PEER TEAM REPORT

Institutional Re-assessment(3rd Cycle) of

Shri Shivaji Education Society Amaravati's Science College

Congress Nagar, Nagpur, Maharashtra-440012.

(Visit Dates: 27-29thApril, 2017)



National Assessment & Accreditation Council

(An autonomous Institution of the University Grants Commission) P.O. Box 1075, Nagarbhavi, Bangalore-560 072

Profile of the Institution

Name of the Institution	Shri Shivaji Education Society Amravati's Science College, Nagpur Place: Nagpur 440012 State: Maharashtra			
Date of Visit	27-29 April 2017			
Affiliating University	Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur			
Status of the College	Affiliated: Constituent: Autonomou			
Financial Category	Grant-in-aid ✓	Government fur	nde S	Self-financi
Type of College	Men Won	nen Co-ed	lucation 🗸	
No. of Departments	Arts: Science: 11 Commerce:			Commerce:
140. of Departments	Any other: Langua	ge 01		
No. of Programmes	UG: 02 PG: 06 M.Phil:			M.Phil:
No. of Programmes				Technology Total: 16
Year of Establishment	1 st July 1967			
UGC recognition	Under 2 (f) and 12 B: Yes			
Location of the College	Urban ✓ S	emi-urba	Rur	Triba
Area of the campus in Acres	3 Acres	<u>-</u>		
No. of Teachers	Men	Wom	en	Total
Permanent:	25	13		38
Temporary:	12	69		81
Total no. of Teachers Ph.D.: Total no. of Teachers M.Phil	22	11		33
Total no. of Teachers P G:	03	01		01
No. of Non-teaching Staff:		01		04
Technical Staff:	Men	Wom	en	Total
Administrative Staff:	41	00		41
No. of Students :	11	-		11
UG:(B.Sc., BCA)	513	102	1	1534
PG: (M.Sc. MCA)	41	241		282
M.Phil.	*			
Ph.D.	38	19		57
Any Other: PG Diploma	01			01
And the Statement of th	Name	Sig	nature with	date
1 Chairperson:	Prof. M S M Rawat		Nh 29.4-17	
2 Member-Coordinator:	Prof. K A Raveesha		1 auch	-28 lu
3 Member:	Prof. R L Mathur		Jann	12 gain12

Date: 29 April 2017

Signature of the Principal and Seal S. S. E. S. Amravati's Science College, Nagpur.

Shri Shivaji Education Socie	utional Re-assessment (Third Cycle) of ety Amravati's SCIENCE COLLEGE – 440012,Maharashtra.
1.1 Name & Address of the Institution:	Shri Shivaji Education Society Amravati's science college – Nagpur-440012, Maharashtra.
Section I: General Information	3 3
1.2 Year of Establishment:	1967
1.3 Current Academic Activities at the Institution (Numbers):	
Faculties/ Schools:	01: Science
Departments/ Centres:	UG: 11 PG: 01
Programmes/ Courses offered:	UG:02 PG:02
Permanent Faculty Members:	Total : 38
Permanent Support Staff:	Total: 52
• Students:	UG – 1534 :PG – 282, PG Dip:01: Ph.D-57, Total : 1874
1.4 Three major features in the institutional Context (As perceived by the Peer Team):	 50 year old College, with "College with Potential for Excellence" status Grant in aid college offering UG, PG & Ph.D progammes in Science catering to local needs Co-educated with more than 70% girls Located in an Urban area with good academic ambiance and Infrastructure
1.5 Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	27 th – 29 th April, 2017
1.6 Composition of the Peer Team which undertook the on- site visit:	
Chairperson	Prof. M.S.M.Rawat Former VC HNB Garhwal University Garhwal-246174,Uttarkhand
Member Co-ordinator	Prof. K.A. Raveesha Coordinator, Centre for Innovative Studies in Herbal Drug Technology, Department of Studies in Botany, University of Mysore, Manasagangotri Mysuru – 570006, Karnataka
Member	Prof.R.L.Mathur Former Principal, Lachoo Memorial College of Science and Technology Jodhpur-342003,Rajasthan
NAAC Officer:	Dr. Ganesh Hegde, Deputy Advisor

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Section II: CRITERION WISE ANALYSIS	Observations
2.1 Curricular Aspects:	
2.1.1 Curricular Planning & Implementation:	 Adopts curricula designed and developed by the affiliating University. Some senior faculties are members of BOS of affiliating university. Syllabus for UGC Career Oriented Programs developed by the college Value and skilled-oriented as well as vocational certificate programme introduced
2.1.2 Academic Flexibility:	 College offers three UGC sponsored Add-on (COC) and six self-financed skill oriented courses. College offers 12 subjects combination in B.Sc., 05 subjects M.Sc, MCA, BCA and Ph.D. as per university norms Choice based credit system (CBCS) for 05 PG programmes
2.1.3 Curriculum Enrichment:	 Curriculum update at regular intervals by University Invited lectures, Field visits, Industrial visits and panel discussions adopted to supplement university curricula. Value addition through different Add-on programmes
2.1.4 Feedback System:	 Systematic collection and scientific analysis of feedback needed. Feedback from all stake holders needed
2.2 Teaching-Learning & Evaluation:	reduced from all stake holders needed
2.2.1 Student Enrolment and Profile:	 Open and transparent Online-admission process as per govt norms. Admission notices are publicized in print media, notice board and website. Adopts inclusive admission policy catering to diverse student groups College has mentoring system
2.2.2 Catering to Student Diversity:	 Counseling and Skill development provided Limited facility for differently-abled students. Remedial Classes and Bridge programmes practiced
2.2.3 Teaching-Learning Process:	 Lecture method widely followed Field visit, Study Tour, Industrial Visits, Seminar and Projects in practice ICT enabled class rooms, use of E- Learning sources

College has good language lab Teaching Plan prepared and adopted. Recruitment of faculty is as per University and state govt. regulations. Out of 119 teachers, 01 with D.Sc, 33 are with PhD and 02 are with M.Phil. College supports faculty development programmes. Out of 119 teachers 38 are regular teachers and remaining are on Adhoc/CHB/Contract basis Revaluation mechanism in place Reforms and procedures of affiliating university adopted. Unit tests and IA Test conducted Credit weight age given to students participating in extra curricular activities Good Pass percentage in all the courses Many students of the college have earned placed in the university merit list College has mechanism to analyze short fall in learning outcomes and suggest improvement measures 2.3 Research, Consultancy & Extension: Research Committee is in place. 30 faculties recognized as Research Guides 07 subjects recognized as Research centers Organized 04 International, 15 National Conferences/Seminars/workshops Seed money provided Last four years 07 faculty awarded Ph.D Incentive provided for better research publications by faculty Of Sudjor Research projects under DST Women Scientist Programme completed 05 Major Research projects under DST Women Scientist Programme completed 05 Major Research project sunder DST Women Scientist Programme completed 01 BRNS major research project is ongoing in Microbiology department College has received the travel grants by UGC/DST Basic research facility developed from CPE & Other Grants. Access to E-resources provided through INFLIBNET, N-LIST and Wi-fi facility		
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INFLIBNET, N-LIST and Wi-fi facility	2.3.3 Passarah Engilities	
· ·	2.3.3 Research Facilities:	
• Inadequate Research journals and		Inadequate Research journals and
modern Sophisticated equipments.		

*	Central Instrumentation Facility needed
2.3.4 Research Publications and Awards:	 h-index is 18, citations is 1434 and I₁₀ index is 43 Microbiology, Nanotechnology and Physics departments have good publications More Teachers need to be motivated for research culture and publications in standard journals. 419 publications in journals, 284 conference presentations and 38 books by faculty. College publishes a biannual Research Journal
2.3.5 Consultancy:	 Some consultancy services provided through Geology Department Good scope for improvement of consultancy
2.3.6 Extension Activities and Institutional Social Responsibility:	 Extension activities mainly through NSS, NCC Sensitizes students for ISR Programmes on social/Environmental issues organized.
2.3.7 Collaborations	 Some International, National, State level Informal linkages exists. Formal MOU'S with industries and Institutes needed for faculty development, research & placement
2.4 Infrastructure and Learning Resources:	=
2.4.1 Physical Facilities:	 Campus area 29,89,13.40 square meter with built up area of 6714.816 square meters Adequate number of class rooms(27), student labs with ICT facility and 03 museums Girls hostel with 100 capacity Outdoor and indoor Sports facilities available supported by Gymnasium, auditorium, Canteen, Conference hall 02 Silent generators and 27 KVA solar plant
2.4.2 Library as a Learning Resource:	 Library housed in 552.027 Sq.Mts with a seating capacity for 150. 36656 books on rack, and 25 journals Automation of library with OPAC N-List and INFLIBNET facility 32 Computers with Internet and LAN Reprographic facilities.
2.4.3 IT Infrastructure	 341 computers, 10 Laptops and 17 LCD Wi-Fi and Internet facility in campus

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	 ICT facility maintenance satisfactory.
2.4.4 Maintenance of Campus	Green and Clean campus
	Campus satisfactorily maintained
Facilities:	AMC adopted for maintenance of
250/ 1 /0 / 10	equipments
2.5 Student Support and Progression:	
2.5.1 Student Mentoring and Support:	 Prospectus and hand book containing all information provided SC, ST, OBC and other Govt. scholarship available for students. Institutional Scholarships provided Student mentoring system is in practice Registered Alumni association supports college College has placement cell, Grievance Redress Cell, Women Development Cell and Anti-ragging committee. College has competitive examination coaching centre for UPSC/MPSC, UGC NET/SET/CSIR run by Alumni
2.5.2 Student Progression:	 Some students are placed in industries. Student progression from UG to PG is satisfactory Drop out rate for UG is 14% and PG is 8%
2.5.3 Student Participation and Activities:	 One student participated in International level competition (2016) in China with partial finance from college Good participation in sports at the inter university and state levels Students participate in cultural and literary competitions Satisfactory participation of students in NSS and NCC activities.
2.6 Governance, Leadership and Manage	ment:
2.6.1 Institutional Vision and Leadership:	 College has a defined vision and mission to empower students. Harmonious relationship among management, staff and stakeholders. Teachers participate in decision making process
2.6.2 Strategy Development and Deployment	 Structured organizational structure. LMC constituted as per rules Decision through various committees. Perspective plan need to be developed with well defined action plan.
2.6.3 Faculty Empowerment Strategies:	College encouraged participation of faculty in conferences, seminars and workshops.

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	Performance appraisal system practiced.Faculty development programmes
	encouraged
2.6.4 Financial Management and Resource Mobilization:	 Government grants and student fees are the main sources. Accounts are audited regularly by internal and external audit Grants for infrastructure development and research need to be mobilized from different funding agencies/Alumni/State Government
2.6.5 Internal Quality Assurance System:	 Active and participatory IQAC Routine quality assurance activities done Academic and examination audits exist but need improvement College is member of Asia Pacific Quality Network (APQN) so college is connected with International Quality Network (IQN)
2.7 Innovations and Best Practices:	
2.7.1 Environment Consciousness:	 Clean and Eco-friendly campus Roof-top Rainwater Harvesting, Hazardous waste management renewable energy source (Solar Plant) E-waste management and Vermicomposting unit exist. Incinerator in Girls Common Room and Girls Hostel
2.7.2 Innovations:	 Soil-less roof top organic gardening Scientific temperament propagation in society through outreach.
2.7.3 Best Practices:	 Awareness about atrocities in work place Good extension activity through adoption of village

Section III: OVERALL ANALYSIS	
	Observations
3.1 Institutional Strengths:	Good academic ambience and Infrastructure
	 Serving the cause of higher education and functioning in the heart of Nagpur City.
	 Supporting management and sound financial position
	 Good organizational structure
3.2 Institutional weaknesses:	 Large number of contributory/Ad- hoc/Contract teacher

	 Institution-industry interaction is inadequate PG departments under self financing scheme Shortage of land for future development Vacant regular teaching posts since many years
3.3 Institutional Opportunities:	 Promoting new startup, finishing schools and entrepreneurship Tapping the enlightened and experienced Alumni for student placement and higher studies. Encouragement of collaborative and interdisciplinary activities for local area development Revenue generation through consultancy and research grants from funding agencies Obtaining autonomous status for the college
3.4 Institutional Challenges:	 New sources for funding besides student fees to be explored Improvement of campus placement Establishment of central instrumentation facility for research and teaching Appointment of qualified teaching staff on regular basis

Section IV: Recommendations for Quality Enhancement of the Institution

- Introduction of new job oriented and skill based subjects to attract students.
- Regular appointment against sanctioned teaching and non-teaching posts.
- Appointment of temporary teachers as per UGC qualification
- Strengthen career, counseling and guidance cell, research cell and extension activities cell
- Improvement on campus placement through placement cell
- Teachers need o avail more minor and major research projects from funding agencies
- Utilize the potential of alumni association for overall development of the college
- Institute industry interface to be strengthened with internship programmes and

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projects work

- Strengthen consultancy services
- Efforts be made for autonomous status
- Strengthen the students labs and add relevant new titles and journals in the library
- Establish a central instrumentation facilities for teaching and research

I agree with the observation of the Peer Team as mentioned in this report.



Seal of the Institution

Signature of the Head of the Institution
Science College, Nagpur.

Signatures of the Peer Team Members:

Name and Designation		Signature with date
Prof. M. S. M Rawat Former VC HNB Garhwal University, Garhwal-246174	Chairperson	Many 29,4.17
Prof. K.A. Raveesha Coordinator, Centre for Innovative Studies in Herbal Drug Technology, Department of Studies in Botany, University of Mysore, Manasagangotri, Mysuru – 570006, Karnataka	Member Co-ordinator	a and zerells
Prof.R.L.Mathur Former Principal,Lachoo Memorial College of Science and Technology, Jodhpur-342003	Member	2014112
Dr. Ganesh Hegde, Deputy Advisor.	NAAC Officer	

Place: Nagpur, Maharashtra

Date: 29th April, 2017