



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		INSTITUTE OF SCIENCE
Name of the head of the Institution		RAMDAS G. ATRAM
Designation		Director
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		0712-2501571
Mobile no.		9975849004
Registered Email		ioscnagpur@gmail.com
Alternate Email		sujatadeo24@gmail.com
Address		RT Road Civil lines
City/Town		Nagpur
State/UT		Maharashtra
Pincode		440001
2. Institutional Status		

Affiliated / Constituent	Affiliated																										
Type of Institution	Co-education																										
Location	Urban																										
Financial Status	state																										
Name of the IQAC co-ordinator/Director	Dr. Sujata Deo																										
Phone no/Alternate Phone no.	07122501571																										
Mobile no.	9665054180																										
Registered Email	iqaciosc@gmail.com																										
Alternate Email	ioscnagpur@gmail.com																										
3. Website Address																											
Web-link of the AQAR: (Previous Academic Year)	http://www.iscnagpur.ac.in/pdf/AQAR%202018-19.pdf																										
4. Whether Academic Calendar prepared during the year	Yes																										
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.iscnagpur.ac.in/pdf/academic%20calender%202019-20.pdf																										
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>3</td> <td>A</td> <td>3.07</td> <td>2019</td> <td>14-Jun-2019</td> <td>13-Jun-2024</td> </tr> <tr> <td>2</td> <td>B</td> <td>2.85</td> <td>2013</td> <td>05-Jan-2013</td> <td>04-Jan-2018</td> </tr> <tr> <td>1</td> <td>B++</td> <td>81.05</td> <td>2004</td> <td>08-Jan-2004</td> <td>07-Jan-2009</td> </tr> </tbody> </table>		Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	3	A	3.07	2019	14-Jun-2019	13-Jun-2024	2	B	2.85	2013	05-Jan-2013	04-Jan-2018	1	B++	81.05	2004	08-Jan-2004	07-Jan-2009
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3	A	3.07	2019	14-Jun-2019	13-Jun-2024																						
2	B	2.85	2013	05-Jan-2013	04-Jan-2018																						
1	B++	81.05	2004	08-Jan-2004	07-Jan-2009																						
6. Date of Establishment of IQAC	01-Jul-2000																										
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
IQAC meeting foe Annual Action Plan	23-Jul-2019 1	10
Submission of proposal of academic autonomy to RTM Nagpur University and UGC	20-Jan-2020 180	1200
One day National Seminar on Post NAAC Accreditation,	10-Jan-2020 1	135
Two days National Webinar on Intellectual Property Rights	05-May-2020 2	450

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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institute of Science, Nagpur	22020807-IIB- 13 SCH IN FYP / DEVELOP OF GOVT.SCIENCE COLLEGES	Government of Maharashtra	2019 365	321319
Institute of Science, Nagpur	22020807-IIB- 52 SCH IN FYP / DEVELOP OF GOVT.SCIENCE COLLEGES	Government of Maharashtra	2019 365	165009
Institute of Science, Nagpur	Construction of Girls Hostel	Government of Maharashtra	2019 365	3600000
Institute of Science, Nagpur	Renovation of Sport Ground	Government of Maharashtra	2019 365	465000
Institute of Science, Nagpur	22020792-IIA- 06GOVERTMENT SCIENCE COLLEGES	Government of Maharashtra	2019 365	4277970
Institute of Science, Nagpur	22020792-IIA- 10GOVERTMENT SCIENCE COLLEGES	Government of Maharashtra	2019 365	1032000
Institute of Science, Nagpur	22020792-IIA- 13 GOVERTMENT SCIENCE COLLEGES	Government of Maharashtra	2019 365	535984
Institute of Science, Nagpur	2202B53627 Quality Upgradation Programme of Government Arts, Science, Commerce, Law and B.Ed. colleges	District Planning Committee	2019 365	31110000
Institute of Science, Nagpur	2202B536-52 Quality upgradationProgramme of Government Arts,Science,Commerce, Law and B.Ed. colleges	District Planning	2019 365	10600000

		Committee		
Institute of Science, Nagpur	22020792-IIA- 52 GOVERNMENT SCIENCE COLLEGES	Government of Maharashtra	2019 365	225070

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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
12. Significant contributions made by IQAC during the current year(maximum five bullets)	
Eight MOU's and work like Summer Internship, Sharing of research facilities, Project work, was done by establishing linkages and collaborations with different organizations.	
One day National Seminar on Post NAAC Accreditation.	
Two days National Webinar on IPR and one two days Workshop on Applied Statistics were organized by the Institute.	
Annual magazine "Replica" was prepared and under the process of publication.	
Mentoring of students by faculty members was done.	
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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year	
Plan of Action	Achivements/Outcomes

1. To prepare AQAR for the year 201819. 2. To prepare academic calendar and to follow it. 3. To form various committees in order to enhance the overall development. 4. To increase the number of MOU's Collaboration with different agencies. 5. To conduct collaborative activities with respect to research, faculty and student exchange. 6. To increase the number of Certificates, Diploma/Value added courses. 7. To organize institutional Conferences, Seminars i.e. Post NAAC in the month of December or January/Workshops on IPR and IndustryAcademia Innovative practices 8. Preparation and publication of annual magazine "Replica" 9. Online feedback to be prepared and analyzed by Statistics department. 10. Faculty members are to be appointed as mentors. 11. To organize Induction meeting for B.Sc. I Students. 12. To start the Incubation center at Institute with respect to research, Heads were informed to submit MRP to increase research activities. 13. Extension of outreach programs through NSS, NCC, Swatch Bharat, AIDS awareness : Mr. Shrikant Borkar sir being the NSS incharge was given the responsibility. 14. The CCPC was asked to work on conduction of programs for personality development and more placements. 15. To inform the Heads to organize different programs under departmental Societies. 16. To focus on organizing Earn and Learn activities. 17. Regular Updating of Web site of the Institute. 18. To inform the Heads to keep the documentary evidences of all the programs. 19. MOOC's, SWAYAM video/audio to be prepared and uploaded by the staff. 20. To collect and evaluate ASA PBAS from the staff for the session 201920.

1. AQAR for the session 20182019 was prepared and send to NAAC, Bangalore in March. 2. The academic calendar was prepared and followed accordingly till March but from 22nd March due to lockdown declared by the Center and State Government it was followed online as per the guidelines. 3. Various committees were formed which worked according to the objectives. 4. Eight MOU's and work like Summer Internship, Sharing of research facilities, Project work, was done by establishing linkages and collaborations with different organizations. 5. One day National Seminar on Post NAAC Accreditation, two days National Webinar on IPR and one two days Workshop on Applied Statistics were organized by the Institute. 6. Annual magazine "Replica" was prepared and under the process of publication. 7. Collection analysis of students' feedback completed. 8. Mentoring of students by faculty members was done. 9. One week Induction Meeting was conducted for B.Sc. I students as per the guidelines of UGC. 10. CCPC has organized a value based lecture series 'UDDAN' for about 30 hours for B.Sc. I year student to provide a training for building up their personality by Dr. Sumant Tekade. 11. Two Students were recruited as Assistant Professor's in G. H. Rasoni University, Saikheda. 12. A seminar on cloud Technology and Information security was organized by CCPC. 13. Online lectures and econtent were prepared by maximum number of staff and made available for students for online teaching. 14. Many programs were organized by the NSS unit of the Institute in collaboration with Swatch Bharat, AIDS awareness etc. 15. Departmental societies have organized different Curricular and Cocurricular Programs such as guest lectures, workshops, training etc. for the students overall development. 16. ASA PBAS for the session 201920 was collected from the staff and evaluated by the committee.

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14. Whether AQAR was placed before statutory body ?

No

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission	14-Jan-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Institute of Science is the Government Institute and the Director of Higher Education, Pune, has implemented the Management Information System for all the government colleges in Maharashtra region. The website of Management information system is www.mis.dhepune.info

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

Institute of Science, Nagpur has a well-formulated system for curriculum delivery and implementation. Academic planning is done before the start of academic year in accord with all the departments. The academic calendar is prepared by IQAC and is compatible with the University's academic calendar. Academic Calendar gives a clear indication of non-academic and extra-curricular activities, sport events, holidays etc. which helps the faculty to deliver curriculum in a given time frame. Preparation of time table and distribution of workload is done in advance by every department. Every teacher receives the individual time table along with exam schedules. All the departments are involved in scheduling academic, co-curricular and extracurricular events to enrich the learning process. Institute of Science Nagpur is affiliated to R. T. M. Nagpur University and syllabus for UG and PG programs designed by the same is followed. Copies of the syllabus are made available in the respective departments as well as the library for students and faculty. Our teachers are an integral part of the university, being BOS members, Academic council members, syllabus revision committee members who ensure that the syllabus is updated. Well planned curriculum delivery and documentation is obtained through the following mechanism: 1. Teaching Plans are prepared by faculty members before commencement of each term. This helps in overall planning of the syllabus topics to be covered. 2. Conducting / participating in subject oriented workshops. 3. Academic Diary is maintained by each faculty member. 4. Along with the conventional method, various other teaching methods like posters, charts, graphs, videos, quiz, group discussions, demonstrations, debates, power point presentations, role play, allied projects, games, industrial tours and visits, lab visits, model making, add-on practicals, open book tests, assignments, seminars, case studies are used for effective curriculum implementation. 5. A robust support for students built beyond the classroom and institution by creating interactive groups on Whatsapp, Google classrooms and emails, where regular exchange of ideas help in the implementation of the curriculum effectively. 6. Regular assignments, class tests, open book tests and tutorials are conducted. 7. Guest lectures by scientists and industrialist are arranged regularly. Seminars and quiz are conducted at the department level and students are encouraged to participate in academic competitions and events. 8. Provision of computer facility & free wi fi for students at a common centre at library. All the departments also have small computer lab for post graduate students. Guidance is provided to students for retrieving the information from online resources. 9. Excellent Central library facility with extensive number of books and journals is available. 10. Result analysis of every semester is

done. Based on semester wise result analysis of every course corrective measures are suggested by IQAC. Remedial lectures as well as bridge courses are conducted if required. 11. Student's feedback regarding curriculum delivery is undertaken periodically and necessary suggestions are rendered to concerned faculty members.

1.1.2 - Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
NA	NA	Nil	Nil	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	NA	Nil

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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	NA	Nil

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

	Certificate	Diploma Course
Number of Students	40	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
1	27/09/2019	59

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1.3.2 - Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
MSc	Statistics, Zoology, Botany, Physics, Environmental sciences	56

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1.4 - Feedback System

1.4.1 - Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

Feedback Analysis for the academic session 2019-20

- 1 Student's feedback about teaching learning process. As per the suggestion of NAAC peer team who visited the Institute in May 2018, this year for the first time online feedback of teachers from students is collected. Feedback was collected from the students to evaluate teacher's performance. The teaching learning process is analysed on the basis of various questions asked in the feedback form. The analysis is reported to the Honourable Director of the institute. The teachers with poor remarks were especially asked to take more efforts to improve their performance in the respective areas where performance was poor and students were not satisfied.
- 2 Student's feedback on overall college functioning. The feedback about library, laboratory, office service, cleanliness, internet facilities, canteen facility, functioning of anti-ragging cell, counselling centre, sports facility, infrastructural facilities etc. on the campus is collected and an effort is made to know student's view on the above issues to take future steps for further improvement.
- 3 Academic Peer's, Teacher's and students' feedback about the curriculum. Academic Peer's, Teacher's and student's feedback is taken on their views about the curriculum provided by the affiliated RTM Nagpur University. Their suggestions on the curriculum are submitted to the parent university through the teachers in the institute who are members /chairman /chairperson of Board of studies for further action.
- 4 Feedback from Alumni. The institute has a very old and strong alumni association known as AASCON with a view to connect the Alumni, the current students and the Institute to provide a platform for growing together. It aims to establish strong link between the Alumni and the Institute and to promote social, educational and cultural activities conducive to the above stated objects. It is a very active association which helps the bright and poor students by providing various scholarships. They motivate the students through guest lectures, by providing job opportunities wherever possible.
- 5 Feedback from Parents. Parents' feedback is collected to know their opinion about overall development of their ward and about learning environment available for their wards through parent Teacher meet.
- 6 Employer's Feedback. The feedback on the current curriculum by the employers (Industry Experts) is collected. Add-on courses are designed based on this feedback. For example, R programming skills are listed as a job requirement on thousands of jobs in the fields of statistics and data analysis. Considering this a Certificate course in R is introduced by the Department of Statistics in 2013 and PG practicals are conducted using R so that students get hands on experience to R. A National level workshop on Applied Statistics for Industry was organised by Statistics Department in February 2020 to know the expectations of Industry from Statistics students. Dr A P Gore, Experienced statistical consultant, Applied Statistician and retired Professor, University of Pune guided the students on this occasion. Feedback collected from all stakeholders is analysed and suggestions received from them are conveyed to the Director for further action and improvement.

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	CBZ, PCM, PSM, PEM, SCOM, CBENV, CZENV	240	2000	231
MSc	Chemistry	36	36	35
MSc	Physics	36	36	34
MSc	Zoology	22	22	21
MSc	Botany	22	22	21
MSc	Environmental Science	11	11	11
MSc	Statistics	22	22	22
MSc	Mathematics	36	36	36

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2.2 - Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	671	353	59	59	59

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
59	59	9	18	18	14

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

All the students of Institute of Science, Nagpur are being constantly mentored by faculty members under the flagship of student mentoring committee. On an average twenty five students are allotted to each mentor. The teacher mentor is in contact with the student mentee and periodically collects information about any grievances and tracks their academic record thoroughly. Mentor provides guidance regarding various career opportunities, competitive exams and career planning. With the goal boosting

the mentees confidence, mentor teacher provide detail counselling regarding their personal concerns or an academic issues. The needs of the slow as well as fast learners are different and they have been well handled by mentors of the Institute of Science, Nagpur.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1024	59	1:17

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
83	59	24	Nil	48

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. Mahesh Kumar Y. Salunkhe	Professor	Joint Director , Nagpur Region, Nagpur
2019	Dr. K. S. Bhanu	Professor	I) Chairperson, Board of Studies in Statistics, II) Member, Academic Council, III) Member, Editorial board, Science journal, RTMNU, Nagpur
2019	Dr. Sandhya Dhabe	Associate Professor	Member of Board of Studies in Statistics, RTMNU, Nagpur
2019	Dr. Prashant Jakhi	Associate Professor	Chairman of Board of Studies in Botany, RTMNU, Nagpur
2019	Dr. Mohammad Idrees	Assistant Professor	Member of Board of Studies in Chemistry, G.H.Raisoni University, M.P.
2019	Dr. Naqui Jahan Siddiqui	Associate Professor	Member of Board of Studies in Chemistry, G.H.Raisoni University, M.P.
2019	Dr. Gayatri Behere	Associate Professor	Member of Board of Studies in Statistics, RTMNU, Nagpur
2019	Dr. A K Khamborkar	Assistant Professor	Member of Board of Studies in Statistics, RTMNU, Nagpur
2019	Dr. Pritee Singh	Assistant Professor	Member of Board of Studies in Statistics, RTMNU, Nagpur
2019	Dr. Surekha Kalkar	Associate Professor	Member of Academic Council, RTMNU, Nagpur

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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	UG	II, IV, VI	30/04/2020	30/11/2020
MSc	PG	II, IV	30/04/2020	30/11/2020

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

Apart, from the conclusive university conducted examination, Institute of Science faculties work continuously on the internal evaluation of students in number of innovative ways. University allow 10 and 20 Marks as internal assessment for UG and PG students respectively. Faculties of the Institute take this challenge of covering entire syllabus in the internal assessments with above mentioned weightages. Faculties of the Institute from all the disciplines conduct periodic class tests on each unit of the syllabus hence fulfilling the challenge of covering all aspects of the curriculum. Some faculties regularly conducts surprise tests, take home tests, open book tests, online tests through google forms/classroom and topsy-turvy tests to boost the normal test conducted in the classroom. Best way to understand if students learned the topic well is to ask them for the presentation on the same topic. Hence at the Institute, we conduct regular presentations of the students from the topics from the curriculum. This is included in the semester activity and internal marks are allocated to it for the PG students. They are evaluated on the basis of the content of their seminar topic, presentation skill, knowledge, communication skill, fluency as well as response to questions put by teacher examiners and the class. Small projects based on various environmental and scientific issues are assigned to students and their participation is evaluated by experts. Home assignments are also part of our continuous assessment process. We are organizing department wise Poster display competition and Power Point seminar competitions every year. Study tours are organized by various departments of the Institute like Botany, Zoology, Chemistry, Environmental Science etc. Students are evaluated on the basis of their active participation and information collected during the visit. Project work is a part of participative learning. The students choose a project topic in consultation with the guides allotted to them. These projects are based on the field work as well as the work completed in the laboratories. Some students carry out their project work in collaboration with research laboratories and other social organizations. The objective of critical thinking, analytical skill, and collaborative learning skill is fulfilled through such project works. Their project work is continuously monitored and evaluated by the respective guides before the final evaluation by the external examiner. This ensures that the student is well versed with all aspects of the project work undertaken by him/her which may very well form the basis, for the future (higher) research work by the student. An essential criterion of internal assessment is the attendance of the students in the class, which we are regularly monitoring. Through the above continuous efforts, we have reformed the internal evaluation system of our institute.

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

At the beginning of each semester, annual academic calendar is prepared by the IQAC committee. Our Institute prepares this calendar taking into consideration the RTM Nagpur University's academic calendar. A broad outline of the calendar is notified at the beginning of the year and also communicated to all the departments. It is displayed on all concerned notice

boards of the Institute. The same is also uploaded on our official website. Our institute try to follow the academic calendar meticulously. However, there is scope for inbuilt internal flexibility, which allows individual faculty members or departments to accommodate their own constraints and priorities in finalizing the CIE plans. Each department displays this calendar and mostly sticks to the schedules mentioned therein. Various activities are conducted at the institutional as well as departmental level including celebration of various days of importance, inauguration of various subject centric societies, guest lectures, blood donation camp, NSS camp, awareness campaign rallies, Socio-cultural activities, sports meet, etc. Thus, for the institute an academic calendar is not only a CIE procedure but a guide for the teachers and the students. The calendar ensures the various academic endeavours in academic sessions and also enhances its scope towards value education, moral and social upliftment of the students.

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://iscnagpur.ac.in/pages/courses_outcome.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
PG	MSc	Environmental Science	11	11	100%
PG	MSc	Statistics	22	22	100%
PG	MSc	Zoology	19	19	100%
PG	MSc	Botany	17	17	100%
PG	MSc	Mathematics	33	32	96.9%
PG	MSc	Physics	33	33	100%
PG	MSc	Chemistry	38	37	97.3%
UG	BSc	PCM, CBZ, PSM, PEM, SCOM, CBEEn, CZEn	214	213	99.5%

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2.7 - Student Satisfaction Survey

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

<http://www.iscnagpur.ac.in/pdf/SSS.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	1080	SERB	1830000	610000
Major Projects	540	ICMR	1288860	Nil
Major Projects	540	DST	1492700	302700

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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
Webinar on Intellectual Property Rights and Plagiarism	Library and IQAC	05/05/2020

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Ph.D.	Dr. Balu S. Navale	IISER, Pune	01/06/2019	Research
Teachers Associate ship for Research Excellence, SERB, Central Government	Dr. Sunil R. Patil	SERB, Central Government	12/03/2019	Research

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

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

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3.3 - Research Publications and Awards

3.3.1 - Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

Name of the Department	Number of PhD's Awarded
Botany	3

Physics	4
Mathematics	1
Statistics	2
Zoology	2
Environmental Science	2
Chemistry	8
Library	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	Chemistry	19	0.5
International	Physics	5	0.5
International	Zoology	5	Nil
International	Botany	8	Nil
International	Statistics	4	Nil
International	Mathematics	1	Nil
International	Library	1	Nil

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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
Physics	3
Chemistry	4
Botany	3

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

Title of the 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

Role of organic cation in modern lead-based perovskites	Alwarappan, G., Alam, M.R., Hassan, W.M.I., (...), Nekovei, R., Verma, A.	Solar Energy	2019	1	Institute of Science, Nagpur	1
Graphene beaded carbon nanofibers/ZnO/polyaniline nanocomposites for high performance supercapacitor	Atram, R.R., Manekar, B.A., Kondawar, S.B., Atram, R.G., Koinkar, P.	Modern Physics Letters B	2019	1	Institute of Science, Nagpur	1
Synthesis of few 1,3,4-oxadiazole derivatives blended with different heterocycles and their in-vitro antibacterial activities	Idrees, M., Bodkhe, Y.G., Siddiqui, N.J., Kola, S.	Rasayan Journal of Chemistry	2020	1	Institute of Science, Nagpur	1
An innovative transformation of waste toner powder into magnetic g-C ₃ N ₄ -Fe ₂ O ₃ photocatalyst: Sustainable e-waste management	Babar, S., Gavade, N., Shinde, H., (...), Bhuse, V., Garadkar, K.	Journal of Environmental Chemical Engineering	2019	12	Institute of Science, Nagpur	12
An efficient fabrication of ZnO-carbon nanocomposites with enhanced photocatalytic activity and superior photostability	Babar, S.B., Gavade, N.L., Bhopate, D.P., (...), Garadkar, K.M., Bhuse, V.M.	Journal of Materials Science: Materials in Electronics	2019	3	Institute of Science, Nagpur	3
Effect of electrolytes on photoelectrochemical performance of a CuS-CdS heterojunction	Jadhav, A.S., Bhuse, V.M.	Bulletin of Materials Science	2019	1	Institute of Science, Nagpur	1
A facile solvent-free route for one-pot multicomponent synthesis of benzylpyrazolyl coumarins derivatives in presence of effective synergetic catalytic system	Kamble, N.R., Kamble, V.T.	Asian Journal of Chemistry	2019	1	Institute of Science, Nagpur	1
Synthesis, Characterization and Antimicrobial Screening of Some Novel 5-(Benzofuran-2-yl)-N-(2-Substituted -4-OxoThiazolidin-3-yl)-1-Phenyl-1HPyrazole -3-Carboxamide	Mohammad Idrees, Satish Kola, Naqui Jahan Siddiqui	Rasayan Journal of Chemistry, 12 (4), 1725-1733	2019	7	Institute of Science, Nagpur	7

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of	Institutional affiliation as
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					citations excluding self citation	mentioned in the publication
Synthesis, Characterization and Antimicrobial Screening of Some Novel 5-(Benzofuran-2-yl)-N-(2-Substituted-4-OxoThiazolidin-3-yl)-1-Phenyl-1H-Pyrazole-3-Carboxamide	Mohammad Idrees, Satish Kola, Naqui Jahan Siddiqui	Rasayan Journal of Chemistry, 12 (4), 1725-1733	2019	3	2	Institute of Science, Nagpur

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

Number of Faculty	International	National	State	Local
Resource persons	Nil	2	2	2
Attended/Seminars/Workshops	17	51	12	3
Presented papers	15	8	Nil	1

[View File](#)

3.4 - Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Blood donation awareness: Blood Donation Camp	IGGMC Blood Bank	10	60
Traffic rules Awareness: Street Play	RTO NAGPUR	1	70
Swachh Bharat: Beautification of walls in Public Places	NSS Unit, Institute of Science I-CLEAN NAGPUR NGO	2	10
Swachh Bharat: Nirmalya Collection Drive	NMC and Institute of Science, Nagpur	2	100
National Service Scheme (NSS) Conservation Of Biodiversity'.	Building of two 'Vanrai Bhanddhara on Natural on Natural Water source,	2	80
Building of two 'Vanrai	National Service Scheme (NSS), Maharashtra Forest Department	2	80

Bhanddhara on Natural on Natural Water source in Gorewada Resreve Forest	Gorewada Reserve Forest, Nagpur.		
Cyber Awareness Programme	Quick Heal Foundation and Computer Science Department	2	8
Aids awareness: National Aids Day Celebration by 'Nukkad Natak'.	Red Ribbon Club	2	150
Poster Exhibition on behalf of Celebration of "International Year of Periodic Table" 2019	IGNOU: Organized in collaboration with IGNOU regional center and department of Chemistry, IOS, Nagpur, by the B.Sc. Final Year and IGNOU Students of 9th and 10th Std.for the students of different school.	15	200
Wellness Program "Student Health Welfare" (Nutritional, Psychological, Gynecological Fitness Counselling)	Organised by Chemical Society, Department of Chemistry, Institute of Science, Nagpur	10	80

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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
National Service Scheme (NSS), Institute of Science, NSS Unit of IOS, Nagpur	Appreciation towards Conservation Of Biodiversity.	Maharashtra Forest Department Gorewada Project, Nagpur.	1

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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/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Awareness	Quick Heal Foundation and Computer Science Department	Cyber Awareness Programme	2	8
National Service Scheme	NSS Unit, Institute of Science NMC Nagpur.	Nirmalya Collection Drive Ganesh Visarjan in Artificial tanks.	2	100
National Service Scheme (NSS) Conservation Of	NSS Unit, Institute of Science Maharashtra Forest Department	Building of two 'Vanrai Bhanddhara on Natural on	2	80

Biodiversity'.	Gorewada Project, Nagpur	Natural Water source		
National Service Scheme, Aids awareness	NSS Unit, Institute of Science Red Ribbon Club	National Aids Day Celebration by 'Nukkad Natak'.	2	150
National Service Scheme	NSS Unit, Institute of Science Akhil Bhartiya Andhshradha Nirmulan Samiti.	Yuva Jagruti Abhiyan	10	200

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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
Study of the effectiveness of experiential learning on the Scholastic achievement of higher secondary students in biology	"Mrs. Namita Sahare Chavan Ph.D. student - Education"	Not applicable	730
Study on the ecology status and conservation of Avifauna of Navegaon National Park, Maharashtra	"Ms. Kalpana Chinchkhede Ph.D. Student ZOOLOGY Dept"	Not applicable	730
Joint Research Project with IISER, Pune	Arnab Mukherjee from IISER Pune and Sunil Patil from Institute of Science, Nagpur	SERB	1095

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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
Summer Internship	NA	National Sample Survey Office (NSSO), Field Operations Division (FOD)	27/05/2019	26/07/2019	Ms. Shraddha Mulmule (M. Sc. I)
Camp for B.Sc. Students	Focused Intensive Physics Camp for Students	IIT, Guwahati and Indian Association of Physics teachers (IAPT), Under Pandit Madan Mohan Malviya National Mission for Teachers and Teaching	17/06/2019	28/06/2019	Ms. Parul Chafekar
Internship	Prediction of air quality using deep learning Under the guidance of Dr Asha Lalwani	CSIR NEERI ,Nagpur	15/10/2019	01/01/2020	Ms. Ashwini Mudke (M. Sc. II)

Summer internship	Statistical analysis of intensity of tropical cyclone over north Indian Ocean under the guidance of Dr Anant Parekh	Indian Institute of Tropical Meteorology, Pune	18/05/2019	28/06/2019	Ms. Ashwini Mudke (M. Sc. I)
Project Guide for M.sc. Final Year Dissertation	Project on Study of Effect of Automobile waste water on crops	CSIR-National Unvironmental Engineering Rcsearch Institute, (NEERI)	01/12/2019	31/05/2020	Ms. Harsha Devendra Jambhulkar (M. Sc. II, Sem IV)

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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
IGNOU	01/01/2019	B.Sc. , PGDAC, CPLT	370
DELNET, New Delhi	24/08/2019	1.Use of DELNET data base for Research Programms, Providing information to Users. 2. Use of Software. 3. Create and contribute records maintained by DELNET	1
Maharashtra Centre for Entrepreneur Development (MCED), Nagpur	16/10/2019	Short Term Training program	1
Maharaj Bagh Zoo, Nagpur	24/12/2019	1. Exchane of personnel through deputation as per the rules. 2. Organization of joint programs related to Environmental Awareness and activities. 3. To depute its personnel as visiting faculty at IOsc and Zoo to deliver guest lecture on the occasio	86
Quick Heal Foundation	01/06/2019	Cyber Awareness Programme for School and College Students	10
Ayurvan Foundation, Nagpur	21/09/2019	Workshop organised on Vegetative Propogation for students Students visited the field and studied medicinal plants at Aura Park under this MOU	52
Santaji Mahavidyalaya, Nagpur	27/04/2019	Organised workshop on PCR applications under the MOU	30
VSPM Dental College Research Centre	01/03/2019	• To provide Statistical Support to the staff members, under-graduate Post-graduate students and Interns of VSPM Dental college and research centre in	50

Nagpur.

their project work as and when needed • To arrange guest lectures

[View File](#)**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
46767000	46486398

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
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Classrooms with Wi-Fi OR LAN	Existing

[View File](#)**4.2 - Library as a Learning Resource**

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

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

4.2.2 - Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	40132	4864638	Nil	Nil	40132	4864638
Reference Books	2000	397952	Nil	Nil	2000	397952
e-Books	97000	Nil	Nil	Nil	97000	Nil

Journals	7712	Nil	Nil	Nil	7712	Nil
e-Journals	30000	Nil	Nil	Nil	30000	Nil
Digital Database	2	Nil	Nil	Nil	2	Nil

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	Nil

No file uploaded.

4.3 - IT Infrastructure

4.3.1 - Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	279	3	1	1	7	1	9	100	0
Added	4	0	0	0	0	0	0	0	0
Total	283	3	1	1	7	1	9	100	0

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

100 MBPS/ GBPS

4.3.3 - Facility for e-content

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

4.4 - Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
1732000	1731391	7642000	7642000

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 Institute has a Local Advisory Committee that deliberates every year on the various infrastructural and academic needs of the Institute. Institute makes budgetary provision under different funds for maintaining and utilizing the campus

infrastructure facilities. Various monitoring committees such as purchase committee, building committee, UGC planning board committee, hostel monitoring committee, library committee ensure that the allocated funds are utilized judiciously. To maintain the infrastructure campus facilities and equipments, following activities are undertaken by Institute. 1) Maintaining department wise stock register. 2) Department wise annual stock verification. 3) Regular maintenance of laboratory equipments and chemicals. Overall maintenance of campus by campus discipline and cleanliness committee of the Institute. 4) Regular cleaning of water tanks, proper disposal of garbage, pest control, landscaping and maintenance of lawns. 5) Maintenance of all facilities and cleanliness of environment in hostel by hostel monitoring committee. 6) Outsourcing is done for maintenance and repairing of CCTV, computers, internet facilities including leased lines, Wi-Fi and broadband, updating of software. 7) Maintenance of wooden furniture of institute is done as and when required with the help of PWD and other agencies. 8) Electrification, and plumbing work by state PWD. The maintenance of the reading room and stock verification of library books is done regularly by library staff. Librarian presents Annual Library Budget of various departments for each subject. This committee deliberates on the budgetary allocations, evaluates the previous years library activities and proposes new services, acquisition for the current year. 9) Sports and gymnasium is managed by the Sports Committee that advises the Physical Education Director in planning optimum utilization of sport facilities. Outsourcing is done for the maintenance of gymnasium. The grounds for various sports are maintained regularly. 10) Classrooms are provided to get opportunity of ICT based teaching in the smart classrooms for all the departments. The Time-Table committee and the faculty Coordinators chalk out time-table, semester-wise. The institute has obtained a dedicated power line from the Electricity Board of Maharashtra State. 11) Lightning arrester is installed at proper place to safeguard the equipments from lightning and thunder. 12) For providing fluctuation-free, uninterrupted electric supply, equipments in the Central Instrumentation Laboratory (CIL) are connected to a dedicated online UPS. For the optimal performance of sensitive equipment, the CIL is air-conditioned. 13) Continuous supply of water is ensured for special equipments requiring constant water supply, through water pipe lines connected to overhead tanks and a water sump of sufficient capacity. 14) Special provision is made for the storage of gas cylinders outside the laboratories. Chemicals are stored as per the standards specified by the suppliers. 15) For campus overall security, the external agency is hired on annual basis contact. 16) To maintain cleanliness, cleaning and housekeeping agency is hired. This agency is selected on annual basis using transparent e-tender process

<http://iscnagpur.ac.in/>

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	Inspire and GOI	151	2143214
Financial Support from Other Sources			
a) National	Institute level Scholarships	51	1045501
b) International	Nil	Nil	Nil

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5.1.2 - Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation,

Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Soft skill development	07/08/2019	150	Dr. Sumant Tekade, HOD- Department of Management, S. B. Jain Institute of Nagpur
Dept. of Physics	14/02/2020	70	3D printing demonstration Mr. Rahul Chute by Physics
Dept. of Physics	21/09/2019	70	Workshop on Augmented and Virtual Reality by Mr. Rahul Chute by Physics
Dept. of Physics	05/09/2019	70	Prof. Kamal Singh, Former Vice Chancellor, SGBAU and Prof. of Physics, RTMNU and SGBAU by Physics Dept
Career Counseling	23/05/2020	100	Mr. Swarup Gandewar, CMO at ICAD GRE
Career Counseling	13/09/2019	59	Mr. Anil Tatode (Training officer, Department of Robotics and cloud technology).
Career Counseling	27/09/2019	200	Dr. Sumant Tekade, HOD- Department of Management, S. B. Jain Institute of Nagpur
Guidance for competitive examinations	13/02/2020	80	Organized 'Bio-Genius' competition which helps students for competitive exams by Zoology dept.
Soft skill development	11/10/2019	150	Dr. Prakash Saukar, who was Ex-managing Director of Bassel India,
Soft skill development	07/10/2019	70	"What's your goal ?" was given by Ms.Vineet Kaur, by STATISTICS Dept.

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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	UDDAN	Nil	59	Nil	Nil
2019	Cloud Technology and Information Security	Nil	150	Nil	Nil

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

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

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
G.H. Raison Universit, Saikheda	20	3	CSIR-National Environmental Engineering Research Institute, Nagpur	Nil	32

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	Nil	Nil	Nil	Nil	Nil

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

Items	Number of students selected/ qualifying
SET	2
GATE	1

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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
Cultural, Sports and Competitions	University and Institute	902

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5.3 - Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Silver in Karate	International	1	Nil	Nil	Teena Satpute
2019	Gold in Karate	National	1	Nil	Nil	Ankit Thakur
2019	silver in Swimming	National	1	Nil	Nil	Sharayu Fartode

2019	Silver in Power lifting	National	1	Nil	Nil	Pragati Rewatkar
2019	SECOND in Mimic	National	Nil	1	Nil	MISS. NEHA LABHE
2019	SECOND in ONE ACT PLAY	National	Nil	1	Nil	MISS. NEHA LABHE
2019	FOURTH in SKIT	National	Nil	1	Nil	MISS. NEHA LABHE
2019	SECOND in SKIT	National	Nil	1	Nil	MISS. NEHA LABHE
2019	THIRD FOLK ARCHESTRA	National	Nil	1	Nil	MISS. NEHA LABHE

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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)

Institute provides full support to the students representation in various academic, sports and administrative bodies. Student task force (previously called as Students council) is enacted each year as per the Maharashtra Universities Act 1994 40(2) (b) (vii) up to 2014-15. The representatives are selected on the merit basis and a few are nominated by the director. After declaration of the members of the council, the students were allotted the academic and administrative committees. This council meets at least two times in a year to discuss on various issues and provide valuable suggestions to the administrator. Besides student task force, National Social Services (N.S.S.), National Cadet Corp (N.C.C.) and Literary and Cultural Forum (L.A.C.F.) are formed each year which is completely controlled by students and supported by the committee of staff as a coordinator. The NSS executes social service programs where students participate at college level and also attends the university and state level camps. NCC activities are controlled by regional NCC office. Students get them enrolled with this office each year and participate in various activities organized by regional NCC office. Each year annual social gathering is organized. This mega event is totally controlled and administered by students with the support and guidance by staff members. The major activities are intra-collegiate sports, cultural and academic competitions. The student committee for each event takes a lead in making this event successful. Apart from the Institute Internal Activities, the students are nominated for the Statutory Committees such as Sexual Harassment Prevention Committee and Anti-Ragging Committee. They present their views and contribute in decision making. Also student council members give feedback for academic activity by giving feedback for curriculum and faculties. This helps in improving academic planning. The suggestion box is placed by the Institute where the students can put forth their opinion about academic and facilities provided to them. LACF, Literary Art and Cultural Forum which gives message of brotherhood is a prime and unique feature of Institute. Under LACF the students participates in various cultural, co-curricular activities and extracurricular events as well. The students are trained in such a way so that they can participate University, State and intercollegiate events. LACF executes various literary and cultural programs at college level and also selects students for intra and interuniversity competitions

CCPC: - Career Counseling and Placement Cell, an important committee of the students where students themselves arrange various motivating and career orientation programs. With the arrangement of such events by the students they can meet the global challenges.

5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?

Yes

The Alumni Association of Science College, Nagpur (AASCON) is a very active body of enthusiastic alumni of our Institute

along with members. True to its motto "Involvement without Interference", AASCON is actively engaged in bringing together individuals from diverse fields with the sole aim of paying back with interest what they owe to their alma mater. The association which firmly believes that education is a continuous process like research, has been playing a very positive and encouraging role over the years by sponsoring awards and huge scholarships to the meritorious and needy students. The association also donates books and other materials needed by the students on a regular basis. The alumni association's contribution is not restricted to financial assistance alone. Members of the association provide us constructive feedback on academic and other matters for advancement and up gradation. AASCON also contributes by arranging various student centric programs. Intellectual Contribution including Research: Some of the alumni, who are presently working at significant positions, are invited by their concerned Departments for delivering Guest lectures and guiding the students. These alumni guide the students on interview skills, communicating skills and career choice. Some of our alumni are employed at Research Institutes. They guide the students by providing valuable insights regarding research projects and scope for further research in various fields. This motivates the post graduate students to take up research after finishing their masters program. Placement: The alumni association has its own role to play in the placement of the students. Those holding different positions in various organizations help the present students in their placement. Some of them, who own companies or industries, give a preference to students from their parent institution which benefits our students greatly. Scholarship: AASCON provides various types of awards, prizes and scholarships to students. Scholarship, awards and prizes provided by AASCON viz. Merit scholarship of Rs.5000/- Donor Dr.Vinay Tule and Mr.Tarun Shrivastava awarded to B.Sc.I (Stat) Topper, Research Scholarship of Rs.12,000/-Research Student with Guide of Institute(Not working as Contr.Lecturer) and many more.

5.4.2 - No. of enrolled Alumni:

500

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

10837001

5.4.4 - Meetings/activities organized by Alumni Association :

Year No. 2019-20 alumni association meetings -14 Dates of meetings No. of members attended
:22/02/2019 (9) ,26/04/2019 (5) ,03/05/2019 (4) ,15/05/2019 (6) ,26/07/2019 (4) ,28/08/2019 (4) ,11/09/2019 (3) ,22/11/2019 (4) ,
10/12/2019 (4) , 06/01/2020 (6) , 13/02/2020 (6) , 25/02/2020 (5) , 05/03/2020 (4) , 13/03/2020 (4) .

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)

Participation of Teachers in the decision making bodies of Institute Our Institute works more effectively, sensitively, responsibly through its performances for accomplishing the vision. We strive hard to promote quality higher education, to create a sensitive, responsive and qualitative human resource for the country with duly inculcated human, social, democratic, environmental and nationalistic values in them. The Institute is owned and managed by the State government hence it runs as per the policies and norms laid down by it. There are four levels of governance i.e. first, policy framing by state ministry of higher and technical education, second, execution of policies through Director of higher education, third, routine and micro level management along with regular progress and development by Director of Institute, and the

fourth level of governance comprising of heads of department, teaching/non-teaching staff, various committees and other cells. These committees make the governance decentralised and participatory. Most of the functions and services in governance have been computerised and automated leading to faster and more transparent operations. The members of teaching and non-teaching staff, representatives of students and alumni are the major stakeholders who get a chance to participate in and contribute to various aspects of planning and decision making, thus following the principle of participatory management. The different departments of the Institute are supervised by heads of the department who have freedom and responsibility to manage their own affairs. All the departments are very well equipped with separate facilities for efficient and result oriented functioning. Our Institute meticulously follows norms and procedures as per the directives and policies of State Ministry of Higher and Technical education, the affiliating University, and UGC. Thus, efforts are made at all levels for successful execution of mission with a view for accomplishment of vision. The outcome of effective perspective plans is evident from the recognition received by our institute from UGC as a "College with Potential for Excellence".

Decentralization Case Study: Our institute categorizes various activities as departmental, academic, administrative and finance related. All activities are supervised by the heads and supported by other stakeholders. For example, the meetings of the heads with their associates are regularly held for planning and execution of different academic and other allied activities. As regards the purchase of items, meetings of the Heads of the department with the Director are held regularly. During such meetings the purchase list is finalized and funds are allocated according to the various needs of the departments. The finance committee is then entrusted the work of actual purchase.

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	The admission process in the Institute is transparent and admission to various under-graduate programmes is made on the basis of merit and strictly within the norms of the university and state education department. For all Postgraduate programmes centralized admission process of The University is followed. However, students are supported in the admission process through counseling and other help, while the college tries to make the entire process as fast and easy as possible
Industry Interaction / Collaboration	The college has collaborations with various industries, companies for mutual benefit. The college benefits in terms of job placements, internships and study visit opportunities, while it helps industries with consultancy and advice. Most of the faculty members of the institute are actively involved in research and also have their collaboration with various organisations like BARC, NEERI, CICR and NGOs etc
Human Resource Management	The Institute has adequate human resources to take care of various kinds of work and responsibilities. The college strives to keep the human resources updated and efficient. The college ensures that the human resources are well-qualified and follow ethical and eco-friendly ways of working on the campus. It also tries to make optimum use of these resources by engaging them in multiple roles, providing a conducive environment and supportive work culture and by allowing them scope to participate in planning, decision making and administration. Decentralization of work is done by forming various committees which works under the chairmanship of Hon. Director of the Institute, who monitors the work frequently

Library, ICT and Physical Infrastructure / Instrumentation	The Institute has the practice of wide use of ICT based environment and at the academic as well as administrative level. SOUL 2.0 software is used in most of the activities of the library. The Institute has also subscribed NLIST facility of INFLIBNET through which ejournals and e-books are made available.. The Institute library has computer center with several computers for staff and students, besides independent computers and peripherals for each department. There are ample facilities to use ICT in the classroom. The infrastructure is well maintained and adequate. The campus amenities and physical facilities are of high quality and properly maintained.
Research and Development	The Institute of Science runs PhD programmes in Chemistry, Physics, Botany, zoology, Mathematics and Environmental Science. Besides these specific research programmes, the Institute also encourages research by staff and students. In view of the stoppage of research grants by the UGC, the college encourages its faculty to look out for alternative funding from NGOs, government agencies and industry. The college has a research committee, which supports activities in research and publication. The institute has mechanisms and systems in place to promote and support research and innovation for creation and transfer of knowledge. The institute regularly conducts interaction and outreach activities in neighboring communities to sensitize students regarding the current, burning social issues thereby ensuring the social, moral and emotional development of the student as a responsible citizen of the society.
Examination and Evaluation	Institute of Science, Nagpur is affiliated to R. T. M. Nagpur University, Nagpur and the examinations are conducted by the University semester wise. A small part of this comes to the institute share in the form of internal assessment, the norms of which are decided by the university. However, the Institute conducts its own assessment and regular evaluation through class and unit tests, student seminars, project work, field assignments and class work, etc,. Evaluated answer books are distributed in the class and the mistakes done by them are corrected and explained accordingly. It not only helps students to prepare better for the university assessment, but also for the teachers to keep track of the progress and performance of the students and their own teaching
Teaching and Learning	All faculty members of the institute are encouraged and supported to undertake innovative teaching learning approaches. They are also supported to update themselves through training programmes, online courses, workshops, seminars and so on. Faculty members are particularly encouraged and supported to use ICT, multimedia, smart classrooms-resources and other technological tools to enhance the effectiveness of teaching and learning. The regular classroom teaching is supplemented by assignments, field visits and projects. Use of online resources and communities, expert talks, guest lectures by eminent and experienced ex-faculty members and scientists further consolidate the teaching-learning process
Curriculum Development	The Institute is affiliating to RTM Nagpur University and offers the programs designed and quantified by affiliating University. However, it tries to ensure effective curriculum delivery through a well-planned and thoroughly documented process. The Institute contributes to curriculum development indirectly through various faculty members working as members of curriculum committees and board of studies. Several faculties adopt various means to make the curriculum more relevant to the learners. In that sense, they try to adapt the prescribed curriculum to the needs and interests of students to the extent possible.

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

E-governance area	Details

Planning and Development	Scholarships are directly credited to the accounts of beneficiary students through NEFT.
Administration	i. Employee information is fed and updated in the Government of Maharashtra's Management Information System of Higher Educational System (DHE-MIS). https://dhemis.maharashtra.gov.in/
Finance and Accounts	i. Pay roll and financial transactions are done through Sevarth e-portal. file :///C:/Users/user/Desktop/Sevarth20logi n.jsp.html ii. The purchasing is done through Government e-Marketplace and etendering process. https://gem.gov.in/
Student Admission and Support	i. The UG admissions are done through offline mode. But List of admitted Under Graduate students is displayed on Institute's website. ii. The group wise, caste wise, gender wise list of Under Graduate students is displayed on Institute's website. iii. PG admissions are done by centralized method for all the subjects by R. T. M. N. U Nagpur. Post Graduate Admission Portal as we are affiliated to R. T. M. N. U., Nagpur. http://rtmnupgadm.org/
Examination	i. Semester end examinations are conducted by R. T. M. N. U., Nagpur. The theory examination is conducted by conventional method but the question paper is provided to all the centers via email which is downloaded at the centre. ii. The valuation for Under Graduate examinations are done by online method. iii. The internal marks are submitted online to R. T. M. N. U., Nagpur through Examination Section Portal. iv. Marks of B. Sc. and M. Sc. practical exams are submitted online to R. T. M. N. U., Nagpur through Examination Section Portal. v. The hall ticket, mark list and digital degree are provided by R. T. M. N. U., Nagpur on Examination Section Portal. https://nagpur.university/

6.3 - Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Nil	Nil	Nil	Nil

[View File](#)

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)
2020	Teaching using Google classroom	Nil	29/04/2020	29/04/2020	60	Nil

[View File](#)

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

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Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
FDP	10	20/04/2020	07/07/2020	2
Orientation Program	1	08/02/2020	08/02/2020	1
Refresher course	5	01/09/2020	31/12/2020	14

[View File](#)

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
61	61	39	39

6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
1	1	1

6.4 - Financial Management and Resource Mobilization

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

i) Being a government Institute, audit is conducted by Accountant General (A.G.). The utilization of current year approved budget along with the budget projected for the forthcoming year is submitted to Director higher education, Pune every four months. Unless Account statement is verified, the budget for forthcoming year is not sanctioned by Director higher education. So it is in way similar to internal audit. ii) A. G. audit is done once in five years. iii) The audit of funds received from various funding agencies, like DPC RUSA is done by A.G. The audit of funds received from UGC is done by C.A. iv) The utilization certificate for all the grants is submitted to the respective agencies. For any audit objection, the mechanism for settlement is as under 1. Personnel from External Audit Party (EAP) i.e. A.G. Office, Nagpur are deputed for carrying out audit work. 2. On conclusion of audit of a particular period, EAP (A. G.) inform their final objections/queries (If any) to the Head of the Administrative Unit i.e. Director of our Institute in the form of an Audit Report. 3. EAP specify the control issues i.e. they comment on the points where the controls are required to be established or tightened to avoid repeating the same mistakes in future. 4. On receiving information of audit objections/queries, remedial actions are immediately initiated regarding the monitoring of internal controls to avoid repetition of the objection. Follow up is carried out regularly so that compliance of the observations is done within shortest possible time. 5. EAP provides a time limit for settlement of objections if there are major pending audit objections. Such matters are followed up and monitored periodically to ensure timely compliance. Although we try to comply with the audit objections within time frame, there are certain issues which can only be settled by the higher authorities. In such cases higher authorities are informed and requested to sort out the discrepancies at their earliest. 6. The Audit objections are settled with proper compliance and communicated to the A. G. by Director of the Institute

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
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AASCON, SPONSORED SCHOLARSHIPS, INDUSTRIAL SCHOLARSHIPS

108037001

STUDENT SCHOLARSHIP

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6.4.3 - Total corpus fund generated

1037001

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	Nil	Yes	IQAC
Administrative	Yes	Director, Higher and Technical Education, Pune	Yes	Director, Institute of Science, Nagpur

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

1. Parent teacher meeting 2. Counselling sessions

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

1. Workshop on google classroom. 2. workshop on Swayam

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

1. Organized Post NAAC accreditation Seminar on Institutional Values and Best Practices 2. NIRF submission 3. Proposal for Autonomy

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	Induction Program	23/07/2019	23/07/2019	28/07/2019	240
2020	Post NAAC accreditation Seminar on Institutional Values and Best Practices	08/01/2020	08/12/2020	08/12/2020	200
2020	Submission of proposal for Autonomous status	20/01/2020	20/01/2020	20/01/2020	10

2019	'UDDAN' ,workshop on Personality Development and soft skill	27/09/2019	27/09/2019	27/09/2019	200
2020	A two days "National Workshop on Applied Statistics for Industry"	08/02/2020	08/02/2020	09/02/2020	100
2020	A two days "National Webinar on Intellectual property rights and plagiarism"	05/05/2020	05/05/2020	06/05/2020	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
Gender sensitisation	26/09/2019	26/09/2019	70	30
Women Empowerment	12/03/2020	12/03/2020	80	20
"Student Health & Welfare" (Nutritional, Psychological, Gynecological & Fitness Counselling)	26/02/2020	26/02/2020	30	20

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

A Solar water heater is installed in girls hostel. 0.39 of total power requirement of Institute is met by the renewable energy source.

7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	3
Provision for lift	No	Nil
Ramp/Rails	Yes	3
Braille Software/facilities	No	Nil
Rest Rooms	Yes	3
Scribes for examination	No	Nil
Special skill development for differently abled students	No	Nil
Any other similar facility	No	Nil

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	1	1	04/09/2019	1	BLOOD DONATION CAMP	Community service	50
2020	1	1	13/02/2020	1	Construction of check dam at Gorewada	Community service	40
2019	1	Nil	04/09/2019	1	Mathematics, Science its Practitioners	Skill development	40
2019	1	1	10/07/2019	1	Cyber Awareness Programme	Community service	50
2020	1	Nil	12/02/2020	1	Visit to Aura park	Excursion	50
2019	1	Nil	02/09/2019	1	Visit to Ambazari Biodiversity Park.	Excursion	50
2019	1	Nil	27/09/2019	1	Visit to Salbardi	Excursion	10
2019	1	Nil	29/08/2019	1	Prospects of Botany in Seed Industry".	Skill development	100
2020	1	Nil	27/02/2020	5	Visit to Mumbai and NIO Goa	Excursion	30
Nil	1	1	29/07/2019	1	Quiz competition on the occasion of Tiger's Day	Content enrichment	30

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

Title	Date of publication	Follow up(max 100 words)
NIL	Nil	Nil

7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Yuva Jagruti Abhyaan	13/08/2019	13/08/2019	100
Eco -friendly Ganesh Visarjan Nirmalya collection	12/09/2019	12/09/2019	70
Tree plantation and adoption program	26/08/2019	26/08/2019	100

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

1. Plastic free campus
2. Mitigation of biodegradable waste through composting
3. Rain water harvesting
4. Organic farming
5. Development of landscape on unused land

7.2 - Best Practices

7.2.1 - Describe at least two institutional best practices

Title of the practice: 1. Organic farming

Goals: 1.To raise environmental sensitivity and awareness among students. 2. To create awareness about cultivation of contemporary agriculture crops. 3.Conservation of environment and natural resources to maintain ecological balance. 4.To put an end to chemical pollution by refusing use of fertilizers and pesticides. 5.To give hands on training to the students. 6.To create environmental awareness. 7.To provide self-employment opportunity to students. 8.To create awareness of entrepreneurship. 9.To motivate students for hard work. 10.To promote participation of students in earn and learn scheme.

1.The context: After the dawn of green revolution the use of chemical pesticides and fertilizers has increased significantly over the years to meet ever increasing requirement of food to feed surging population world over. . However there are some serious side effects of these latest agricultural practices, for example excessive use of chemical fertilizer and pesticide is causing serious diseases like cancer, harming general population. Some of these chemicals are hazardous which accumulate in plant parts and cause adverse effect on human health.

Latestechnology no doubt has increased yield of agriculture produce but with hazardous side effects. To overcome this menace organic farming is the best solution and, therefore, in order to create awareness among the students organic farming skill/technique is developed with the active participation of students. Environmentalists all over the world are raising concerns over the existing practice and promoting chemical free farming. We, at the institute level, are doing our own bit by starting organic farming in our premises. Access to healthy and wholesome food is the main motto behind organic farming besides developing entrepreneurship qualities and marketing skills among students.

2.Practice: This novel initiative is a joint effort undertaken by the NSS unit of our college along with the department of Botany, in collaboration with the Institute of Forensic Science which is also situated in our premises. Instead of chemical fertilizers locally prepared vermi-compost, manure and leaf litter is used. Vermi composting is done in the institute premises itself. Special pits have been prepared for the same, where leaf litter and biological waste is decomposed by incubating with earthworms. Compost produced is harvested and added to the field plots. The piece of land adjoining the Green house is used for cultivation. The land is prepared for cultivation by following conventional methods. Initially field is cleaned by de-weeding. Weeds were removed by weed cutter and by mechanical uprooting. Then field is ploughed and seeds are sown. The field is irrigated by using sprinkler irrigation system. Seasonal vegetables like spinach, fenugreek, coriander, Amaranthus etc are grown in small plots. The entire process from de-weeding and preparing the plots, sowing, watering and maintaining the field is done by the students under the guidance of young and enthusiastic staff members. Crop rotation and intercropping is practiced to preserve soil fertility and to make the whole process sustainable. The vegetables produced are sold to the employees at a reasonable cost. This healthy practice benefits the students in many ways. Apart from taking part in cleanliness drive, they become aware about green initiative, learn the importance of farming and develop marketing skills. The maintenance of the farm including cleanliness, irrigation and harvesting the produce is done by the students under "Earn and Learn scheme".

1.Evidence of success: 1.The entire plot of land covered with different vegetables is itself an evidence of success of this healthy and novel practice. 2.Seasonal vegetables like spinach, fenugreek, coriander Amaranthus,

Chenopodium album etc are grown in the farm by students. The record of crops grown and sold is maintained in a separate register. The revenue generated is used for preparing the farm for next season. 3. The students not only get acquainted with the practice of farming but actually get a chance to participate in the entire process. They become aware about self employment opportunities, entrepreneurship and how to judiciously manage funds besides earning money while learning. 4. Thus the environmental awareness in conglomeration with entrepreneurship speaks success story of organic farming. Title of the practice: 2. Holistic development Goals: 1. Promotion of holistic development of students is the prime motive of our Institute. 2. The objective of holistic development is to stimulate competitive spirit among the students to make them competent to face global competency. 3. The target is to inculcate among the students, values of life, develop their intelligence level, and promote leadership qualities, create social awareness to understand the duties and responsibilities as a responsible citizen of the country, all these leading to the holistic development of a student. 4. There is hidden talent and creativity dormant in every student which needs to be explored. 5. Though importance is given to classroom teaching, our institute has a network of extension cells with clearly defined objectives. 6. Various curricular and extra-curricular activities are organized by the different departments in collaboration with the extension cells like NSS, NCC, LACF etc. 7. These cells provide a platform to the students to showcase their talent and help in nurturing them. Our Institute also encourages needy students to follow "Earn and Learn Scheme". 1. The context: Sky is the limit for holistic development of every student. While ensuring the holistic development of the student it is also expected and observed that a general social awareness is created in the minds of the students. Various activities are undertaken for the holistic development of the student which in turn prepares them to be responsible citizens. Carrying out these activities with academics provides great platform for the students for their personality building and overall skill enhancement to meet the global challenges. The needy students of the Institute get chance to work under "Earn and Learn Scheme" so that while learning they get access to fulfill academic needs like books, textbooks, journals etc. 2. Practice: The following activities are conducted by the various committees on a regular basis. 1. NSS: This cell follows the slogan "Not me but you" and strives to create social awareness among students which will transform them into responsible citizens of our country. NSS conducts the following activities :- 1. Blood donation camp: To inculcate the feeling that we owe some debt towards society and that every responsible citizen must donate blood as and when possible which can save somebody's life, blood donation camps are organized every year. We take pride in mentioning that this camp is being organized in our Institute since the past three decades or more. 2. Cleanliness drive: - We strongly believe in the saying "Cleanliness is next to godliness". Cleanliness drive is organized regularly with the active participation of NSS students. Efficient solid waste management in the campus is the result of this activity. 3. Tree plantation: - Considering the importance of carbon footprints, tree plantation drive is conducted during July-August every year. 4. NSS Camp: - Every year a camp is organized for one week in a nearby village in which our NSS students create awareness among the villagers about cleanliness and hygiene besides educating them on various important issues. 1. LACF: The Literary and cultural forum (popularly known as LACF) was founded by a few talented students nearly 40 years back. It follows the slogan of "Brotherhood". The activities of the LACF include imparting guidance and training to students and encouraging them to take part in various cultural and literary programs. Various competitions like Debate, Elocution, Poetry and Open Talent Contest are organized by this forum to showcase the talent of students. LACF motivates the students for excelling in extracurricular activities. Every year there is a healthy competition among students to bag prizes. It is worth mentioning that under the aegis of this forum, our students have participated and bagged prizes in different cultural and literary events at University, Inter University and State levels. 2. Best Student Competition: The best student competition is conducted for the students of final year B.Sc. and M. Sc. Application in prescribed format are invited from the students of final year B.Sc. and M. Sc. wherein they have to furnish the details relating to academic performance, curricular, cocurricular and extra-curricular activities, sports achievements etc. A critical evaluation of the details is furnished made by the scrutiny committee and finally three

students are selected for presentation to be given by them before the Jury and they have to satisfy the queries of the Jury. The practice of best student award is unique in the Indian higher education because it helps students in making them globally competent. A very encouraging and successful impact of the practice has been observed in the past as a result of which large number of students have been selected for IAS, top ranking scientists etc. and holding very responsible and respectable positions in various organizations within and outside India. 1. Career Counseling 2. Women development cell 3. NCC 4. Student task force 5. Earn and learn scheme Evidence of success: Active participation of students and their involvement in the above mentioned programs helps in creating awareness among the students which has helped them in deciding excelling in the career of their choice.

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

<http://www.iscnagpur.ac.in/iqacupload/7.2.1%20Best%20Practices.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

The vision of our Institute is to inculcate scientific temper among students to address global challenges by producing scientifically trained leaders and innovators and enhancing public understanding of science. True to this vision, we encourage our students to pursue Master's program in the subject of their interest after graduation and take it up further for research. During the Masters program, students take research based projects (dissertation) in their core subject where they select global, local, academically challenged issues. Our vision takes us higher when students pursue Ph. D. in the subject of their inclination. Our institute is privileged to have 30 faculties who serve as research supervisors for Ph. D. programme. Along with the faculties, students publish significant number of research papers in various journals of repute. During last five years the numbers of publications are 550. We are not only a premier institute in publications of research papers but also filing patents. The distinctive area of Institutional performance with its vision, priority and thrust is "Research and its transformation in to extension activities." We are proud to mention that our institute was the only in Vidharbha and Central India offering Ph. D. in seven subjects under one wing for nearly three decades. We have faculties with expertise in various disciplines of Pure and Applied Science. The faculty sent proposal for minor and major research projects to different funding agencies, the students in turn get a chance to work as research fellows for these projects. Thus they not only enhance academic knowledge but also get monetary benefits. The students, researchers, faculties keep themselves occupied in research activities after they complete the academic work assigned to them. The research activity which is the most distinctive feature of our Institute inculcating scientific temper and our mission is to bring benefit of science to society by providing rich education experience is truthfully performed. The execution of our vision and mission in this particular area of research becomes more relevant when the research is transformed into extension work for community and we address local and global challenges through research by faculties, researchers and students. Research, the distinctive academic area of our institute is carried out by - 1.M.Sc. students - by handling research projects The students strive to work on academic, local and global problems. Our six academic departments, Botany, Zoology, Chemistry, Physics, Statistics and Environmental science gives project to students in their third semester. Research students - perusing doctoral studies leading to Ph. D degree. Our Institute is a recognized center for research in seven subjects Botany, Zoology, Physics, Chemistry, Mathematics, Statistics and Environmental science. C) Research by faculties- for their academic thrust and excellence. The faculties after completion of their academic duties do research independently or along with research student. For this purpose there is separate instrument laboratory in each department. Faculties from various department of Institute unite for collaborative research.

Provide the weblink of the institution

<http://www.iscnagpur.ac.in/igacupload/7.3.1.pdf>

8.Future Plans of Actions for Next Academic Year

• Plan to upgrade and improve campus amenities and infrastructure. • Introduction of more Add-on courses for the benefit of the students • To enhance collaboration with national and international institutions and agencies. • Faculty will prepare MOOC courses. • To encourage students to take advantage of MOOC. • For Academic Bank Credit a register will be maintained so that students get benefitted. • Faculty Development Programmes will be arranged for staff to improve their skills • Augmentation of facilities in library and laboratories • To improve teaching learning facilities by installing more smart class rooms. • To carry out extension activities for needy section of society. • To upgrade the infrastructure facilities to accommodate more students in hostels. • To upgrade administrative processes like, admission and result analysis. • To strengthen the students, teachers and parents through parent-teachers meeting. • To make the subjects more interesting by using ICT in the classrooms. • To provide content enrichment to meritorious students. • To provide remedial coaching to academically weak students. • To make collaborative linkages of the various departments of the Institute. • To conduct post NAAC accreditation seminars. • To plan industry-academicia workshop. • To arrange local and short excursion tours. • To visit industries and research institutes. • To make MoU's with Institutes of national repute like TIFR. • To establish more linkages with local industries • College will continue to undertake various environment friendly initiatives in coming year • To submit proposal and deployment of solar energy project. • To upgrade feedback system from manual to online. • To participate NIRF • To strengthen the Alumni and college relationship by involving Alumni in more projects. • In view of incoming pandemic situation due to COVID 19, online teaching-learning aids needs to be procure and training of teachers regarding online teaching mode will be plan.