

**C) NAAC Peer Team Report**

SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S  
SCIENCE COLLEGE,  
CONGRESS NAGAR, NAGPUR - 440 012 MAHARASHTRA

Date of Visits  
21<sup>st</sup>, 22<sup>nd</sup>, & 23<sup>rd</sup> January 2010

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL  
Jnana Bharathi Road, P.B. No. 1075, Nagarbhavi, BANGALORE - 560 071  
INDIA

NAAC for Quality and Excellence in Higher Education PEER TEAM REPORT ON Institutional Assessment and Re-Accreditation of SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S SCIENCE COLLEGE CONGRESS NAGAR, NAGPUR-440 012, MAHARASHTRA	
Section I: GENERAL	INFORMATION
1.1 Name & Address of the institution	SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR-440 012, MAHARASHTRA
1.2 Year of Establishment	01-07-1967
1.3 Current Academic Activities at the Institution (Numbers):	
• Faculties/ Schools	Science-01
• Departments/Centres	14
• Programmes/Courses offered	UG:13 PG:04, M.Phil:02, Certificate Courses:07, Add on Courses (COP): 03, Post PG Diploma : 01
• Permanent Faculty Members	Sanctioned:48 Filled: 39
• Permanent Support Staff	Sanctioned:72 Filled: 63
• Students	UG: 946 PG: 236 Post PG Diploma : 09 Total: 1191
1.4 Three major features in the institutional Context (As perceived by the Peer Team)	<ul style="list-style-type: none"> <li>• Urban Co-educational Science College affiliated to Rashtrasant Tukadoji Maharaj (RTM) Nagpur University</li> <li>• Committed management with sincere dedicated efforts</li> <li>• College with Potential for Excellence - 2004</li> </ul>
1.5 Dates of visit of the Peer Team (A detailed visit schedule may be included as annexure)	January 21 <sup>st</sup> - 23 <sup>rd</sup> , 2010. Detailed visit schedule attached
1.6 Composition of the Peer Team which undertook the on-site visit:	
Chairperson and Coordinator	Prof. M. Abdul Rahiman Former Vice Chancellor, Kannur and Calicut Universities, 'Halcyon' Kaprigudda New Road Mangalore, Karnataka-575 001
Member	Prof. C. Muthamizhchelvan Associate Director Faculty of Engineering & Technology SRM University SRM Nagar, Kattankulathur-603 203- T.N.
Member	Prof. Amrit Gogoi Principal Duliajan College Dibrugarh-786 602, Assam
NAAC Officer	Dr.Sujata P. Shanbhag, Assistant Advisor, NAAC,Banagalore-560 072

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## SECTION II : CRITERION- WISE ANALYSIS

<b>2.1 Curricular Aspects:</b>	
2.1.1 Curricular Design & Development:	<ul style="list-style-type: none"> <li>• Being an affiliated college, it follows the curriculum of the RTM Nagpur University, Nagpur.</li> <li>• Seven faculty members are in the BOS of different subjects and they contribute in the framing of syllabus.</li> <li>• One faculty is the Dean of Science faculty and Management Council Member of RTM Nagpur University</li> <li>• Participation of Faculty in the workshops related to curricular design.</li> <li>• The College offers three Ad-on courses in Hydrology, Web-Technology and Landscaping - Floriculture</li> </ul>
2.1.2 Academic Flexibility:	<ul style="list-style-type: none"> <li>• 13 UG Programmes, 04 PG Programmes, 2 M.Phil Programmes, 01 Post PG Diploma Course 7 Certificate courses and 3 Add-on COP courses on are offered.</li> <li>• Annual System is followed in all courses except MCA.</li> <li>• Limited Academic Flexibility.</li> </ul>
2.1.3 Feedback on Curriculum	<ul style="list-style-type: none"> <li>• Feedback from students is analyzed &amp; processed</li> <li>• Suggestions from all stakeholders are taken and furnished to the faculty for their perusal.</li> </ul>
2.1.4 Curriculum Update	<ul style="list-style-type: none"> <li>• Syllabi are revised once in five years as per university rules.</li> <li>• Some minor modifications in practical courses are done.</li> <li>• Little opportunity for inter disciplinary training.</li> </ul>
2.1.5 Best Practices in Curricular Aspects (If any):	<ul style="list-style-type: none"> <li>• Introduction of three Add-on courses which are Vocational in nature</li> <li>• Seven job oriented certificate courses</li> <li>• Post PG Diploma in Nanotechnology</li> <li>• ICT included in the curriculum</li> </ul>
<b>2.2 Teaching Learning &amp; Evaluation:</b>	
2.2.1 Admission Process and Student Profile	<ul style="list-style-type: none"> <li>• Admission is based on the rules and regulations of Government of Maharashtra and RTM Nagpur University.</li> <li>• Transparent and Fair Admission Process for all courses.</li> <li>• About 50% of students are from middle/lower socio-economic background.</li> </ul>
2.2.2 Catering to the Diverse Needs:	<ul style="list-style-type: none"> <li>• The faculty helps and takes interest to meet the needs of the students.</li> </ul>

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	<ul style="list-style-type: none"> <li>Remedial classes for weaker sections of students funded by UGC.</li> <li>College has mentoring system.</li> </ul>
2.2.3 Teaching – Learning Process:	<ul style="list-style-type: none"> <li>Academic calendar of faculty, optional subjects and examination schedules is available.</li> <li>ICT integration in teaching is done in all subjects.</li> <li>Project –based learning for Science Students.</li> <li>01 International &amp; 04 National Conferences, 11 Workshops and 06 seminars conducted.</li> </ul>
2.2.4 Teacher Quality:	<ul style="list-style-type: none"> <li>81 % of faculty positions are filled. 01 teacher possess D.Sc, 23 teachers possess Ph.D and 06 M.Phil degree.</li> <li>Adhoc/Contributory qualified teachers to meet the work load of vacant positions.</li> <li>Faculty members are attending seminars/workshops and conferences.</li> <li>Incentives given for publishing papers in refereed journal</li> </ul>
2.2.5 Evaluation Process and Reforms:	<ul style="list-style-type: none"> <li>Exam committee mentors all the procedure of evaluation of students.</li> <li>Internal Assessment is done as per the University rules.</li> <li>Question Bank is maintained by all departments and teachers.</li> </ul>
2.2.6 Best Practices in Teaching- Learning and Evaluation(If any):	<ul style="list-style-type: none"> <li>English language laboratory helps the student to improve their communication skill.</li> <li>ICT is one of the teaching tools having LCD, Laptops and Internet facility in all departments.</li> <li>Computer training to non-computer students, teaching and non-teaching staff.</li> </ul>
<b>2.3 RESEARCH, CONSULTANCY &amp; EXTENSION:</b>	
2.3.1 Promotion of Research:	<ul style="list-style-type: none"> <li>Few teachers are actively involved in research work.</li> <li>At present one teacher is on FIP of UGC.</li> <li>One lakh seed money is kept for research by the Management.</li> <li>26 Research scholars have registered for Ph.D</li> </ul>
2.3.2 Research and Publication Output:	<ul style="list-style-type: none"> <li>24 teachers are recognized research guides by RTM Nagpur and SGB Amravati Universities.</li> <li>09 students awarded Ph.D. Degree under the guidance of college faculty.</li> </ul>

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M. Ashwini Raut 28/01/15



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	<ul style="list-style-type: none"> <li>• 11 Minor Research Projects completed and 08 ongoing minor research projects of U.G.C.</li> <li>• 06 ongoing Major Research Projects of DST and UGC.</li> <li>• 01 Innovative programme with UGC grant of 50 lakhs.</li> <li>• 20 International &amp; 105 National Publications.</li> <li>• 27 books have been authored by the staff.</li> </ul>
3.3 Consultancy:	<ul style="list-style-type: none"> <li>• Free consultancy provided to the farmers for groundwater analysis, Mushroom cultivation, low cost chemical products.</li> <li>• Consultancy service publishes through brochures.</li> </ul>
3.4 Extension Activities:	<ul style="list-style-type: none"> <li>• Senior Division unit NCC cadets and NSS volunteers are involved in different outreach programmes.</li> <li>• NCC cadets selected for Scuba Diving 2006 held in Mumbai.</li> <li>• 07 NCC Cadets have attended Republic Day Parade in New Delhi since 2003.</li> </ul>
3.5 Collaborations:	<ul style="list-style-type: none"> <li>• Collaborations with Industries and Research institutions like NEERI, Lambent Technologies, IBM, Zensoft Pune, e-Trix Data Solutions, Nagpur etc.</li> <li>• Collaboration with farmers regarding groundwater survey, Mushroom cultivation etc.</li> </ul>
3.6 Best Practices in Research, Consultancy & Extension:	<ul style="list-style-type: none"> <li>• Collaboration with local farmers.</li> <li>• Students and faculties visits to different institutions</li> <li>• MOU with Vidarbha Academy of Science, Lambent Technologies, Material Science Academy</li> </ul>
<b>4 INFRASTRUCTURE AND LEARNING RESOURCES:</b>	
4.1 Physical Facilities for Learning:	<ul style="list-style-type: none"> <li>• College has adequate numbers of class rooms of various sizes, well equipped laboratories, Library, seminar halls, Mini Auditorium, Audio Visual room, Botanical garden with medicinal plants.</li> <li>• Adequate Sports and Games facilities</li> <li>• Administrative block, Principal chamber, Staff rooms, Girls common room, etc are available.</li> <li>• Central facilities like multi gym, auditorium of capacity 1200, Guest house, Playground exists</li> <li>• Two generators of 35 KVA each in place for power back-up</li> </ul>

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2.4.2 Maintenance of Infrastructure:	<ul style="list-style-type: none"> <li>The maintenance of infrastructure and cleanliness are good.</li> <li>Annual Maintenance Contract for computers and other instruments.</li> <li>Overall campus maintenance is good.</li> </ul>
2.4.3 Library as a Learning Resources:	<ul style="list-style-type: none"> <li>Partial automation of Central Library with CCTV camera.</li> <li>Follows open access system and have support facilities like 7 Personal Computers with Broadband Internet connections and Reprographic machine.</li> <li>28333 Volumes, 06 International &amp; 15 National Journals and 15 dailies and free access to e-journals subscribes.</li> </ul>
2.4.4 ICT as Learning Resource.	<ul style="list-style-type: none"> <li>Library and all departments have Internet connections.</li> <li>Website i.e. <a href="http://www.shivajisciencecollegenagpur.in">www.shivajisciencecollegenagpur.in</a></li> <li>Advanced Computing Centre and two computer laboratories.</li> <li>255 personal computers are available and connected through LAN</li> <li>Audio Visual facilities in the seminar hall.</li> <li>LCD projectors and Laptops in all departments.</li> </ul>
2.4.5 Other Facilities:	<ul style="list-style-type: none"> <li>Facilities like Water purifiers, Canteen, Girls common room, Guest house, parking space, Health care centre are available.</li> <li>Ramp and wheelchair available for physically challenged students.</li> <li>Girls hostel under construction – One Crore grant by UGC and 50 Lakhs by the Management.</li> </ul>
2.4.6 Best Practices in infrastructure and Learning Resources(if any)	<ul style="list-style-type: none"> <li>Maintenance of infrastructure – gives good academic ambience in the campus.</li> <li>Students faculty exchange programme with few institutions located in Amritsar, Guntur etc.,</li> <li>Optimum utilization of available space.</li> <li>Girls participation in sports is encouraged and they have participated in national levels.</li> </ul>
<b>2.5 STUDENT SUPPORT AND PROGRESSION:</b>	
2.5.1 Student Progression:	<ul style="list-style-type: none"> <li>Dropout rate is around 28 % in UG courses and 3% in PG.</li> <li>One student of B.Sc. (PCSM) secured 11 Gold Medals of Nagpur University in 2008.</li> <li>19 students have secured First merit positions in B.Sc. final examination and few also secured merit positions in PG exam.</li> </ul>

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	<ul style="list-style-type: none"> <li>Percentage of passing in UG &amp; PG programmes is above 80%.</li> </ul>
2.5.2 Student Support	<ul style="list-style-type: none"> <li>Management gives Scholarships for deserving meritorious students / Government Scholarships are available to SC, ST, BC and OBC students.</li> <li>Campus selection is done by many companies like Asian Paints, Wipro, e-caliber etc.,</li> <li>Career Guidance and Counseling is done.</li> <li>Coaching and Guidance for the competitive exams is done by providing library and ICT facility.</li> </ul>
2.5.3 Student Activities	<ul style="list-style-type: none"> <li>Few students own Medals at University, State and National levels in different sports activities like swimming, Roller skating etc.</li> <li>One student took part in XXIV UNIVERSIADE Swimming competition, 2007 at Bangkok</li> <li>One student is the National Champion in Atya-Patya game continuously for a period of five years 2004-09.</li> <li>One student participated in the First Youth National Super Seven Cricket Championship held at Chandrapur Maharashtra, 2003 and he was selected for the Ranji Trophy tournament of Vidarbha, 2005</li> </ul>
2.5.4 Best Practices in Student Support and Progression (If any):	<ul style="list-style-type: none"> <li>"Bharti " Annual College Magazine</li> <li>English Language Laboratory helped improve communication skills</li> <li>Alumni render financial support for the improvement of infrastructure.</li> </ul>
<b>2.6 GOVERNANCE AND LEADERSHIP:</b>	
2.6.1 Institutional Vision and Leadership:	<ul style="list-style-type: none"> <li>Vision and Mission is clear to give and achieve quality and excellence through value based education.</li> <li>Principal and Management gives a good leadership for the overall development.</li> </ul>
2.6.2 Organizational Arrangements:	<ul style="list-style-type: none"> <li>The college is functioning under Shri Shivaji Education Society, Amravati and under which there are 269 educational institutions.</li> <li>Shri Shivaji Education Society is the recipient of three awards of the State Government for its remarkable contribution in education and Social activities.</li> <li>College has internal co-ordination and monitoring mechanism.</li> </ul>

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2.6.3 Strategy Development and Deployment:	<ul style="list-style-type: none"> <li>• College office has adequate staff and space</li> <li>• Administration is decentralized with 04 committees and 45 subcommittees.</li> <li>• Feedback is obtained from students, faculty, alumni and other stakeholders.</li> <li>• Self appraisal by teaching staff.</li> </ul>
2.6.4 Human Resource Management:	<ul style="list-style-type: none"> <li>• Self appraisal by the teachers and their evaluation of performance by the management.</li> <li>• Annual Teacher's evaluation by students.</li> <li>• Management contribution as per requirements</li> <li>• Loan Facilities are available under co-operative credit society.</li> <li>• Appointments are made as per rules of university and Government.</li> </ul>
2.6.5 Financial Management and Resource Mobilization:	<ul style="list-style-type: none"> <li>• Account section of college office is computerized.</li> <li>• Optimum utilization of available finances.</li> <li>• Good Finance Management.</li> <li>• Audit mechanism exists.</li> </ul>
2.6.6 Best Practices in Governance and Leadership(if any):	<ul style="list-style-type: none"> <li>• Management provides financial support for the overall development of campus.</li> <li>• Best Teacher and Best Service award by the Management.</li> <li>• Teachers are benefited by the "Co-operative credit society."</li> </ul>
<b>2.7 INNOVATIVE PRACTICES:</b>	
2.7.1 Internal Quality Assurance System: (IQAS)	<ul style="list-style-type: none"> <li>• IQAC is established and functional.</li> <li>• Annual quality assurance report is prepared and necessary action is taken on the proposals made and it has become part of the evaluation system.</li> </ul>
2.7.2 Inclusive Practices:	<ul style="list-style-type: none"> <li>• College Research Cell monitors the research activities.</li> <li>• SWOT analysis is regularly made having students centered programmes.</li> <li>• Yuva Mahostav is held every year in the month of December and various academic/cultural social activities done.</li> <li>• Talent competitions are held and Winners are deputed to take part in the University.</li> </ul>
2.7.3 Stakeholder Relationships:	<ul style="list-style-type: none"> <li>• All stakeholders meet frequently through formal and informal meetings.</li> <li>• Stakeholders create the healthy academic atmosphere for effective academic progress.</li> </ul>

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	<ul style="list-style-type: none"> <li>Many alumni occupy prominent positions like the Post of Vice-Chancellor, MLA, State services etc.</li> </ul>
SECTION III: OVERALL ANALYSIS	Observations
3.1 Institutional strength	<ul style="list-style-type: none"> <li>College with Potential for Excellence by UGC during 2004 and received a grant of Rs. 1.70 Crores.</li> <li>13 Science subjects with well equipped laboratories.</li> <li>Alumni and parents are supportive.</li> <li>Adequate infrastructure facilities.</li> <li>ICT adds for the academic strength of the college.</li> <li>UGC sanctioned Rs.4.16 Crores in all during the during Post Accreditation period.</li> <li>A corpus fund of 3 crores is available with the Society</li> </ul>
3.2 Institutional weaknesses	<ul style="list-style-type: none"> <li>Management fund for research is not adequate.</li> <li>More locally relevant and applied subjects to be introduced.</li> <li>Research activities by senior faculty is low.</li> <li>Vacant teaching positions to be filled.</li> <li>No Hostel facility but Girls hostel is under construction.</li> </ul>
3.3 Institutional challenges	<ul style="list-style-type: none"> <li>Attracting more students for basic science subjects.</li> <li>Motivating Teachers to enhance their academic qualifications.</li> <li>Training students to appear for State and National level competitive examinations.</li> <li>More Research projects by the teachers.</li> <li>College should be recognized as a research center.</li> <li>To prepare the students to face the challenges in science subjects to meet the global competition.</li> </ul>
3.4 Institutional Opportunities	<ul style="list-style-type: none"> <li>More collaboration and linkages with industries in and around Nagpur.</li> <li>Scope for more PG courses.</li> <li>Utilization of resources of supportive management.</li> <li>Multidisciplinary / interdisciplinary approach in research activities.</li> <li>More research projects by the faculty from National bodies such as UGC, DST, ICMR, DBT, DOE etc.,</li> </ul>

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**SECTION IV: RECOMMENDATIONS FOR QUALITY ENHANCEMENT OF THE INSTITUTION**

- PG Programmes in Applied Mathematics, Physics and Biotechnology and in locally relevant subjects to be started.
- Fill up the vacant teaching positions at the earliest.
- More space may be provided for all the departments for the future expansion with special reference to research labs.
- Linkages with more institutions may be explored for collaborative research, teaching and consultancy
- Library and college office to be fully automated.
- More space may be provided for reading room in the library.
- College may start coaching classes for competitive examinations such as UPSC, NET, SET, MPSC etc.
- Renovation of the Multi Gym building may be undertaken.
- Management may render financial assistance / fellowships to the meritorious research students.

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

Seal of the institution  
23.01.2010

  
 Signature of the Head of the institution  
 Principal  
 Principal  
 Science College  
 Congress Nagar, Nagpur

**PEER TEAM**

Name and Designation		Signature with date
Prof. Abdul Rahiman M Former V.C. of Kannur and Calicut Universities 'Halcyon', Kaprigudda New Road, Mangalore 575 001, Karnataka	Chairman & Co-ordinator	M. Abdul Rala 23/01/10
Prof.C.Muthamizhchelvan Faculty of Engineering & Technology SRM University SRM Nagar, Kattankulathur-603203, T.N	Member	C. Muthamizhchelvan 23/01/10
Prof. Amrit Gogoi Principal Duliajan College, Duliajan Dibrugarh-786602, Assam	Member	A. Gogoi 23/01/10
Dr Sujata P Shanbhag Assistant Adviser, NAAC Bangalore 560 072	NAAC Officer	

Place: Nagpur Maharashtra-440012

Date: 23/01/2010

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