

Peer Team Report

on

Institutional Assessment and Re-accreditation

of

**B. N. Bandodkar College of Science,
Jnanadweepa
College Campus
Nr. Cidco Bus Stop
Thane 400 601**

Visit Dates : 21st – 23rd January 2010

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of University Grants Commission
P.O.Box No. 1075, Nagarbhavi, Bangalore – 560 072, India**

**Peer Team Report on Institutional Accreditation
of
B. N. Bandodkar College of Science, Thane
Maharashtra**

Section I: General

1. Name & Address of the Institution	B.N. Bandodkar College of Science, Jnanadweepa, College Campus Near Cidco Bus Stop, Thane-400601 (Maharashtra)
2. Year of Establishment	01.06.1969
3. Current Academic Activities at the Institution (Numbers): (2008-09)	
• Faculties/ Schools:	
• Departments/ Centres:	10
• Programmes/ Courses offered:	P.G. = 02, U.G. = 08, M.Sc. Research = 3, Ph. D. = 3
• Permanent Faculty Members:	35 (19 Male, 16 Female)
• Permanent Support Staff:	56
• Students	1245 (U.G. = 1162, P.G. = 61, Ph.D. = 22)
4. Three major features in the Institutional Context (As perceived by the Peer Team):	<ul style="list-style-type: none"> • The college offers Science based courses only. • The college has very good physical infrastructure. • The college has very good ICT facilities for teachers and students.
5. Date of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	21 st – 23 rd January, 2010.
6. Composition of the Peer Team which undertook the on-site visit:	
• Chairman:	Prof. R.S. Bawa. Former Registrar & Professor, Punjab School of Economics, Guru Nanak Dev University, Amritsar – 143005 (PUNJAB).
• Member/ Co-ordinator:	Dr. Udayan Chandra Sarkar, Principal, Banwarilal Bhalotial College, Asansol, P.O. Ushagram – 713303 Distt. Burdwan, (W.B.)
• Member	Prof. D. Chandra Shekhra Reddy, Prof. of Zoology, Department of Zoology, Sri. Venkateshwara University, Tirupati – 517502 (A.P.)
• NAAC Coordinator:	Dr. Ganesh Hegde, Assistant Advisor, (NAAC), Nagarbhavi, Bangalore – 560072

Section II: Criterion Wise Analysis

2.1 Curricular Aspects:	
2.1.1. Curricular Design & Development	<ul style="list-style-type: none"> • The vision and mission of the college are clearly defined and are visible in the courses being offered. • Syllabi are framed by the University but the college gives feedback to the BOS about revision of the syllabi.
2.1.2. Academic Flexibility	<ul style="list-style-type: none"> • The choice of courses is as per the prescribed syllabi. • Limited academic flexibility is available for the students except that the foundation course contains a few interdisciplinary topics. • The college may offer more Add-on and interdisciplinary courses.
2.1.3. Feedback on Curriculum	<ul style="list-style-type: none"> • The feedback on curriculum is mainly informal. • A formal mechanism for feedback may be a better option.
2.1.4. Curriculum Update	<ul style="list-style-type: none"> • Curriculum is updated as per the policy of the university. • The College faculty plays a role in updating the curriculum when involved as members of BOS or Curriculum Revision Committee.
2.1.5. Best Practices in Curricular Aspects (if any):	<ul style="list-style-type: none"> • Meetings with students council are held to get feedback on curriculum. • The college management has started courses in foreign language.

2.2 Teaching –Learning & Evaluation	
2.2.1. Admission Process and Student Profile	<ul style="list-style-type: none"> • The admission is based on merit in the qualifying examination only. • The admission process is transparent and based on wide publicity. • The fee structure and admission procedure is clearly shown in the college prospectus and website.

2.2.2. Catering to the Diverse Needs:	<ul style="list-style-type: none"> • Student's knowledge levels and needs are known through informal discussions. • Students are given guidance for further studies and competitive examinations. • Each teacher acts as a mentor to about 25 students allotted to him / her. • A formal mechanism to identify the slow learners who need remedial coaching may be a better option.
2.2.3. Teaching Learning Process	<ul style="list-style-type: none"> • Teaching is mostly based on lecture method. Sometimes LCD Projectors, OHP etc. are used. • Departmental libraries need to be strengthened particularly in the PG Departments.
2.2.4. Teacher Quality	<ul style="list-style-type: none"> • Some departments have good number of Ph.D. and M.Phil. teachers. • Many faculty members have attended Conferences, Seminars etc. • More teachers need to improve their qualifications.
2.2.5. Evaluation Process and Reforms:	<ul style="list-style-type: none"> • The process of examinations and evaluation is notified well in advance. • Evaluation is done as per University guidelines.
2.2.6. Best Practices in Teaching-Learning and Evaluation	<ul style="list-style-type: none"> • Students are encouraged and motivated to excel. • The college has introduced new courses like Biotechnology, Microbiology and Computer Science at UG level, I.T. at PG level and Ph. D. in Chemistry. • Efforts are made to inculcate moral and social values through extension lectures, Yoga classes etc.

R. Sawa

2.3 Research, Consultancy & Extension:	
2.3.1. Promotion of Research	<ul style="list-style-type: none"> • The College has constituted a Research Committee to promote Research. • Students are encouraged to undertake small research projects. • Some of the teachers have got grants for research projects from outside agencies. • More teachers need to procure research projects and grants.
2.3.2. Research and Publication Output	<ul style="list-style-type: none"> • The faculty has published one book and 35 papers in International and 29 in National Journals in the last five years. • Some of the teachers are recognized as research guides and a few are guiding research. • More teachers need to do research and publish research papers.
2.3.3. Consultancy	<ul style="list-style-type: none"> • Expertise for consultancy available in the college is publicized only during meetings etc. • A formal mechanism to promote consultancy may be required.
2.3.4. Extension Activities	<ul style="list-style-type: none"> • Extension activities are mainly undertaken through NSS and NCC. • Also awareness Programmes are organized in collaboration with some NGOs. • More social activities in the neighborhood may be undertaken.
2.3.5. Collaborations	<ul style="list-style-type: none"> • The college is undertaking extension work in collaboration with some NGOs. • More collaborative work can help the cause of research and extension.
2.3.6. Best Practices in Research Consultancy and Extension	<ul style="list-style-type: none"> • Students are encouraged to undertake minor research projects. • The faculty and the students undertake some extension work.

R. Sawa

2.4 Infrastructure and Learning Resources	
2.4.1. Physical Facilities	<ul style="list-style-type: none"> • The college has very good physical infrastructure for teaching • The college has good indoor facilities for sports and co-curricular activities.
2.4.2. Maintenance of Infrastructure	<ul style="list-style-type: none"> • Maintenance of infrastructure is very good. • The heads of departments ensure maintenance of laboratories etc. • Maintenance contracts are signed for costly equipments.
2.4.3. Library as a learning Resource	<ul style="list-style-type: none"> • The college maintains a very good library and its functioning is fully computerized. • About Rs. 12 Lacs have been spent on books and journals in the last five years. • Entry to the library as also issue and return of books is through smart cards. • Book bank facility is available to the students.
2.4.4. ICT as Learning Resources	<ul style="list-style-type: none"> • College campus has optical fiber based LAN and Wi-Fi facility. • The college has good number of PC's, Servers and relevant software. • ICT facilities are available to the students and teachers free of cost.
2.4.5. Other facilities	<ul style="list-style-type: none"> • The college has provision to provide first aid facilities in all the departments. • The college has a gymkhana with indoor games and fitness facilities. • Counseling and Placement Cells may be further strengthened.
2.4.6. Best practices in the development of Infrastructure and learning resources	<ul style="list-style-type: none"> • Video conferencing facility is available. • Smart Cards are used by students and faculty members for entry to the campus. • Maintenance of infrastructure is very good.

R. Y. Sane

2.5 Student Support and Progression	
2.5.1. Student Progression	<ul style="list-style-type: none"> • Some academic distinctions have been achieved by the students. • Many students are going in for higher studies. • Employment and counseling cells may be further strengthened.
2.5.2. Student Support	<ul style="list-style-type: none"> • The college publishes its updated prospectus and College magazine every year. Website is also updated regularly. • Group Insurance scheme is available for the students. • Financial support for the needy may be ensured. • Women development cell may be made more active.
2.5.3. Student Activities	<ul style="list-style-type: none"> • Students are participating mainly in indoor sports and co-curricular activities. • Student feedback on syllabi is obtained from outgoing students only. • Alumni association of the college may be activated.
2.5.4. Best practices in Student Support and Progression (if any):	<ul style="list-style-type: none"> • Mentor system for student counseling is in place. • Student visits to industry and research institutes are regularly organized. • Endowment Scholarships have been instituted to encourage brilliant students and recently alumni association has also added to this activity.
2.6 Governance and Leadership	
2.6.1. Institutional Vision and Leadership	<ul style="list-style-type: none"> • The vision of the institution is well defined. • Academic leadership is provided by the Principal as also faculty members. • The management is proactive and encourages various developmental activities in the college.
2.6.2. Organizational Arrangements	<ul style="list-style-type: none"> • The college management is very well organized. • A number of Committees have been constituted to decentralize the decision making. • Quality Advisory Committee has been constituted along with IQAC.

2.6.3. Strategy Development and Deployment:	<ul style="list-style-type: none"> • Strategic decisions are taken by LMC, QAC and IQAC. • A few interdepartmental activities are organized to provide interdisciplinary knowledge. • Various important academic activities are planned well in advance.
2.6.4. Human Resource Management	<ul style="list-style-type: none"> • Teacher's performance is evaluated through self-appraisal and student evaluation once in two years. • Faculty is provided with ICT facilities. • More teachers need to be encouraged to improve their qualifications and soft skills.
2.6.5. Financial Management and Resource Mobilization	<ul style="list-style-type: none"> • The college has obtained some grants for seminars etc. from various funding agencies and the University. • College has started self-financing courses. • The college accounts are regularly audited.
2.6.6. Best practices in Governance and Leadership (if any):	<ul style="list-style-type: none"> • The management takes active interest in all activities of the college. • Powers and responsibilities are delegated for better coordination in the college administration. • The college trust runs some courses on its own.

2.7 Innovative Practices	
2.7.1. Internal Quality Assurance System	<ul style="list-style-type: none"> • The college encourages its students to undertake research projects. • The IQAC may undertake regular internal quality audit of various departments and administration of the college. • Annual Reports of Internal Audit may be compiled and discussed with all concerned for implementation of the recommendations.
2.7.2. Inclusive Practices	<ul style="list-style-type: none"> • Reservation policy of the University is followed in students' admission to give opportunity to weaker sections of the society. • The college provides special facilities for female students and has set up a Women Development Cell.

2.7.3. Stakeholder Relationship	<ul style="list-style-type: none"> • The college obtains feedback from various stake holders during meetings etc. informally. • A number of community development and awareness Programmes are organized through NSS and NCC. • The college may create a mechanism for strengthening formal relationship with stake holders.
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Section III: OVERALL ANALYSIS

1. Institutional Strengths	<ul style="list-style-type: none"> • The college is totally devoted to Science education. • The college has very good infrastructural facilities. • The college provides very good ICT facilities to its teachers and students. • The courses being offered by the college are modern and relevant. • Teacher student relations are based on compassion and commitment. • Students are encouraged to undertake research projects. • The relations between management, Principal and faculty are very cordial and healthy.
2. Institutional Weaknesses	<ul style="list-style-type: none"> • The number of courses and options are limited. • Number of major research projects obtained by the faculty is very few. • Number of teachers having Ph.D. degree is less considering college being a Science college. • The number of conferences, workshops etc. organized by the college needs to be enhanced. • Participation and achievements in sports and co-curricular activities needs improvement.

R. K. Dawes

3 Institutional Opportunities	<ul style="list-style-type: none"> • The college can develop into a good centre for Science education in the State. • The department of Bio-technology can be further developed to include Bio-informatics and Biochemistry at UG level and also at P.G. level. • College can perform better in the field of research. • The college can become socially more relevant by reaching out to the deprived sections of the society in the neighboring areas. • The college can organize more Seminars / Conferences / Workshops for faculty improvement.
4. Institutional Challenges	<ul style="list-style-type: none"> • The college needs to provide more funds for research promotion. • The college may be required to add more P.G. courses. • The college needs to undertake more social extension work as also consultancy. • The college has to formalize a mechanism for feedback from stake holders. • Student support services need to be institutionalized.

R. Bawa

Section IV: Recommendations for Quality enhancement of the Institution

- The college can add more courses like Bio-informatics, Biochemistry, Food Technology, Clinical Nutrition, Microbial and Fermentation Technology etc. at the U.G. level.
- The college can also introduce MCA, M.Sc.(Bio-Technology), Bio-informatics etc. at the P.G. level.
- The college may start more short term vocational and add on courses based on expertise available in the departments.
- The college needs to organize more Seminars, Conferences etc. to give exposure to its faculty and students.
- The faculty may try to get more major research projects from outside funding agencies.
- The college should encourage the students to actively participate in sports and co-curricular activities to enhance achievements in these areas.
- The college may provide facilities like Health Centre and improve the functioning of other student oriented services.
- Alumni Association has to be made more active and participative in college development.
- The college may setup a formal mechanism to obtain feedback from various stake holders and analysis of the same for further development.
- The college may provide hostel facilities for male and female students.

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

Date: 23rd January, 2010.

Place: Thane



(Dr. Mrs. M. K. Pejaver)

Principal

Signature of the Head of the Institution

B. N. Bandodkar College of Science
Thane (W) - 400 601.

Seal of the Institution

Signatures of the Peer Team Members:

Name of Peer Team member

Designation

Signature with date

Prof. R.S. Bawa

Chairman

R.S. Bawa
23.1.2010

Dr. Udayan Chandra Sarkar

Member Coordinator

U. Chandra Sarkar
23.01.2010

Prof. D. Chandra Shekhara Reddy

Member

D. Chandra Shekhara Reddy
23/1/2010

Place: B. N. Bandodkar College of Science, Thane, Maharashtra

Date: 23rd January, 2010.

NAAC – for Quality and Excellence in Higher Education