



Yearly Status Report - 2018-2019

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		bhanu_105@yahoo.com
Address		R T Road Civil Lines, Nagpur
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	Sushama Narkhede
Phone no/Alternate Phone no.	07122228338
Mobile no.	9372397311
Registered Email	ioscnagpur@gmail.com
Alternate Email	iqaciosc@gmail.com

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.iscnagpur.ac.in/pdf/AQAR_2017-2018.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_calender_2018-19.pdf

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
3	A	3.07	2019	14-Jun-2019	14-Jun-2022
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
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries

Organization of National Students Conference	06-Mar-2019 2	400
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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	Nil	Nil	2019 00	0
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

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10. Number of IQAC meetings held during the year :

12

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

1. Institute of Science was accredited A Grade by NAAC. 2. Two days National Science Conference was organized. 3. Three workshops were organized.

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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	Achievements/Outcomes
1. To prepare AQAR for the year 201718 2. To prepare academic calendar and to follow it. 3. To form various committees in order to enhance the overall development. 4. To create MOU's with different Organizations. 5. To	1. AQAR was prepared and send to NAAC, Bangalore. 2. The academic calendar was followed. 3. Various committees were formed which worked according to the objectives. 4. MOU's was done with MCED. 5. Three workshops and one

organize institutional workshops and conferences. 6. Submission of IIQA followed by SSR. 7. Reaccreditation by NAAC. 8. Preparation of annual magazine "Replica" 9. Collection analysis of students' feedback completed. 10. Mentoring of students by faculty members was done. 11. API based PBAS was collected from the staff for the session 201819.

National Conference were organized by different departments. 6. IIQA and SSR were uploaded successfully. 7. Third Cycle of assessment by NAAC was done and Institute was awarded A grade. 8. Annual magazine "Replica" was prepared and published. 9. Collection analysis of students' feedback completed. 10. Mentoring of students by faculty members was done. 11. API based PBAS was collected from the staff for the session 201819.

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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 ?	Yes
Date of Visit	17-May-2019
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	11-Jan-2019
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

The curriculum planning is a well-defined process and its implementation is constantly reviewed in predefined time slots. It is planned to explore students' potential in academic, physical, cultural & social development. It is

designed to inculcate and impart subject knowledge besides improving the skill, attitude, behavior and performance of a student. Our Institute is affiliated to RTM Nagpur University and as such the syllabus for both UG and PG programs is provided by the University . Every year IQAC of the Institute prepares an academic calendar which is in tune with the university calendar , yet it reflects our vision of the domain of the course. Accordingly, the academic time-table for each course is prepared by the Institute. While preparing the time-table, the director invites suggestions from heads of all departments for implementation of the teaching plan. Meetings are held in each department about the course distribution and syllabus is allotted with instructions to teachers to carve out a well structured curriculum out of the allotted syllabus. At the entry level, students are made aware about the curriculum. Syllabii of all courses are available to students on RTM Nagpur University website. Copies of the same are made available in the respective departments as well as the library for use by students and faculty. At the beginning of the course, teachers spend some time on orientation about curriculum. The actual curriculum delivery is done through a variety of ways and methods, with emphasis on application oriented, hands-on experiences of learning by drawing on the constructivist approach to teaching and learning. Curriculum for both undergraduate and postgraduate courses is aimed at enhancing the fundamental aspects of the subject by implementing the following methodology: For academic performance The teacher-student interactive class teaching methods. Distribution of subject contents into small units to various teachers in the form of time-table. Adaptation of the curriculum to make it more relevant to the needs and interests of the students and society at large. Support of teachers beyond the classroom and institution by creating interactive groups on Whatsapp and emails, where regular exchange of ideas help in the implementation of the curriculum effectively. Regular assignments & tutorials. Enrichment of curriculum delivery by the use of ICT, online resources and multimedia activities besides a diversity of teaching methodologies like lectures, group discussions, student presentations, project-based learning, task-based learning, group/ pair work and many other learner centered practices. Educational tours to relevant industries and organizations. Evaluating students' level of perceptions by well-defined assessment methods. Guest lectures by scientists and industrialist on relevant topics. Seminars and quiz are conducted at the department level and students are encouraged to participate in inter-collegiate and intra-university academic competitions. Teachers are assigned the work of guiding the participating students. Providing computer facility & free wifi for completion of assignment and seminars. Students are also guided for retrieving the relevant information from online resources. Central library facility with books recommended by university and teachers . The library also provides online access facility.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
00	00	01/08/2018	00	00	00

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
MSc	Nil	01/07/2018
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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
MSc	Chemistry, Botany, Zoology, Statistics, Mathematics, Environmental Science	15/06/2018

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

	Certificate	Diploma Course
Number of Students	0	0

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
00	01/08/2018	0
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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	Botany, Zoology, Environmental science, Statistics	76
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
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)

<p>Feedback Obtained</p> <p>Feedback forms are collected from the students to evaluate a teacher's performance. Teachers performance is analysed on the basis of various questions asked in the feedback forms. The analysed data is tabulated teacher wise and percentage score is calculated for each faculty. The weak points and strong points are noted by the feedback committee for each teacher and graphical presentation is done by statistics department member. In case of unsatisfactory score for a particular point for a particular faculty is conveyed to the relevant person and necessary advice is given by the HoD to the respective faculty. feedback is also taken from students on facilities like library, laboratory, office service, cleanliness, internet facilities, etc on the campus. In addition feedback is also taken from the following stakeholders Teachers: Feedback is also taken from the teachers on the curriculum, facilities like laboratory, internet facility etc. Alumni: feedback on facilities on the campus, curriculum, suggestions for improvement of the curriculum. Parents: Feedback on facilities available for their wards and suggestions. Feedback collected from all stakeholders is analysed and</p>
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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	3000	240
MSc	Chemistry	36	100	36
MSc	Physics	36	140	36
MSc	Zoology	20	76	22
MSc	Botany	20	85	22
MSc	Environmental Science	10	25	11
MSc	Statistics	20	78	22
MSc	Mathematics	36	65	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
2018	660	362	58	58	58

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
61	53	9	18	18	13

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

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

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

The faculty members of Institute of Science under the flagship of Student-Mentoring committee has allocated all the students for being mentored by able faculty members. About twenty students are allotted to each mentor. The teacher mentor is in contact with the student mentee and collects information about difficulties they are facing and their academic track record. The mentor teacher provide guidance regarding career, competitive exams, future plans, boosts the mentees confidence, give a hearing to their personal concerns and attend to the students individually when required. The needs of the slow learners and advanced learners are addressed.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1022	61	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	61	22	0	45

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.K.S.Bhanu	Professor	Certificate of Excellence, Given by the Director, IOS, Nagpur
2019	Dr. Vijaya Sangawar	Professor	Dr. A. P. J. Abdul Kalam Award for Excellence
2019	Dr.P.S.Jakhi	Associate Professor	Best paper presentation in International conference
2019	Dr.S.A.Kalkar	Associate Professor	Second Prize for paper presentation at Govt. Institute of Forensic Sciences, 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
MSc	PG	II, IV	30/04/2019	20/06/2019
BSc	UG	II, IV, VI	30/04/2019	20/06/2019

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

The university has formulated certain formats of external and internal assessment viz., for UG it is 50 marks for theory paper by the University and 10 marks as internal assessment by the Institute and for PG it is 80 marks for theory paper by the university, 20 marks as internal assessment by the Institute. However, the Institute constantly tries to supplement and improvise on these mandated internal assessment prescriptions in different ways. In most

programs, the continuous internal evaluation covers all aspects of the curriculum. The college conducts periodic class tests and unit tests, the schedule for which is declared well in advance. In addition to this, we encourage students to give presentations either in pairs or groups on the topics related to the curriculum. Students are also internally assessed through group discussions on various relevant scientific topics. Similarly we organize student seminars on various topics regularly twice in an academic year. 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 organize department wise Poster display competition and Power Point seminar competition at our institute. Through the above continuous efforts, we have reformed the internal evaluation system of our institute. Seminars are regularly conducted for PG students. Students are encouraged to choose a topic of their interest based on their syllabus but in a way to enhance their knowledge. 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. Unit tests are regularly conducted which include both subjective and objective type questions. Besides this, students are asked to submit home assignments which gives them an opportunity to refer to books and online material which is later checked and corrected by the concerned subject teachers. 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 field work as well as the work completed in the laboratories. Some students carry out their project work in collaboration with research and other social organizations. The objective of critical thinking, analytical skill, and collaborative learning skill is fulfilled through such project works. The 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 future (higher) research work by the student. An essential criterion of internal assessment is the attendance of the students in the class which is regularly monitored.

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 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 endeavors 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
UG	BSc	PCM, CBZ, PSM, PEM, SCOM, CBEn, CZEn	203	166	81.77
PG	MSc	Chemistry	38	38	100
PG	MSc	Physics	35	32	91.42
PG	MSc	Mathematics	32	26	81.25
PG	MSc	Botany	21	13	61.90
PG	MSc	Zoology	19	18	94.74
PG	MSc	Statistics	21	19	90.47
PG	MSc	Environmental Science	11	11	100

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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://iscnagpur.ac.in/pages/NAAC_Reports.php

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	540	ICMR	1288860	644430
Major Projects	540	DST	1492700	119000

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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
Nil	Nil	01/08/2018

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
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Second Prize for paper presentation at Govt. Institute of Forensic Sciences, Nagpur in National Seminar on Forensic Sciences	Dr S A Kalkar	Institute of Forensic Sciences	09/01/2019	Research
Best paper presentation in International conference on Redefining Environmental governance for smart city.	Dr. P. S. Jakhi	RTMNagpur University	01/03/2019	Research
Certificate of Excellence	Dr. K.S. Bhanu	JCI Nagpur Central	24/01/2019	Research
Dr. A. P. J. Abdul Kalam Award for Excellence	Dr. Vijaya Sangawar	By Honble Former Governor of Sikkim , Friendship Forum (NGO)	24/01/2019	Research
Certificate of Excellence	Dr. Vijaya Sangawar	Director Institute of Science, Nagpur	24/01/2019	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
00	00	00	00	00	01/08/2018
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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
Chemistry	13
Physics	6
Mathematics	1
Botany	4
Zoology	3
Statistics	1

Library	1
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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	21	1
International	Physics	8	1
International	Mathematics	1	0
International	Botany	3	1
International	Zoology	1	0
International	Statistics	1	0

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

Department	Number of Publication
Chemistry	3
Physics	1
Statistics	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
00	00	00	2018	0	00	0

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
00	00	00	2018	0	0	00

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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	1	6	1	0
Attended/Seminars/Workshops	12	12	0	0
Presented papers	12	8	0	0

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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Tree plantation program organized by Gorewada rescue centre on dated 1 July 2018	NSS Unit of Govt. Institute of Science Gorewada Project.	2	30
Aqua Rally program organized by R.T.M.N.University Nagpur L.A.D College Nagpur on dated 2nd September 2018	R.T.M.N.University Nagpur L.A.D College Nagpur	2	50
Raksha Bandhan program on 28th September 2018 at Sitabuldi police station Morbhavan bus stand	NSS Unit of Govt. Institute of Science,	2	50
Intercollegiate blood donation camp by National Service Scheme On, 19th September, 2018, in Institute of Science, Nagpur.	NSS Unit of Govt. Institute of Science	15	70
Program Street Play on dated 2nd October 2018 morning organized at 1) Mahharajbagh Garden, 2) Meetha Neem dargha 3) Variety Square	NSS Unit of Govt. Institute of Science	2	120
Street play organized on occasion of Constitution Day on 26th November 2018,	NSS Unit of Govt. Institute of Science	1	70
Sweater shawl Donation Program on 10th January 2018	NSS Unit of Govt. Institute of Science	1	40
State level camp , Adasa 28/01/2019 to 3/02/2019	Dharampeth M.P. Deo Memorial Science College ,	0	5
State level camp at sanjivan vrudhashram amgaon deoli 28/01/2019 to	Santaji College, nagpur.	0	8

4/02/2019			
State level camp at kuhi mandal on dated 19/02/ 2019 to 25/02/ 2019	Lemdeopatil college of kuhi mandal	0	2
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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
0	0	0	0
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
00	00	00	0	0
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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
Visit to Aura Park for imparting knowledge regarding medicinal plants to students	44	Nil	01
M.Sc. Project done by one of the student in collaboration with NEERI	01	Nil	180
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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
Research	MOU	Ayurvan Foundation, Nagpur	22/09/2018	22/09/2019	04
Training / Workshop / study	MOU	Santaji Maha vidyalaya, Nagpur	12/01/2019	16/03/2019	52

Research	Identification of fish species	Lata Medical Research Foundation	27/12/2018	23/01/2019	02
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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
DELNET, New Delhi	24/08/2018	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	16/10/2018	Short Term Training program	1
IGNOU	01/01/2018	B.Sc., PGDAC, CPLT	350
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
250	249.9

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
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
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4.2 – Library as a Learning Resource

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

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

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	38132	4864638	0	0	38132	4864638
Reference Books	2000	397952	0	0	2000	397952
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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
00	00	00	01/08/2018
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	277	3	1	1	7	1	9	100	0
Added	2	0	0	0	0	0	0	0	0
Total	279	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
00	00

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
8.64	7.13	285.44	285.44

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. Maintaining department wise stock register. Department wise annual stock verification. Regular maintenance of laboratory equipments and chemicals. Overall maintenance of campus by campus discipline and cleanliness committee of the Institute. Regular cleaning of water tanks, proper disposal of garbage, pest control, landscaping and maintenance of lawns. Maintenance of all facilities and cleanliness of environment in hostel by hostel monitoring committee. Outsourcing is done for maintenance and repairing of CCTV, computers, internet facilities including leased lines, Wi-Fi and broadband, updating of softwares. Maintenance of wooden furniture of institute is done as and when required with the help of PWD and other agencies. 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. 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. 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. Lightning arrester is installed at proper place to safeguard the equipments from lightning and thunder. 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. 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. Special provision is made for the storage of gas cylinders outside the laboratories. Chemicals are stored as per the standards specified by the suppliers.

<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
No Data Entered/Not Applicable !!!			
View File			

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
Students Mentoring	10/07/2019	660	Students Mentoring Committee
Guidance for competitive	15/02/2019	315	Prayas 15 an 16 Feb 2019 ,Aakar

examinations			Foundation (MPSC, UPSC) 315
Aptitude Test	27/09/2018	228	Narayan IAS Acxademy
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Career Counseling and Placement Cell	631	631	0	19
View File					

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Private Companies Educational Institute	180	7	Private Companies Educational Institute	12	12
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	75	B.Sc	Science	Higher Educational Institute in Maharashtra and Out of Maharashtra	Post Graduate in Science Subject
View File					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year

(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
SET	2
View File	

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, State, National and International Level	1205
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
View File						

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 inter-university 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. The Whatsapp groups are formed by the student in-charge news related to placement is posted.

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) :

946902

5.4.4 – Meetings/activities organized by Alumni Association :

Year No. 2018-19 alumni association meetings -10 Dates of meetings No. of members attended 07/11/2018 (7), 08/08/2018(4), 09/05/2018(9), 17/9/18(7), 12/12/2018 (8), 13/2/19(8), 17/2/19(8), 22/2/19(9), 26/4/19 (5), 05/03/2019(5), 15/5/19(6).

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
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.

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

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

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.

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 e-journals 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.

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
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
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 Post-graduate 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

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

E-governance area	Details
Student Admission and Support	<p>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.</p> <p>https://nagpur.university/</p>
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/Sevarth20login.jsp.html ii. The purchasing is done through Government e-Marketplace and e-tendering 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/

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	0
2018	Nil	Nil	Nil	0
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)
2018	Nil	Nil	30/12/2019	30/12/2019	0	0
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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Orientation Course	3	19/11/2018	24/11/2018	06
Swayam Refresher	1	23/03/2019	23/03/2019	01

Course in
Chemistry

[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
18	18	04

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
AASCON, Sponsored Scholarship, Industrial Scholarship	1041502	Students Scholarship

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6.4.3 – Total corpus fund generated

1041502

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No		Yes	IQAC
Administrative	Yes	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 - 9
2. Soap and detergent making workshop for parents
3. Counselling sessions

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

1. Workshop on google classroom. 2. workshop on Swayam 3. Hands on training for instrumentation.

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

Accreditation Date -14 June 2019

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
c) ISO certification	Yes
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	Organized National Student Conference	06/03/2019	06/03/2019	07/03/2019	400
2019	Organized Prayas ,Two days workshop on Personality Development and soft skill	14/02/2019	14/02/2019	15/02/2019	400
2019	Induction Program	23/07/2019	23/07/2019	23/07/2019	240

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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
Health Awareness of women	29/09/2018	29/09/2018	89	11
International womens day	08/03/2019	08/03/2019	150	20
Role of ICC	27/03/2019	27/03/2019	20	10

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
Ramp/Rails	Yes	10
Rest Rooms	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	0	1	28/08/2018	4	Blood donation	Community service	50
2018	1	0	22/12/2018	2	Guest lecture on Mathematical Physics by Dr. Shyam Bhoga	Career guidance	50
2018	1	0	30/08/2018	12	WORKSHOP on Data analysis using SPSS	Career guidance and skill development	40
2018	1	0	28/08/2018	4	Biophysics-Interdisciplinary science	Career guidance	50

2018	1	0	09/10/2018	48	Visit to Semadoh and Chikaldara	Excursion study	50
2018	1	0	26/10/2018	10	Visit to Ravanwadi	Excursion study	50
2018	1	1	31/08/2018	2	Guest lecture on Solid waste pollution and Management by Mr. Makarand Pandharipande	Career guidance and social awareness	75
2018	1	0	05/10/2018	4	Visit to Gorewada water treatment plant	Excursion study	40
2018	1	0	24/08/2018	2	Guest lecture on Number Theory by Dr. A. S. Muktibodh	Career guidance	50
2018	1	0	09/11/2018	2	Guest lecture on Career opportunities in biological science by Dr. M. M. Baig	Career guidance	50

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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)
HAND BOOK OF STATUTES	01/06/2018	In accordance with the section 17 (10) of the Maharashtra Universities Act, 1994, we have updated and compiled this Hand book of Statutes laid down by the Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur. This humble attempt is in continuation of the earlier ones resulting in carving out of the Hand

books of the Statutes. There has been a distinct development in terms of promulgation of the Maharashtra Universities Act, 1994, with effect from 22nd July, 1994, which necessitates fresh laying down of Statutes in consonance with its governing provisions, including maintenance and retention of the previous statutes, laid in accordance with Rashtrasant Tukadoji Maharaj Nagpur University Act, 1974 to the extent they are not inconsistent with the provisions of the new Act.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Traffic Awareness programme	19/02/2019	19/02/2019	50
Aqua rally	02/09/2018	02/09/2018	40
Antinaxalism and antialcoholism awareness	05/02/2019	05/02/2019	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. Latest

technology 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

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 monitory 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.
- To encourage students to take advantage of MOOC
- 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. • To submit the proposal for autonomy