



YEARLY STATUS REPORT - 2020-2021

Part A

Data of the Institution

1.Name of the Institution		VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE
• Name of the Head of the institution		DR. MOSES J KOLET
• Designation		PRINCIPAL
• Does the institution function from its own campus?		Yes
• Phone no./Alternate phone no.		02225337672
• Mobile no		9004690471
• Registered e-mail		prinbnb@vpmthane.org
• Alternate e-mail		iqacbnb@vpmthane.org
• Address		Jnandweepa Chendani Bunder Road
• City/Town		THANE
• State/UT		MAHARASHTRA
• Pin Code		400601
2.Institutional status		
• Affiliated /Constituent		AFFILIATED
• Type of Institution		Co-education
• Location		Urban

• Financial Status	UGC 2f and 12(B)				
• Name of the Affiliating University	UNIVERSITY OF MUMBAI				
• Name of the IQAC Coordinator	DR MRS VINDA MANJRAMKAR				
• Phone No.	9892071298				
• Alternate phone No.	8369308244				
• Mobile	9892071298				
• IQAC e-mail address	iqacbnb@vpmthane.org				
• Alternate Email address	prinbnb@vpmthane.org				
3.Website address (Web link of the AQAR (Previous Academic Year)	http://vpmthane.org/BNB/AQAR.aspx				
4.Whether Academic Calendar prepared during the year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	http://vpmthane.org/BNB/calendar%20all.aspx				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	B++	81.25	2003	16/09/2003	15/09/2008
Cycle 2	A	3.04	2010	28/03/2010	15/03/2015
Cycle 3	A	3.21	2015	15/11/2015	14/11/2025
6.Date of Establishment of IQAC			14/01/2004		
7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,					

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	FIST	DST	2013	3950000
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	STAR	DST	2015	2900000
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	CPE	UGC	2017	1020000
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	SOCIAL WELFARE OFFICE	SOCIAL WELFARE OFFICE	2020	2804802
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	JT DIRECTOR OF HE OFFICE	JT DIRECTOR OF HE OFFICE	2020	117800
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	OTHERS	OTHERS	2020	24287
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	BOOK BANK GRANT	UNIVERSITY OF MUMBAI	2020	54480

8.Whether composition of IQAC as per latest NAAC guidelines

Yes

<ul style="list-style-type: none"> • Upload latest notification of formation of IQAC 	View File
9.No. of IQAC meetings held during the year	19
<ul style="list-style-type: none"> • Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? 	Yes
<ul style="list-style-type: none"> • If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
<ul style="list-style-type: none"> • If yes, mention the amount 	
11.Significant contributions made by IQAC during the current year (maximum five bullets)	
<p>1. Mega Blood Donation drive in Pandemic of Covid - 19 (669 units of Blood collection). 2. Recipient of BEQET(Best Educational Quality Enhancement Team) Special Citation Award of National Centre for Quality Management (NCQM) 3. Various Courses and Workshops were organized online during Pandemic. 4. Web Seminars and Conferences organized during the pandemic (Total No. 73) 5. Winner of overall championship of University of Mumbai Youth Festival in Literary events.</p>	
12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year	

Plan of Action	Achievements/Outcomes
Empowerment of the students, for the students, by the students	Evidence of effective participation and organization of activities for the students by the students Competitive exam guidance sessions by alumni: 8 Motivational/ Value/ Skill based seminars: 74 Leadership Courses and Student Workshops: 12 Festivals, Competitions and events: 31
13.Whether the AQAR was placed before statutory body?	Yes
<ul style="list-style-type: none"> Name of the statutory body 	
Name	Date of meeting(s)
College Development Committee	21/03/2022
14.Whether institutional data submitted to AISHE	
Year	Date of Submission
2021	12/03/2021

Extended Profile

1.Programme

1.1 11

Number of courses offered by the institution across all programs during the year

File Description	Documents
Data Template	View File

2.Student

2.1 2024

Number of students during the year

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2

650

Number of seats earmarked for reserved category as per GOI/ State
Govt. rule during the year

File Description	Documents
Data Template	View File

2.3

739

Number of outgoing/ final year students during the year

File Description	Documents
Data Template	View File

3.Academic

3.1

56

Number of full time teachers during the year

File Description	Documents
Data Template	View File

3.2

0

Number of sanctioned posts during the year

Extended Profile

1.Programme

1.1	11
Number of courses offered by the institution across all programs during the year	

File Description	Documents
Data Template	View File

2.Student

2.1	2024
Number of students during the year	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2	650
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	

File Description	Documents
Data Template	View File

2.3	739
Number of outgoing/ final year students during the year	

File Description	Documents
Data Template	View File

3.Academic

3.1	56
Number of full time teachers during the year	

File Description	Documents
Data Template	View File

3.2	0
Number of sanctioned posts during the year	

File Description	Documents
Data Template	View File

4.Institution

4.1	19
Total number of Classrooms and Seminar halls	
4.2	5.81
Total expenditure excluding salary during the year (INR in lakhs)	
4.3	165
Total number of computers on campus for academic purposes	

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

BNBCS was granted autonomy in an unprecedented period of COVID-19 imposed lock-downs, in the middle of the academic year 2020-21. Hence followed syllabi prescribed by University of Mumbai (UOM) for the year. All UG-PG programmes are based on choice-based-credit-grading-systems. Assessments are done on semester basis satisfying the existing PO's, PSO's and CO's. As per the dates provided by UOM, College Calendar committee prepares the academic calendar. It includes month-wise details of instructional/non-instructional days, departmental meetings, exam weeks, activities of Departments, Committees and Clubs. The master plan is reviewed and approved by the Principal and IQAC Coordinator. Later individual Departments are asked to insert planned activities in it and the final copy is uploaded on college web-site. Appointment of teachers is done based on work-load. Heads of the Departments distribute syllabus paper/unit wise as per specialization of teachers. Teachers prepare teaching plans involving traditional teaching methodology, use of the internet, ICT, soft skills,

orientation/induction lectures, and hands-on-training. Teachers complete the syllabi on time before the commencement of examination. The academic enhancement is attained through the organization of workshops, orientation programs, colloquium, guest lectures, career guidance and industrial visits. Certificate courses are designed to enhance the professionals and entrepreneur skills.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://vpmthane.org/BNB/calendar%20all.aspx

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

BNBCS plans the Academic Calendar including curricular, co-curricular and extra-curricular activities. The calendar is uploaded on the college website in the month of April for the upcoming academic year. Vice Principals, Departmental Heads, Committee Coordinators, Controller of Examination and Administrative Staff hold the responsibility to fulfill the planned activities as per the calendar. College adopted guidelines of the University of Mumbai and State government to conduct the examinations in Pandemic lockdown.

After discussion and meeting with cluster colleges, BNBCS conducted its own examinations under autonomy as per the framework provided by the university. All circulars, notices, examination time tables are displayed timely on the college website. HODs distribute time table at the beginning of the academic year to all teachers. Every teacher prepares the teaching plan and evaluation schedule of the assigned subject. The type and schedule of internal evaluation for isolated subjects is planned in consultation with the HODs and Examination committee. The planned activities of calendar are compared with conducted activities. The action taken report for the same is devised by IQAC and discussed with the principal, thus ensuring adherence of the calendar at various levels.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	http://oldadm.vpmthane.org/VPMNB/list_files_All.php

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University

B. Any 3 of the above

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

23

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)**4**

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year**191**

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment**1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**

BNBCS offers quality education in science stream which is intended for comprehensive development of students. Human Science and Interdisciplinary Science Programmes are pertaining to diverse facets of Human life. It involves topics like Human values, Social-Ethical behaviour, Gender Sensitization, Professional ethics and Environmental laws. Remaining UG programs based on biological sciences exhaustively discuss various aspects such as human interaction with nature, environmental issues, concept of sustainable development, eco-friendly practices, strategies of conservation of natural resources and avenues of inventions in the green environment.

In addition to this, UG-PG programs of Chemical Science stressed on green chemistry while B.Sc. Biotechnology and Microbiology involve contents related to renewable sources of energy,

industrial effluent treatment, hazardous waste management and contemporary issues in bioethics. PG in Environmental Science and Biodiversity & Wildlife Conservation-Management are dedicated programmes covering multiple aspects of natural resources. Certificate courses also encourage an environment-friendly approach. These curricular topics enhance knowledge and sow seeds of critical thinking about environmental awareness and conservation among students. In addition to regular curricula, awareness programmes through schemes of WDC, FC, NSS and NCC help in strengthening the rational attitude of students to deal with odd events pertaining to education, family, profession and environment.

File Description	Documents
Any additional information	No File Uploaded
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

10

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	No File Uploaded
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	No File Uploaded
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

275

File Description	Documents
Any additional information	No File Uploaded
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni

A. All of the above

File Description	Documents
URL for stakeholder feedback report	https://vpmthane.org/BNB/AQAR20-21/1.4.1.pdf
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - Feedback process of the Institution may be classified as follows

A. Feedback collected, analyzed and action taken and feedback available on website

File Description	Documents
Upload any additional information	No File Uploaded
URL for feedback report	https://vpmthane.org/BNB/AQAR20-21/1.4.1.pdf

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

2024

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

291

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

Student's learning levels are assessed on the basis of academics of the previous year. Students who have scored A grade (60%) and above are categorized as advanced learners and students who scored D grade (<45%) or failed in any of the subjects are categorized as slow learners.

Remedial classes, extra lectures and extra practicals are conducted for the slow learners. They are encouraged to participate in online academic fest, extracurricular and Co-curricular activities. These students have also been given attention by the mentors to help them to overcome academic difficulties and also the other social or psychological difficulties. Various motivational webinars are arranged by the departmental clubs and committees for students.

Advanced learners are given exposure to project-based learning under research scholar program (RSP), Science Square, departmental science festivals and National Science Day celebration activities. They are also guided for University research convention "Avishkar," They are encouraged to participate in conferences,

workshops, seminars, academic fests, intercollegiate competitions and also for competitive examinations throughout the year.

File Description	Documents
Paste link for additional information	https://www.vpmthane.org/BNB/ResearchScholars.aspx
Upload any additional information	View File

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
2024	56

File Description	Documents
Any additional information	No File Uploaded

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

BNBCS is a pure science college, each subject has a practical component in the course. This year all practical are demonstrated online through videos and explanations. Various experiential learning methods like experiments through Simulations, programming, Inquiry based approach are implemented.

Students participated in the class by presenting the subjects through Power Point and posters. The students also got involved through the flipped classroom, group discussion, question and answer session. Students were asked to solve and submit the assignments.

Problem solving skills of students are developed through projects carried out by the students.

File Description	Documents
Upload any additional information	View File
Link for additional information	https://www.vpmthane.org/BNB/AQAR20-21/2.3.1bList%20of%20projects.pdf

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Due to the pandemic situation, Teaching was purely on online mode. Teachers adopted entirely ICT enabled tools and resources in the teaching process. For all programs, online classes are scheduled on various platforms like Google meet, Microsoft teams and zoom. Social groups for every class are formed. Lectures or practical links are shared on these groups for easy access to the students. In Online lectures various tools like powerpoint presentation, one note, white board, Edmodo, storyboard, Ed puzzle, XP Pen, Open Board, app for Python programming, R software are used. In certain cases, general and educational YouTube videos are shown to explain the concepts in the subject. The virtual experiments are designed in the laboratory and exhibited through online mode for the students along with the theoretical explanation. Subjects' experiments are performed using simulations.

The study materials, ppts, videos, recorded lectures and the reference books are shared with the students on Google Classroom and also made available on the Digital repository of the college website. For continuous evaluation of the subjects Google form, Quizzes or even descriptive writing tests are conducted by asking students to keep their camera on.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

56

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality**2.4.1 - Number of full time teachers against sanctioned posts during the year**

56

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	View File
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)**2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year**

20

File Description	Documents
Any additional information	View File
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

662

File Description	Documents
Any additional information	View File
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

BNBCS was affiliated to the University of Mumbai till September 2021. The syllabus and examination-evaluation norms were followed as per directives given by the university for undergraduate and post graduate courses for the Academic year 2021-22. In semester wise examination-evaluation pattern for post-graduation external to internal component is in the ratio of 60:40 and for isolated courses such as Biotechnology, Computer Science, Human Science, Interdisciplinary Science and Information Technology external to internal component is in the ratio of 75:25 for first and second year of the program. In the pandemic situation, the ministry of education and university of Mumbai prescribed directives to conduct online examinations for the academic year 2020-2021. College used Examination Management system "Eklavya" to conduct online examinations which were MCQ types as per the guidelines then issued. The software ensured proctoring of students captured photo after every 60 secs for online mode examination. The software gives warning alerts if any misappropriate act is observed and after two warning examination is terminated. Uploading of papers was done in total confidentiality as software selected question from question bank as easy , medium and hard. Assessment was done by software giving the score of candidate.

Other modes of internal evaluation includes class tests, seminar through PPT presentations, assignments, quiz based on syllabus topics, tutorials, projects, viva-voce during lectures. The continuous internal evaluation (CIE) was also done on the basis of attendance and participation of students in lectures.

File Description	Documents
Any additional information	View File
Link for additional information	Nil

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

The internal examination was conducted online as per the university guidelines for which the college used Software from "Eklavya". All teachers and students were trained for smooth conduction of examinations. Examination was based on Multiple Choice Questions pattern. The students who were defaulters due to technical reasons were given a second chance of the exam. In some of the subjects defaulters were asked to submit the additional assignments for the internal evaluation.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

As autonomy was awarded in the middle of the academic year 2020-21, curriculum for all programs was continued as per University of Mumbai. Course outcomes are stated in the syllabus formed by the respective Board of Studies of University of Mumbai.

Reform in First year syllabus under autonomy was done by the respective departmental BOS committee from 2020-21 which was sanctioned in the college academic council to be implemented in the academic year 2021-22. Course Outcomes for first year courses offered by college were defined while framing of the syllabus and are uploaded on the college website.

Syllabus copies are available on the website as well as in the college library and departmental library from where teachers and students can access easily.

Induction lectures are given by the Principal, respective Head of

the department and committee coordinators as well. The course information, course code, units, credits, examination system and programme outcomes are made aware to the students. In the beginning of course in each term, the respective teacher reads out and explains the expected course outcomes in the classroom.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	https://www.vpmthane.org/BNB/Course%20outcome.aspx
Upload COs for all Programmes (exemplars from Glossary)	View File

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

Attainment of POs and COs are evaluated through direct and indirect methods.

1. Direct methods include internal assessment, practical and theory semester end examination which is reflected in grade cards on the basis of course credit. Overall CGPA is used to measure the attainment of POs. The grades, corresponding level of attainment and Calculation of percentage attainment for a semester:

Semester II

Grade

Level of attainment

Count

Percentage

O

Outstanding

10

1.83

A+

Excellent	
161	
29.49	
A	
Very Good	
149	
27.29	
B+	
Good	
82	
15.02	
B	
Above average	
30	
5.49	
C	
Average	
4	
0.73	
D	
Low	
0	
0.00	

F**Very Low****110****20.15****Total****546****100**

2. Indirect methods include feedback from stakeholders, field visits, internships, industrial training, seminar presentations, group discussions, project evaluation, laboratory assessment, student portfolios, co-curricular and extra-curricular activities.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	Nil

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

739

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

<https://www.vpmthane.org/BNB/feedback%20analysis.aspx>

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

Nil

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)**3.1.2.1 - Number of teachers recognized as research guides**

9

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year**3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year**

4

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	No File Uploaded
Supporting document from Funding Agency	View File
Paste link to funding agency website	1. https://mangroves.maharashtra.gov.in/ 2. https://mu.ac.in/

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

BNBCS created an ecosystem by encouraging teachers and students to do research with an interdisciplinary approach along with research for solutions. Teaching and nonteaching staff are encouraged to undergo professional development programs, dissemination of knowledge by organizing and participating in conferences, seminars, and workshops. Students are volunteering in the organization of large number of web events. Though the lock-down period in 2020-21, students have undertaken research projects, fieldwork, and internships for entrepreneurial skill development.

Seventeen student projects were sent to the University research convention 'Avishkar' under the guidance of teachers. Conceptualized the idea of cultivating spirulina in underutilized terrace space in urban settings with the help of unemployed women from economically weaker sections after training them. The idea got validated when it was presented and won the second prize. As a part of the pre-incubation state, the budget and the profit margin for the project execution for this promising venture got presented and got acclaim at this research convention.

Department of lifelong learning and extension (DLLE) conducted a skill development online program "SUI DHAGA" for students on 6th and 7th March 2021. This hand embroidery technique may generate entrepreneurship. Students participated in various skill development programs.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vpmthane.org/BNB/Activity12.aspx

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

22

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

0

File Description	Documents
URL to the research page on HEI website	https://www.vpmthane.org/BNB/ResearchCommittee.aspx
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	No File Uploaded

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

4

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year

12

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

Service to mankind is service to God. Imparting moral values, ethics, human values, environmental sustainability and attitude among the students. NSS and NCC carry out several extension activities in the neighbourhood community. Activities include webinars, awareness programmes, a celebration of days to sensitize the students and address the social problems. The welfare of the neighbourhood community and sensitizing their social problems are the necessary steps for the betterment of society. Extension programmes conducted such as yoga, meditation day, blood donation camps, organ donation, tree plantation. Awareness programmes, such as swachh Bharat, say no to drug abuse, no smoking, women empowerment and women Leadership in Defence, no rape campaign, world water day, aids day and patriotic events.

These social outreach programs brought a great impact on the comprehensive development of the students as they come across different categories of people and their living of standards.

All these mentioned activities have a positive impact on the students and they developed student community relationships, leadership skills and self-confidence of the students. It also helped in cultivating the hidden personality of students and creating awareness among students.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

5

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

64

File Description	Documents
Reports of the event organized	View File
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

3040

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

4

File Description	Documents
e-copies of related Document	View File
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year**3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year****2**

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES**4.1 - Physical Facilities**

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

The college is located at prime location in Thane city near the bank of thane creek and easily accessible from railway station and bus stands. The college situated in the green campus of 13.5 acres with four other sister institutions. College campus has integrated Access Control System with our Entrance Control System.

Two buildings with 19 classrooms, 5 computer laboratories, 10 laboratories and 4 Research laboratories, Digital Repository, 16 HOD cabins, Ladies common Room, Common staff room, ICT equipped auditorium and seminar room, Yoga centre, gymkhana, central Library along with 7 departmental libraries, photo copy centre, departmental staff rooms etc. Total 165 computers are available for students.

The total collection of library is 31665 books and 07 national and international journals. A separate lab of 10 computers is made available for students in the library for knowledge seekers.

Entire college campus is Wi-Fi enabled. All laboratories are with high-end equipment, fire extinguisher and first aid-box. Administrative office, non-teaching staff common-rooms,

examination control-room and IQAC room available for functioning of college administration.

For better communication, Public announcement system is installed. Every department has teaching learning aids as laptop, LCD-projectors, models, etc. Botanical and butterfly garden are developed by the students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.1.2 - The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

For holistic development of students, college is providing facilities like Open air stage, Yoga centre, a well-equipped gymkhana with qualified staff. In the Gymnasium, equipment like tread mill, cycles and adjustable benches are available for students and teachers. For overall fitness, Yoga training is given to the students free of cost.

Indoor games like carom boards, Table tennis tables, chess boards are available. The college has a large playground, basketball court, obstacle path for NCC cadets and jogging track. A special guidance and training is provided as per demand of the students for various sports and cultural activities.

An auditorium with capacity of 180 students in college and 4 other auditoriums in campus are available with video conferencing facility.

Two Open theatres and a central auditorium of 350 capacities are available for all colleges on the campus for organising various events. Canteen, cafeteria, NCC office and photocopy centre facility is made available for all the stakeholders.

BNBCS is only science faculty institute and along with curricular activities, constant encouragement to cultural activities and other extra-curricular activities is given by the college. Many TV Actors, Anchors, Sportsmen, Defence Officers, Government, Corporate and Administrative officers are proud alumni of our institute.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

19

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

5.81

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template)	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Library is fully automated with Koha Open source software Version 20.05. The entire WebOPAC of the library is available on

<http://opac.vpmthane.org:50500/> . The free e-books and e-journals are made available via direct link from Web OPAC. Web OPAC is self-explanatory and interconnected with sister institutions libraries in the campus. All four libraries on the campus are interconnected and Inter library loan facility is available. Library committee oversees the functional aspects of library along with administration.

All the books are containing the barcode for easy tracking. The entry and exit to the library is carried by smart card. Check-in/out of reading material are online and users received an e-mail after issuing/returning of document. Online claim facility is also made available.

Institutional Repository is developed with D-space open access software

(<http://dspace.vpmthane.org:8080/jspui/handle/123456789/1>) and it contain information like study material for students, question papers, question banks, proceedings, videos etc.

Student Orientation, Information Literacy lectures, use of e-resources and Database Search training are organise to users. Through the Friends of Library club activities like books exhibitions, guest lectures are conducted. Book bank facility is provided to Meritorious, financially weaker section and socially reserved category students. Library is open for societal members through External Membership facility.

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	http://opac.vpmthane.org:50500/

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

A. Any 4 or more of the above

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

3.43

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

17

File Description	Documents
Any additional information	View File
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

In the college premises total 200 computers, 32 thin client, 15 laptops, student enrolment software, staff payroll software, public announcement system, 3 scanners, 9 printers are available. During constrains of COVID pandemic situation, the examinations were smoothly conducted using paid online examination software

"Eklavya".

A touch screen computer is made available to the students for accessing Web OPAC.

The available bandwidth is 50 MBPS from Tata and 50 MBPS Intech online. The college campus is Wi-Fi enabled and it is password protected. A separate server is maintained for library Koha software and D-space software.

The Hardware firewall and antivirus firewall system is functional in the campus for all the computers. SeqriteEPS Total Security antivirus software is installed in all the computers. To avoid access to unrecognised website, Web filtering option is on to all the computers. Budget is sanctioned for upgrading IT facilities and it is varied as per requirements of the users.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

4.3.2 - Number of Computers

165

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

File Description	Documents
Upload any additional Information	No File Uploaded
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)

21.7

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

BNBCS follows the rules and regulations governed by the UGC and University of Mumbai. The college premise is under the surveillance of CCTV camera.

The administrative office is a facilitator for providing services to the stakeholders. A define set of rules are displayed on the website for students enquiries such as concession, scholarship, admission process, Migration, Transfer certificate, Transcript etc. The technical details related to teaching and non-teaching staff are also maintained by office like appointment order, promotion, job advertisement, service book maintenance, salary related queries etc.

For computer related difficulties an online complaint register is maintained on <https://vpmthane.org/helpdesk/> Required software for computer safety is updated time to time.

Maintenance of buildings, laboratory equipment, Air conditioner, water cooler & purifier, telephone, UPS supply is done regularly.

Regular updating in infrastructure is taken place and old equipment, electronic gadgets are sent for scrap with prior permission from College Development Committee.

Cleaning of (entire college premises) classrooms, corridors,

laboratories, gymkhana etc. is done daily and periodically pest control is also conducted. Sanitisation at regular interval, sometime daily sanitization is conducted in COVID-19 pandemic.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://vpmthane.org/helpdesk/

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

640

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	View File
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

4

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. All of the above

File Description	Documents
Link to Institutional website	https://www.vpmthane.org/BNB/5.1.3.aspx
Any additional information	No File Uploaded
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

1135

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

1135

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent mechanism for timely redressal of student

A. All of the above

grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	No File Uploaded
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	No File Uploaded

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

1

File Description	Documents
Self-attested list of students placed	No File Uploaded
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

174

File Description	Documents
Upload supporting data for student/alumni	No File Uploaded
Any additional information	View File
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

25

File Description	Documents
Upload supporting data for the same	View File
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

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 year

5.3.1.1 - 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 year.

19

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

Student council was not formed due to COVID lock-down. However, students contributed significantly in various college activities.

Secretaries of cultural committee, gymkhana, NCC, NSS; Secretary and Jt. Secretary of magazine committee, Jt. Secretary of cultural committee and NSS and the class representatives played remarkable role to plan, manage and execute various institutional, community and out-reach activities, that required personal connect and interpersonal skills. Sense of responsibility and 'decision making' were inculcated in students while organizing various events.

In spite of the lock-down period, the young enthusiastic work force of BNBCS worked tirelessly, serving the Nation in these demanding situations of pandemic. Under the leadership of BNBCS-NCC and NSS secretaries, BNBCS could collect 669 units of blood, indicating the humongous efforts put in by each one of them. BNBCS NCC unit was also actively involved in the 'National Pulse Polio Mission' and 'Cowin Vaccination Drive against COVID-19'.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year**30**

File Description	Documents
Report of the event	View File
Upload any additional information	No File Uploaded
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	View File

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

The college has its registered alumni association "Anubandh" under the Vidya Prasarak Mandal trust. The committee plans and executes various activities for students' benefit. Alumni also are part of different committees and provide valuable suggestions.

During the lockdown period, various online activities were organised by Alumni Association. The topics covered guest lectures on various topics: National Education Policy, Immunity Checkbox, "Life in Indian Army", six sessions of career guidance lecture series, Five Day Workshop on "Statistics in Day to Day life" for newly admitted students in FYBSc., seven sessions of competitive exam guidance, Dr. V. N. Bedekar Colloquium Lecture by Ms. Clara Correia on 'Wetlands- Our Lifeline, talk by alumni Ms. Elizabeth Talker and Ms. Judith Talker on their recently published research work in a research journal of high repute.

BNBCS alumni thus contribute significantly to the development of the college by monetary as well as non monetary means.

File Description	Documents
Paste link for additional information	https://www.vpmthane.org/BNB/AQAR20-21/5.4.1.pdf
Upload any additional information	No File Uploaded

5.4.2 - Alumni contribution during the year (INR in Lakhs)

E. <1Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

Institute's vision and mission are aimed at academic leadership. The institute makes conscious and systematic efforts to help percolate decision-making power to the lower levels of the institutional hierarchy. There are 54 need-based committees based on effective leadership formed by the college to decentralize administration. Institute has developed the library as one of the best information resource centre. The college has an environment-friendly campus. IQAC conducts an annual internal academic and administrative audit to assess the performance. Departments and committees follow the academic calendar of the institution. Institute encourages the students to participate in sports and cultural activities. The college encourages the staff and students to participate in/organize seminars, workshops, and conferences. Being a science college has created an environment for staff and students to publish research papers. Decentralization has resulted in improved participation of the faculty as well as greater transparency and accountability. Statutory committees work towards the improvement and sustenance of quality. Vice Principals assist in administration. All stakeholders are involved in keeping pace with the vision and mission of the college. As a part of participative management, for the smooth functioning of the institution, representatives from students, non-teaching staff, and alumni in various bodies are involved.

File Description	Documents
Paste link for additional information	https://www.vpmthane.org/BNB/home.aspx
Upload any additional information	No File Uploaded

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

The college has adopted a decentralized and participative style of leadership under which day-to-day governance gets scrutinized through committee-based decisions. Representation of teachers in administrative committees and finance were encouraged to provide necessary inputs so that the recommendations arrived at such deliberations and meetings get converted into concrete action. The recommendations of these specialized internal committees were subsequently considered and monitored by the College Development Committee (CDC) for further implementation. Such steps gave clear goals and brought a positive culture of belongingness among the faculty members, resulting in vast improvements in the college governance. Admissions in the college were scrutinized and done through the online mode. Accounts of the college are audited regularly by the external auditor. Academic-related matters such as attendance of students, question papers setting, conduction, and evaluation of internal tests, preparation of course material, and monitoring syllabus coverage are done independently by the departments. Mentoring students and arranging special classes for slow learners were done very effectively. The staff and other stakeholders help to inspire in a positive attitude that leads to increased efficiency, improved communication, heightened morale, motivation, and job satisfaction.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Curriculum Development:

The institution has successfully deployed its strategic plan

efficiently. Facilities such as infrastructure, a library with digital learning resources, value-added programs, and a gymkhana are provided by the college. The Strategy deployed is the academic plan of the institute under which various committees address the quality of both academic and extra-curricular activities. The committee at departmental level ensures equality in the distribution workload to the teachers. This committee also decides on remedial classes through which academic assistance provided to students.

Following are the committees of the college:

Mentor cell: This committee assigns a mentor for every student. The mentor gives guidance and provides support to the students. It helps a mentor to identify the personality of different students to evaluate and counsel them.

Examination Committee: This committee is responsible for conducting internal tests and external university examinations in the institute. The committee is also authorized to make a policy decision regard to organizing and holding examinations.

Discipline Committee: This committee effectively addresses all issues related to students matter in the college. Disciplinary actions are initiated against violators, if required.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

The institute always strives toward excellence. The academic calendar of the year was outlined at the departmental level in coordination with IQAC, administrative, and extracurricular activities coordinators. Roadmap of the activities, strategic planning, verification, feedback, and validation addressed in the meetings at regular intervals. The proposals and recommendations are put forth in CDC meetings for approval. After consultation with all concerned authorities and stakeholders, designed policies

are implemented. The post of Vice-Principal was devised to deal with day-to-day activities and the functioning of the college. The Core competencies were reviewed periodically by a higher authority under IQAC through internal and external audits and feedback systems. The management appointed faculties as per workload and support staff as per demand by obeying service rules.

The college functions through various committees headed by the principal and coordinated by the IQAC and makes decisions related to workload, purchase of learning resources, timetable, admissions, calendar of events, organizing various activities involving more of the principal is in charge of all the three departments, Library and Administration office, etc. The various departments and the other committees are steered by the respective heads of the department and coordinators.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	Nil
Upload any additional information	No File Uploaded

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	No File Uploaded
Screen shots of user interfaces	No File Uploaded
Any additional information	No File Uploaded
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff

VPM plays a significant role in employee well-being and welfare. The cafeteria on the college campus is operational during working and extended hours. The food is served as per the guidelines of FSSAI. Staff members have access to free Wi-Fi on campus. The support staff is encouraged to participate in skill development courses to improve their abilities in the workplace. Jobs on compassionate grounds to family members of the support staff are provided. Staff members are motivated through counseling sessions to build a healthy working environment. Financial assistance is offered to faculties to present their research work on national and international platforms. Medical facilities are provided to employees in the act of medical crisis. Workspace, digital support, parking, and Smart Identity cards play a smooth role in the functioning the college. The college provides equal opportunities to female staff members to flourish and acquire momentum. The participative and encouraging policy of the college administration enhances the progress at regular intervals. COVID Vaccination Drive for students and staff also conducted. Faculty members are encouraged to participate in Faculty Development Programmes (FDP). Interest free festival advances are provided to staff. Cooperative society ensures serving and meeting financial emergencies.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

52

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year**6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year****11**

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	No File Uploaded
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)**6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year****6**

File Description	Documents
IQAC report summary	No File Uploaded
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	No File Uploaded
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

Teaching Staff:

Academic Performance Indicator (API): The faculty members fill the Academic Performance Indicator (API) format at the end of the academic year. The proforma of API devised by the UGC has been used. Teaching staff first opt for their API scores, then the principal will finalize the scores based on the documental evidence submitted by the faculties. Based on the API score the faculty were encouraged to take up more initiatives in their respective areas of inclination and passion.

Academic Audit: Academic audit is conducted every year by the IQAC. Expert committee of the senior faculty constituted to examine the performance. The committee will assess the performance of each department. The staff are intimated about their shortfalls/gaps at exit meeting. They are advised to improve further if required.

Student feedback: At the end of every academic year, students' feedback is taken to assess the performance of the faculty.

Performance Appraisal for Non-teaching Staff: The Principal directly monitors the non-teaching staff and regularly conducts meetings to supervise the administrative and financial aspects such as fee collection, scholarship status and administration tasks.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

The financial management and resource mobilization is monitored by the college. It includes financial best practices in the deployment of resources making creative and effective use of resources, with the effective use of information technology infrastructure. The resource mobilization Policy seeks to guide the college's efforts toward building strong finance. The resources are required for various purposes like administration, academics, extracurricular activities, research, infrastructure, development, and maintenance. College mobilizes resources from academic fees, transfer fees, migration fees, etc. Another source of finance is sports fees, Government grants for NSS, and fees for PG courses. Other sources of interest from Bank accounts, Interest for FD, and Reinvestment of accrued interest. Quotations are sought from vendors, genuine ones are identified and the Chairman's approval is taken before finalizing the vendors. The final approval authority for any financial transaction is the Chairman. Both the internal and external auditors check the payrolls, attendance, Form 16, TDS deduction, documentation of tax proofs, etc. To ensure proper and optimum use of the resources strict budgetary control on expenditure is exercised as per the provision of the act.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.4.2 - Funds / Grants received from non-government bodies, individuals, philanthropers during the year (not covered in Criterion III)

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

20888

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The central source of income is fees collection from students. If any deficit arises will meet funds from the management.

The management has been spending an enormous amount on developing the required infrastructural facilities for various departments, administrative offices, lab equipment, library, canteen, and sports.

Fees:

Fees are charged as per the university and government norms from students of various granted and self-financed courses.

Salary Grant:The College receives a salary grant from the State Government. For this, we prepare and send an annual budget of the estimated salary grant required to the state government. This grant includes salaries of the Full-Time Permanent teachers and non-teaching staff as well as part-time teachers working on granted posts.

UGC Grants:Our College is under 2F and 12B as per the UGC Act and Permanent Affiliation of the University.

The institution set up a UGC Committees per the directions of the UGC given in the XII Plan. Regular audits from the Chartered Accountant checks the mobilization of the resources. The timetable committee looks after the proper utilization of classrooms and laboratories. Botanical garden is maintained by the Department of Botany.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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

The college attempts to focus on quality through its innovative, comprehensive, and flexible educational approach.

1. Improvement in quality of teaching and research by inputs based on feedback from students.
2. Providing inputs for best practices in administration for efficient resource utilization and better services to students and staff.
3. Encourage the faculty to attend Faculty Development Programs, Orientation Programs.
4. Motivating the students to undergo online certification and career guidance programs.
5. Continuous assessment of students through mentoring, examination results, curricular and co-curricular activities.
6. The students are aware of available services such as Canteen, Gymkhana, Library and Reading rooms, NSS, NCC, Cultural, DLLE, etc.
7. Providing inputs for Academic and Administrative Audit and analysis of results for improvement in areas found weak.

The Institute IQAC meets every month/week. IQAC prepares, evaluates, and recommends the following for approval by the relevant Institute and Govt. statutory authorities:

(a) Annual Quality Assurance Report

(b) Self-Study Reports of various accreditation bodies (ISO 9001:2015, UGC 12b, NAAC, NIRF, RBNQA)

(c) Performance Based Appraisal System for Career Advancement Scheme (CAS)

(d) Stakeholder feedback

(e) Action Taken Reports

(g) New Programmes as per National Missions and Govt. Policies

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

The IQAC reviews and takes steps to improve the quality of the teaching-learning process. The institution follows the academic calendar released by Affiliated University. Each department functions according to the teaching plan, course plan prepared at the department level. IQAC provides the benchmark for various academic and administrative activities. It imparts knowledge through teamwork and persistent efforts. These activities promote a good relationship with the industries and society in appointing experienced and expert faculty to upgrade their expertise in their concerned areas. It also ensures the timely, efficient, and progressive performance of academic and financial tasks. Departments prepare their action plan in alignment with University's academic calendar. The action plan includes major routine tasks for timely execution of the teaching/learning activities such as conducting meetings, periodical student feedback, etc. Course allocation is made based on the choice/expertise of the faculty members. Faculty members use various pedagogical methods for an effective teaching-learning process. Methodologies and strategies are set by faculties to support slow learners and encourage bright students. The mentors monitor the progress of their mentees.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. All of the above

File Description	Documents
Paste web link of Annual reports of Institution	Nil
Upload e-copies of the accreditations and certifications	No File Uploaded
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

BNBCS has facilities to ensure safety and security of women learners. The campus is under the CCTV surveillance and Security guards are present at both the college gates to ensure a secure and safe environment for stakeholder. Female students have separate common room. Separate toilets on each floor for male and female members, toilets and common room facility along common staff room and departmental staff room is provide by the College.

College truly believes in gender equity and hence conducts and promotes several activities through various committees. BNBCS is geared toward sensitizing the students in gender equity as they

are going to be the future stakeholders of our country.

To celebrate women hood in a unique manner by paying tribute to Indian Women Entrepreneurs, "Nav-Udyojika" campaign was organised. No rape campaign, poem competition on theme of Women empowerment was organized through NSS as a part of Navratri celebration.

On account of Women's Day, an online debate competition was organised by WDC.NSS committee had organized a survey based on difficulties faced by women in terms of gender discrimination at home or at workplace. on 26th March 2021, NSS organized webinar by Chief Guest Mrs. Sucheta Acharya on "Women empowerment".

File Description	Documents
Annual gender sensitization action plan	Nil
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	Common room, Security Surveillance

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

E. None of the above

File Description	Documents
Geo tagged Photographs	No File Uploaded
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

In the college campus, solid waste garden waste, from the planted trees, maintained gardens and pathways throughout the campus is fed to the active four chambered Bio-compost unit for composting. This is done on regular basis, which not only dispose-off the waste in eco-benign manner but also generates bio-compost which is

again applied to trees and plants in the garden there by reducing the additional cost and impacts of chemical fertilizers.

Some part of this waste is also used in a small scale vermicomposting unit maintained by Department of Environmental Science which also produces the organic manure.

Due to lockdown biomedical waste generation in laboratories and chemical waste generation was negligible this year.

Due COVID lockdown, the other regular activities like, e waste collection drive, plastic waste collection and disposal activities could not be conducted in 2020-21.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	No File Uploaded
Geo tagged photographs of the facilities	No File Uploaded

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

- 1.Restricted entry of automobiles
- 2.Use of bicycles/ Battery-powered vehicles
- 3.Pedestrian-friendly pathways
- 4.Ban on use of plastic
- 5.Landscaping

B. Any 3 of the above

File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	E. None of the above
--	-----------------------------

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading	D. Any 1 of the above
---	------------------------------

File Description	Documents
Geo tagged photographs / videos of the facilities	No File Uploaded
Policy documents and information brochures on the support to be provided	No File Uploaded
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

BNBCS strives to achieve an inclusive environment where students of different cultural, regional or socioeconomic background feel supported. Such an environment fosters a sense of belonging among students irrespective of their diversity. Several activities are executed in college to promote a harmonized environment.

Objectives

Activity

Details

Commemoration of the Father of the nation

Bhajan Sandhya on the birth anniversary of Mahatma Gandhi

2nd October 2020.

To harmonize Body and mind, To bring communal harmony

International Yoga Day

21st June 2020

To celebrate World Poetry Day

Poetry Competition

21st March 2021

To spread awareness, and for communal harmony

Martyrs' Day,

30th January 2021

In order to appreciate and recognize the contribution of teachers towards society

Teachers day celebration

Virtual platform

5th September 2020

Chhatrapati Shivaji Maharaj Jayanti

19th February 2021

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	No File Uploaded

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

The mission of the college is to mould students into rational thinkers, competent worker and socially aware citizens. BNBCS focuses on inculcating scientific temperament among students. With the aim of sensitizing students and staff towards their constitutional values, rights, duties and responsibilities as citizens of India, several activities are conducted throughout the academic year.

BNBCS enthusiastically celebrates several milestones of Indian democracy like Independence Day, Republic day and Constitution Day.

On the occasion of Constitution Day, NSS along with NCC UNIT of B.N.Bandodkar College of Science Thane, organized an event on specifying importance of our constitution and its rights and duties on 26.11.2020.

NSS cell, University of Mumbai, organized an online lecture on the occasion of constitution day on 26.11.2020

Cleanliness is one of our primeresponsibilities as a citizen. To promote this value of cleanliness, several cleanliness drives were conducted. NSS volunteers have carried out a Cleanliness Drive event on 30.03.2021.

In order to spread awareness about the importance of water conservation, on 22nd and 23rd March 2021 an Online Quiz Competition was organized. NSS unit also performed a Survey on Water Crises on 18.03.2021

NCC UNIT also organized an Awareness Program on World No Smoking Day on 11.03.2021

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://vpmthane.org/BNB/Activity12.aspx
Any other relevant information	Nil

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized

C. Any 2 of the above

File Description	Documents
Code of ethics policy document	No File Uploaded
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	No File Uploaded
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

BNBCS enthusiastically celebrated several milestones of Indian democracy like Independence Day, Republic day and Constitution Day. Birth anniversaries of great Indian personalities like Lokmanya Bal Gangadhar Tilak, Dr. Sarvapalli Radhakrishnan, Dr. A.P. J. Abdul Kalam, , etc. were celebrated. Institution celebrated international book Day, World water Day as well, besides women's day celebration.

?.??.

??????

Commemorative Events

1

1/08/2020

Lokmanya Bal Gangadhar Tilak Birth Anniversary

2

1/08/2020

Annabhau Sathe Birth Anniversary

3

5/09/2020

Dr. Sarvapalli Radhakrishnan Birth Anniversary

4

5/09/2020

Teachers Day

5

15/10/2020

Dr, A. P. J. Abdul Kalam Birth Anniversary

6

31/10/2020

Sardar Vallabh bhai Patel Birth Anniversary

7

31/10/2020

Indira Gandhi Death Anniversary

8

11/11/2020

Moulana Azad Birth Anniversary

9

22/12/2020

Shrinivas Ramanujan Birth Anniversary

10

23/01/2021

Netaji Subhash Chandra Bose Birth Anniversary

11

30/01/2021

Mahatma Gandhi Death Anniversary

12

27/02/2021

V. W. Shirwadkar Birth Anniversary

13

12/03/2021

Hon, Yashvantrao Chavhan Birth Anniversary

14

22/03/2021

World Water Day

15

23/03/2021

Shahid Diwas

16

3/04/2021

Chhatrapati Shivaji Maharaj Death Anniversary

17

23/04/2021

World Book Day

18

28/05/2021

Vinayak Damodar Savarkar Birth anniversary

19

26/06/2021

Rajashree Shahu Maharaj Birth Anniversary ?????

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	No File Uploaded
Geo tagged photographs of some of the events	No File Uploaded
Any other relevant information	View File

7.2 - Best Practices

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

1. Empowerment of the students, for the students, by the students

To promote pro-social character in students including stronger faculty-student interactions, peer relationships, leadership development, team building and community service

In order to provide comprehensive education to generate socially aware citizens with human values. BNBCS thought of students as partners who are encouraged to get involved in designing and organizing various enriching events for peers.

During the lockdown senior faculties selected student representatives who were guided and trained to participate and organize activities/events using the online platforms. Progressively these leaders started taking ownership of activities that was instrumental in boosting holistic development of students through experiential learning.

2. Focused preparatory sessions prior to cocurricular competitions

To make students aware about the formats and specific requirements of different academic competitions. While students are taking part in various regular annual competitions, if they are made aware of competition, the criteria of judging, knack of better scoring to enhance chances of winning can increase significantly

Faculty at BNBCS made focused efforts to train participants of

various competitions through special group guidance sessions by previous winners, one on one interactive sessions. During the sessions a mock competition is conducted through which the students acquire various skills like presentation, query handling, quick connect, challenging one's ability.

File Description	Documents
Best practices in the Institutional website	http://www.vpmthane.org/BNB/Best%20Practices.aspx
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

BNBCS envisions providing quality education in science. Faculties of BNBCS believe that Research and knowledge updating is the indispensable component of science community. During the lockdown period Research Committee and Department of Library organised a webinar series "Inquisitive mind" for researchers during 14th May to 11th August 2020. This interdepartmental activity was an effort to engage researchers with effective use of online platform. An effort to answer, frequently asked questions that we come across in research, was the motive. Total 12 experts including in-house faculty members as well as personalities from esteemed organizations conducted these sessions for the benefit of young researchers and motivated college faculty members as well. Another focused effort was in the form of five Day Webinar on 'Empowering Young Minds: Building A Research Trajectory' hosted by Research Committee and Department of Library during 27th to 30th October 2020

Students were motivated to work on mini research projects and also to participate in University research convention Avishkar.

Pandemic driven lockdown did not stop the spirit of faculty members to bring about multifaceted academic enrichment of students. Dr. V. N. Bedekar memorial colloquium lectures, national conference, competitive examination guidance sessions, subject specific guest lectures and webinar ensured learners' uninterrupted engagement.

File Description	Documents
Appropriate web in the Institutional website	No File Uploaded
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

Plan for the year 2021-22

1. To host National conference "Microbiome: The Story Untold" and two preparatory workshops
2. To conduct sessions through research committee for benefit of research scholars and faculty members
3. To participate in university research convention Avishkar
4. To upgrade library with e resources
5. To design skill development courses for students
6. To conduct Training sessions for Teachers and IQAC members
7. To involve students in Social activities with remarkable community impact.
8. To apply for various awards
9. To apply for ISO 9000-21000 for quality benchmarking
10. To motivate faculty for patent filing