



SELF STUDY REPORT

FOR

4th CYCLE OF ACCREDITATION

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S,
SCIENCE COLLEGE, NAGPUR**

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATIS SCIENCE COLLEGE,
CONGRESS NAGAR, NAGPUR

440012

www.sscnagpur.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

While top management sets policies and priorities, quality assurance is a collective responsibility, requiring continuous effort and a strong sense of social responsibility. Understanding and adhering to quality assurance criteria and best practices has become essential.

Dr. Panjabrao Deshmukh, alias Bhausaheb Deshmukh, a renowned scholar, educator, and India's inaugural Minister of Agriculture, established the Science faculty at Dhanwate National College, Nagpur, in 1960. In 1967, the faculty was relocated and became known as Shivaji Science College, Nagpur, under the management of Shri Shivaji Education Society. Located in the heart of the city, the college is committed to offering education that is accessible to everyone.

To commemorate his 125th birth anniversary, the Indian government released a ₹125 coin, made of 50% silver, 40% copper, and small amounts of nickel and zinc. The coin weighs 35 grams, with a 44 mm diameter and 200 serrations. It features the Ashoka Pillar and Dr. Deshmukh's portrait with inscriptions.

The college is managed by the Shri Shivaji Education Society, Amravati, a prominent academic institution in central India, the college is affiliated with Rashtrasant Tukadoji Maharaj Nagpur University. It offers a range of undergraduate, postgraduate, and Ph. D. programs. Accredited with a Five-Star grade by NAAC, Bangalore, in 2002, the college was recognized as a 'College with Potential for Excellence' by the University Grants Commission, New Delhi, in 2004—a status extended until 2019. The college was re-accredited with an 'A' grade in 2010, achieving a CGPA of 3.19, and again in 2017, with an 'A+' grade and a CGPA of 3.51. The institution also has an ISO 21001:2018 certificate. In 2024, the college is ranked by NIRF in the rank band 201 to 300. The college was a mentor college under the PARAMARSH scheme and also recognized as a mentor college under the PARIS-SPARSH scheme.

The campus is well-equipped with ICT-enabled lecture halls, specialized laboratories, a library, conference halls, virtual classrooms, a girls' hostel, a gymnasium, sports facilities, and more, creating a conducive environment for learning.

Offering two undergraduate, eight postgraduates, and six Ph.D. programs, along with 45 add-on courses, the college's knowledge ecosystem fosters significant research contributions and collaboration. As an Institutional Member of the Asia Pacific Quality Network (APQN), the college's achievements reflect the dedication of its staff and management.

Vision

"Tamsa Maa Jyotirgamay" i.e. To lead from darkness to light.

To create human resources through quality, societal, progressive, and affordable education.

Mission

- To provide students with an environment for the all-round development of their intellectual, physical, aesthetic, and social potential.
- To discover and develop the academic and intellectual skills of the students.
- To encourage attitudes of integrity, hard work, honesty, fairness, and tolerance in students so that they give their best to a society based on human values.
- To inculcate a passion for excellence through information and communication technology, industrial exposure, and scientific projects leading to elevate career profiles and National development.
- To stimulate the students to perform at the peak of their potential.

The College makes every effort to communicate its vision and mission to its stakeholders. Highly qualified and dedicated faculty to provide to inculcate cultural and social values among stakeholders. Transparent administration, Adequate and well-maintained infrastructure, well-equipped laboratories, girls' hostel, and gymnasium. Use of ICT in teaching-learning and administrative processes with e-governance. All round development through sports, NCC, and NSS. The college organizes events for the birth and death anniversary of the social reformers and organizes the Yuva Mahotsava to mark the birth anniversary of Dr. Panjabrao alias Bhausaheb Deshmukh, founder of the parent Society.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

1. Supportive Parent management with high academic and research interest and social priority
2. Proactive, qualified, experienced and experimental teaching faculty holding important positions in the authorities of affiliating universities and NGOs as well
3. Motivated, inspired and meritorious students (Inspire Fellows)
4. Experienced and dedicated technical and non-teaching staff
5. Strong emotional bondage between students and faculty
6. State of Art facilities in smart classrooms, equipped laboratories and library
7. Quality endorsed by own University as Lead College; Central Agencies through provisions of status/grants under CPE and FIST; financial assistance to the minor and major projects and ISO Certification
8. Productive research centers with the facility of Central Instrumentation Cell equipped available for research scholars in and around the college
9. Patents granted to the faculty members
10. Nurture the innovative ideas of the students, a dedicated "Incubation Centre" is available
11. On-campus accommodation facility with Gymnasiums for girls and boys
12. Pioneer Institute for Guardian Teacher Scheme
13. A Complete Chain of courses from HSSC to Post PG (research) is available under one roof.
14. Enrolment of a good number of in-house and other students to Online Add on and Value-Based Courses conducted by the college shows a preparedness to enter into the new methodologies envisaged in the Blended Mode of Learning proposed by UGC.
15. Comprehensive use of ICT by teaching faculty makes learning a joyful experience
16. The significant blending of pedagogies by maximum teachers to conserve democratic participation of the students in the classroom
17. Lush green, hygienic, and huge campus with the maintenance of the diversity of the flora and fauna
18. Noteworthy active collaborations and MoUs with the teaching, research, industrial and Non-Government institutions

19. Availability of Online Learning Resources from Swayam, NPTEL etc. through Local Chapter and Nodal agency
20. One of the faculty members, Dr. Shyamkant Anwane, Professor and Head of the Department of Physics, has created four courses on Udemey (Udemey, Inc. is an education technology company founded in May 2010 by Eren Ali). These courses have attracted 5,385 students from 136 countries worldwide. Dr. Anwane has achieved an impressive instructor rating of 4.70.
21. Significant Extension and Outreach activities realized remarkable social impressions.
22. Some faculty members of our institute are members of the Editorial Board of the Scopus indexing Journal.

Institutional Weakness

1. Being a single faculty Science College student choosing placement opportunities are comparatively very few, and opportunities for internships are limited.
2. Limited scope for revisions and modifications in the curriculum and examination reforms at the institute level due to the administrative setup of the University
3. Placement opportunities are very less due to the inadequate growth of industries in the local area.
4. Regional barrier resulted in lack of student admissions from other states and nations
5. Alumni Association needs strengthening in terms of financial support from alumni and eventual provisions from the institute in general and students in particular
6. Extension activities need regional expansion to receive recognition at the state and national level
7. The crunch of negligible financial support from the government agencies the institute offers few fellowships to the students on their own.
8. Single-faculty Science College has limitations in offering skill components in linguistics and communication to a greater level

Institutional Opportunity

1. The Innovation and Incubation Centre working under the college is the most prospective platform to bring innovative ideas of the students and the faculties to reality and scale them up
2. The addition of new faculties in almost every department will lead to the conception of interdisciplinary research
3. MoU established with various associations will be concretized by offering Internships and Student Exchange Programme.
4. Transformation of the ICT classrooms into virtual classrooms to enhance the enjoyable experience in the learning process
5. Legacy of the excellence in Cultural Activities will be uplifted to the State and National Level
6. Incorporation of dedicated schemes under the Training and Placement cell, Student Development Cell, Career Katta Committee, Skill Based Courses Committee, Competitive Examinations and Guidance Committee, to produce employable graduates
7. The addition of the PG Courses, Online Courses, provisions of the selective courses from SWAYAM, NPTEL, and other platforms will offer complementary knowledge and skill components to the students
8. Participation of the motivated faculties in workshops/training programs at the National and International levels will cater resourcefulness to them

9. The experimental aptitude of the faculties will be greatly enriched in the forthcoming transformations due to the implementation of the National Education Policy 2020.

Institutional Challenge

1. Students attendance in the classrooms is challenging due to excessive emphasis on online education and overuse of digital gadgets
2. The declining importance of the conventional courses over the applied may degrade the foundation of knowledge
3. Gaining advanced knowledge of technological advancements in teaching, learning, and evaluation can be challenging for senior faculty.
4. Incorporation of changes or addition of the Skill Components in the existing curriculum devised by affiliating University
5. Placement for the students with the graduate degree with Basic Sciences
6. Costs applicable to publish research papers in the journals indexed in the Scopus/Web of Science, etc.
7. Sustainability of the Science Innovation and Activity Centre due to paucity of funds
8. Attracting international students due to regional limitations
9. Tracking the progress of the students after completing their education at the institute is difficult
10. Receiving the donations from the alumnus, philanthropists and making provisions of the scholarships

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The institution ensures effective curriculum delivery through a structured, well-documented process aimed at academic excellence and professional competence. Academic planning starts with developing an academic calendar aligned with the university's schedule, published in the college prospectus and on the website. The timetable is created as per the university guidelines and is shared via notice boards, WhatsApp groups, and online platforms.

HOD allocates workloads and extracurricular responsibilities to faculty members in regular departmental meetings. A student induction program is organized to ease the transition for new students. Faculty members follow a micro-teaching plan and maintain an academic diary to ensure consistent curriculum delivery. Teaching is conducted using a blended mode, combining traditional methods with digital tools like PowerPoint, Google Classroom, Zoom, and especially during the corona pandemic situation. The Mentor-Mentee scheme supports students by addressing academic and personal concerns. Continuous Internal Evaluation (CIE) is carried out through attendance monitoring, unit tests, seminars, and field visits. Faculty members offer extra assistance after class hours, and external and internal audits are conducted to ensure the curriculum's effective delivery. Faculty members also update their knowledge through MOOCs, NPTEL courses, and Orientation and refresher programs.

Regular departmental meetings review syllabus delivery, and feedback from students, teachers, alumni, and parents are systematically collected and analyzed, and action-taken reports are hosted on the college website. input provided by stakeholders was communicated to the Board of Studies of the Affiliating University further action

The institution offers **45** add-on, certificate, and value-added Courses, and **58%** of students enrolled in these courses during the past five years. Additionally, 45.83% of students participate in project work, fieldwork, or internships. The institution integrates cross-cutting issues like professional ethics, gender, human values, and environmental sustainability through the curriculum and various activities.

Teaching-learning and Evaluation

The admission process for first-year students is conducted online and is fully transparent, adhering to the eligibility criteria set by Rashtrasant Tukdoji Maharaj (RTM) Nagpur University. Both the university and the college follow the state government's reservation policy for admissions as outlined by the Government of Maharashtra. During the assessment period, the average percentage of enrolled students stood at 89.39%, while the average percentage of seats filled for reserved categories was 89.7%.

At the start of each academic session, the teaching departments assess the learning levels of newly admitted students to identify both advanced and slow learners. Teachers then adopt suitable teaching methods to cater to these groups. Various instructional techniques, including experiential learning, participative learning, and problem-solving approaches, are employed to enrich students' learning experiences. For better subject understanding, there is an emphasis on laboratory teaching, field trips, industrial visits, and practical learning. Additionally, workshops and seminars are regularly organized for the students.

The college provides robust academic and infrastructural facilities, including a well-stocked central library, modern laboratories, Wi-Fi access, computers, and other ICT tools to create a student-centric learning environment. Teachers extensively use ICT-based tools and platforms in teaching, learning, and evaluation processes. Over the past five years, an average of 81.71% of full-time teachers have been appointed, with 93 full-time faculty members currently employed—63 of whom hold PhDs. The mentor-mentee ratio for the 2023-24 academic year is 1:18.

Teachers continually strive for both individual and institutional excellence by staying updated on the latest knowledge through participation in national and international conferences, seminars, workshops, and training courses. As an affiliated college, the institution conducts Continuous Internal Evaluation (CIE) of students' academic performance in line with RTM Nagpur University's guidelines. Program and course outcomes are communicated to students through the college website and discussed in classrooms at the beginning of each academic session. Student performance is evaluated through seminars, internal assessments, and university theory and practical examinations. The college's Internal Assessment Examination Committee oversees the planning and implementation of the internal assessment process. The average pass percentage of students during the assessment period is 90.07%.

Research, Innovations and Extension

Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur, established its Innovation and Incubation Centre in 2022 to promote student innovation. Under this initiative, two students successfully signed technology transfer agreements with environmental companies for the development of smartphone applications. The Centre, led by Dr. Sarang Dhote, also launched a certificate course titled "IPR Fundamentals: Protecting Innovations" in affiliation with the Lifelong Learning Centre of RTMN Nagpur University. This course aims to educate college students on intellectual property rights (IPR) and is also extended to other colleges.

In the academic year 2023-24, 30 students from the college had their patents published in the Indian Patent Journal, 30 students registered their work with the Indian Copyright Office, and 150 students received copyright registration certificates from the Kenyan government. The Innovation Centre also facilitated the launch of four student startups and supported four students in winning the University-level Avishkar 2024 competition.

During the assessment period, the college organized 50 workshops, guest lectures, seminars, and webinars, focusing on topics such as IPR, research methodology, and entrepreneurship. The college faculty successfully published 207 research articles in UGC CARE-listed, Scopus-indexed, Web of Science, and peer-reviewed journals. Additionally, faculty contributed 79 book chapters, edited books, and conference proceedings.

The college, in collaboration with NSS and NCC, conducted 95 extension and outreach activities. It also received two recognition certificates from UCOMA Uganda for its interactive app. The institution has 14 active Memoranda of Understanding (MOUs), including two international MOUs, 15 linkages with Indian institutions, and eight international linkages for internships. Furthermore, the college has 12 research collaborations with various institutions, enhancing its research and academic reach.

Infrastructure and Learning Resources

The college campus spans 3 acres, with a built-up area of 12,052.57 square meters. It features three multi-storied buildings, named Block A, Block B, and Block C, each equipped with 50 Mbps leased line internet and Wi-Fi. The institution offers extensive infrastructure for teaching and learning, including 20 ICT-enabled classrooms with LCD projectors, well-equipped laboratories, a museum, a botanical garden, a conference hall with a 350-person capacity, meeting rooms, a girls' hostel, a guest house for resource persons, a guest room for guardians, warden accommodation, and a dining hall. All departments are equipped with computers, laptops, Wi-Fi, and LCD projectors. The entire campus is monitored by CCTV surveillance.

The college offers excellent sports facilities, including a spacious playground for football, volleyball, and basketball, indoor courts for chess, table tennis, badminton, a gymnasium for both genders, and a yoga space. The central library is fully computerized, featuring e-learning resources, N-List, OPAC, UGC-Network, INFLIBNET, educational CDs, and more. It provides a dedicated internet zone with 16 computers for student use and subscribes to numerous national and international journals, periodicals, and magazines. The library holds 41,313 books, including reference and textbooks, along with access to e-books and e-journals.

The college continuously upgrades its IT facilities, adding computers, printers, scanners, LCD projectors, and Xerox machines. With a 50 Mbps high-speed leased line and 24/7 Wi-Fi across the campus, students and faculty can access the internet anywhere on campus, including the girls' hostel. A Cyberoam firewall ensures secure internet usage. The campus is fully networked, providing access to email, web browsing, and online applications.

The Principal, in coordination with the IQAC and college committees, plans the optimal utilization of resources. Funds for maintenance and repairs are allocated in the financial budget, approved by management, with routine cleaning managed by an outsourced agency. The college maintains an AMC for the upkeep of computers, networking facilities, ACs, water purifiers, generators, and lifts. Housekeeping, sanitation, greenery maintenance, and power backup facilities are regularly serviced by dedicated teams and external agencies.

Student Support and Progression

I) Scholarships and Financial Assistance:

The institution is committed to supporting students' holistic development and enhancing their learning experiences on campus. To promote student progression, scholarships and financial assistance (freeships) are provided through both government and institutional resources. These programs benefit 52% of the students.

II) Capacity Building and Skill Enhancement:

The college has initiated several programs to enhance students' skills, such as workshops on soft skills, English language, communication, life skills, and awareness of new technologies, including cybersecurity, cryptocurrency, and ethical hacking. The institute celebrates International Yoga Day annually with large-scale participation and conducts regular yoga and meditation sessions for both students and staff. A weekly yoga day is also designated for staff members. The campus is equipped with a gymnasium for boys and a Zumba club for girls, promoting health and well-being, with a specific weekly day for Zumba activities for staff.

III) Guidance and Career Counselling:

The college offers a Guidance and Study Centre for competitive exams, along with a Career Counselling and Placement Cell that includes initiatives like "Career Katta" by the Government of Maharashtra. About 48% of students benefit from these services, receiving guidance for competitive exams and career planning.

IV) Student Participation and Progression:

The institution cultivates a strong value system through cultural and sports activities that highlight integrity, honesty, perseverance, discipline, ethics, and societal service. Events such as the Youth Festival, Dr. Panjabrao Deshmukh Jayanti Utsav, National Sports Day, and Annual Sports Week encourage student participation and holistic development. In addition, students are actively involved in extension activities through NCC and NSS, with around 55% pursuing higher education. Over the last five years, 250 students have qualified for exams like NET, SET, GATE, and CAT, and 15 have earned national awards for their achievements in sports and cultural activities.

V) Student Grievances, Redressal, and Engagement:

The institution has established statutory bodies to address student grievances promptly, both online and offline, and encourages student involvement through bodies such as the Student Council, IQAC, SC/ST/OBC/Minority Cell, and the Internal Complaint Cell. The Alumni Association, a registered society, supports the institution by organizing activities like tree planting, guest lectures, motivational talks, and job training programs, and has contributed Rs. 5 lakh for infrastructure development.

Governance, Leadership and Management

The institutional governance and leadership are in accordance with the vision and mission of the institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization and participation in the institutional governance. The College is managed by Shri Shivaji Education Society, Amravati. The management strives to develop the college as a premier higher education institute through the perspective plan. The college development committee (CDC) works in a democratic way and the decentralization of academic and administrative work is managed through the 46 various committees.

As per Governmental rules, the college has implemented welfare schemes and various development oriented programs for the teaching and non-teaching staff. Financial assistance is also provided to the teachers attending

National and International conferences. The college has e-governance in operation in Administration, Finance, Accounts and Students' Admissions and support. The college has various welfare schemes for the teaching and nonteaching staff as per the rules and regulations of the government of Maharashtra. In the last five years, financial support has been provided to the teachers for presenting papers/attending conferences/workshops. In the last five years, different professional development /administrative training programs were organized by the institution for teaching and non-teaching staff. 152 teachers completed online / face-to-face Faculty Development Programmes in the last five years. The performance appraisals of the teaching staff are collected at the end of every academic year through the format provided by the parent university. The internal and external audits of the institution are conducted regularly. The College receives the salary grant from the Maharashtra State Government and the development grants/funds from the UGC, DST, DBT, CSIR agencies. The utilization of the sanctioned budget is monitored by the Council of Heads, IQAC and CDC. The IQAC has been contributing significantly in many ways for institutionalizing the quality assurance strategies and processes. The IQAC conducts the academic audit of all the departments, prepares AQAR and participate in NIRF. Our college [IR-C-C-18588] is in NIRF Ranking 2024 in Rank band: 201-300. The IQAC organizes awareness programs/workshops on the NAAC methodology for teachers, students and also for other colleges.

Institutional Values and Best Practices

Institutional Values and Best Practices Maintaining gender equality at every level is always taken as a priority by the college administration and plays a very active role. The college also provides different facilities and special attention to woman employees and female students to minimize the gender gap. The Formation of the Internal Complaint Committee (ICC), Women's Grievance Redressal Cell is a step towards creating awareness about gender equality in the college. It also creates awareness about the use of laws provided by the judiciary for their self-respect and existence. Creating a sustainable and environment-friendly campus involves a range of initiatives designed to reduce the institution's environmental footprint and foster a culture of sustainability. Installing solar panels to generate renewable energy for the campus. Replacing traditional lighting with energy-efficient LED lights across the campus. Establishing composting systems for organic waste from Mess and gardens, and using the compost in campus landscaping. Installing rainwater harvesting systems to collect and store rainwater for non-potable uses, such as irrigation. Creating bike lanes, bike racks, and bike-sharing programs to encourage cycling as a mode of transport. Promoting Electric vehicle as mode of transportation is also appreciated by the college. Ensuring that the institution is accessible and welcoming to people with disabilities is essential for promoting inclusivity so the college has implemented some measures to create a disabled-friendly, barrier-free environment. All buildings have ramps, elevators in two buildings B and C block, and wide doorways to accommodate wheelchairs and other mobility aids. Providing accessible restrooms with features such as grab bars. The college conducts green, energy, and environmental audits to assess its sustainability practices. These audits help identify areas for improvement in energy consumption, waste management, and resource conservation. By promoting green initiatives in and beyond the campus the college aims to reduce its environmental imprint and promote a mindset of environmental stewardship among students and staff. Sensitizing students and employees to their constitutional obligations, including values, rights, duties, and responsibilities as citizens, is crucial for fostering a well-informed and responsible community. Observance of Constitution Day on (November 26th) with activities like readings of the Preamble, and Independence Day and Republic Day Programs reminds students and employees of their duties and responsibilities as citizens.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S, SCIENCE COLLEGE, NAGPUR
Address	Shri Shivaji Education Society Amravatis Science College, Congress Nagar, Nagpur
City	Nagpur
State	Maharashtra
Pin	440012
Website	www.sscnagpur.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Omraj Shankarrao Deshmukh	0712-2423432	9422125738	-	shivajinagpur2019 @gmail.com
IQAC / CIQA coordinator	Amitabh Amaresh Halder	0712-2440955	9175128636	-	iqac@sscnagpur.ac. in

Status of the Institution	
Institution Status	Private , Grant-in-aid and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details

State	University name	Document
Maharashtra	The Rashtrasant Tukadoji Maharaj Nagpur University	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC	01-06-1997	View Document
12B of UGC	28-02-2005	View Document

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	21-05-2024	12	Approval for the BCA and MCA course

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	Yes
If yes, date of recognition?	13-09-2004
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	National Institutional Ranking Framework
Date of recognition	12-08-2024

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Shri Shivaji Education Society Amravatis Science College, Congress Nagar, Nagpur	Urban	6	12052.57

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/ Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BCA, Computer Application,	36	HSSC Science with Math	English	120	115
UG	BSc, Physics Chemistry Mathematics,	36	HSSC Science with Relevant Subject	English	57	33
UG	BSc, Physics Electronics Mathematics,	36	HSSC Science with Relevant Subject	English	27	10
UG	BSc, Physics Computer Science Mathematics,	36	HSSC Science with Relevant Subject	English	57	51
UG	BSc, Statistics Computer Science Mathematics,	36	HSSC Science with Relevant Subject	English	36	30
UG	BSc, Chemistry Botany Zoology,	36	HSSC Science with Relevant Subject	English	59	47
UG	BSc, Chemistry Botany Microbiology,	36	HSSC Science with Relevant Subject	English	37	20

UG	BSc,Chemistry Botany Geology,	36	HSSC Science with Relevant Subject	English	26	21
UG	BSc,Chemistry Geology Mathematics,	36	HSSC Science with Relevant Subjectts	English	26	8
UG	BSc,Chemistry Zoology Microbiology ,	36	HSSC Science with Relevant Subject	English	37	33
UG	BSc,Chemistry Microbiology Biotechnology,	36	HSSC Science with Relevant Subject	English	100	82
UG	BSc,Electronics Computer Science Mathematics,	36	HSSC Science with Relevant Subject	English	31	31
UG	BSc,Physics Chemistry Geology,	36	HSSC Science with Relevant Subject	English	26	11
PG	MSc,Physics,	24	B.Sc. With Physics as one of the subjects	English	22	8
PG	MSc,Chemistry,	24	B.Sc. With Chemistry as one of the subjec	English	22	17
PG	MSc,Botany,	24	B.Sc. With Botany as one of the subjec	English	22	10
PG	MSc,Zoology,	24	B.Sc. With Zoology as one of the subjec	English	22	18

PG	MSc,Mathematics,	24	B.Sc. With Mathematics as one of the subject	English	22	11
PG	MSc,Computer Science,	24	B.Sc. With Computer Science as one of the subject	English	40	16
PG	MSc,Microbiology,	24	B.Sc. With Microbiology as one of the subject	English	22	22
PG	MCA,Computer Application,	24	Any Graduate with MATH in HSC	English	30	30
Doctoral (Ph.D)	PhD or DPhil,Physics,	72	PG in Relevant Subject	English	10	5
Doctoral (Ph.D)	PhD or DPhil ,Chemistry,	72	PG in Relevant Subject	English	18	18
Doctoral (Ph.D)	PhD or DPhil,Botany ,	72	PG in Relevant Subject	English	10	2
Doctoral (Ph.D)	PhD or DPhil ,Zoology,	72	PG in Relevant Subject	English	10	0
Doctoral (Ph.D)	PhD or DPhil ,Mathematics ,	72	PG in Relevant Subject	English	10	5
Doctoral (Ph.D)	PhD or DPhil ,Computer Science,	72	PG in Relevant Subject	English	17	17

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	16				4				35			
Recruited	11	5	0	16	2	2	0	4	7	11	0	18
Yet to Recruit	0				0				17			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				55			
Recruited	0	0	0	0	0	0	0	0	2	53	0	55
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				72
Recruited	32	2	0	34
Yet to Recruit				38
Sanctioned by the Management/Society or Other Authorized Bodies				34
Recruited	29	5	0	34
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				2
Recruited	2	0	0	2
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	11	5	0	2	2	0	5	15	0	40
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	4	2	0	6
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	1	7	0	8
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	1	46	0	47
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	3	6	0	9
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	9	8	0	17
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	443	0	0	0	443
	Female	1021	0	0	0	1021
	Others	0	0	0	0	0
PG	Male	48	0	0	0	48
	Female	201	0	0	0	201
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	20	0	0	0	20
	Female	27	0	0	0	27
	Others	0	0	0	0	0
Certificate / Awareness	Male	578	0	0	0	578
	Female	1622	0	0	0	1622
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	126	126	117	101
	Female	233	223	221	191
	Others	0	0	0	0
ST	Male	33	37	32	20
	Female	69	63	66	45
	Others	0	0	0	0
OBC	Male	291	302	306	256
	Female	668	625	564	459
	Others	0	0	0	0
General	Male	106	123	124	150
	Female	293	332	340	355
	Others	0	0	0	0
Others	Male	78	89	82	65
	Female	141	144	154	136
	Others	0	0	0	0
Total		2038	2064	2006	1778

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	The Institutional preparedness for NEP 2020 towards the attainment of holistic and Multidisciplinary/interdisciplinary approach education, the institution offers flexible and innovative curricula that include two undergraduate credit-based courses like B.Sc. with twelve combinations of subjects (PCM, PEM, PCSM, SCSM, CBZ, CBM, CZM, CGM, CBG, CMBT, ECSM, PCG), Bachelor of Computer Application (BCA), Master of Science in seven subjects (Chemistry, Computer Science, Mathematics, Microbiology, Physics, Botany and Zoology) and Master of Computer Application MCA). The college has established the Career Katta cell to provide value-
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	<p>added skilled human resources. To develop entrepreneurial skills among the youth. It is initiated jointly by the Maharashtra Information Technology Support Centre (MITSC) and the Maharashtra State Higher and Technical Department. The college offers a good research environment where Six Laboratories are recognized for Research (Ph.D. Programmes in 1. Chemistry, 2. Computer Science, 3. Mathematics, 4. Physics 5. Botany 6. Zoology). We are also running seven skill-based lifelong learning Courses 1. Biofertilizers and biopesticides 2. Mushroom Cultivation, 3. Fruit Processing and Wine Technology, 4. Web Technology, 5. Ground Water Exploration, 6. Environment and Water Management, 7. Mathematical Simulation with Maple, 8. Immunology and Immunodiagnostics, 9. Chemicals and instrument Atal analysis. We have also established an Incubation Center for Research and Innovation in science.</p>
<p>2. Academic bank of credits (ABC):</p>	<p>In line with the National Education Policy (NEP) 2020 guidelines, RTM Nagpur University has registered on the Academic Bank of Credits (ABC) portal. Consequently, colleges affiliated with RTM Nagpur University are not required to register separately on the ABC Portal. The college has already registered all admitted students on the Academic Bank of Credits portal for the 2023-24 session. Moving forward, the registration of admitted students on the Academic Bank of Credits portal will continue supporting the NEP's objectives. The NEP places strong emphasis on promoting vocational education, aiming to remove the societal stigma associated with vocational courses by integrating them into the mainstream education system. This initiative encourages more students to explore vocational paths, fostering a diverse and skilled workforce. In support of this vision, the Maharashtra Information Support Centre (MITSC), operating under the Government of Maharashtra, has initiated the Career Katta program. This initiative aims to provide value-added skilled human resources and develop entrepreneurial skills among the youth. As part of Career Katta, the state government has also introduced the IAS Aaplya Bhetila Course to train aspiring bureaucrats and the Udyojak Aaplya Bhetila Course for budding entrepreneurs. In collaboration with the Department of Higher Education,</p>

	<p>Maharashtra State, we are conducting IAS and other competitive exam preparation courses, as well as entrepreneurship training programs under Career Katta, for the overall development of youth. In this academic session, we have applied for six skill development programs out of the fourteen hundred offered by Career Katta, and under the Incubation Centre, we have applied for a Certificate Course in IPR.</p>
<p>3. Skill development:</p>	<p>The NEP strongly emphasizes promoting vocational education, aiming to eliminate the societal stigma associated with vocational courses by integrating them into the mainstream education system. This approach encourages more students to explore vocational pathways, leading to a diverse and skilled workforce. To support this initiative, the Maharashtra Information Support Centre (MITSC), under the Government of Maharashtra, launched Career Katta. This program focuses on providing value-added skilled human resources and fostering entrepreneurial skills among the youth. The state government has also introduced the IAS Aaplya Bhetila Course for aspiring bureaucrats and the Udyojak Aaplya Bhetila Course for emerging entrepreneurs. In collaboration with the Department of Higher Education, Maharashtra State, we are running IAS and other competitive exam preparation courses, as well as entrepreneurship training programs under Career Katta, aimed at the overall development of youth. For this academic session, we have applied for six skill development programs out of the fourteen hundred offered by Career Katta, and through the Incubation Centre, we have also applied for a Certificate Course in IPR.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>The NEP places a strong emphasis on research and innovation, encouraging educational institutions to push the boundaries of knowledge. This includes promoting research in traditional Indian knowledge systems to ensure their preservation and evolution. By fostering a research-oriented culture, the NEP aims to position India as a global hub for knowledge creation and innovation. Recognizing the importance of the mother tongue or regional language as the medium of instruction in early education, the NEP advocates for teaching in students' native languages, as it enhances understanding, critical thinking, and cognitive development. To support this, professors at</p>

	<p>the college deliver lectures in a blend of Hindi and English, accommodating students' linguistic backgrounds and promoting Indian languages. The college also actively encourages participation in online courses through platforms like Swayam, NPTEL, Coursera, and Udemy, urging all students and faculty members to complete at least one certificate course of their choice each academic session. Through National Service Scheme (NSS) and National Cadet Corps (NCC) activities, the college promotes cultural activities that enrich traditional knowledge and value systems. Various initiatives are undertaken to integrate Indian knowledge and values into education, including practicing yoga and meditation through NSS, celebrating the birth and death anniversaries of great saints and national heroes, and organizing cultural events during Yuva Mahotsava, the annual celebration of the birth anniversary of Dr. Panjabrao alias Bhausaheb Deshmukh, the founder President of Shri Shivaji Education Society. Additionally, the college hosts various patriotic activities every year on Independence Day and Republic Day.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>The integration of Outcome-Based Education (OBE) into the National Education Policy underscores a commitment to creating a dynamic and relevant education system. By focusing on learning outcomes and holistic development, OBE aligns with the NEP's goals of preparing students for a rapidly changing world. The successful implementation of OBE will depend on the collaborative efforts of educators, policymakers, and stakeholders, who play a crucial role in realizing its transformative potential. Outcome-Based Education is a student-centric teaching and learning methodology where course delivery and assessment are designed to achieve specific objectives and outcomes. It emphasizes measuring student performance at various levels. Key aspects of OBE include: 1. Course Definition: A course can be a theory, practical, or a combination of both, studied within a semester. 2. Course Outcomes (COs): These are statements that describe the essential learning students should achieve and be able to demonstrate by the end of a course. Typically, three or more outcomes are specified for each course based on its importance. 3. Programme Definition: A program refers to the specialization or discipline of a</p>

	<p>degree, encompassing courses, co-curricular, and extracurricular activities designed to achieve specific objectives leading to the awarding of a degree. 4. Programme Outcomes (POs): These are more focused statements describing what students should be able to do upon graduation. 5. Program Educational Objectives (PEOs): These describe the expected achievements of graduates in their careers, outlining what they should accomplish in the first few years after graduation. 6. Programme Specific Outcomes (PSOs): These are specific to a discipline, detailing what students should be able to do at the time of graduation. SSES's Science College, a reputed institution in Central India, has been committed to Outcome-Based Education since its inception, in line with our vision, "To Create human resources through quality, societal, progressive, and affordable education." We offer two undergraduate and six postgraduate courses, each with clearly defined course outcomes. Our focus extends beyond academics to the holistic development and overall personality growth of our students, supported by value-based education through cultural activities. We are dedicated to assisting our students with 100% placement in various multinational and national industries, with alumni successfully placed in companies like Wipro, Infosys, and Capgemini every year.</p>
<p>6. Distance education/online education:</p>	<p>The National Education Policy highlights the transformative potential of distance and online education in creating a more inclusive, flexible, and technology-driven learning environment. By adopting these approaches, the education system can better address the challenges of the modern world, equipping learners with the skills and knowledge needed for success in a rapidly changing global landscape. In line with NEP 2020 guidelines, which encourage higher education institutions to offer at least one vocational course through Open and Distance Learning (ODL) mode, we currently conduct our courses offline but plan to transition them to ODL mode in the future. Responding to these guidelines, we have instructed our students to enroll in at least one online certificate course, such as those offered by SWAYAM, NPTEL, or MOOCs, and to submit their completion certificates to the IQAC office through their respective mentors under the</p>

	<p>college's "mentor-mentee" scheme. Simultaneously, we are continuously enhancing our Information Technology (IT) infrastructure. All our classrooms are equipped with internet connectivity via Wi-Fi, enabling the use of digital platforms such as interactive Smart Boards, laptops, desktops, and projectors for delivering lectures using PowerPoint presentations. With these efforts, we are steadily progressing toward the capacity to provide a blended learning environment for our students in the future.</p>
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Institutional Initiatives for Electoral Literacy

<p>1. Whether Electoral Literacy Club (ELC) has been set up in the College?</p>	<p>The Electoral Literacy Club (ELC) at SSESAs Science College Congress Nagar, Nagpur was established on December 22, 2023, under Ref. No. Estt/6909/2023. The Principal is the chairperson of the club with NSS program officer Prof. P.S. Utale as nodal Officer and Campus Ambassador Mr. Parth S. Virkhare (Student) and student member. To build a participative democracy in India, the club encourages students to vote, spread awareness, and promote voter literacy. To develop responsible citizens, the club considers it essential to educate students on the importance of participating in the electoral process. Students are informed about political parties, their manifestos, and the backgrounds of the contesting candidates, enabling them to cast an informed vote during elections. The objectives of the club are: • To create awareness among students about the importance of the country's electoral system at the union, state, and local levels. • To enhance student participation in the voting process. • To educate students on selecting effective, people-centric leaders and casting a valid vote. • To ensure the smooth implementation and execution of the club's planned activities.</p>
<p>2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?</p>	<p>Yes, the students' coordinator and coordinating faculty members are appointed by the college for the Electoral Literacy Club (ELC). The ELCs are fully functional, actively engaging in various programs and initiatives to promote voter awareness and literacy among students. Additionally, the ELCs are representative in character, as they include both faculty and student coordinators, ensuring a</p>

	<p>collaborative and inclusive approach to fostering electoral education and participation.</p>
<p>3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.</p>	<p>The Electoral Literacy Club (ELC) has undertaken several innovative programs to promote voter awareness and participation among students. These initiatives include: National Voter's Day Celebration: The ELC organized a "Namo New Voters Conference" and an oath-taking ceremony, encouraging students to recognize the importance of their role as voters. Youth Dialogue Event: On February 26, 2024, the ELC hosted a "Yuva Samvad" program with the guidance of Dr. Vipin Itankar, the Collector of Nagpur. This event aimed to engage young voters in discussions about their electoral rights and responsibilities. Essay Competition: An essay competition was conducted on April 2, 2024, focusing on voting awareness and the promotion of ethical voting practices. This initiative aimed to foster critical thinking about the importance of casting an informed vote. Voter Registration Campaigns: The ELC actively facilitated voter registration drives at the college, successfully submitting 189 student applications to the Voter Registration Officer in Nagpur City across three dates in 2023. These initiatives reflect the ELC's commitment to increasing voter participation, promoting ethical voting, and ensuring that underrepresented sections of society, including students and marginalized groups, are empowered to engage in the electoral process. The ELC's efforts contribute to the broader goal of creating a more informed and participative electorate.</p>
<p>4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.</p>	<p>The college has undertaken several socially relevant initiatives related to electoral issues to advance democratic values and enhance participation in electoral processes. These initiatives include: Awareness Drives: The college organizes regular voter awareness campaigns, including National Voter's Day celebrations and essay competitions focused on voting awareness and ethical voting. These events aim to educate students about their electoral rights and responsibilities. Voter Registration Campaigns: The college conducts voter registration drives to help students and community members register to vote. This includes submitting a significant number of student applications to the Voter Registration Officer, thereby facilitating</p>

	<p>greater electoral participation. Youth Dialogue Events: The "Yuva Samvad" program, guided by local officials such as the Collector of Nagpur, engages students in discussions about electoral processes and democratic participation, fostering a deeper understanding of their roles as voters. Content Creation and Publications: The college actively creates content and publishes materials related to electoral literacy, including informational pamphlets, articles, and reports. These publications highlight the importance of voting and provide valuable information on the electoral process. Research Projects and Surveys: The college is involved in research projects and surveys related to electoral participation and voter behavior. These projects contribute to understanding and addressing the challenges in voter engagement and democratic participation. Through these efforts, the college plays a significant role in advancing democratic values, promoting electoral participation, and ensuring that students and the broader community are well-informed and actively involved in the democratic process.</p>
<p>5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.</p>	<p>The Electoral Literacy Club (ELC) and the college have been proactive in addressing the issue of students above 18 years who are not yet enrolled as voters. Extent of Unregistered Students: The exact number of students above 18 years who are yet to be enrolled as voters in the electoral roll is not specified. However, efforts are continually made to identify and register eligible students. Efforts by the ELC: 1. Voter Registration Drives: The ELC has organized multiple voter registration campaigns to facilitate the enrollment of eligible students. For example, applications from 189 students were submitted across three different dates in 2023. 2. Awareness and Encouragement: The ELC conducts awareness drives and events, such as National Voter's Day celebrations and youth dialogue programs, to encourage students to register to vote. Efforts by the College: • Institutional Mechanisms: The college has established systematic processes to facilitate voter registration. This includes collaborating with local election authorities to ensure efficient and organized registration drives. • Support and Guidance: The college offers comprehensive support to students by conducting informational sessions and providing</p>

guidance on the voter registration process. This ensures that students are well-informed about how to register and the relevant deadlines. • Voter Registration Campaigns: The ELC has organized several voter registration drives at the college, resulting in the submission of 189 student applications to the Voter Registration Officer in Nagpur City on the following dates: • August 30, 2023: 103 applications • September 8, 2023: 26 applications • October 30, 2023: 60 applications Overall, the college and the ELC are committed to increasing voter registration among students and ensuring that they are actively involved in the electoral process.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
1713	2038	2064	2006	1778

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 131

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
93	83	82	72	72

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2023-24	2022-23	2021-22	2020-21	2019-20
264.20	562.66	139.80	121.59	276.20

File Description	Document
Upload Supporting Document	View Document

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

The College is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, and strictly follows a curriculum designed by the affiliating University.

The Institution ensures effective curriculum delivery through a well-planned and documented process to achieve academic excellence & professional competency by adopting academic flexibility measures.

1. Academic Calendar: Academic Planning is done at the beginning of the academic year, and the Principal with all heads of the departments finalizes the College academic calendar concerning the university calendar. This calendar is added to the prospectus and on the college website.

2. Timetable: The timetable is framed by the respective committee according to the workload of each subject as per prescribed university guidelines. It is displayed on the college notice board and circulated on students' official WhatsApp groups. Also uploaded on the website to inform the students.

3. Departmental Meetings: Heads of department conduct meetings with faculty members to implement departmental timetable, distribute syllabus and workload, and extracurricular activities among faculty members

4. Student Induction Program: In the college Student induction programme is conducted for entry-level students to bridge the gap.

5. Teaching Plan: Each faculty member strictly adheres to a timetable and workload. Prepares the micro-teaching plan and regularly maintains notes of it and the academic record in the daily academic diary.

6. Blended Mode Teaching -Learning: Every subject teacher uses teaching aids to make teaching effective through models, specimens, and charts along with the use of traditional methods and digital classrooms for effective teaching. Power-point presentations, soft and hard copies, and website addresses are provided to the students to enhance their knowledge.

8. During the pandemic period, the college switched over the curricular and co-curricular activities to online mode. Parent Education Society provided LMS (Bigblue Button) for curriculum delivery for online modes of teaching. Faculty members also use Google Classroom, Google Meet, YouTube, and Zoom platforms for lectures and internal assessment.

9. **Mentor-Mentee Scheme:** Teachers are appointed as mentors for various aspects by the teacher

Guardian committee. A dedicated mentor for a student group takes care of students regarding academic performance and other problems, if any.

10. **CIE:** Continuous monitoring of the attendance of the students and two unit tests is a part of the internal assessment as per the policy document for continuous internal assessment for UG classes. For PG Seminars, attendance, unit tests, and field visits as per policy of each department, are considered for evaluation. Guest lectures of eminent academicians are organized on current trends related to the curriculum.

11. Faculty members are available after class hours to clear the students' doubts. Simplification of curriculum delivery through teaching outside the classroom

12. ICT facilities and resource material support from the Library helped in the effective implementation of the curriculum. External and internal audit of the department is conducted regularly to ensure the effective delivery of the curriculum.

13. Many faculty members completed the MOOCs and NPTEL, Orientation, and refresher courses to update their knowledge regarding the curriculum, it helps the teachers to update themselves.

14. The syllabus and curriculum delivery are reviewed from time to time by the head of the department during departmental meetings and academic audit meetings. In college council meetings results of university examinations are discussed.

15. Feedback on the curriculum is collected from all stakeholders, Feedback analysis, and action taken on feedback is made available on institution website.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

Response: 107

File Description	Document
List of students and the attendance sheet for the above mentioned programs	View Document
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	View Document
Institutional data in the prescribed format	View Document
Evidence of course completion, like course completion certificate etc. Apart from the above:	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Other Upload Files

1

[View Document](#)

1.2.2

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response: 57.99

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
2462	1645	34	01	1424

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Response:

The college integrates cross-cutting issues relevant to Gender, Environment and Sustainability, Human Values, and Professional Ethics into its curriculum. All science students study languages at the entry-level, with the first-year Hindi, English, and Marathi syllabi including these themes. Professional Ethics are part of all postgraduate subjects, while Environment and Sustainability are covered in Chemistry and Life Sciences. Human health aspects are also included in Life Sciences. Environmental Studies is mandatory in Semester IV for all students, ensuring these issues are taught with enthusiasm alongside other subjects.

Gender

Beyond regular teaching, the college addresses gender issues through additional mechanisms. With many female students, the college emphasizes their safety and welfare via the Women Grievance Redressal Committee and the Internal Complaint Committee, which handles sexual harassment issues, if any. To educate female students about safety laws, the ICC organizes workshops and lectures on gender discrimination and workplace safety. An essay competition on Women's Day and a special NCC wing for female students further support these initiatives.

Health

The college organizes health activities such as blood donation camps, Yoga Day, and dental check-up camps. Workshops like "Compression Only Life Support" are also held. During student induction, the Alumni Association conducts organ donation awareness programs. The Zoology department celebrates Nutrition Week, providing students with diet plans. RT PCR and vaccination drives are conducted, and Filariasis medicine is distributed to promote health awareness.

Value Education

The college celebrates national and cultural events to inculcate moral values in students, including Independence Day, Constitution Day, Unity Day, Voters Day, and many more. The birth anniversaries of prominent figures like Shastriji, Gandhiji, and Dr. B.R. Ambedkar are celebrated. An exhibition on Swami Vivekananda's books and "Meri Mati Mera Desh" campaign help inculcate patriotism and moral values. Awareness programs on human rights and the Indian Constitution further reinforce these values.

Social Initiatives

The college engages in social initiatives such as workshops for farmers in Fetri, where they are informed about tools for productive agriculture. Items are donated to children at Nagalwadi School, and the Chemistry department distributes stationery in slum areas. The college sets up food stalls annually to feed people visiting Diksha Bhoomi. The NSS and NCC units highlight the importance of community service, helping students develop leadership skills and a secular outlook.

Ethical Values

SSESA's Science College, Nagpur has actively incorporated professional ethics and crosscutting issues into its curriculum by conducting various workshops on Intellectual Property Rights (IPR), including sessions on How to File Work for Copy-right Office in India, Research Methodology, and Using Advanced Tools for Literature Survey. Through the guidance provided by the IPR Cell, students and faculty successfully published their work in the Patent Journal and received copyright certificates from both India and Kenya. This initiative highlights the institution's commitment to ethical practices and protecting creative and intellectual work.

Environment and Sustainability

The NSS organizes tree plantation drives and Swachh Bharat Abhiyan, Vasundhara Day etc., and Green Club promotes environmental stewardship, focusing on efficient resource use like water, waste, and energy. The college has installed solar panels for green energy.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.3.2

Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 45.59

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 781

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response: C. Feedback collected and analysed

File Description	Document
Feedback analysis report submitted to appropriate bodies	View Document
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	View Document
Action taken report on the feedback analysis	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 89.39

2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2023-24	2022-23	2021-22	2020-21	2019-20
626	758	766	772	684

2.1.1.2 Number of sanctioned seats year wise during last five years

2023-24	2022-23	2021-22	2020-21	2019-20
842	798	798	798	798

File Description

Document

Institutional data in the prescribed format

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

2.1.2

Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response: 89.7

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

2023-24	2022-23	2021-22	2020-21	2019-20
381	367	378	379	367

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
435	413	413	413	413

File Description	Document
Institutional data in the prescribed format	View Document
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	View Document
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.2 Student Teacher Ratio

2.2.1

Student – Full time Teacher Ratio
(Data for the latest completed academic year)

Response: 18.42

2.3 Teaching- Learning Process

2.3.1

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

The college integrates both traditional and ICT-enabled tools to enhance its teaching and learning processes. Teachers leverage digital tools and online resources to create an effective and interactive learning environment. The college emphasizes student-centric approaches such as experiential learning, participative learning, and problem-solving methodologies. At the beginning of each academic year, a Student Induction Program is organized according to University Grants Commission (UGC) guidelines to help new students become familiar with the college's infrastructure and facilities. The college also conducts events like student parliaments, mock parliaments, Yuvak Biradari, and Yuva Bhushan to cultivate global competence and awareness of current global issues among students.

Experiential Learning

Experiential learning is central to the college's educational approach. Departments host activities like Scientific Model Making Competitions and practical sessions in virtual laboratories to encourage hands-on learning. Bridge courses are provided to new students to make subjects more accessible and engaging. Departments such as Geology, Botany, Zoology, Microbiology, and Biotechnology regularly organize field visits and surveys to combine theoretical knowledge with practical experience. Subject-specific skill-based courses are designed to enhance students' abilities. Students participate in "Avishkar," a research convention organized by RTM Nagpur University, and can benefit from the "Earn While Learn" scheme, which provides practical experience while studying. The Innovation and Incubation Centre supports students in research publication, copyrighting, and patent filing through its Intellectual Property Rights (IPR) system. Additionally, departments arrange educational and industrial visits for undergraduate and postgraduate students annually.

Project Work

As per National Education Policy (NEP-2020), research projects are compulsory for the students of postgraduate students. The Department of Zoology provides electronic circuit experiment kits to help students learn basic circuit concepts. The Botany Department promotes sustainability through projects on eco-friendly Holi colors, seed balls, mushroom cultivation, and plant tissue culture. Similarly, the Zoology Department focuses on animal tissue culture. The Department of Computer Science organizes events on modern technology topics like Hackathons, Big Data, Cyber Security, and E-content Development. M.Sc. and Master of Computer Application (MCA) students undertake internships in their fourth semester to gain practical experience. The Department of Mathematics organizes a poster presentation competition on the National Mathematics Day Celebration.

Participative Learning

The college fosters participative learning through group discussions, quizzes, brainstorming sessions, and seminars. Assignments are given after each unit to assess students' progress. Beyond academics, students participate in extracurricular activities through the National Service Scheme (NSS) and National Cadet Corps (NCC), including village adoption, tree planting, Swachh Bharat Abhiyan, health camps, voter ID registration, and cultural events. Students also take part in initiatives like Career Katta, safety programs for girls, skill development workshops, and social campaigns.

ICT-Enabled Learning

Teachers use ICT-enabled tools such as MOOCs, SWAYAM-NPTEL, YouTube, Google Classroom, Google Forms, Zoom, Google Meet, LMS, WebEx, and WhatsApp for teaching, learning, and assessment. These tools were particularly effective during the COVID-19 pandemic and enhanced the learning experience. Most departments are equipped with ICT teaching aids like computers, laptops, LCDs, DLPs, and advanced lab equipment for practical sessions.

Overall, the college integrates traditional and digital methods to provide a comprehensive, well-rounded educational experience.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1

Percentage of full-time teachers against sanctioned posts during the last five years

Response: 81.71

2.4.1.1 Number of sanctioned posts year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
110	102	102	89	89

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.4.2

Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)

Response: 60.7

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
63	47	48	45	41

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	View Document
Institution data in the prescribed format	View Document
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.5 Evaluation Process and Reforms**2.5.1**

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

The college holds regular meetings of Heads of Departments (HODs) and the college council to discuss and finalize action plans for the academic year. During these meetings, suggestions from faculty members are thoroughly reviewed and, if found valuable, are implemented in the college's educational strategies. The syllabi for all skill-based courses are designed by the respective course coordinators and then submitted to the university for approval. The Internal Quality Assurance Cell (IQAC) plays a pivotal role in the design, development, and execution of these action plans, ensuring they align with academic standards and institutional goals.

For effective curriculum implementation, the college prepares an academic calendar at the beginning of each session in alignment with the academic calendar of RTM Nagpur University. This calendar serves as a guideline to coordinate and monitor all academic activities throughout the year. The heads of each department are responsible for conducting departmental meetings to distribute the curriculum, syllabi, and workload among staff members. These meetings also provide a platform to discuss various academic activities planned for the session.

The timetable committee is responsible for framing the timetable and allotting the number of periods according to the workload prescribed by the University Grants Commission (UGC). Each faculty member maintains an academic diary and keeps track of student attendance. A monthly syllabus plan is displayed on the departmental notice board to keep students informed. Continuous Internal Evaluation (CIE) is conducted through various methods, including regular assignments, problem-solving sessions, and unit tests, which are held immediately after completing each unit. The evaluated test papers are then distributed back to students to help them understand the topic in-depth and learn from their mistakes.

Important dates for college exams, unit tests, terminal exams, home examinations, and internal assessments are clearly mentioned in the prospectus, on notice boards, and in the academic calendar. This approach to internal assessment allows teachers to evaluate student performance more accurately and provide appropriate guidance to both slow and advanced learners. The internal assessment process includes several modes:

- Various departments conduct Bridge courses for first-year students at the start of the academic session.
- The college's examination committee ensures that exams are conducted smoothly as per the schedule.
- Full transparency is maintained in internal assessments, with teacher-mentors meeting with students to discuss their performance and address any grievances.
- A Grievance Redressal Cell is established to handle complaints related to internal assessments.

Continuous internal assessment significantly helps improve students' university results. Regular attendance encourages students to participate actively in various co-curricular and extra-curricular activities, fostering overall personality development. Seminar presentations, which are part of internal assessments, enhance students' communication skills—an essential attribute for succeeding in interviews.

To ensure transparency in external assessments, RTM Nagpur University has implemented Direction 25 of 2014, which provides for the supply of online soft copies of assessed answer books and their reassessment upon request from examinees in all faculties within the university.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

Response:

The institution affiliated with Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) emphasizes the significance of learning outcomes at various educational levels. It aligns its programs and courses with RTMNU's syllabi to ensure comprehensive student development. For the academic years 2023-24 and 2024-25, the institution has updated its syllabi to comply with the National Education Policy (NEP) 2020, with Post Graduate syllabi revised first, followed by Undergraduate syllabi.

Learning outcomes for each program and course are crafted by subject teachers participating in the Board of Studies, considering the prescribed syllabi. These outcomes are categorized into Program Outcomes (PO), Program Specific Outcomes (PSO), and Course Outcomes (CO). The institution displays these outcomes on its website, departmental notice boards, and in QR code form for easy access by students and faculty. Additionally, they are shared during the annual Student Induction Program (SIP) conducted by the Principal, IQAC coordinator, and senior faculty members.

The Program Outcomes for the B.Sc. and M.Sc. programs are designed to cultivate several key abilities:

1. **Critical Thinking:** Students learn to make informed decisions by assessing the validity of assumptions and considering various perspectives.
2. **Problem Solving:** They apply knowledge from various disciplines to address problems effectively.
3. **Effective Communication:** Students are trained to articulate ideas clearly in English and an Indian language, using both written and spoken forms.
4. **Individual and Team Work:** The programs foster the ability to work efficiently both individually and as part of diverse teams.
5. **Ethics:** Students gain an understanding of different value systems and ethical considerations.
6. **Environment and Sustainability:** The curriculum includes understanding the impact of technology and business on societal and environmental sustainability.
7. **Self-directed and Life-long Learning:** Emphasis is placed on the ability to engage in ongoing learning amidst socio-technological changes.
8. **Design/Development of Solutions:** Students are trained to design solutions for complex problems with considerations for public safety and cultural, societal, and environmental impacts.
9. **Computational Thinking:** The programs encourage the use of data and computing technology to solve problems.
10. **Effective Citizenship:** Students are encouraged to participate in civic life and contribute to national development with empathy and social awareness.
11. **Global Perspective:** Understanding the interconnectedness of global economic, social, and ecological systems is a key learning outcome.

These outcomes aim to equip students with a broad set of skills and perspectives necessary for both personal and professional success. They are accessible through various platforms including the college's website and library, ensuring that both students and faculty are well-informed.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

The Institution offers Undergraduate, Post Graduate, Research, and Career Oriented programs in the Faculties of Science and Technology. The courses under these programs follow the syllabi prescribed by RTM Nagpur University, Nagpur. The students acquire knowledge and skills in the duration of their chosen program that brings out the best in them to develop a better future for themselves and contribute to the betterment of society and the country. The performance of students is monitored and evaluated to measure the attainment of Program Outcomes, Program Specific Outcomes, and Course Outcomes through internal, and external evaluation, placement, progression to higher studies, skill development, and start-ups.

Assessment tools: Rashtrasant Tukadoji Maharaj Nagpur University guidelines have given a weightage of 20% for internal assessment and 80% for external assessment in the form of internal and external examinations. Internal evaluation takes into account journal writing, timely assignment submission, seminar presentations, unit tests, tutorials, and quizzes. The faculty members review students regularly on these criteria and provide opportunities for students to improve their performance. Students' participation in competitions, seminars and conferences, research competitions, and other events support the attainment of the stated outcomes. The internal and external assessment systems are off course a way of evaluation. Furthermore, students are observed for their involvement in participatory learning, eagerness to take initiative in activities, improved learning capabilities, development of confidence and personality building, etc. Observation and conversation accurately reflect what is achieved from the curriculum. Through external examination, academic performance is assessed. Meritorious students are recognized by felicitating in the institution on Republic Day celebrations and awarded scholarships from the fund raised by teachers and philanthropists. University results are thoroughly reviewed and analyzed during Academic audits of departments and discussed in Staff Council Meetings as well as in the College Development Committee.

Through the student feedback mechanism, the program and Course outcomes are evaluated. Several Students' progression to higher studies reflected the program and Course outcome. 80% of Students go for Higher studies like UG to PG and PG to Ph.D. Students also appeared for Eligibility and entrance exams like SET/ NET/ GATE/ JAM/ etc. Some Students opted for competitive exams held by Government and non-government organizations. Placement, self-employment, entrepreneurship status, and social initiative of the students show the result of the program and Course Outcome as stated by the Institution. Students after their studies attended placement through On-campus/Off-Campus interviews and the selection process. Students started the small-scale business of their interest, Entrepreneurship cells guided these students.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.3

Pass percentage of Students during last five years (excluding backlog students)

Response: 90.07

2.6.3.1 Number of final year students who passed the university examination year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
471	520	684	681	629

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
589	725	689	682	629

File Description	Document
Institutional data in the prescribed format	View Document
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	View Document
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response: 3.88

File Description

Document

Upload database of all students on roll as per data template

[View Document](#)

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 8

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

2023-24	2022-23	2021-22	2020-21	2019-20
4.25	0	0	0	3.75

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

SSEA's Science College, Nagpur, established the Shivaji Science Innovation and Incubation Centre (SIIC) in 2022 with a mission to foster innovation and provide a platform for intellectual property (IP) education. Since its inception, SIIC has become a hub for organizing workshops and activities related to Intellectual Property Rights, enabling students to actively engage and deepen their knowledge in the field. The 2023-2024 academic session was particularly impactful, marked by several notable events and initiatives.

1. Two-Day Self-Paced Virtual International Symposium on IPR

A major highlight of the academic year was the two-day self-paced Virtual International Symposium on IPR, held from April 26th to April 27th, 2024. The symposium featured global speakers who explored various aspects of intellectual property and its role in innovation and business.

2. Celebrating the 125th Birth Year of Late Dr. Punjabrao Deshmukh

In 2023, SIIC commemorated the 125th Birth Year of Late Dr. Punjabrao Deshmukh, founder of Shri Shivaji Education Society, Amravati. SIIC secured over 125 Intellectual Property Rights (IPRs), including Indian and Kenyan copyrights, patents, and innovative ideas published in the Indian Patent Journal.

3. Hands-On Training Session on Copyright Filing

On October 31, 2023, the Department of Chemistry, in collaboration with SIIC, conducted a Hands-On Training Session on Copyright Filing in India, led by Dr. Dhote. The session educated both (PG) and (UG) students on the intricacies of filing copyrights in India.

4. Student Achievements at RTM Nagpur University Avishkar 2024

SIIC's focus on innovation was further emphasized by the success of four students at the RTM Nagpur University Avishkar 2024: Ms. Khushi Sonkuwar, Ms. Shahabat Khan, Ms. Sanjana Jangde, Ms. Arya Walde

5. Success at Comp-Ex 2024

Two students, Shrushti Ninawe and Vasu Madekar, were among the top five finalists at Comp-Ex 2024 for their IoT-based Water Testing Kit, which enables real-time water quality monitoring.

6. Winners in Maharashtra Innovation Students Challenge 2023

Two students, Ms. Avanti Pusdekar and Mr. Sumya Yadav, were awarded Rs. 1 lakh each in seed funding as part of the Maharashtra Innovation Students Challenge 2023, which supported the growth of their innovative startup projects.

7. College-Level Innovation Challenge 2023

The College-Level Students Innovation Challenge 2023, held on October 10, 2023, promoted creativity and problem-solving among students, providing a platform to present innovative ideas to a panel of judges.

8. Technology Transfer Agreements

SIIC supported two students in successfully signing Technology Transfer Agreements, advancing their app ideas into practical development.

9. Special Lecture on Ancient Metallurgy and IKS

The PG Chemistry organized a lecture on Ancient Metallurgy and Indian Knowledge Systems (IKS), delivered by Dr. Dhote, exploring the historical significance and modern applications of ancient Indian metallurgical techniques.

10. Knowledge Transfer Workshop

Under SIIC's Knowledge Transfer Scheme, Shrushti Ninawe and Shahabat Khan led a hands-on workshop on crafting a low-cost colorimeter at Kamla Nehru College, training faculty and students in affordable technology development.

In conclusion, SIIC has established itself as a thriving hub for innovation and intellectual property education, significantly contributing to students' intellectual and creative growth.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 37

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

2023-24	2022-23	2021-22	2020-21	2019-20
08	20	05	03	01

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1

Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 0.98

3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
26	48	15	22	17

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	View Document
Link to re-directing to journal source-cite website in case of digital journals	View Document
Links to the papers published in journals listed in UGC CARE list or	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.3.2

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.29

3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

2023-24	2022-23	2021-22	2020-21	2019-20
27	06	02	2	01

File Description	Document
List of chapter/book along with the links redirecting to the source website	View Document
Institutional data in the prescribed format	View Document
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.4 Extension Activities

3.4.1

Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.

Response:

Academic Session Year 2023-24:

The extension activities in 2023-24 were characterized by creative engagement and community outreach. The Rangoli competition under Micromania 2023, themed "Viral Diseases," involved 50 students who combined artistic expression with knowledge of microbiology, raising awareness about infectious diseases. The "Green Rakhi" competition organized by the Department of Botany on the theme of "Food Security, Nutrition, and Sustainable Agriculture" highlighted the importance of millets in health and sustainability. This event sensitized students to issues surrounding agriculture and nutrition. On Science Day, students from Shri SSES's Science College, Nagpur conducted public science demonstrations in Nagpur, effectively dispelling myths and fostering a scientific mindset in the local community. The Department of Microbiology's "Farmer's Workshop" focused on soil rejuvenation, enhancing farmers' understanding of sustainable agricultural practices. Additionally, a Dental Check-up Camp held in collaboration with a dental college benefitted 168 individuals, emphasizing community health and wellness.

Academic Session Year 2022-23:

The activities in 2022-23 emphasized environmental sustainability, hygiene, and community welfare. Celebrating World Water Day, students and faculty engaged with advanced water testing techniques and distributed testing kits to promote water quality awareness. The Department of Chemistry distributed a diluted floor cleaner to schools and slums under the Swachh Bharat Scheme, combining sustainability efforts with entrepreneurship training for students. The inter-university workshop on "Cosmetics and Allied Products" and the workshop on "Eco-Friendly Holi Colours" taught students practical skills in making eco-friendly products, fostering both creativity and environmental responsibility. The Physics Space Explorer Club's stargazing event promoted scientific curiosity and community engagement.

Academic Session Year 2021-22:

The 2021-22 extension activities focused on social responsibility and public health. The "Joy of Giving" event in December 2022 saw students and faculty members bring joy to underprivileged children in a slum area, fostering empathy and a sense of community service. The Department of Geology organized an intercollegiate exhibition, enhancing inter-disciplinary learning and collaboration.

The vaccination drive for 15-18+ age groups, conducted in association with Nagpur Municipal Corporation, successfully immunized 264 individuals, reflecting a strong commitment to public health. Students from the Microbiology Department volunteered, gaining hands-on experience in health promotion and event management.

Academic Session 2020-21:

During 2020-21, extension activities were largely focused on awareness campaigns. The online poster competition for AIDS Awareness Day promoted understanding of HIV/AIDS, while the Earth Science Role competition encouraged students to explore innovative ideas in geology and environmental science.

Common Activities Across All Years:

Common activities organized by the **NSS and NCC** units throughout these years included celebrating International Yoga Day, conducting voter registration drives, and promoting awareness of diseases like filariasis. They also organized blood donation camps, cleanliness drives, tree plantation activities, and community service at tribal schools, contributing significantly to the holistic development of students.

Impact and Holistic Development:

These activities not only provided students with hands-on learning opportunities but also sensitized them to broader social, environmental, and health issues, contributing to their holistic development.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2**Awards and recognitions received for extension activities from government / government recognised bodies****Response:**

SSEA's Science College, Nagpur, has consistently demonstrated excellence through active participation in various initiatives and competitions, securing notable recognitions and awards. This report highlights key achievements from 2023-24 and recognitions from prior years.

2023-24

1. Career Katta

SSESA's Science College, Nagpur secured the 5th rank in the district-level college competition under the "Career Katta" initiative. This event was organized by the Maharashtra State Higher and Technical Education Department in association with the Maharashtra Information Technology Assistance Centre.

2. Center of Excellence (D Grade)

The college was honored with the title of "**Center of Excellence (D Grade)**" by the **Maharashtra State Higher and Technical Education Department**. This distinction was awarded in recognition of the college's continuous efforts toward the overall development of students. The acknowledgment underscores the institution's dedication to enhancing educational standards, fostering skill development, and preparing students for future challenges.

3.3. District-Level Best Green Club Incentive Award

On **World Water Day (March 22, 2023)**, the college received the **District-Level Best Green Club Incentive Award**, securing the first position in Nagpur district. This award recognizes the college's efforts in environmental sustainability and conservation. The Green Club has played an integral role in promoting eco-friendly initiatives, raising awareness about environmental issues, and encouraging active participation in sustainable practices.

4. HCLTech, Supercharging Progress

The college received a **Certificate of Appreciation** from HCLTech for motivating students to explore new career pathways through the **TechBee - HCL's Early Career Program**. The award was presented on **September 7, 2023**, by Senior Vice President Sublsarsmen.

5. Puneet Sagar Abhiyaan (2023-24)

As part of the NCC Army Wing events organized from **6 to 8 September 2023**, with special reference to India's **G20 Presidency**, cadet **Shreya Parihar** won **2nd prize** in a poster-making competition.

6. Lt. Shrutika V. Lokhande

Lt. Shrutika V. Lokhande, Associate NCC Officer at SSESA's Science College, Nagpur, was awarded and honored with the **Lieutenant Rank** by Commandant Officer **Rajeev Bhola** and Group Commander **Group Captain Kushal Vyas**, along with Administrative Officer **Major Adm.**

2022-23

1. Uganda Community Museums Association

SSESA's Science College, Received two recognition certificates from the **Uganda Community Museums Association** for developing interactive apps for:

- **Kigulu Chiefdome Heritage Site**
- **Kigulu Museum**

2021-22

1. NCC Best Cadet Award (SW)

CWO Rashmi P. Balki of SSESA's Science College, Nagpur received the **NCC Best Cadet Award** in the University for the training year **2020-21**. The award was presented on the **98th foundation day** of RTM Nagpur University on **4th August 2021**.

2. Ek Bharat Shreshtha Bharat (EBSB) Camp

SSESA's Science College, Nagpur cadets participated in the **EBSB Camp** held from **1-16 August 2022**. The Maharashtra DTE won **8 positions** at the national level, with cadets **Mayuri Gawande, SGT Isha Dhwankar, and SGT Astha Jadhav** SSESA's Science College, Nagpur, has consistently demonstrated excellence through active participation in various initiatives and competitions, securing notable recognition and awards. This report highlights key achievements from 2023-24, along with recognitions from prior years.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response: 24

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
05	10	05	01	03

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	View Document
Institutional data in the prescribed format	View Document
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 55

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	View Document
List of year wise activities and exchange should be provided	View Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

- teaching – learning, viz., classrooms, laboratories, computing equipment etc
- ICT – enabled facilities such as smart class, LMS etc.

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

The campus is spread over 3 acres of land with a built-up area of 12052.57 sq. mt. There are three multi-storied buildings with 50MBPS data plan Wi-Fi facilities named Block A, Block B, and Block C. Girls'.

1. Hostel: Ladies Gym, Guest House for resource persons, Guest room for guardians, warden accommodation, and dining hall. Facilities are available as follows. Classrooms: 20 spacious classrooms with glass boards, digital boards, a dais, and a podium.

2. Technology Enabled Learning Spaces: All departments are well equipped with LCD, ICT, Wi-Fi, and Leased line connection, Computers, and Laptop. The library is equipped with ICT, e-books, and e-journals. The Audio-Visual Room with ICT and Video Conferencing facility is available.

3. Conference Hall/ Seminar Hall: The Conference Hall carpet area is 278.39 sq. mt., seating capacity of 350. One meeting hall with a carpet area of 50.167 sq. mt.

4. Laboratories: There are 31 well-equipped laboratories.

5. Museum: Departments of Zoology, Geology, and Botany have museums.

6. Botanical Garden: A well-maintained botanical garden on the terrace of block C building where the students study flora and fauna and different aspects of medicinal plants.

7. CCTV Surveillance: The complete campus is under CCTV Surveillance.

Sports: The following sports facilities are available in the college. Outdoor

- Games: A spacious playground is available for outdoor games viz. Cricket, Athletics, Softball, Football, Volleyball, Basketball, etc. on the college campus.
- Indoor Games: Facilities for sports like Chess, Table Tennis, etc, are provided to students on the college campus. The college shares an indoor badminton court available on the same campus belonging to Dhanwate National College, a college run by our parent society.

Gymnasium: The college has a well-equipped Gymnasium for girls with all the advanced equipment.

The facility of Gymnasium belongs to Dhanwate National College, a college run by our parent society is made available for boys.

Auditorium: The college shares an auditorium with our sister institution on the campus with a seating capacity of around 350 for special seminars or cultural activities.

Public speaking and communication skills development: The language laboratory enables the students to acquire communication skills with proficiency in syntax, grammar, phonetics, and pronunciation.

Yoga: The Department of Physical Education creates awareness regarding the importance of yoga asanas, and different kinds of exercises to maintain the good health of students and staff. The NSS unit organizes Yoga classes for the staff and students in the morning during NSS camp.

NCC and NSS: The college has NCC units of 100 Girls students and NSS units of 100 students.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response: 43.97

4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

2023-24	2022-23	2021-22	2020-21	2019-20
75.92013	376.2693	29.30659	21.44846	97.04232

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

4.2 Library as a Learning Resource

4.2.1

Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

The college boasts a well-equipped central library, fully computerized and integrated with modern technology. It employs advanced software such as **Lib-man**, a Library Management System, and **Lib Visitor's Management Software** to streamline management and enhance user access. These systems facilitate the efficient handling of both physical and digital resources, ensuring a user-friendly experience for students and faculty alike.

The library provides access to an extensive range of digital platforms and services, including **e-learning platforms**, **N-List**, **OPAC** (Online Public Access Catalog), **UGC-Network resources**, and **INFLIBNET**. This comprehensive digital infrastructure ensures that users can access a wealth of academic materials both on-site and remotely. In addition to these digital tools, the library houses educational CDs, tutor CDs, and multimedia resources to further support student learning. It also offers essential facilities like an **I-Card Printer**, **Xerox machine**, and **Brain Lipi books**, enhancing its ability to meet diverse academic needs.

The library includes a **dedicated internet zone** with 28 machines available for student use. This area allows for seamless online research and academic activities, providing students with the tools they need to succeed in an increasingly digital world.

To keep students and faculty up-to-date on the latest academic and research developments, the library subscribes to a variety of national and international **journals**, **periodicals**, **newspapers**, and **magazines**. This diverse selection of materials ensures that users remain informed about the latest trends and research in their fields of study.

For students preparing for competitive exams or working on academic projects, the library offers an extensive collection of **competitive exam books**, **project volumes**, and **manuals**. These resources are

critical for supporting academic success and helping students reach their goals. A dedicated **new arrivals section** is regularly updated with the latest academic resources, keeping users informed about the newest materials available in the library.

The library boasts a total collection of **42,775 books**, including reference materials and textbooks. In addition, users have access to **e-books** and **e-journals** via platforms like **INFLIBNET/N-List** and **OPAC**. For even greater convenience, the library has implemented a mobile app called **M-OPAC**, allowing students and faculty to access library resources from their mobile devices.

Additional services such as **reprography**, **scanning**, and **printing** are available to assist students with their academic work. These services, combined with the library's vast resources, make it a vital academic hub on campus.

A **Library Advisory Committee**, composed of the principal, librarian, and HODs or postgraduate coordinators, oversees the library's operations. This committee prepares the annual budget and strategizes ways to enhance the user experience. By ensuring optimal use of the library's resources, the committee continuously works to improve services, making the library more user-friendly and resource-rich for the entire college community.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

Response:

To keep pace with the rapidly evolving world of Information Technology, the college is committed to achieving full automation across all its activities, seamlessly integrating academic, administrative, and admission processes with the latest IT infrastructure. In this effort, the institution has significantly enhanced its IT facilities, expanding the number of computers, laptops, printers, scanners, LCD projectors, interactive touch boards, and Xerox machines. The college has also upgraded its website, streamlining the online admission process to ensure a user-friendly experience. Both office administration software and library management systems are updated regularly to meet contemporary

needs. Moreover, all IT resources are periodically reviewed and upgraded to stay in line with emerging technological requirements.

The college boasts six well-equipped computer laboratories dedicated to undergraduate (UG) and postgraduate (PG) computer science students, along with a Network Resource Centre (NRC) lab. The institution's IT infrastructure includes 352 computers and laptops, 77 laser printers, five scanners, 30 LCD projectors, 12 smart boards, 10 LCD TVs, four Xerox machines, and a Cyberoam device for smooth office administration, academic support, and library operations. This advanced setup ensures that both students and staff have the tools necessary for efficient learning, research, and administrative functions.

A high-speed internet connection, powered by a 50 Mbps optical fiber leased line, provides fast, uninterrupted connectivity to all users. Additionally, the entire campus is equipped with a robust 24/7 Wi-Fi facility, accessible to both students and faculty members. The Wi-Fi coverage extends across all areas of the campus, including the girls' hostel, ensuring seamless internet access at any time and from any location. The campus is fully networked, supported by state-of-the-art IT infrastructure, enabling students and staff to access essential online services such as email, web browsing, and web-based applications. This fosters an environment conducive to academic research and other online activities.

To safeguard internet resources and ensure their proper use, the college has implemented a Cyberoam firewall. This firewall offers comprehensive protection against unauthorized access and illegal internet use, creating a secure online environment. Cyberoam's security appliances provide a range of advanced features such as firewall protection, VPN (SSL VPN and IPsec) for secure remote access, gateway antivirus, anti-spyware, anti-spam systems, and an Intrusion Prevention System (IPS) that helps detect and prevent cyber threats.

Bandwidth management, another critical aspect of the Cyberoam firewall, ensures optimal allocation of network resources, preventing any single user or application from consuming excessive bandwidth. This guarantees smooth and reliable internet performance for all users, even during peak usage times.

In addition to cybersecurity, the college has implemented a comprehensive CCTV surveillance system with 162 cameras strategically placed across the campus. This 24/7 monitoring system ensures the safety and security of students, faculty, and staff. The combination of advanced IT infrastructure and CCTV surveillance fosters a secure environment that is conducive to both learning and research.

To maintain its sophisticated and costly equipment, the college follows an Annual Maintenance Contract (AMC) system. This ensures that ICT resources, including computers and other IT-related equipment, remain in good working condition. The current AMC, held with Computer Maintenance House, Nagpur, covers software installation, repairs, and upgrades. Regular quotations are sought to secure the best value for maintaining the college's IT infrastructure.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3.2**Student – Computer ratio (Data for the latest completed academic year)****Response:** 8.65**4.3.2.1 Number of computers available for students usage during the latest completed academic year:**

Response: 198

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	View Document
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

4.4 Maintenance of Campus Infrastructure**4.4.1**

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

Response: 2.3**4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

2023-24	2022-23	2021-22	2020-21	2019-20
8.08711	11.5796	2.6995	2.34508	6.66354

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response: 46.83

5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
775	969	951	925	875

File Description

Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.1.2

Following capacity development and skills enhancement activities are organised for improving students' capability

- 1. Soft skills*
- 2. Language and communication skills*
- 3. Life skills (Yoga, physical fitness, health and hygiene)*
- 4. ICT/computing skills*

Response: B. 3 of the above

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	View Document
Report with photographs on ICT/computing skills enhancement programs	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 45.33

5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2023-24	2022-23	2021-22	2020-21	2019-20
1698	1124	431	341	757

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4

The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases

- 1.Implementation of guidelines of statutory/regulatory bodies**
- 2.Organisation wide awareness and undertakings on policies with zero tolerance**
- 3.Mechanisms for submission of online/offline students' grievances**
- 4.Timely redressal of the grievances through appropriate committees**

Response: C. 2 of the above

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	View Document
Proof related to Mechanisms for submission of online/offline students' grievances	View Document
Proof for Implementation of guidelines of statutory/regulatory bodies	View Document
Details of statutory/regulatory Committees (to be notified in institutional website also)	View Document
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2 Student Progression

5.2.1

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 41.98

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
308	353	209	203	180

5.2.1.2 Number of outgoing students year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
471	520	684	681	629

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	View Document
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2.2

Percentage of students qualifying in state/national/ international level examinations during the last five years

Response: 5.25

5.2.2.1 Number of students qualifying in state/ national/ international level examinations year wise during last five years (eg: IIT/JAM/NET/SLET/GATE/GMAT/GPAT/CLAT/CAT/ GRE/TOEFL/ IELTS/Civil Services/State government examinations etc.)

2023-24	2022-23	2021-22	2020-21	2019-20
32	21	14	19	05

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.3 Student Participation and Activities

5.3.1

Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 12

5.3.1.1 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 wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
03	04	05	0	0

File Description**Document**

Upload supporting document

[View Document](#)

list and links to e-copies of award letters and certificates

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.3.2

Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 32.4

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2023-24	2022-23	2021-22	2020-21	2019-20
38	55	28	04	37

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1

There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

The Alumni Association of Shri Shivaji Education Society, Amravati's Science College, Congress Nagar, Nagpur has been actively fostering a strong bond between alumni and current students, enriching both academic and professional experiences. Through a series of impactful events and initiatives, the Association has demonstrated its commitment to advancing scientific knowledge, promoting student development, and addressing important social issues.

On September 12, 2019, the Association organized an informative lecture on nanotechnology, led by Dr. Mrs. D. M. Borikar, an esteemed alumna and Professor at Ambedkar College, Nagpur. Dr. Borikar's lecture provided an in-depth understanding of nanotechnology, covering its principles and potential applications in medicine, including drug delivery and regenerative medicine. This session highlighted the Association's dedication to introducing students to cutting-edge scientific developments.

The following year, on August 23, 2020, the Association hosted a guest lecture on spectroscopy, delivered by Dr. Niren Kathale, a distinguished alumnus and expert from S.P. College, Nagpur. The lecture delved into various spectroscopic techniques like UV-Vis, IR, NMR, and Mass Spectrometry, and explored their applications across multiple scientific disciplines. By organizing such events, the Association continues to keep students and alumni updated on the latest advancements in science.

In addition to academic enrichment, the Alumni Association has taken meaningful steps to support students financially. In the academic year 2021-22, the Association distributed scholarships totalling Rs. 70,000 to deserving students, ensuring that financial challenges do not hinder academic achievement. The scholarships, awarded to students at the junior, senior, and postgraduate levels, reflect the Association's ongoing commitment to educational equity.

The Association also emphasizes personal growth and motivation. A motivational lecture by Dr. Sushil Gawande, a renowned psychiatrist, titled "Believe in Yourself," was organized to inspire students. Attended by over 400 students, the event aimed to boost confidence and encourage self-belief among the youth. Scholarships were also distributed during this event, reinforcing the Association's dual mission of providing both intellectual and emotional support.

Practical skill development is another focus area for the Alumni Association. On March 21, 2023, a hands-on workshop on cosmetics and allied products was organized, led by alumna Dr. Ketki Misar, Head of the Cosmetology Department at Kamla Nehru College, Nagpur. Students received practical

training in making products like shampoo, hand wash, and sanitizers, underscoring the Association’s role in bridging the gap between theoretical knowledge and practical application.

In celebration of Women’s Day on March 16, 2024, the Association hosted a lecture by Shomita Biswas (IFS), CEO of Maha Camp, who spoke on gender equality. The event also featured an essay competition aimed at promoting gender sensitization, further illustrating the Association’s commitment to addressing important social issues.

The Alumni Association also places a strong emphasis on recognizing and supporting merit and need. At an alumni gathering on May 6, 2023, a total of Rs. 80,000 in scholarships was distributed to needy and meritorious students. This event, featuring insights from Dr. Chandrashekhar Pakhmode, a prominent neurosurgeon, highlighted the importance of determination and hard work in achieving success.

In summary, the Alumni Association of Shri Shivaji Science College plays a crucial role in fostering academic excellence, personal development, and social responsibility among its community. Through lectures, workshops, scholarships, and motivational programs, the Association continues to enrich the lives of both students and alumni, ensuring a legacy of knowledge, support, and growth.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Response:

Shivaji Science College, Nagpur, upholds the profound vision of "Tamsa Maa Jyotirgamay," which translates to "Lead us from darkness to light." This guiding principle underscores the institution's commitment to providing quality education and fostering enlightenment in society. The college strives to bring this vision to life through its governance, policies, and daily actions. Central to its leadership approach is participative management, which encourages collaborative decision-making to create a supportive environment conducive to fulfilling the college's mission and vision.

The Governing Body plays a key role in ensuring that quality education is accessible to all sections of society, with the goal of empowerment through learning. Representation in the college's decision-making bodies is broad and inclusive, featuring educationists, researchers, social activists, industrialists, principals, teachers, non-teaching staff, and students. Through free and fair elections held every five years, these stakeholders contribute their voices to bodies such as the Governing Body and College Development Council (CDC). The principal serves as the President of the council, while a faculty member is elected as secretary, providing a platform for faculty to engage in discussions and express opinions on institutional matters.

The college practices a decentralized and participatory governance model. Various stakeholders—including the President, executive members, the principal, department heads, faculty, alumni, parents, students, and representatives from education, research, and industry—are actively involved in shaping the academic and infrastructural growth of the institution. Committees such as the Executive Council, CDC, Internal Quality Assurance Cell (IQAC), College Construction Committee, HOD Council, College Staff Council, and Student Council all contribute to the shared decision-making process, ensuring that the administration is both decentralized and collaborative.

The executive committee of the parent institution, Shri Shivaji Education Society, Amravati, is a key governing body, with its members elected for five-year terms. This committee includes the President, three Vice Presidents, a Treasurer, executive council members, and co-opted members, all of whom oversee institutional policies and governance.

The CDC, established under the Maharashtra Public Universities Act of 2016, replaced the former Local Managing Committee. It is composed of representatives from education, research, industry, and both teaching and non-teaching staff, along with students. The CDC's responsibility is to draft comprehensive development plans for the college that cover academic, administrative, and infrastructural growth.

The Principal acts as the executive head of the college, responsible for decision-making in academic,

administrative, and financial matters, guided by the policies of the Executive Committee and CDC.

The IQAC, led by the Principal and a faculty-selected Coordinator, works to maintain quality standards across academic and administrative areas. Its members include management representatives, faculty, non-teaching staff, alumni, students, and social activists.

To guide its long-term development, the college has created a five-year Perspective Plan (2019-2024). This plan addresses the institution's future growth in areas such as infrastructure, new programs, skill-based courses, research, and the enhancement of ICT-enabled classrooms. It also includes provisions for staff training, student facilities, and the promotion of science education.

In summary, Shivaji Science College implements its vision through a structured and collaborative governance model, fostering academic excellence and societal development through broad stakeholder engagement.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1

The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc

Response:

Being an affiliated college of Rashtasant Tukadoji Maharaj Nagpur University, Nagpur our college adheres to the rules and regulations laid down by the UGC, Govt. of Maharashtra, and the affiliating parent university. At the level, the College Development Committee is the apex managing body which consists of the members of the parent management, representatives of teachers and non-teaching staff, nominated members, and the Principal as an ex-officio member. The Principal is the academic and administrative head of the college. The IQAC is the backbone of the college for quality education and it consists of the Principal and Chairman, teachers, non-teaching staff, nominated members of the Alumni Association, local bodies, members from the industry, and a student representative. The College Council consists of all the permanent teachers. The Students' Council is also formed as per the directives of the affiliated university. The office- staff includes a Superintendent, Head Clerks, Senior Clerks, Junior Clerks, a Stenographer, an Accountant, Store-Keepers, a Laboratory Assistant, Laboratory attendants, peons, sweepers, and watchmen who work under the supervision of the Principal.

The Senior faculty members have been given the responsibility of heading their respective departments. The principal nominates a senior faculty member as head of the faculty. The college authorities provide

freedom and opportunities to each of the faculty members to plan and implement the various academic, extracurricular, and extension activities through various committees, which helps enhance and maintain quality at all levels. Students' leadership is groomed through the Students' Council, which is formed every year as per the Maharashtra University Act, under the provision of section 40(2)b. The students' representatives are nominated on various academic and extracurricular committees related to students. In the design and implementation of quality policies and plans, a proper hierarchy is maintained. The Principal and the faculty members are committed and ever supportive through the CDC, the College Council, and the IQAC.

Service Rules: The College follows the rules and regulations about the service rules and conditions laid down by the affiliated university- Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, the UGC, and the Government of Maharashtra from time to time.

Procedure for Recruitment: The recruitment of all the college posts- the permanent posts (Grant-in-aid) and temporary posts (Non-Grant) are done by the parent management as per the norms and procedure laid down by the UGC, Government of Maharashtra, and affiliating University.

Procedure for Promotion: Promotion to the faculty is given according to the directions and the CAS rules of the parent University RTMNU, Nagpur, UGC, and the Government of Maharashtra.

Grievances Redressal Mechanism: The College has a Discipline Committee, and an Internal Complaint Committee (ICC). Anti-Ragging Committee, and Women Grievances Redressal Committee for the timely redressal of the grievances of the students and the faculty members, if any.

File Description	Document
Upload Additional information	View Document
Institutional perspective Plan and deployment documents on the website	View Document
Provide Link for Additional information	View Document

6.2.2

Institution implements e-governance in its operations

- 1. Administration**
- 2. Finance and Accounts**
- 3. Student Admission and Support**
- 4. Examination**

Response: A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	View Document
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	View Document
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.3 Faculty Empowerment Strategies

6.3.1

The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

- *The institution has a performance appraisal system:*

The Institute has a well-established, transparent, quantitative performance appraisal system. The performance is reviewed annually in the form of an Annual Performance Assessment Report (APAR) by the reviewing officer. Research activities are reviewed through the Institute Research Committee (RC) and Research Advisory Committee (RAC). Encouraging the teachers to participate in training programmes, seminars, conferences, sports, recreational activities, etc., takes care of their professional as well as welfare spheres. Additionally, the Faculty is involved in various committees of the Institute including, hostels and students' activities. In each division, there is a nominated Professor who is responsible for all the student-related issues in the division. Each Professor is assisted by members.

- *Effective welfare measures for teaching and non-teaching staff:*

The well-being of the staff is important for the effective functioning of the Institute. The institution has effective welfare measures for all the staff members. Following are the welfare Measures that exist for teaching and non-teaching staff.

- Shivaji Education Society's Employees Co-operative Credit Society, Ltd. Nagpur for Loan facility

- *Grain advance facility non-teaching staff*
- Employee's Provident Fund (EPF)
- GPF
- Group Scheme LIC of India
- Medical & Maternity Leave
- Concession in admission fees to the wards of staff (Teaching & non-teaching)

Shivaji Education Society's Employees Co-operative Credit Society, Ltd. Nagpur for Loan facility: The facility Housing loans, Vehicle loans, Emergency loans, and medical loans at the lowest interest rates are available for teaching and non-teaching staff, through Shivaji Education Society's Employees Co-operative Credit Society, LTD. Nagpur (Registration No. 120). For a valid reason, this Patsanstha provides short-term emergency loans and a long-term loan amount of up to 10 Lakhs.

Grain advance facility non-teaching staff: Every year advance money for purchasing grains is given by the college, to the non-teaching staff

Employee's Provident fund: The institution has the mandatory provision of EPF and contributes the eligible amount to the respective EPF account for ad-hoc staff

Accidental group insurance: Group accident insurance is offered to employees to protect them against the medical expenses incurred due to injury or death resulting from an accident at the workplace. All the eligible employees can avail of the Group Personal Accident Insurance Policy.

Medical & Maternity Leave: A woman employee of the institution, who has completed at least one year of continuous and satisfactory service, after the completion of the probation period, is eligible for Maternity Leave (ML) for a maximum of 90 days with half pay and allowances. The final sanction of the maternity leave is granted based on a medical certificate issued by the competent authority.

Concession in admission fees to the wards of staff (Teaching & non-teaching) : The college provides concession in admission fees to the wards of teaching and non-teaching staff.

- **Avenues for career development/progression:**

Time-bound promotions are ensured through two tracks viz., direct recruitment at every level of the career and Career Advancement Schemes (CAS) at the Departmental level for teaching and nonteaching staff of the college. Under the Career Advancement Scheme (CAS) 18 Associate Professors of the college are elevated to Professor positions during the assessment period.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.3.2

Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years**Response:** 18.16**6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
26	47	00	00	00

File Description	Document
Policy document on providing financial support to teachers	View Document
Institutional data in the prescribed format	View Document
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	View Document
Audited statement of account highlighting the financial support to teachers to attend conferences / workshops and towards membership fee for professional bodies	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.3.3***Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years*****Response:** 50.34**6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years**

2023-24	2022-23	2021-22	2020-21	2019-20
61	109	59	15	49

6.3.3.2 Number of non-teaching staff year wise during the last five years

2023-24	2022-23	2021-22	2020-21	2019-20
36	36	36	36	36

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	View Document
Institutional data in the prescribed format	View Document
Copy of the certificates of the program attended by teachers.	View Document
Annual reports highlighting the programmes undertaken by the teachers	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

6.4 Financial Management and Resource Mobilization**6.4.1**

Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:**Financial Management and Resource Mobilization**

Adequacy of financial resources is essential for the development of any institution. The financial management at SSES's Science College, Congress Nagar, Nagpur, involves the productive use of available resources and resource mobilization from various agencies to tide over the financial constraints.

Purpose

To enable effective and efficient utilization of college funds and the optimum utilization of resources thereby creating:

- A quality learning and working environment for students, faculty, and staff.
- Effective management of resources to meet the strategic vision and mission of the College

- Cost-effective and efficient resource utilization.

Optimal Utilization of Recourses

- The college uses its infrastructure for the conduction of various exams like UPSC, PET, SET, NEET, etc., and receives college rent per student from different agencies. This amount is shown as miscellaneous amount in the audit.
- Funds/Grants received by various government and non-government agencies like Career Katta (MITSC, MSHTEC), Minor research projects (R&D Cell), IARP BARC Workshop, Paramarsh Scheme (UGC)

Other income Funds are mobilized from the following resources

- Tuition fees, hostel fees
- Programme fee and add-on fee collection from students
- Fee collected for FDP, conferences, workshops, etc.
- Leasing and renting the institutional infrastructure facilities to various commercial utility facilities for students, faculty members, and other agencies such as bank (Central Bank of India)
- Mobilization of budget to various Departments given by the Institution through the HOD Council.

Ensuring Optimum Utilization of Funds

At the beginning of each financial year, the department heads would present their budget requests to the principal. The consolidated budget is prepared by the principal and submits it to management for approval. The funds are divided among many categories based on the needs, such as upgrading library resources, placement, computers, sports facilities, salary, publication incentives, extension activities, and skill development programs.

Adequate funds are allocated for effective teaching-learning practices that include induction and orientation Programs, workshops, inter-disciplinary activities, training programs, Refresher Courses, Faculty Development Programs, Conferences, and Industry-Academia interactions that ensure quality education.

Funds are also allocated for extension activities through the Center for Community Development, NSS, NCC, and other clubs and associations.

Internal Financial Audit

All the transactions of the college are audited by the internal committee (CDC) regularly. The team performs the task of internal audit to counter-check the utilization of external resources granted to the respective departments. A detailed financial audit is conducted in the office to check the act of commission and omission. It is a step to rectify the financial anomalies if any. A full-fledged transparency is maintained through the regular audit check.

External Financial Audit

An external financial audit is based on the structures of the government and is carried out annually by a Registered chartered accountant appointed by the Institution. He reviews all receipts and payments and provides the balance sheet at the end of the financial year. Based on the report, proper budgeting is planned for the next academic year and the funds are optimally utilized for quality enhancement.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5 Internal Quality Assurance System**6.5.1**

Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

The Internal Quality Assurance Cell (IQAC) of the College is committed to maintaining and improving the institution's academic standards through a consistent focus on delivering high-quality education and implementing an innovative and flexible education policy. Since its establishment on 1st July 2004, IQAC has played a vital role in overseeing the college's operations, ensuring that all activities contribute to institutional excellence.

One of IQAC's primary objectives is enhancing the quality of teaching. This is achieved by providing regular feedback to faculty members based on detailed student evaluations. By closely monitoring the teaching process, IQAC identifies areas for improvement and ensures a dynamic and effective learning environment. Another important focus is the promotion of research quality. IQAC motivates researchers by offering incentives and recognizing exceptional contributions. To support faculty development, IQAC collects Annual Self Appraisal Reports (ASAR) from every faculty member. These reports are carefully analyzed, and based on the evaluations, the college announces awards for the Best Researcher and Best Teacher.

IQAC also conducts academic audits across all departments. These audits are crucial for improving departmental performance. At the beginning of each academic session, the academic audit committee collects departmental plans covering extension activities, collaborations, innovative practices, student

competitions, seminars, and workshops. After review, the report is presented to the College Development Committee (CDC) for approval. This process has led to significant improvements in curricular, co-curricular, and extracurricular activities.

Additionally, IQAC prepares the academic calendar each year and conducts audits to ensure that the college's goals are being met. The data collected is aligned with the Self-Study Report (SSR) for the Annual Quality Assurance Report (AQAR), which is based on the seven criteria of the National Assessment and Accreditation Council (NAAC). After thorough analysis, the AQARs are submitted to ensure compliance with national standards.

In line with the college's commitment to environmental sustainability, the Green Club was established under IQAC's guidance. This initiative facilitated Green, Energy, and Environmental Audits, contributing to the development of a more eco-friendly campus. Under the Career Advancement Scheme (CAS), 18 Associate Professors were promoted to Professors, further enhancing faculty development.

The college has made great strides in e-governance, fully digitizing the student admission process. A mobile app was developed for students and faculty, streamlining communication and access to resources. A student feedback system was also introduced, and an Incubation Centre was established, leading to innovations like the Talking Tree App, which provides information about trees through QR codes.

The Career Katta initiative received the prestigious Center of Excellence Award, and a Legacy Calendar was created to commemorate the 125th birth anniversary of the college's Founder President, Dr. Panjabrao Deshmukh. The Department of Microbiology was awarded Best Microbiology Department in Maharashtra State, and the annual Bharti College Magazine was published, highlighting the college's activities. National and international conferences were organized, including a guest lecture on the National Education Policy (NEP) 2020.

During the pandemic, the college adopted the Big Blue Button Learning Management System (LMS) for online lectures, using platforms like Google Classroom, Zoom, YouTube, and WhatsApp to ensure uninterrupted learning.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5.2

Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
- 2.Academic and Administrative Audit (AAA) and follow-up action taken**
- 3.Collaborative quality initiatives with other institution(s)**
- 4.Participation in NIRF and other recognized rankings**

5. Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.

Response: A. Any 4 or more of the above

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	View Document
NIRF report, AAA report and details on follow up actions	View Document
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document
Link to Minute of IQAC meetings, hosted on HEI website	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.

Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

Measures initiated by the Institution for the promotion of gender equity

- **Promotion of Gender Equity:** Maintaining gender equality at every level is always taken as a priority by the college administration. It concentrates on the individual development of all students and employees. The college also provides different facilities and special attention to women employees and female students to minimize the gender gap. The formation of the Internal Complaint Committee (ICC), Women's grievance redressal cell (WGRC) is a step towards creating awareness about gender equality in the college. To foster the spirit of gender equity and gender sensitization, various programs were organized for staff and students.
- **Safety and Security:** The committee also works towards building a gender-sensitized environment for women and girls and also to ensure their safety and protection. There is CCTV coverage on the college campus which ensures constant surveillance. Fire Safety management are done on the college campus such as extinguishers, pipe line, safety alarm. First Aid boxes are kept at strategic place for students in case of any medical issues. In case of any emergency, services of Shrikrishna Hospitals and doctors panel numbers are displayed on the college campus. Wearing Identity cards for all staff and students is mandatory for security purpose.
- **Counselling:** College has various committees provide counselling sessions to help girls and female staff members by organizing various programs for their physical and mental wellbeing.
- **Common Rooms:** There is a girl Common room on the campus, equipped with seating arrangement, notice board and mirror for convenience of girls. Sanitary Napkin Dispenser is installed in Girl's common room.
- **Girls Hostel:** The College has well equipped and well managed Girls hostel with wall compound for safety purpose. It offers well furnished rooms, essential amenities like Wi-Fi, Water cooler, reading room, recreation room etc. Lady Guards are specifically allotted to Girl's Hostel 24/7.
- **Health and Hygiene:** College has a gym facility and Zumba classes purely for girl students and women employees to maintain health and fitness for a healthy life. Health check-up camps are organised regularly to create health awareness and to take preventive measures to maintain healthy lifestyle. Housekeeping services are outsourced to maintain sanitation and hygiene on the college campus.
- **Any other Information:** The college has a girls N.C.C unit. After admission process, Gender audit is carried out in every year. In the year 2023-24, out of 1713,1222 are the girls' students.

- Girl's students are also felicitated and appreciated for their achievements in sports, Academics and NCC etc. There are many girls' students who brought laurels to the college by securing merit position in RTM Nagpur University and National level sports o.
- Women faculty members are also felicitated for their achievements, in research publications, patent publications , copyrights and Best paper presentation etc.
- Women staff members' play important role in administrative committees. They also shoulder responsibilities in handling some important committees as convener, coordinator etc.
- College provides maternity leave to women staff.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.1.2

The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and nondegradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

Response: A. 4 or All of the above

File Description	Document
Policy document on the green campus/plastic free campus.	View Document
Geo-tagged photographs/videos of the facilities.	View Document
Circulars and report of activities for the implementation of the initiatives document	View Document
Bills for the purchase of equipment's for the facilities created under this metric	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities

Response: B. Any 3 of the above

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	View Document
Policy document on environment and energy usage Certificate from the auditing agency	View Document
Green audit/environmental audit report from recognized bodies	View Document
Certificates of the awards received from recognized agency (if any).	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

The college is committed to creating an inclusive environment through various initiatives aimed at promoting equality, peace, and harmony among students. Central to this mission is organizing socially beneficial activities like annual blood donation drives in partnership with government medical institutions. These efforts extend to supporting underserved communities, such as through donations to schools in tribal villages. The college's National Service Scheme (NSS) and National Cadet Corps (NCC) units actively contribute by organizing these blood donation camps each year. In response to public health concerns, the college has also held COVID-19 vaccination and RTPCR testing camps on campus. These initiatives not only provide valuable community support but also instill a sense of social responsibility and egalitarian values among students, reinforcing unity, cooperation, and harmony.

The college also places a strong emphasis on commemorating important national events to honor the sacrifices of national heroes and highlight democratic principles. Events like Kargil Vijay Diwas and Constitution Day serve as platforms to stress the importance of civic duties and responsibilities. During these observances, activities such as mass readings of the Constitution and flag hoisting ceremonies are held on Republic Day and Independence Day. These celebrations aim to deepen students' understanding

of democratic values, fostering national pride and encouraging active citizenship.

A key pillar of the college’s philosophy is the promotion of tolerance and appreciation for diversity. The college implements inclusive policies and organizes numerous cultural initiatives to celebrate the rich cultural, linguistic, and communal diversity within its community. Through cultural performances, discussions, and events, students are exposed to different perspectives, helping them develop empathy and a broader worldview. In honoring the legacy of its founder, the college continues to prioritize inclusivity, mutual respect, and cooperation, ensuring a campus environment that embodies the core values of equity and respect. These programs not only enhance students' educational experiences but also help create a sense of belonging, where every individual is valued and empowered to contribute meaningfully to the academic and social life of the college.

Cultural and Socioeconomic Initiatives

The college’s cultural and socioeconomic programs are vital in fostering inclusivity and understanding among students from diverse backgrounds. These initiatives encourage students to explore various cultures and engage in dialogues about race, gender, and class. Organized by the student council and other platforms, these events provide valuable opportunities for students to broaden their perspectives, developing the skills and awareness needed to contribute positively to a globalized world.

Professional Ethics

The college upholds ethical conduct through clear guidelines for all stakeholders, including teachers, students, staff, and parents. The Code of Conduct, published in the student prospectus and available on the college website, ensures that all community members adhere to ethical standards, promoting a respectful and well-functioning academic environment.

Celebrating Birth Anniversaries of National Leaders

In line with directives from the Government of Maharashtra, the college celebrates the birth anniversaries of eminent leaders and freedom fighters. These celebrations not only honor the contributions of these figures but also inspire students to uphold the values they represented in building a better society.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.2 Best Practices

7.2.1

Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Best Practices – 1

Title of the Practice: JAL (Joint Asian African Labs for Water Analysis) – A Collaborative Approach to Real-Time Water Quality Monitoring

Objectives of the Practice: The primary objective of JAL is to enhance water quality monitoring through a collaborative effort involving India, Sri Lanka, and various African countries. The initiative aims to provide real-time water analysis using an advanced testing kit and the "Five Elements" smartphone application, developed by Sarang S. Dhote. JAL seeks to bridge the gap between laboratory experiments and real-life applications, empowering students and stakeholders with accurate data to make informed decisions about water quality. Through the JAL project, students are gaining valuable opportunities to work with **international collaborators**, broadening their global exposure and understanding of cross-border challenges. They are also acquiring hands-on experience in **designing water testing kits** and developing apps like the Five Elements app, which enhances their technical skills. This project fosters **entrepreneurship**, equipping students with the knowledge and confidence to innovate and create solutions, not just within our college but in other institutions as well. As a result, many students are being groomed to become **job providers** rather than job seekers in the future, contributing to a thriving entrepreneurial ecosystem.

The Context: The need for efficient water quality monitoring arose due to the delays and potential inaccuracies in traditional methods, which required transporting water samples to laboratories. This process often resulted in degraded samples and delayed results, making timely decisions difficult. Furthermore, there was a demand for engaging students in practical applications of their laboratory knowledge, especially in regions where water quality is a pressing concern. To address these challenges, the JAL project was designed with international collaboration, involving stakeholders from India, Sri Lanka, and several African countries. This partnership not only expanded the project's scope but also fostered scientific exchange and innovation across borders.

The Practice: JAL stands out for its unique approach to water quality monitoring in Indian higher education. The advanced water testing kit, developed by Sarang S. Dhote and Dr. Y. K. Mesharm, can analyze 15 parameters within 20 minutes, directly on-site, eliminating the need to transport samples to a laboratory. Parameters tested include color, odor, temperature, pH, TDS, EC, total hardness, calcium hardness, magnesium hardness, chlorides, and five types of alkalinity. This immediate analysis ensures accurate results, facilitating quicker responses to water quality issues. A distinguishing feature of JAL is its integration with the "Five Elements" smartphone application, which provides real-time analysis and publishes the results on a publicly accessible map. This map is open to all stakeholders, including educational institutions and environmental organizations, allowing them to utilize the data for research and decision-making purposes.

Evidence of Success: Since its launch in 2022, JAL has analyzed over **150 water samples** from India, Sri Lanka, and African countries. The results, published on the real-time map, have significantly improved water quality monitoring. Feedback from educational institutions highlights enhanced student engagement and improved understanding of practical applications for laboratory experiments. The project's success is evidenced by its adoption in multiple institutions and recognition in the broader scientific community.

Problems Encountered and Resources Required: The main challenges encountered were the high initial costs of developing the kits, accurate calibration, and training. Logistical difficulties also arose when distributing the kits to international collaborators. Resources required included funding for the kits, training materials, and technological support for the smartphone application.

Resources required: Chemicals, Internet, Laptop, PC, & Apparatus

Best Practices – 2

Title of the Practice: Empowering Learning Through Student-Created Educational Games: A Multidisciplinary Approach

Objectives of the Practice: The primary goal of this initiative is to improve the learning experience by incorporating educational games into the academic curriculum of various disciplines like Botany, Zoology, Chemistry, Geology, Physics, Mathematics, Microbiology, and Biotechnology. These games, developed by students for their peers under the guidance of the Shivaji Science Innovation and Incubation Centre (SIIC), aim to promote interactive learning, enhance creativity, and provide a hands-on approach to education in science.

The Context: With students increasingly accustomed to technology, traditional teaching methods often lack engagement. To address this, College collaborated with SIIC in 2023 to introduce a student-centered, multidisciplinary educational gaming program. This approach integrates smartphone-based games into the academic curriculum, combining technology with traditional subjects to make learning more enjoyable and interactive for students.

The Practice: Launched in 2023, this initiative focuses on developing educational games across different subjects. To date, 24 games have been created by students under the guidance of the Innovation and Incubation Centre. Each year, departments conduct workshops for newly admitted first-year students, teaching them to both play and create educational games. Notably, these workshops also instruct students on how to play the games **offline**, promoting hands-on learning without the need for smartphones. Popular games include "Plant Play" for Botany, "Zoo Warrior" for Zoology, and "ChemGame" for Chemistry.

Evidence of Success: This educational gaming practice has engaged over 200 students to date. One significant achievement includes a student winning the **R.T.M. Nagpur University Level Avishkar 2023-24 competition**, further underscoring the program's success. The initiative has cultivated a collaborative environment where students, with faculty support, create effective educational tools. It has also enhanced learning outcomes and developed skills in game design, teamwork, and critical thinking.

Problems Encountered and Resources Required:

The initiative faced several challenges, notably the lack of universal access to smartphones and technological resources among students. Although offline gameplay was promoted, the digital divide was a considerable hurdle. Additionally, game development required technical skills, prompting the need for specialized training. Sustaining student interest in game development required ongoing mentorship, updated gaming content, and the availability of resources such as computers, software, and faculty guidance.

Contact Details:

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File Description	Document
Best practices as hosted on the Institutional website	View Document
Any other relevant information	View Document

7.3 Institutional Distinctiveness

7.3.1

Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

From Local Initiatives to Global Impact: SSES's Science College, Nagpur's Role in Aligning Education with Sustainable Development Goals

Introduction

SSES's Science College, Nagpur, Nagpur, an integral part of the SSES framework, stands out as a beacon of innovation in educational technology. This institution has not only made significant progress within India but has also extended its reach across several African nations, reinforcing its reputation as a leader in the development of innovative educational tools and applications. The college's initiatives align closely with the Sustainable Development Goals (SDGs) set by UNESCO, demonstrating a commitment to education, sustainability, and innovation.

Unique Institutional Features

1. Talking Tree Application: Engaging Stakeholders in Environmental Education

One of the college's hallmark innovations is the "Talking Tree" smartphone application, developed by Dr. Sarang S. Dhote. This app provides users with detailed information about trees through QR codes,

accessible in multiple languages via audio and text formats. The application has been successfully implemented in **23 institutions**, encompassing government organizations, non-governmental organizations, colleges, and private gardens, effectively engaging stakeholders in environmental education.

2. International Expansion and Training for Talking Tree

Dr. Dhote's efforts extend beyond local engagement, incorporating training for both SSES's Science College, Nagpur students and their international counterparts. His work led to eight students receiving Project Internship Certificates for the successful installation of the Talking Tree app at **Tooro Botanical Garden** in Uganda, marking the college's first international project. Following this achievement, the college began offering consultancy services for app development, led by trained students.

The Talking Tree app has now been introduced in institutions across Nigeria, Zimbabwe, Egypt, and Zambia. Key projects include:

- **NUST Zimbabwe:** Under Dr. Angie Chichinye's guidance (Head of Department, Forest Resource and Wildlife Management), seven students from NUST and 17 students from SSES's Science College, Nagpur participated in the project, all receiving Project Internship Certificates.
- **Lagos State University, Nigeria:** In collaboration with Dr. Ewekeye Tolulope Seun (Senior Faculty, Department of Botany), 15 students from Lagos State University and 15 from SSES's Science College, Nagpur are currently working together on this project.
- **Beni Suef University, Egypt:** Led by Dr. Sameh Abouzid (Dean), 10 students from Beni Suef University and 36 students from SSES's Science College, Nagpur are collaborating on this initiative.
- **Forestry College, Zambia:** Dr. Dhote continues to mentor students, fostering global collaboration and knowledge transfer.

3. Interactive Applications for Museums and Heritage Sites

Under Dr. Dhote's leadership, SSES's Science College, Nagpur has developed interactive applications for museums and heritage sites, offering visitors enhanced educational experiences. Notable projects include:

- **Central Museum, Nagpur, and Sinddhkhed Raja Heritage Site, India:** The first sites to have interactive applications installed, providing visitors with engaging content about their historical significance.
- **Kipsigis Museum, Kenya:** Installed with the guidance of Mr. Philip K. Cheruiyot (Curator, Kipsigis Museum) along with six students.
- **Kigulu Museum, Uganda:** Developed under the supervision of Mr. Kitaulwa Abraham (President, UCOMA, Uganda), involving nine students.
- **Kigulu Chiefdome Heritage Site, Uganda:** Also supervised by Mr. Abraham, with nine students participating. Each participant received a Project Internship Certificate.

These interactive applications not only expand educational resources but also provide practical training opportunities for students.

4. Internet Radio Station for Chemistry

SSES's Science College, Nagpur hosts an **Internet Radio Station** dedicated to chemistry topics. This unique platform broadcasts various educational episodes, making valuable resources freely accessible to

students. With over **404 listeners** engaged, the radio station enriches students' understanding of chemistry, fostering a learning community.

5. Low-Cost Innovation: Craft Box Colorimeter

The institute actively encourages students to develop low-cost scientific instruments, exemplified by the **Craft Box Colorimeter**. This innovative instrument, created from waste craft materials by undergraduate students in the Chemistry Department, demonstrates eco-friendly design. Students from other colleges are trained to create this low-cost colorimeter. The project won the **RTM Nagpur University Avishkar 2024** competition, reflecting the college's commitment to innovation and sustainability.

6. Intellectual Property Rights (IPR) Initiatives

SSESA's Science College, Nagpur has established a culture of protecting intellectual property rights. In **2023, 100 students** received copyright certificates from the Kenyan government, marking SSESA's Science College, Nagpur as the first institution with over **150 IPRs**, including patent publications and copyrights from both India and Kenya. The college's IPR cell provides support to students from other institutions in securing their IPRs at no cost, leading to **16 additional students** securing their IPRs in **2024**. This emphasis on intellectual property protection underscores the institution's dedication to fostering a culture of innovation.

Alignment with UNESCO Sustainable Development Goals

All of these initiatives at SSESA's Science College, Nagpur align closely with the **UNESCO Sustainable Development Goals (SDGs)**:

- **SDG 4: Quality Education:** The development of innovative apps, interactive installations, and the Internet Radio Station enhances educational opportunities and access to knowledge.
- **SDG 6: Clean Water and Sanitation:** Through environmental projects like the Talking Tree app, students engage in activities that promote ecological awareness and sustainability.
- **SDG 9: Industry, Innovation, and Infrastructure:** The center's initiatives in app development, low-cost instruments, and IPR protection highlight its role in fostering innovation and supporting industry.

These activities reflect SSESA's Science College, Nagpur's commitment to both local and global impact in education, innovation, and sustainability.

File Description	Document
Appropriate web in the Institutional website	View Document
Any other relevant information	View Document

5. CONCLUSION

Additional Information :

The institute has consistently worked towards its mission of providing quality education and creating opportunities for knowledge acquisition for all sections of society. It earned the prestigious Five Star accreditation from the National Assessment and Accreditation Council (NAAC) in 2002, followed by re-accreditation with a CGPA of 3.51 on a four-point scale at A+ grade in June 2017. The University Grants Commission (UGC) has also recognized the college as a "College with Potential for Excellence." Additionally, the college is an institutional member of the Asia Pacific Quality Network (APQN), holds ISO 21001:2018 certification, and serves as a Mentor Institution under the PARAMARSH scheme. It has also been identified as the Mentor Institute for Nagpur District under the "Paris-Sparsh" scheme.

Since its inception in 1967, the college, backed by its capable and dedicated faculty, has been providing exceptional service in the field of higher education. As a single-faculty institution, it offers a range of courses at both the 10+2 level and undergraduate degrees B.Sc. and BCA, as well as postgraduate programs such as MCA and M.Sc. in disciplines like Physics, Chemistry, Mathematics, Computer Science, Microbiology, Botany, and Zoology. The college is recognized as a center for Higher Learning and Research in fields including Computer Science, Chemistry, Physics, Mathematics, Botany, and Zoology. To honor the commitment of its staff and faculty, the college presents awards for the Best Teacher, Best Non-Teaching Staff, and Best Researcher annually.

Concluding Remarks :

SSESA's Science College, Congress Nagar, Nagpur, embodies the vision of Dr. Panjabrao Deshmukh, the Founder President of Shri Shivaji Education Society and the first Agriculture Minister of India, by delivering quality education to all, including the underprivileged and marginalized, with clarity and strong intent. Over the past seven decades, the college has achieved remarkable progress, distinguished by its significant accomplishments and undergoing the fourth cycle of NAAC assessment. The institution has successfully implemented the recommendations of the peer review team, resulting in the recruitment of its faculty. Additionally, the college has secured financial support from agencies such as UGC, and DST to enhance teaching, learning, research, Intellectual Property Rights (IPR) and entrepreneurship development.

The college has benefited greatly from its active collaborations and MoUs, providing students with numerous advantages. The integration of ICT in teaching, learning, and evaluation, as well as virtual classroom and laboratory facilities and Wi-Fi-enabled campus, has opened up new technological avenues. The innovative Learning Management Systems (LMS), MOOCs, NPTEL, and SWYAM with the new NEP-2020 have made the teaching-learning process more engaging and effective. The introduction of Master's degree programs in eight subjects, research centers in six subjects, and skill-based and add-on courses has expanded opportunities for students. In response to the previous peer team report, the college has introduced new job-oriented and skill-based subjects, made appointments against sanctioned posts, and strengthened its career counseling and guidance cell, research cell, and extension activities cell. Additionally, improvements in placements, consultancy services, and student laboratories, along with the establishment of central instrumentation facilities for teaching and research, have been made. The college has also leveraged the potential of its alumni association for overall development.

During COVID-19, SSESAs Science College, Congress Nagar, Nagpur stood as a beacon of sustainable and transformative education.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p>Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)</p> <p>Answer before DVV Verification :</p> <p>Answer After DVV Verification :107</p> <p>Remark : Repetition of value-added courses in every academic year during the assessment period will be considered as one.</p>																				
1.2.2	<p><i>Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</i></p> <p>1.2.2.1. Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2023-24</th> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> </tr> </thead> <tbody> <tr> <td>2464</td> <td>1665</td> <td>34</td> <td>01</td> <td>1424</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2023-24</th> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> </tr> </thead> <tbody> <tr> <td>2462</td> <td>1645</td> <td>34</td> <td>01</td> <td>1424</td> </tr> </tbody> </table> <p>Remark : Values updated as per the supporting document provided by the HEI.</p>	2023-24	2022-23	2021-22	2020-21	2019-20	2464	1665	34	01	1424	2023-24	2022-23	2021-22	2020-21	2019-20	2462	1645	34	01	1424
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2464	1665	34	01	1424																	
2023-24	2022-23	2021-22	2020-21	2019-20																	
2462	1645	34	01	1424																	
1.3.2	<p>Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)</p> <p>1.3.2.1. Number of students undertaking project work/field work / internships</p> <p>Answer before DVV Verification : 785</p> <p>Answer after DVV Verification: 781</p>																				
1.4.1	<p><i>Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website</i></p> <p>Answer before DVV Verification : A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website</p> <p>Answer After DVV Verification: C. Feedback collected and analysed</p> <p>Remark : Values have been updated as per the supporting document provided by the HEI.</p>																				

3.2.2	<p>Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years</p> <p>3.2.2.1. Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="304 427 1046 562"> <thead> <tr> <th>2023-24</th> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>25</td> <td>5</td> <td>6</td> <td>3</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="304 640 1046 775"> <thead> <tr> <th>2023-24</th> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> </tr> </thead> <tbody> <tr> <td>08</td> <td>20</td> <td>05</td> <td>03</td> <td>01</td> </tr> </tbody> </table> <p>Remark : Values have been updated as per the supporting document provided by the HEI.</p>	2023-24	2022-23	2021-22	2020-21	2019-20	11	25	5	6	3	2023-24	2022-23	2021-22	2020-21	2019-20	08	20	05	03	01
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2023-24	2022-23	2021-22	2020-21	2019-20																	
08	20	05	03	01																	
3.3.1	<p>Number of research papers published per teacher in the Journals notified on UGC care list during the last five years</p> <p>3.3.1.1. Number of research papers in the Journals notified on UGC CARE list year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="304 1133 1046 1267"> <thead> <tr> <th>2023-24</th> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> </tr> </thead> <tbody> <tr> <td>45</td> <td>75</td> <td>23</td> <td>40</td> <td>24</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="304 1346 1046 1480"> <thead> <tr> <th>2023-24</th> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> </tr> </thead> <tbody> <tr> <td>26</td> <td>48</td> <td>15</td> <td>22</td> <td>17</td> </tr> </tbody> </table>	2023-24	2022-23	2021-22	2020-21	2019-20	45	75	23	40	24	2023-24	2022-23	2021-22	2020-21	2019-20	26	48	15	22	17
2023-24	2022-23	2021-22	2020-21	2019-20																	
45	75	23	40	24																	
2023-24	2022-23	2021-22	2020-21	2019-20																	
26	48	15	22	17																	
3.3.2	<p>Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years</p> <p>3.3.2.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="304 1760 1046 1895"> <thead> <tr> <th>2023-24</th> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> </tr> </thead> <tbody> <tr> <td>39</td> <td>18</td> <td>13</td> <td>2</td> <td>7</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="304 1973 1046 2085"> <thead> <tr> <th>2023-24</th> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2023-24	2022-23	2021-22	2020-21	2019-20	39	18	13	2	7	2023-24	2022-23	2021-22	2020-21	2019-20					
2023-24	2022-23	2021-22	2020-21	2019-20																	
39	18	13	2	7																	
2023-24	2022-23	2021-22	2020-21	2019-20																	

27	06	02	2	01
----	----	----	---	----

3.4.3 **Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.**

3.4.3.1. Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20
29	27	18	12	9

Answer After DVV Verification :

2023-24	2022-23	2021-22	2020-21	2019-20
05	10	05	01	03

4.1.2 **Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years**

4.1.2.1. Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20
84.17295	420.670	31.024	21.987	107.2615 7

Answer After DVV Verification :

2023-24	2022-23	2021-22	2020-21	2019-20
75.92013	376.2693	29.30659	21.44846	97.04232

4.3.2 **Student – Computer ratio (Data for the latest completed academic year)**

4.3.2.1. Number of computers available for students usage during the latest completed academic year:

Answer before DVV Verification : 352

Answer after DVV Verification: 198

4.4.1 **Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)**

4.4.1.1. Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years

(INR in lakhs)

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20
152.193	107.490	97.017	91.742	150.537

Answer After DVV Verification :

2023-24	2022-23	2021-22	2020-21	2019-20
8.08711	11.5796	2.6995	2.34508	6.66354

5.1.1 ***Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years***

5.1.1.1. Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20
874	1090	1054	1037	931

Answer After DVV Verification :

2023-24	2022-23	2021-22	2020-21	2019-20
775	969	951	925	875

Remark : Values have been updated as per the supporting document provided by the HEI.

5.1.2 ***Following capacity development and skills enhancement activities are organised for improving students' capability***

1. *Soft skills*
2. *Language and communication skills*
3. *Life skills (Yoga, physical fitness, health and hygiene)*
4. *ICT/computing skills*

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

5.1.3 ***Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years***

5.1.3.1. Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20

2023-24	2022-23	2021-22	2020-21	2019-20
1698	1124	431	341	757

Answer After DVV Verification :

2023-24	2022-23	2021-22	2020-21	2019-20
1698	1124	431	341	757

5.1.4 ***The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases***

1. **Implementation of guidelines of statutory/regulatory bodies**
2. **Organisation wide awareness and undertakings on policies with zero tolerance**
3. **Mechanisms for submission of online/offline students' grievances**
4. **Timely redressal of the grievances through appropriate committees**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: C. 2 of the above

5.2.1 **Percentage of placement of outgoing students and students progressing to higher education during the last five years**

5.2.1.1. **Number of outgoing students placed and / or progressed to higher education year wise during the last five years**

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20
309	354	210	203	181

Answer After DVV Verification :

2023-24	2022-23	2021-22	2020-21	2019-20
308	353	209	203	180

5.2.1.2. **Number of outgoing students year wise during the last five years**

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20

5.2.2 ***Percentage of students qualifying in state/national/ international level examinations during the last five years***

5.2.2.1. **Number of students qualifying in state/ national/ international level examinations year wise during last five years (eg: IIT/JAM/NET/SLET/GATE/GMAT/GPAT/CLAT/CAT/ GRE/TOEFL/ IELTS/Civil Services/State government examinations etc.)**

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20

97	34	15	31	7
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Answer After DVV Verification :

2023-24	2022-23	2021-22	2020-21	2019-20
32	21	14	19	05

Remark : Value has been updated as per the given the template as the multiple exam cleared by a student will be consider as one.

5.3.1 Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

5.3.1.1. 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 wise during the last five years

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20
23	35	28	09	10

Answer After DVV Verification :

2023-24	2022-23	2021-22	2020-21	2019-20
03	04	05	0	0

Remark : Values have been updated as per the supporting document provided by the HEI.

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

5.3.2.1. Number of sports and cultural programs in which students of the Institution participated year wise during last five years

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20
41	60	30	07	42

Answer After DVV Verification :

2023-24	2022-23	2021-22	2020-21	2019-20
38	55	28	04	37

6.2.2 Institution implements e-governance in its operations

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

6.3.2 **Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years**

6.3.2.1. **Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20
30	47	06	00	29

Answer After DVV Verification :

2023-24	2022-23	2021-22	2020-21	2019-20
26	47	00	00	00

6.3.3 **Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years**

6.3.3.1. **Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years**

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20
61	109	59	18	49

Answer After DVV Verification :

2023-24	2022-23	2021-22	2020-21	2019-20
61	109	59	15	49

6.3.3.2. **Number of non-teaching staff year wise during the last five years**

Answer before DVV Verification:

2023-24	2022-23	2021-22	2020-21	2019-20

7.1.2 **The Institution has facilities and initiatives for**

1. Alternate sources of energy and energy conservation measures

	<p>2. Management of the various types of degradable and nondegradable waste 3. Water conservation 4. Green campus initiatives 5. Disabled-friendly, barrier free environment</p> <p>Answer before DVV Verification : A. 4 or All of the above Answer After DVV Verification: A. 4 or All of the above</p>
7.1.3	<p>Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following</p> <p>1. Green audit / Environment audit 2. Energy audit 3. Clean and green campus initiatives 4. Beyond the campus environmental promotion activities</p> <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: B. Any 3 of the above Remark : Input has been updated as per the supporting document provided by the HEI.</p>

2.Extended Profile Deviations

Extended Profile Deviations
No Deviations