic Sciences
- Training and placement cell in college.

Provide the weblink of the institution

[http://sscnagpur.ac.in/uploaded\\_files/Institutional-Distinctiveness-2018-19.pdf](http://sscnagpur.ac.in/uploaded_files/Institutional-Distinctiveness-2018-19.pdf)

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

- To prepare academic calendar of academic activities in the college
- To submit an institutional data to AISHE
- To prepare a plan for effective curriculum delivery and documentation
- To organize a Student Induction Programme (SI)
- To initiate the process to start more skill based certificate courses
- To encourage teachers to use ICT for effective teaching with Learning Management Systems (LMS), Elearning resources etc.
- To collect and analyze feedback from all stakeholders on quality related institutional processes
- To conduct



Workshops/Seminars on Intellectual Property Rights (IPR) and IndustryAcademia Innovative practices. • To organize inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles • To conduct an Academic and Administrative Audit and its followup • To prepare and submit the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC. • To conduct extension and outreach programmes through NSS, NCC. • To conduct Students' Satisfaction Survey for teaching, learning and evaluation