

Estd : 1906



GOVERNMENT OF MAHARASHTRA
विज्ञान संस्था, नागपूर.
**INSTITUTE OF SCIENCE
NAGPUR.**

Phones : 2565581
(Director) : 2561148
(Office) Fax : 0712-2565581

COLLEGE WITH POTENTIAL FOR EXCELLENCE

www.iscnagpur.ac.in

Email: dir_ins_ngp@yahoo.com

To,

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL,

Banglore

Subject- Submission of AQAR 2014-15

Dear Sir,

Herewith submitting the AQAR of our Institute for the year 2014-15 for further perusal.

Thanking you

Place:-Nagpur

Date:- 27.10.2016



Dr.R.G.Atram

Director

Institute of science, Nagpur

Director
Govt. Institute of Science
NAGPUR.

Rabindranath Tagore Marg, Civil Lines, NAGPUR-440 001. (India)

रविंद्रनाथ टैगोर मार्ग, सिविल लाईन्स, नागपूर - ४४० ००१ (भारत)



Government Institute of Science, Nagpur

College With Potential for Excellence

**Affiliated to
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**

**Annual Quality Assurance Report
2014-15**

Submitted to

**NATIONAL ASSESSMENT & ACCREDITATION COUNCIL (NAAC)
P.O.Box. No. 1075, Nagarbhavi, Bangalore - 560072**

**Submitted by
Dr. R.G.Atram
Director
Government Institute of Science, Nagpur**

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)*

Part – A

1. Details of the Institution

1.1 Name of the Institution

Institute of Science, Nagpur

1.2 Address Line 1

R. T. Road, Civil lines,

Address Line 2

Beside R. T. M. Nagpur University

City/Town

Nagpur

State

Maharashtra

Pin Code

440001

Institution e-mail address

info@iscnagpur.ac.in

Contact Nos.

0712-2561148

Name of the Head of the Institution:

Dr. R. G. Atram, Director, Institute of Science, Nagpur

Tel. No. with STD Code:

0712-2565581, 2520571

Mobile:

919975849004

Name of the IQAC Co-ordinator:

Dr. Sushama D. Narkhede

Mobile:

919372397311

IQAC e-mail address:

iqaciosc@gmail.com

1.3 NAAC Track ID (For ex. MHCOGN 18879)

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.

This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

EC/62/RAR/097 dated 05-01-2013

1.4 Website address:

www. iscnagpur.ac.in

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR201213.doc>

1.5 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B ⁺⁺	81.05%	2004	2004-2009
2	2 nd Cycle	B	2.85	2013	Upto Jan-2018
3	3 rd Cycle				
4	4 th Cycle				

1.6 Date of Establishment of IQAC :

DD/MM/YYYY

01/07/2000

1.7 AQAR for the year (for example 2010-11)

2014-15

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*for example AQAR 2010-11 submitted to NAAC on 12-10-2011*)

- i. AQAR for the year 2013-14 **12/11/2014**
 ii. AQAR for the year 2012-13 **12/05/2016**
 iii. AQAR _____ (DD/MM/YYYY)
 iv. AQAR _____ (DD/MM/YYYY)

1.9 Institutional Status

University State ☒ Central ☐ Deemed ☐ Private ☐

Affiliated College Yes ☒ No ☐

Constituent College Yes ☐ No ☐

Autonomous college of UGC Yes ☐ No ☒

Regulatory Agency approved Institution Yes ☐ No ☒

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education ☒ Men ☐ Women ☐

Urban ☒ Rural ☐ Tribal ☐

Financial Status Grant-in-aid ☒ UGC 2(f) ☒ UGC 12B ☒

Grant-in-aid + Self Financing ☐ Totally Self-financing ☐

1.10 Type of Faculty/Programme

Arts ☐ Science ☒ Commerce ☐ Law ☐ PEI (Phys Edu) ☐

TEI (Edu) ☐ Engineering ☐ Health Science ☐ Management ☐

Others (Specify)

1.11 Name of the Affiliating University (*for the Colleges*)

R. T. M. Nagpur University, Nagpur

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence UGC-CPE ☒

DST Star Scheme UGC-CE

UGC-Special Assistance Programme DST-FIST

UGC-Innovative PG programmes Any other (*Specify*)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2. 6 No. of any other stakeholder and
community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders: No. Faculty

Non-Teaching Staff Students Alumni Others

2.12 Has IQAC received any funding from UGC during the year? Yes ☒ No ☐

If yes, mention the amount

Seed money amount of Rs. 3,00,000/- received during 2014-15 (Under the UGC XII plan scheme of Establishment and Monitoring of IQAC. The money is to be used for 4 consecutive years.

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

- Co-hosted 2nd International Congress of Society for Ethno pharmacology (SFEC-2015) PG department of Pharmacy RTM Nagpur University Nagpur. (20-22 February,2015)
- Organized Exhibition of medicinal plants and Demonstration of Chitaley herbarium technique for plant preservation at National Conference, Mohata Science College Nagpur. (March 2015)
- IQAC in collaboration with Placement Cell conducted a students' workshop at the Institutional level titled 'Shubharambh' to orient the first year students about facilities and Institute staff and to get suggestions, feedback from the students

2.14 Significant Activities and contributions made by IQAC

IQAC conducted various activities throughout the year that includes

- The theory internal marks of the students in the science subjects were entered on the basis of their classroom attendance, unit test performance and assignment submission.
- The IQAC conducted an internal academic audit of all the departments to review the teaching learning process, students' evaluation, feedback mechanism, curricular, extracurricular and extension activities.
- Under the supervision of IQAC all curricular, extra-curricular and extension activities were carried out as per the Institute calendar. IQAC also monitored and assessed academic and administrative performance through the Student feedback mechanism.
- IQAC motivated Faculty Members for submission of Major and Minor Research Projects and publication of Research Papers in National and International Journals.
- Collection and analysis of student's feedback on teachers, facilities and syllabus.
- Collection of Academic Performance Indicators (API) based PBAS formats from the Faculty Members.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
1. To prepare academic calendar and to follow it. 2. To form various committees in order to enhance the overall development. 3. Submission of new proposals of Major and Minor Research Projects.	1. The academic calendar was followed. 2. Various committees were formed which worked according to the objectives. 3. Research project proposals were submitted to the UGC. Four proposals have been sanctioned.

** Attach the Academic Calendar of the year as Annexure.*

2.15 Whether the AQAR was placed in statutory body Yes ☐ No ☒

Management ☐ Syndicate ☐ Any other body ☐

Provide the details of the action taken

--

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	01(7subjects)	-	-	-
PG	01(7subjects)	-	-	-
UG	01	-	-	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	03	-	-	-
Others	02	-	-	01
Total	08	-	-	01
Interdisciplinary				
Innovative				

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options
(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	02 (UG and PG)
Trimester	-
Annual	01(UG-B.Sc. III)

1.3 Feedback from stakeholders* Alumni ☒ Parents ☒ Employers ☐ Students ☒
(On all aspects)

Mode of feedback : Online ☐ Manual ☒ Co-operating schools (for PEI) ☐

**Please provide an analysis of the feedback in the Annexure*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

- Institute of Science is affiliated to R. T. M. Nagpur University, Nagpur. Therefore we follow the syllabi of the University.
- The Credit based semester pattern has been implemented for the UG (B.Sc. I & II) PG course.
- Final Year UG course in Science stream will follow a semester pattern in 2015-16. So the university syllabi are revised for these courses during 2014-15.
- As per universities notification first year M.Sc. will follow CBCS pattern from session 2015-16. So the University syllabi are revised during 2014-15.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
48	38	06	02	1+1

2.2 No. of permanent faculty with Ph.D.

37

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
38	14	06	14	02	06	2	1	48	36

2.4 No. of Guest and Visiting faculty and Temporary faculty

12/101

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	08	16	00
Presented papers	06	07	00
Resource Persons	02	05	00

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Use of ICT in teaching and learning process such as PowerPoint Presentation and short video clips.
- The students are provided with question banks.
- Home assignments are given to the students.
- Continuous assessment of students through Unit Test.
- Student presentations on various topics.
- Guest speakers are invited to cover different topics.
- Quiz contest and problem solving activity is regularly conducted to make the ideas more clear.
- Practical's in Statistics are carried out using statistical package R,
- Field study tour are also organised for the students by different departments.
- Wi-Fi internet facility for students and teachers in the Library

2.7 Total No. of actual teaching days during this academic year

180

2.8 Examination/ Evaluation Reforms initiated by

Assignment and Unit tests

the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

2.9 No. of faculty members involved in curriculum Restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

10

2.10 Average percentage of attendance of students

75%

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
UG	259	6.66	16.44	31.11	45.77	86.87
PG	146	8.22	20.54	11.64	-	40.41

Noteworthy Results of Summer- 2014 Examination of RTM Nagpur University:

- Ms. Apoorva Ramesh Pali Stood first in the merit list of M. Sc. 2014 examination of RTMNU in the subject **Statistics** and received **Four Gold Medals** from RTMNU
- Ms. Humaira Fatema Mohd.Iqbal secured first position in the merit list of B.Sc. **Environmental Science** examination of the RTMNU in summer 2014 and received **one Gold Medal** 2014.
- Ku.Kamna Pradip Laghate received a **Gold Medal** for securing highest marks in the subject Statistics.in B.Sc. summer 2014 examination of RTMNU.
- Ku. Mayuri Shrirang stood first in order of merit list of M.Sc. Environmental Science examination of RTMNU summer 2014 and received **Swaminathan Memorial Gold Medal**.
- Ku.Rubina Khalikbhai Sheikh stood second in order of merit list of M.Sc. Environmental Science examination of RTMNU summer 2014.
- Ku.Sneha Udaram Dhere stood third in order of merit list of M.Sc. Environmental Science examination of RTMNU summer 2014.

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

IQAC contributes, monitors and evaluates the teaching learning process through various committees

- IQAC has formed various committees. It has also divided the task in three different categories viz. Academics, Administration and Finance. Likewise it has three heads under the guidance of IQAC.
- Various other committees related to these three heads are handled by respective heads.
- Unit tests and Terminal examinations are conducted as per the academic calendar.

- IQAC plans all the academic, co-curricular and extracurricular activities in advance.
- Academic calendar committee puts it in a proper perspective.
- Time table committee of individual department, works out the time table of that department
- Student feedback is collected and corrective action is taken if needed.
- By proposing various methods to make the teaching more students centric.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	04
UGC – Faculty Improvement Programme	01
HRD programmes	00
Orientation programmes	00
Faculty exchange programme	00
Staff training conducted by the university	01
Staff training conducted by other institutions	00
Summer / Winter schools, Workshops, etc.	01
Others	

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	00	01	01	01
Technical Staff	00	00	00	00

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- Established Research Committee for monitoring, promoting and to encourage the faculty for research in the concerning subject.
- Faculty members are encouraged to publish research papers in various Journals with Impact factor.
- They are encouraged to present papers at National & International Conferences, For which they are sanctioned duty leave.
- Institute also organizes Seminars, Symposia Workshops and Conferences at National & International levels to promote research.
- Young researchers to present their research work to their peers and the experts in the concerned fields.
- Two International awards and Best reviewer award were awarded to the faculties from Chemistry and Best Performer of the year to a faculty from Physical Education department.
- Best paper award was given to a faculty from Chemistry in the International conference held in Greece.
- In this session the faculty published **88** papers in the International Journals and **22** papers in the National Journals and **10** in non-peer review, **10** in e-journals.
- The Director always motivates the staff for sending research proposals to various funding agencies.
- There are **4** Major and **4** Minor ongoing Research projects.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	0	04	0	0
Outlay in Rs. Lakhs	0	58.313	0	0

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	0	03	01	04
Outlay in Rs. Lakhs	0	4.15	2.7	10.95

3.4 Details on research publications

	International	National	Others
Peer Review Journals	88	22	
Non-Peer Review Journals	10	0	
e-Journals	10	0	
Conference proceedings	08	09	04

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	03	UGC	58.313 Lacs	16.914 Lacs
Minor Projects	02	UGC	4.15 Lacs	3.325 Lacs
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects (other than compulsory by the University)				
Any other(Specify)				
Total	05		62.463 Lacs	20.239 Lacs

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme

INSPIRE ☒ CE Any Other (specify)

3.10 Revenue generated through consultancy

CRICKET GROUND RENT : 24600/-

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	01	Nil	Nil	Nil	Nil
Sponsoring agencies	UGC	Nil	Nil	Nil	Nil

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs : 20.239 Lacs

From Funding agency 20.239 Lacs

From Management of University/College

Total 20.239 Lacs

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	01
	Granted	
International	Applied	
	Granted	
Commercialised	Applied	
	Granted	

3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
05	04	01				

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

31

80

3.19 No. of Ph.D. awarded by faculty from the Institution 15

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF 10 SRF 01 Project Fellows 01 Any other 01

3.21 No. of students Participated in NSS events:

University level 100 State level 10
National level Nil International level Nil

3.22 No. of students participated in NCC events:

University level State level
National level 03 International level

3.23 No. of Awards won in NSS:

University level	03	State level	Nil
National level	Nil	International level	Nil

3.24 No. of Awards won in NCC:

University level	Nil	State level	Nil
National level	Nil	International level	Nil

3.25 No. of Extension activities organized

University forum	01	College forum	10		
NCC	Nil	NSS	15	Any other	02

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

Staff as well as students of our Institute actively participates in various community services. Every year we provide some services to the society which is listed below.

- NSS unit of the college has organised and participated in different programs in and out of the Institute for a social and noble cause. Remarkable programs such as,
 - NSS camp at Sanjeevan Vruddhashram, Amgaon Deoli, Tal Hingana, Dist Nagpur
 - Blood donation camp
 - Campus cleanliness drive and Tree Plantation in the Institute
 - Traffic Rules Sensitization Programme
 - Paper Craft for skill development
 - Rally for spreading the message about use and conservation of water
 - Celebration of Constitution day
 - Demonstrating and educating voters about the working of voting machine.
 - Organising Street plays for awareness on different current issues.
 - “Awhan - Chancellors bridged” a state level program on disaster management
 - University level One day workshops on Clean India Movement
 - State level camp at : Davalipar, Bhandara, Chikhaldara, Amarawati, Adasa, Ngpur , Kinwat, Nanded
 - One day workshop for programme officers on AIDS Awareness

- Helping the Buddha brothers and sisters by for providing snacks and water to them for three to four days on Dasherra and Dhamma Charka Pravartan Din.
- A credit Co-operative society was established in 1983 for the benefit of our employees. It provides long term as well as short term loans to the employees. A co-operative store is also run by the society in the premises which provides necessary service to the students and staff.
- Facility for Identification of plants is made available to the various agencies / institutions like Forensic department and other researchers by the botany department.
- A well-equipped Gymnasium is installed in the Institute. Students, teachers and non-teaching staff regularly avail this facility. During winter assembly session the secretariat staffs also enjoys this facility.
- Plant identification is carried out by the staff members of Botany department as and when required. The Botanical Society also arranges awareness campaigns and other personality development programmes for the benefit of the students.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	51520 m ²	-	-	51520 m ²
Class rooms	25	-	-	25
Laboratories	37	-	-	37
Seminar Halls	10	-	-	10
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	-	06	-	06
Value of the equipment purchased during the year (Rs. in Lakhs)	-	50,05,817/-	DPDC	50,05,817/-
Others	-	-	-	-

4.2 Computerization of administration and library

Most of the office and administrative work is carried out by using the computers. Each department in the institute is having the sufficient number of computers. The campus is covered by the Wi-Fi internet network for the quick and easy access to the internet. The online employee profiles of all the staff members are uploaded on Sewarth and Director of Higher education website. The library is computerised. Internet facility is made available to the students in the library by the use of computers.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	52721	20634000	558	275464	53279	2339464
Reference Books	2000	3856000	-	-		
e-Books	90000 UGC-NLIST		-	-	-	-
Journals	65		-	-	-	-
e-Journals	2000 UGC-NLIST	Free	-	-	-	-
Digital Database	10 UGC-NLIST		-	-	-	-
CD & Video	100	Free	-	-	-	-
Others (specify)	Nil		-	-	-	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	172	3(88)	Available	1(20)	-	1(12)	10(49)	03
Added	12	12	-	-	-	-	-	-
Total	184	100	Available	20	-	12	49	03

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Wi-Fi College Campus
- Computers with Wi-Fi Net Connectivity for students and staff
- Seminars Hall with LCD Projector

4.6 Amount spent on maintenance in lakhs :

i) ICT	.10000/-
ii) Campus Infrastructure and facilities	8831934/-
iii) Equipments	778844/-
iv) Others	-
Total :	9620778/-

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Simplified prospectus is circulated among the students at the time of admission.
- Students counseling at the time of admission.
- Conduction of an orientation programme for new comers by IQAC for making Students aware about the college campus, Infrastructure, teachers, sports & other facilities.
- Notices and required information is put up on notice boards for students.
- IQAC then monitors activities of the cells like Training & Placement cell, NSS, NCC, Women Cell, Human Right Cell and cultural activities, Internet facility, Gymnasium for boys and girls, Xerox facility, Yoga classes, cooperative store for the students, Personality development, Interaction with the expertise in the various fields for all round development of students.
- Student's feedback is taken every year about the teachers and facilities available in the institution.

5.2 Efforts made by the institution for tracking the progression

- Internal tests are conducted regularly to monitor and measure students' academic Performance.
- Parent -Teacher meeting is conducted to keep the parents informed about their ward's Performance.
- Progressions are regularly monitored on one to one basis.
- Through Career and Placement Cell, students are informed about various career and job Opportunities.
- Emphasis is laid on personality development of the students.
- The Placement Cell regularly organized brief training programmes for students.
- Feedback mechanism from student.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
912	303	22	00

(b) No. of students outside the state

00

(c) No. of international students

00

No	%
363	29.88

Men

Women

No	%
852	70.12

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
399	235	43	517	01	1194	315	269	61	570	8	1215

Demand ratio 1: 30 Dropout % : 20.5%

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

Career Guidance and Placement Cell organizes talks in connection with competitive examinations.

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET	04	SET/SLET	02	GATE	01	CAT	
IAS/IPS etc		State PSC		UPSC		Others	02

5.6 Details of student counselling and career guidance

- To arrange campus interviews by different companies and help the students to appear at these campus placements.
- To arrange the career guidance programmes frequently by the eminent personalities from various companies/ organisations/institutions in order to prepare them for facing the interviews.
- To organise personality development programmes in order to boost their confidence and built up the personality.

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
Nil	Nil	Nil	10

5.8 Details of gender sensitization programmes

Nil

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	-	-
Financial support from government	559	3262454
Financial support from other sources (AASCON)-alumni association	12	89001
Number of students who received International/ National recognitions	-	-

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: Nil

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

The vision of our Institute is to inculcate scientific temper among students to address global challenges by advancing the frontiers of science, by producing scientifically-trained leaders and innovators and enhancing public understanding of science.

Mission

Our mission is to bring the benefits of science to society by providing access to a rich educational experience that will motivate and enable all of our students, to seek the highest levels of intellectual achievement in the physical, chemical, mathematical and biological sciences and attain an all-round personal growth with high moral values.

6.2 Does the Institution has a management Information System

Institute of Science is the Government Institute and the Director of Higher Education, Pune, has recently implemented the Management Information System for all the government colleges in Maharashtra region. The website of Management information system is www.mis.dhepune.info.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

Since the Institute is affiliated to R T M Nagpur University, we have to follow the curriculum developed by University. However some faculty members are active members of Board of Studies involved in curriculum development. Semester pattern is adopted by RTMNU, Nagpur at PG level.

6.3.2 Teaching and Learning

- Use of audio-visual aids for teaching.
- Seminar and presentations by students
- Periodic evaluation of students by conducting tests.
- Student's feedback.
- Unit-wise tests are taken regularly after completion of unit by respective teacher. Similarly, home assignments are also given to students.
- Extra classes are conducted by teachers to complete the course prescribed in the syllabus as and when needed.

6.3.3 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.
- Institute also evaluate the progress of the students by conducting the periodic unit tests and the Terminal test examination.

6.3.4 Research and Development

- 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.
- Central Instrumentation lab is available in the institute.
- The staff is actively involved in sending **research project proposals** to various funding agencies.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Institution has a library which has very rich collection of reference books and research journals catering to the needs of research, post and under graduate students, as well as the teaching staff.
- Well-furnished reading room for students,
- Separate reading room for teachers, bibliographic compilation, newspaper clippings service
- Various journals are subscribed.
- Newspapers of local and national repute, competitive and sports magazines and other reading material help the students in competitive examinations.
- The reading room is well stacked with encyclopedias on various subjects.
- The entire library is under renovation.

6.3.6 Human Resource Management

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.

6.3.7 Faculty and Staff recruitment

- Institute of science, Nagpur is Government Institute and the recruitment of staff is done by the Maharashtra Public Service Commission (MPSC) as recruiting agency.
- Director recruits CHB as per requirement.

6.3.8 Industry Interaction / Collaboration

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.

6.3.9 Admission of Students

As per Government norms and of affiliated University

6.4 Welfare schemes for

Teaching	GPF, G.I.S. Govt. quarter facility, Medical facility, Govt. loan scheme, LTC, Medical leave
Non teaching	GPF, G.I.S. Govt. quarter facility, Medical facility, Govt. loan scheme, LTC, Medical leave, festival advance
Students	Scholarships, Hostel facility, Placement and career & Guidance cell

6.5 Total corpus fund generated

2117137/- (PLA)

6.6 Whether annual financial audit has been done

Yes

☒

No

☐

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	✓	Ex. Director/ Professors	✓	Director
Administrative	✓	Higher authority	✓	Director

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes Yes ☐ No ☒

For PG Programmes Yes ☐ No ☒

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

NA

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

NA

6.11 Activities and support from the Alumni Association

The Institute has a very cooperative and strong alumni association, AASCON, which functions for the benefit of students of our Institute. Every year AASCON provides financial assistance to the merit students in the form of prizes and scholarship.

6.12 Activities and support from the Parent – Teacher Association

- The Parents Teacher forum of the Institute organizes meetings of the parents with the staff and Director to discuss various aspects like attendance and academic performance of their wards. All teachers, students and their parents actively participate in the discussion.
- The parents give suggestions regarding canteen, library and other facilities. The Parents Teacher forum has taken the necessary actions in this matter.

6.13 Development programmes for support staff

- Fund raising schemes operated by the co-operative society of Institute of Science.
- Society also awards various scholarships to the wards of members for their meritorious performances.

6.14 Initiatives taken by the institution to make the campus eco-friendly

- Tree plantation to increase the green cover of the Institute.
- The initiative has been taken to dispose of the e-waste of the institute as per the Govt. Guidelines.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Examination reforms in the form of continuous evaluation, internal assessment etc.
- The Institute imparts three skill based certificate courses, due to which students besides class room training are groomed for employability.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

- Action taken report on the plan of action decided upon in the beginning is as per 2.15 of PART - A

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

- Holistic development of students.
- Fostering Social Responsibility through Extension activities: NSS, NCC, Sports

****Provide the details in annexure (annexure need to be numbered as i, ii,iii)***

7.4 Contribution to environmental awareness / protection

- For energy conservation laboratory equipment's are put on only when they are to be used.
- The premises of the Institute of Science has good vegetation belt with variety of huge trees in the garden and around the area.
- Solar light system is installed in the premises.
- Students of NSS and environmental science participated in common awareness programmes, Nirmalya sankalan, Road shows, Rally's to create awareness about environment.
- Disposal of E - waste through proper procedure.
- All the students of B.Sc. Part II (Compulsory Environment) actively participated in ***The Save Bird Campaign*** and also put up the earthen pots for provision of chilled drinking water.

7.5 Whether environmental audit was conducted?

Yes

☐

No

☒

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Strengths

1. Institute of Science is the only premier institution affiliated to RTM Nagpur University.
2. Dynamic, dedicated and qualified staff.
3. Dedicated and experienced support staff.
4. Safe and secured environment for co-education.
5. Well-equipped and furnished departments with sufficient space.
6. Excellent Gym and Sports facilities.
7. Hostel facilities for Boy's and Girl's.
8. Library with rich collection of Books

Weaknesses

1. Procedural delays in filling up vacancies.
2. Several teaching and nonteaching posts are vacant.
3. Unaided departments like Environmental science, Computer Science and Electronics have to depend on CHB staff.

Opportunities

1. Institute students have good placement in private Government organizations as well as in academic and research institutions.
2. Earn and Learn Scheme.
3. Opportunity to work with diverse agencies.

Threats

1. Delay in recruitment of teaching and non-teaching staff.
2. Frequent changes in policies and work ethics leading to delay and administrative burden.

8. Plans of institution for next year

1. Modernisation of the college library.
2. Organisation of seminars, workshops and conferences.
3. Involvement of the alumni association for bringing in more funds and using their expertise for the benefit of the students.
4. Renovation and modernization of laboratories and classrooms.
5. Expansion of modern teaching methods.
6. To continue with the regular annual events like annual social gathering.
7. Industrial visits, botanical excursions.
8. Invited lectures under various societies,
9. Publication of annual magazine.
10. NSS and cultural activities.

Annexure I

संस्थेची शैक्षणिक दिनदर्शिका (सन २०१४-२०१५)

शैक्षणिक वर्षारंभ : दिनांक १७ जून, २०१४

प्रवेश प्रक्रिया : दिनांक ३० जून, २०१४ पर्यंत.

नियमित वर्ग प्रारंभ : दिनांक १ जुलै, २०१४

शैक्षणिक दिनदर्शिका

अ.क्र. (१)	महिना (२)	अध्यापनाचे दिवस (३)	परीक्षा (४)	इतर कामे (५)
१	जुलै, २०१४	२६	—	—
२	ऑगस्ट, २०१४	२३	दिनांक २६, २७ व २८ रोजी मासिक घटक चाचणी	शुक्रवार दिनांक १५ रोजी स्वातंत्र्य दिन समा दिनांक २३ रोजी एस.आर.सी./एल.ए.सी.ए एन.एस.एस. उद्घाटन समारंभ.
३	सप्टेंबर, २०१४	२५	—	शनिवार दिनांक २७ रोजी पालकसभा. शुक्रवार, दि. ५ रोजी शिक्षक दिन.
४	ऑक्टोबर, २०१४	*	दिनांक ७ ते १४ पर्यंत प्रथम सत्रांत परीक्षा.	

* रा.तु.म. नागपूर विद्यापीठाच्या पत्रकानुसार दिवाळीच्या सुट्ट्या (साधारणपणे ३० दिवस) लागू होतील व त्यानुसार ऑक्टोबर/नोव्हेंबर मा
कामाचे दिवस ठरतील (अंदाजे २३ ते २५).

शैक्षणिक दिनदर्शिका - चालू				
(१)	(२)	(३)	(४)	(५)
५	नोव्हेंबर, २०१४	*	—	दिनांक २९ रोजी रक्तदान, स्वच्छता अभियान, जनजागृती.
६	डिसेंबर, २०१४	२६	दिनांक २२, २३ व २४ रोजी मासिक घटक चाचणी.	
७	जानेवारी, २०१५	२६	दि. २७ ते ३० द्वितीय सत्रांत परीक्षा. (बी. एस्. सी. फायनल)	दिनांक ७ ते ९ क्रीडा स्पर्धा व स्नेहसंमेलन. दिनांक २६ रोजी गणतंत्र दिवस समारंभ. निरनिराळ्या विभागांतर्फे कार्यशाळा, परिषदा.
८	फेब्रुवारी, २०१५	२३	बी. एस्. सी. फायनल वर्गाच्या प्रात्यक्षिक परीक्षा.	
९	मार्च, २०१५	*	बी. एस्. सी. सत्र II/IV व पदव्युत्तर वर्गाच्या द्वितीय सत्रांत परीक्षा.	
१०	एप्रिल २०१५	*	बी. एस्. सी. सत्र II/IV व पदव्युत्तर वर्गाच्या प्रात्यक्षिक परीक्षा, व इतर कामे.	
एकूण . .		*		

Annexure II

Best Practice I

1. Title of the Practice – Annual Social Gathering

2. Goal

Institute of Science, Nagpur conducts annual social gathering for all the students including UG and PG. The annual social gathering is generally conducted in the second half of the academic session which nearly last for a week. The gathering is conducted with the active participation mainly of students and teachers. The main objective behind conducting the annual social gathering is to explore hidden talent of the students. It is observed that students are coming from different segments of the society and they are of a different intellectual levels and possess number of qualities which needs to be explored through which overall confidence of the student gets developed which boost up their moral and encourage them for more and more enthusiasm leading to the overall development of their personality.

3. The Context

The students in general have enormous hidden talent in them and it is challenging job to design the activity in such a way that the implementation of the activity in practice becomes easy to understand by everybody, so that there is an enormous response from the students. The teaching members of the Institute with the participation of the students design and implement various activities very meticulously planned for its success.

4. The Practice

The Institute of Science, Nagpur conducts annual social gathering during which various activities are organized, brief details of which are given below.

- a) **Sports competition:** Department of Physical Education conducts various sports competition for girls and boys separately e.g. Cricket, Badminton, Chess, Volleyball etc. A friendly cricket match is also being played between students and teaching, non-teaching staff. This helps developing close interaction between students and teachers, which help bridge any communication gap.
- b) **Cultural Events:** India has a very rich cultural heritage. The students are coming from different religion, cast color and creed and each one has got a typical culture for exploring of which a platform is offered where students can explore their hidden talent which helps and encourage them to develop their overall personality.
Dance, Drama, Traditional dress, Elocution, Debate and fancy dress competitions are organized under cultural events.

5. Evidence of Success

The objective behind conducting various competitions and events during annual social gathering is to explore the hidden talent of the student. The success of the performance is achieved as and when a student is encouraged to participate in cultural event through which his hidden talent is explored, this also becomes a platform for their future development of the talent.

6. Problems Encountered and Resources Required

- a) It is observed that generally students and parents are giving priority to the studies as compared to the talent of a student in a particular activity which hampers the spirit of the student.
- b) For the development of talent either in sports or cultural activities needs lot of devotion of time, energy and money which people in general are reluctant too.
- c) On number of occasion student don't get proper guidance, facilities and financial support for development of his talent.

Best Practice II –

1. Title of the Practice: Holistic development of student

2. Goal

Promotion of holistic development of students is the prime motive of the Institute of Science, Nagpur. Though importance is given to classroom teaching the Institute has a network of extension cells with clearly defined objectives. The curricular and extracurricular activities are organized for holistic development of students by the departments in collaboration with the extension cells.

Apart from the academic curriculum every student possesses some extracurricular hidden talent which needs to be explored, for which Institute of Science is undertaking various activities through departments in collaboration with extension cells like NSS, NCC, LACF etc.

3. The Context

For holistic development of a student sky is the limit. 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 which are time consuming and expensive. Carrying out these activities while completing academic session is a difficult task because students hardly gets any time from their academic sessions. Moreover the activities are expensive, hence challenging.

4. The Practice

The Institute of Science, Nagpur apart from the academic session organizes various activities for the overall development of the students and also for creating social awareness as a responsible citizen of the country. The various activities conducted under NSS of the Institute during the academic session are as under, brief details of which are given below.

- a) **Blood donation camp-** We are living in this society and we owe some debt towards society. Donating blood to a needy patient is a supreme donation. Every citizen must donate blood as and when possible, which will save somebody's life, this feeling has to be inculcated in the students and therefore a blood donation camp is organized in collaboration with Govt. Medical College, Nagpur and list of Donors is maintained and they are issued a blood donation card. This gives self-satisfaction to the students.
 - b) **Cleanliness drive:** Cleanliness is godliness. A Cleanliness drive within the Institute premises is organized under NSS during which the entire premises of the Institute is cleaned with the active participation of NSS students.
 - c) **Tree Plantation:** The entire world is reeling the threat of global warming therefore tree plantation drive is conducted under NSS within the Institute premises.
 - d) **NSS camp:** NSS camp of the selected students is conducted for a period of one week in a nearby village where students go and stay there and educate and create awareness among the villagers about the cleanliness, hygiene, provide medical aid and teach good practices.
- NCC :** Protecting the motherland is every citizens responsibility with a view to impart a military training, students take part in NCC in which they are imparted with the training of military discipline and activities.
- LACF (Literary and Cultural forum):** is formed and student's member registered. As per the interest of the respective students they are imparted with the guidance and training by the Institute. during the year, various cultural and literary programmes and competitions are organized within the Institute premises and also by outside Institutions. The students are deputed for participation in the competition that represents the Institute. Number of students has bagged prizes and positions in these competitions.

5. Evidence of Success

Active participation of students and their involvement in various above mentioned programmes is of immense value and helps in creating serious awareness among the students on various fronts, which has helped them decide choice of making their career bright in the respective interested field.

To name few evidences for success of such programmes due to active involvement of the students are as under.

- a. Due to donation of blood by students at teenage stage a social awareness is created in students to help needy patients on humanitarian ground that to without expecting any favor in return. This attitude so created at this juncture of time plays a very important role in changing their attitude towards looking at the life and creating awareness that we owe some debt to the society for which it is a small contribution from an individual.
- b. Basic military training and discipline is incorporated in the NCC cadets which awakens a spirit of patriotism in the students which helps them to decide joining forces as a career or make them a responsible citizen of this country.
- c. Active participation of students in literary and cultural forum helps them understand the potential in every student. As the college imparts them training and makes the platform available to them which enable them to exploit their hidden potential as a result they are groomed to face bigger challenges of the respective field in which they are interested, may it be dance, drama, music or debate etc. Competitions.

The above facts are sufficient to prove as an evidence of success of above activities.

Name : Dr. Sushama D. Narkhede

Name : Dr.R.G.Atram

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC