

**National Assessment And Accreditation Council,  
Bangalore.**

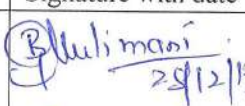
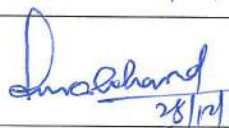
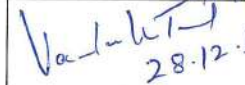
**Re-Accreditation  
(3<sup>rd</sup> Cycle)**

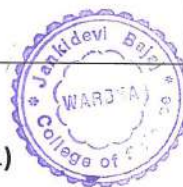
**of**

**Shiksha Mandal's**

**Jankidevi Bajaj College of Science  
Wardha – 442 001 (Maharashtra)**

**(26 – 28<sup>th</sup> December, 2013)**

Profile of the Institution				
Name of the Institution		Shiksha Mandal's Jankidevi Bajaj College of Science		
		Place : Wardha – 442001 State : Maharashtra		
Date of visit		26 <sup>th</sup> to 28 <sup>th</sup> December 2013		
Affiliating University		Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.		
Status of the College		Affiliated <input checked="" type="checkbox"/> Constituted <input type="checkbox"/> Autonomous <input type="checkbox"/>		
Financial Category		Grant in aid <input checked="" type="checkbox"/> Government Funds <input type="checkbox"/> Self financing <input checked="" type="checkbox"/>		
Type of College		Co-education		
No. of Departments		Arts : Nil Science : 09 Commerce : Nil		
No. of Programmes		UG :- 1 PG. :- 5 Ph.D. :- 2		
Year of Establishment		1962		
UGC recognition		under 2(f) : 22/08/1975 and 12 B : 17/09/1998		
Location of the College		Urban		
Area of the campus in Acres		37.55 Acres		
No. of teachers		Men	Women	Total
Permanent	UG	29	05	34
	PG	Nil	Nil	Nil
Temporary	UG	01	03	04
	PG	01	06	07
Total No. of Teachers with Ph.D.		14	04	18
Total No. of Teachers with M.Phil.		02	03	05
Total No. of Teachers with NET/SET		07	01	08
Total No. of Teachers P.G.		01	06	07
No. of Non Teaching Staff		Men	Women	Total
Technical Staff :		34	08	42
Administrative Staff		13	01	14
No. of students				
UG		112	553	665
PG		11	59	70
M.Phil		--	--	--
Ph.D.		5	5	10
Any Other (Certificate– Add On Courses)		14	49	63
Sr. No.	Name	Signature with date		
01	Prof. B.G. Mulimani	 28/12/13		
02	Dr. Suresh Chand	 28/12/13		
03	Prof. Varinder Kaur Thind	 28.12.13		
04	NAAC Officer	Dr. Ganesh Hegde		



Signature of the Principal and Seal

  
Principal,  
Jankidevi Bajaj  
College of Science, Wardha.

<b>PEER TEAM REPORT ON</b> <b>Institutional Accreditation(3<sup>rd</sup> Cycle) of Shiksha Mandal's Jankidevi Bajaj College of Science,</b> <b>Wardha</b> <b>Place : Wardha Pin : 442001, State : Maharashtra</b>		
<b>Section I : General</b>		<b>Information</b>
1.1	Name and Address of the Institution	Shiksha Mandal's Jankidevi Bajaj College of Science, Jamnalal Bajaj Marg, Civil Line, Wardha
1.2	Year of Establishment :	1962
1.3	Current Academic Activities at the Institution (Numbers)	
	• Faculties / Schools	1 (Science)
	• Departments / Centers :	UG : 09, PG : 05, Ph.D. : 02
	• Programmes / Courses offered :	04 (B.Sc., M.Sc., Ph.D., Certificate (Add On Courses))
	• Permanent Faculty Members	34
	• Permanent Support Staff	56
	• Students	745
1.4	Three major features in the institutional context (As perceived by the Peer Team) :	<ul style="list-style-type: none"> <li>• The College is managed by a century old values based organization – "Shiksha Mandal, Wardha"</li> <li>• The 'College with Potential for Excellence' and 'Star College Scheme from DBT, Govt. of India' - Recognitions</li> <li>• College with good physical infrastructure for further growth.</li> </ul>
1.5	Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure )	26 <sup>th</sup> – 28 <sup>th</sup> December 2013 Annexure -
1.6	Composition of the Peer Team which undertook the on-site visit :	
	Chairperson	<b>Prof. Mulimani B.G.</b> (Former Vice Chancellor Gulbarga University) Vice Chancellor BLDE University Smt. Bangaramma Sajjan Campus Sholapur Road, <b>Bijapur – 586 103</b> Karnataka.
	Member Co-ordinator	<b>Dr. Suresh Chand</b> Professor and Head School of Life Sciences Devi Ahilya University, Khandwa Road, <b>Indore – 452001</b> Madhya Pradesh.
	Member	<b>Prof. Varinder Kaur Thind</b> Principal, Khalsa College for Women Civil Lines, <b>Ludhiana – 141 001</b> , Punjab
	NAAC Officer	<b>Dr. Ganesh Hegde</b> Assistant Adviser, (NAAC), Opposite to National Law School of India University <b>Nagarbhavi, Bangalore – 560 072.</b>

*Mulimani* *Suresh Chand*



Section II : Criterion wise Analysis	Observations (Strengths and / or Weaknesses ) on Key Aspects
<b>2.1 Curricular Aspects :</b>	
2.1.1 Curricular Planning and Implementation	<ul style="list-style-type: none"> <li>• College follows curriculum of RTM Nagpur University, Nagpur.</li> <li>• Some of the faculty are members of Board of Studies.</li> </ul>
2.1.2 Academic Flexibility :	<ul style="list-style-type: none"> <li>• Offers UG (with ten combinations), 5 PG and 2 Ph.D. programmes.</li> <li>• Four Add On certificate courses</li> <li>• Limitations to introduce new programmes.</li> </ul>
2.1.3 Curriculum Enrichment	<ul style="list-style-type: none"> <li>• Project and seminar activity at UG and PG levels.</li> <li>• Add on Courses developed and implemented.</li> <li>• Study Tours, lectures by eminent academicians and seminars organized.</li> </ul>
2.1.4 Feedback System	<ul style="list-style-type: none"> <li>• Feedback obtained from students</li> <li>• Proper mechanism for analysis of feedback required.</li> <li>• Feedback on curriculum from students and alumni be taken.</li> </ul>
<b>2.2 Teaching-Learning and Evaluation :</b>	
2.2.1 Student Enrolment and Profile	<ul style="list-style-type: none"> <li>• College follows University and State Government norms for admission as per reservation policy.</li> <li>• Admission to Ph.D. programme through entrance test conducted by RTM Nagpur University, Nagpur.</li> <li>• Majority of the students are girls from rural areas.</li> </ul>
2.2.2 Catering to Student Diversity	<ul style="list-style-type: none"> <li>• College caters to the needs of socially disadvantaged students.</li> <li>• Tutorial classes be planned for all students.</li> <li>• Language lab be upgraded.</li> <li>• Remedial and bridge courses need to be strengthened.</li> </ul>
2.2.3 Teaching-Learning Process	<ul style="list-style-type: none"> <li>• College follows academic calendar</li> <li>• Student-centered learning</li> <li>• Departmental libraries and laboratories enriched with charts and photographs of eminent scientists.</li> <li>• Use of ICT resources in teaching be enhanced.</li> </ul>
2.2.4 Teacher Quality	<ul style="list-style-type: none"> <li>• Out of 45 teachers- 18 Ph.Ds, 5 M.Phil degree holders and 8 NET/SET qualified.</li> <li>• 11 teachers recognized Supervisors for guiding Ph.D. / M.Phil.</li> <li>• Two teachers received University and State awards.</li> </ul>
2.2.5 Evaluation Process and Reforms	<ul style="list-style-type: none"> <li>• Semester pattern for PG programmes since 2012-13 and UG from 2013-14</li> <li>• Provision of internal assessment during semester</li> <li>• Continuous monitoring of academic growth of students.</li> </ul>

*B. Kulimani*

*D. S. Achand*

2.2.6 Student Performance and Learning Outcomes :	<ul style="list-style-type: none"> <li>• Few students in the University Merit list.</li> <li>• College monitors and attempts to ensure achievement from learning processes.</li> <li>• Pass percentage needs improvement.</li> </ul>
<b>2.3 Research, Consultancy and Extension :</b>	
2.3.1 Promotion of Research	<ul style="list-style-type: none"> <li>• Research Committee exists to monitor and promote research.</li> <li>• Seed money provided by Management for research.</li> <li>• Two departments - Botany and Chemistry are recognized as Research Centers and Ten research scholars pursuing Ph.D.</li> <li>• Teachers are encouraged and supported to participate in seminars / Conferences / Workshops.</li> </ul>
2.3.2 Resource Mobilization for Research	<ul style="list-style-type: none"> <li>• Four ongoing major, 3 ongoing minor projects and 7 minor projects completed.</li> <li>• Funding to the tune of Rs. 1.5 crores from CPE (UGC) and Star Facility Scheme (DBT).</li> </ul>
2.3.3 Research Facilities	<ul style="list-style-type: none"> <li>• Good infrastructural facilities</li> <li>• Sophisticated instruments like FTIR, Dual Beam Spectrophotometer, PCR, Trinocular microscope, Fermentor etc. available.</li> <li>• Herbal garden maintained.</li> <li>• Research journals subscribed.</li> </ul>
2.3.4 Research Publications and Awards	<ul style="list-style-type: none"> <li>• Out of 113 research papers in peer reviewed journals, 35 in National and 78 in International journals.</li> <li>• Thirty one books published in the last 5 years.</li> <li>• National seminars organized and proceedings published.</li> </ul>
2.3.5 Consultancy	<ul style="list-style-type: none"> <li>• Consultancy need to be strengthened.</li> <li>• Proper mechanism for consultancy need to be framed.</li> </ul>
2.3.6 Extension Activities and Institutional Social Responsibility	<ul style="list-style-type: none"> <li>• Active NSS unit. Adoption of a village.</li> <li>• Separate NCC units for boys and girls.</li> <li>• Medical camps and various awareness programmes organized.</li> </ul>
2.3.7 Collaboration	<ul style="list-style-type: none"> <li>• Collaborations with industry and institutes of higher learning need to be strengthened</li> <li>• Collaborations with neighboring institutions and sharing of facilities be explored.</li> </ul>
<b>2.4 Infrastructure and Learning Resources :</b>	
2.4.1 Physical Facilities	<ul style="list-style-type: none"> <li>• 37.55 acres of land with 6924 Sq.Meter constructed area.</li> <li>• 22 classrooms, 8 labs, 11 staff rooms, and playgrounds for various games.</li> <li>• Health club, gymnasium, seminar hall.</li> <li>• Hostel facilities for girls and boys. Guest house facility available.</li> </ul>

*B. K. Mahapatra*

*D. K. Choudhary*

2.4.2 Library as a Learning Resource	<ul style="list-style-type: none"> <li>• Built up area 350 Sq.meter.</li> <li>• Library computerized.</li> <li>• 36001 books, 31 Journals, 12 Periodicals and 13 New Papers, ten computers with internet facility.</li> <li>• INFLIBNET facility available.</li> </ul>
2.4.3 IT Infrastructure	<ul style="list-style-type: none"> <li>• Total of Seventy eight computers in the college.</li> <li>• Institutional website in existence</li> <li>• Common computer center needed</li> </ul>
2.4.4 Maintenance of Campus Facilities	<ul style="list-style-type: none"> <li>• Well maintained campus</li> <li>• Well furnished classrooms and laboratories.</li> <li>• Drinking water and Toilet facilities adequate.</li> </ul>
<b>2.5 Student Support and Progression :</b>	
2.5.1 Student Mentoring and Support	<ul style="list-style-type: none"> <li>• Prospectus published annually</li> <li>• Fee concession and fee waiver to meritorious and deserving students.</li> <li>• Teachers are assigned clusters of 8-10 students for guidance.</li> <li>• Anti-Ragging Committee be constituted.</li> </ul>
2.5.2 Student Progression	<ul style="list-style-type: none"> <li>• Drop out percentage is a matter of concern.</li> <li>• Few students qualified NET, GATE and SET</li> <li>• Students are guided and encouraged to pursue higher studies.</li> </ul>
2.5.3 Student Participation and Activities	<ul style="list-style-type: none"> <li>• Participation of boys and girls in sports at University, State, National and International levels noteworthy</li> <li>• College Magazine is brought out annually.</li> <li>• Active participation in cultural events.</li> <li>• Very caring and concerned alumni.</li> </ul>
<b>2.6 Governance, Leadership and Management :</b>	
2.6.1 Institutional Vision and Leadership	<ul style="list-style-type: none"> <li>• Value based and nationalistic vision.</li> <li>• Active and supportive Management.</li> <li>• Harmonious relationship between students, teachers, non-teaching staff and management.</li> </ul>
2.6.2 Strategy Development and Deployment	<ul style="list-style-type: none"> <li>• Proper policy framing and execution.</li> <li>• Perspective plan for overall growth exists.</li> <li>• Several committees to co-ordinate, manage and monitor institutional activities.</li> </ul>
2.6.3 Faculty Empowerment Strategies.	<ul style="list-style-type: none"> <li>• Management supports faculty to participate in Seminars, Workshops and Conferences to improve their competency.</li> <li>• Teachers involved in administrative work</li> <li>• Teacher representative in Management Committee.</li> </ul>
2.6.4 Financial Management and Resource Mobilization	<ul style="list-style-type: none"> <li>• Efficient management of finances.</li> <li>• Auditing of accounts by external and internal auditors.</li> <li>• Research grants from various funding agencies like UGC, DBT, etc. obtained.</li> </ul>

*B. K. Limani*

*D. S. Choudhary*



2.6.5 Internal Quality Assurance System :	<ul style="list-style-type: none"> <li>• IQAC established in 2000, as per norms.</li> <li>• Evaluative reports sent regularly to NAAC.</li> <li>• Measures undertaken to sustain and enhance quality in all of the activities.</li> <li>• Training programme for non-teaching staff organized.</li> </ul>
<b>2.7 Innovations and Best Practices :</b>	
2.7.1 Environment Consciousness	<ul style="list-style-type: none"> <li>• Eco-friendly campus.</li> <li>• Botanical and apiculture gardens well maintained.</li> <li>• Regular Tree Plantation programmes.</li> <li>• Water harvesting done and steps taken to reduce power consumption.</li> </ul>
2.7.2 Innovations :	<ul style="list-style-type: none"> <li>• Fabrication of minor equipments in Physics lab.</li> <li>• Preparation of compost tea from agro-waste and supplying to farmers.</li> </ul>
2.7.3 Best Practices	<ul style="list-style-type: none"> <li>• Cluster of 8-10 students to each teacher for guidance.</li> <li>• Incentives to toppers, awards and fee concessions.</li> <li>• Encouraging students to participate in national level seminars/Conferences.</li> <li>• Providing opportunities to students to use sophisticated instruments.</li> </ul>

*Gulimani*

*Shahid*

Section III : OVERALL ANALYSIS	<i>Observations (Please limit to five major ones for each and use telegraphic language ) (It is not necessary to denote all the five bullets for each)</i>
3.1 Institutional Strengths :	<ul style="list-style-type: none"> <li>• College enjoys good reputation amongst stakeholders.</li> <li>• College accredited with Linguistic Minority Status (Hindi).</li> <li>• Committed and dedicated Management.</li> </ul>
3.2 Institutional Weaknesses :	<ul style="list-style-type: none"> <li>• Drop-out rate is very high and low pass percentage.</li> <li>• Inadequate collaborations and linkages with institutes of higher education and industries.</li> <li>• Very limited Consultancy.</li> </ul>
3.3 Institutional Opportunities :	<ul style="list-style-type: none"> <li>• Expansion and strengthening of P.G. programmes.</li> <li>• Need of a centre to train students for various competitive examinations.</li> <li>• Creating a Central Facility for sharing major equipments.</li> <li>• Strengthening of ICT facilities and setting up a Computer Centre.</li> </ul>
3.4 Institutional Challenges	<ul style="list-style-type: none"> <li>• Obtaining Autonomous Status.</li> <li>• Attracting and retaining students.</li> <li>• Appointing qualified and competent faculty for courses in emerging areas.</li> </ul>

*B. K. Limani*

*D. K. Chandel*



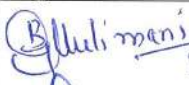

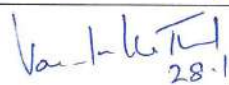
<p align="center"><b>Section IV : Recommendations for Quality Enhancement of the Institution</b></p> <p align="center"><i>(Please limit to ten major ones and use telegraphic language)</i></p> <p align="center"><i>(It is not necessary to indicate all the ten bullets)</i></p> <ul style="list-style-type: none"> <li>• Library needs expansion ✓</li> <li>• P.G. programmes in Maths, Physics, Computer Science and Electronics can be introduced</li> <li>• Career Guidance and Placement Cell need strengthening.</li> <li>• Central Computer facility be established</li> <li>• Centralized Instrumentation facility be created for research work.</li> <li>• A Center to prepare students for Competitive Examinations be established.</li> <li>• Internationally recognized journals be subscribed for library.</li> <li>• Ph.D. programme be according to UGC guidelines.</li> <li>• Efforts be made to reduce the drop-out rate.</li> <li>• Student feed back be analyzed and needed action be taken.</li> <li>• Collaborations be established with Industries and National Research Institutes.</li> </ul>
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*I agree with the Observations of the Peer Team as mentioned in this report.*

*Signatures of the Peer Team Members*



  
*Signature of the Head of the Institution*  
*Seal of the Institution*  
**Principal,**  
**Jankidevi Bajaj**  
**College of Science, Wardha**

<i>Name and Designation</i>		<i>Signature with date</i>
<b>Prof. B.G. Mulimani</b>	<b>Chairperson</b>	 28/12/13
<b>Dr. Suresh Chand</b>	<b>Member Co-ordinator</b>	 28/12/13
<b>Prof. Varinder Kaur Thind</b>	<b>Member</b>	 28.12.13.

*Place : Wardha*

*Date : 28 /12/2013*