



YEARLY STATUS REPORT - 2021-2022

Part A

Data of the Institution

1.Name of the Institution		B. N. BANDODKAR COLLEGE OF SCIENCE (AUTONOMOUS) THANE
• Name of the Head of the institution		DR. M. J. KOLET
• Designation		PRINCIPAL
• Does the institution function from its own campus?		Yes
• Phone No. of the Principal		9004690471
• Alternate phone No.		02225337672
• Mobile No. (Principal)		9820113152
• Registered e-mail ID (Principal)		prinbnb@vpmthane.org
• Address		Jnanadweep, College Campus, Chendani Bunder Road
• City/Town		THANE
• State/UT		MAHARASHTRA
• Pin Code		400601
2.Institutional status		
• Autonomous Status (Provide the date of conferment of Autonomy)		01/08/2020
• Type of Institution		Co-education
• Location		Urban

• Financial Status	UGC 2f and 12(B)				
• Name of the IQAC Co-ordinator/Director	DR. MRS. VINDA MANJRAMKAR				
• Phone No.	02225336507				
• Mobile No:	9892071298				
• IQAC e-mail ID	iqacbnb@vpmthane.org				
3.Website address (Web link of the AQAR (Previous Academic Year)	http://vpmthane.org/BNB/Aqar_20-21.aspx				
4.Was the Academic Calendar prepared for that year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	http://vpmthane.org/BNB/Activities/2021/Calendar_21-22AQAR.pdf				
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 Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?					

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	FIST	DST	01/01/2013	3950000
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	STAR	DST	01/01/2015	2900000
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	CPE	UGC	01/01/2017	1020000
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	SOCIAL WELFARE OFFICE	SOCIAL WELFARE OFFICE	01/01/2020	2804802
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	JT DIRECTOR OF HE OFFICE	JT DIRECTOR OF HE OFFICE	01/01/2020	117800
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	OTHERS	OTHERS	01/01/2020	24287
VPM'S B N BANDODKAR COLLEGE OF SCIENCE THANE	BOOK BANK GRANT	UNIVERSITY OF MUMBAI	01/01/2020	99300

8.Provide details regarding the composition of the IQAC:

<ul style="list-style-type: none"> • Upload the latest notification regarding the composition of the IQAC by the HEI 	View File	
9.No. of IQAC meetings held during the year	08	
<ul style="list-style-type: none"> • Were the minutes of IQAC meeting(s) and compliance to the decisions taken 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.Did IQAC receive funding from any 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.Execution of online examination by using proctoring software of Eklavya 2. Initiation of ISO audit IS/ISO 21001-2018 for enhancement of overall quality of institute 3. Restructuring of IQAC and training for well acquaintance of autonomy 4. Channelizing Career Advancement Scheme (CAS) through formation of special committee 5. Participation in NIRF ranking.</p>		
12.Plan of action chalked out by IQAC at 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	<p>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</p>	

13.Was the AQAR placed before the statutory body?	Yes				
<ul style="list-style-type: none"> Name of the statutory body 					
<table border="1"> <tr> <td>Name of the statutory body</td> <td>Date of meeting(s)</td> </tr> <tr> <td>College Development Committee</td> <td>11/02/2023</td> </tr> </table>	Name of the statutory body	Date of meeting(s)	College Development Committee	11/02/2023	
Name of the statutory body	Date of meeting(s)				
College Development Committee	11/02/2023				
14.Was the institutional data submitted to AISHE ?	Yes				
<ul style="list-style-type: none"> Year 					
<table border="1"> <tr> <td>Year</td> <td>Date of Submission</td> </tr> <tr> <td>2022</td> <td>19/12/2022</td> </tr> </table>	Year	Date of Submission	2022	19/12/2022	
Year	Date of Submission				
2022	19/12/2022				
15.Multidisciplinary / interdisciplinary					
<p>Human Science is stand alone subject which is multidisciplinary.</p> <p>Interdisicplinary courses run by the College as part Undergraduate courses. This course is offered as an elective course by college upto SYBSc level.</p> <p>(http://vpmthane.org/BNB/Syllbus_FYBSc.aspx)</p>					
16.Academic bank of credits (ABC):					
<p>Academic bank of credits will be complied on phasewise completion of Autonomy which commences from FYBSc to TYBsc</p> <p>From 2021-22 FYBSc syllsbus revised under autonomy</p> <p>From 2022-23 SYBSc syllsbus will be revised under autonomy</p> <p>From 2023-24 TYBSc syllsbus will be revised under autonomy respectively.</p> <p>Link http://vpmthane.org/BNB/AQAR21-22/syllabus_revision_policy21-22.pdf </p>					
17.Skill development:					

1. The Art of Writing Research Papers in basic and applied sciences.
 2. Workshop on Creative Writing -
 3. Seminar: on How to Develop Your Profile for a Good Career and Resume writing -
 4. Workshop on Home-scale Preparation of Jam, Squash & Syrup -
- <https://www.vpmthane.org/bnb/Activity13.aspx>

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

1. Integration of Indian knowledge system course is added in FYBSc to study Indian Science and Scientists.
 2. Students visit Oriental study centre owned by Vidya Prasarak Mandal (Prachya Vidya Sanstha) Thane.
 3. Study of culture, heritage of India is integrated in Syllabus.
- http://vpmthane.org/BNB/Syllbus_FYBSc.aspx

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

During the academic year 2021-22, first year syllabus approved by the college academic council, designed by college board of studies was implemented. While the second and third year for all programs, earlier syllabus of University of Mumbai had been retained. Course outcomes are stated in the syllabus formed by the respective Board of Studies.

Reform in second year syllabus was done by respective departmental BOS committee which was sanctioned in the college academic council to be implemented the academic year 2022-23. Course Outcomes for second year courses offered by college were defined while framing of the syllabus.

PO and COs are uploaded on college website.

Syllabus copies are available in the college library as well as uploaded on the college website. Induction lectures are conducted by 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 and explains the course outcomes in the lecture

20.Distance education/online education:

The college offers BLISc, MLISc and Diploma in Journalism courses in marathi language affiliated to Yashwantrao Chavan Maharashtra Open University (YCMOU) Nashik since 1999. Since 2019, BCA and MCA courses are offered. Mumbai University Distance Education, IDOL courses for IT subject is also available since 2010.

As a part of internal examinations, for UG courses students complete Online courses

on

https://www.open.edu/openlearn/?gclid=CjwKCAiA0cyfBhBREiwAAAtStHNIgfwil_nrr2ivG0ci7yLr7QGuN5RYNZyMsZ7tCDpyPb5qMtbxO3xoChlcQAvD_BwE

Extended Profile

1.Programme

1.1 26

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 1885

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 703

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3

1867

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1

13

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2

50

Number of full-time teachers during the year:

Extended Profile

1.Programme

1.1 26

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 1885

Total number of students during the year:

File Description	Documents
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2.2 703

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 1867

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1 13

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	50
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3	50
Number of sanctioned posts for the year:	
4.Institution	
4.1	284
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	21
Total number of Classrooms and Seminar halls	
4.3	161
Total number of computers on campus for academic purposes	
4.4	1100252
Total expenditure, excluding salary, during the year (INR in Lakhs):	

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

BNBCS became autonomous during academic year 2020-2021. College adopted policy of 'Step-wise' revision of syllabi'. For syllabus revision, intellectual inputs were provided by subject experts, alumni, industry representatives of BOS. All S.Y.B.Sc. and F.Y.B.Sc. syllabi were revised as per norms. The main highlight of F.Y.B.Sc. was addition of 'History of Science' which involved ancient Vedic Science and emphasis on significant contribution of

modern Indian Scientists in respective fields. Thereby helping to ignite interest about basic sciences and their applications in day-to-day life. Similarly revised syllabi of S.Y.B.Sc. were developed by incorporating topics of deep conceptual learning. Two new programmes (M.Sc. Data Science and M.Sc. Clinical Psychology) were introduced to enhance global competence. POs, PSOs and COs are reflective of the same and documented in revised syllabi and college website. Total 13 existing certificate courses were upgraded under autonomy and 16 new courses were introduced. These courses were framed to meet requirement of domestic relevance and its implication in changing era of academics and socio-economics.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	http://vpmthane.org/BNB/Criterion1_21-22.aspx

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

12

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

137

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

16

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

21

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

BNBCS offers quality education in almost all fields of science

which intended to holistic development of students. One of the UG-programs on 'Human Science' is pertaining to diverse facets of Human life. It involves topic like Human psychology, Social-Ethical-Legal behaviour, Gender Sensitization, Professional ethics and environmental laws. Remaining UG-PG programs based on biological sciences comprehensively discuss about 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 green environment. In addition to this, UG-PG programs of physical and chemicals sciences stressed about renewable energy generation, environmental laws related to industries and waste management/treatment. Certificate courses along with series of expert lectures also aware about cross-cutting approach. These curricular topics enhance knowledge and sow seed of critical thinking among students. In addition to regular curricula, awareness programmes through schemes of WDC, DLLE, NSS-NCC (motivational lectures, workshops, competition, vaccination drive, Blood donation camp, beach cleaning, e-waste and utility articles collection drives) help in strengthening rational attitude of students to deal with odd events pertaining to education, family, profession and environment.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

13

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

662

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

244

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	http://vpmthane.org/BNB/Criterion1_21-22_1.4.1b.aspx
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	http://vpmthane.org/BNB/AQAR21-22/1.4.2.AT R.pdf
Any additional information	No File Uploaded

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

1885

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

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

284

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 students' learning levels and organises special programmes for both slow and advanced learners.

Students learning level is assessed based on academics, extracurricular and co-curricular activities. Parent's feedback, continuous internal evaluation by teachers, students-teachers interaction, helps to identify slow and advanced learners.

Advance learners are provided with the opportunities to play the leadership role in Student Council. They are given exposure to project-based learning through science festivals. Movie club and journal clubs are formed and Internship programs are arranged to

boost the interest of students in research and provide the industrial experience. They participate in the university research convention "Avishkar" and are guided to publish research papers in journal as well as to present papers in conferences. Special motivational lectures are arranged under Innovation Corner. They are provided guidance for competitive and entrance examinations for post graduate education in India as well as in abroad.

Remedial classes, extra lectures and practical are conducted for the slow learners as and when required. They are boosted to participate in academic fest, extracurricular and Co-curricular activities and competitions at various levels. They are also been given attention by the mentors to help them to overcome academic problems and the other social or psychological difficulties. Various motivational webinars are arranged by the departmental clubs and committees for students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://vpmthane.org/BNB/Criterion2_21-22_2.2.1.aspx

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/08/2021	1885	50

File Description	Documents
Upload 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, being the pure science college, each subject has a practical component in the course. Most of the topics are experienced by the student through the experiments in the laboratory. Students learn the required skills to create, perform, observe, analyse, conclude, and relate the concepts. They understand the significance of the laboratory experiments in

relation to the societal demand. In online mode simulations, videos, short films are used to explain the practical applications of their subjects. In addition to this, students participate in various camps, rallies, social drives, street plays under NCC and NSS.

Students participate in group discussion, question-answer session, problem-solving sessions, blended and flipped classroom, peer led learning actively while learning the subjects. They participate in organising various departmental activities like academic fest, conference, seminar, and workshop. They participate in various intercollegiate competitions. Students play significant role in cocurricular and extra-curricular activities like Cultural, DLLE, NCC, NSS and sports. They are also given the opportunity to express their feed-back on the curriculum as their involvement in democratic decision-making.

Students in groups take-up the research problem, projects, and case studies. They cooperate and coordinate to each other, plan and perform the experimental work under the guidance of teacher.

File Description	Documents
Upload any additional information	View File
Link for additional Information	http://vpmthane.org/BNB/Criterion2_21-22.a_spx

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

To enhance the learning abilities of the students, teachers adopted ICT enabled tools as one of the methods of teaching. Online classes were scheduled on Google meet, Microsoft teams or Zoom platforms. In Online lectures various tools like power point presentation, animations, Excel, one note, white board, Edmodo, storyboard, Ed puzzle, XP Pen, Open Board, app for Python programming, R software, GeoGebra software were used. In certain cases, general and educational YouTube videos were shown to explain the concepts in the subject. The virtual experiments were designed in the laboratory for additional reference for the students. Students are also provided with the simulations for the additional practice. Teachers utilize institutional email id for creating google classroom. The study materials, ppts, videos, recorded lectures and the reference books are shared with the

students on Google Classroom and made available on Digital repository of the college website. For continuous internal evaluation of the subjects Google form, Quizzes were used. E-resources through Knimbus digital platform, web OPAC, digital resources were made available to the students.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	http://vpmthane.org/BNB/Criterion2_21-22.aspx
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

50

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

BNBCS plans the Academic Calendar and activity calendar which includes Terms of college, Semester examination dates, other Curricular, Co-curricular and Extracurricular activities. The calendar is uploaded on college website in the month of April for the next academic year. Head, controller of examination and coordinators of committees hold the responsibility to follow the planned activities and ensure the adherence of the calendar at various levels as per the calendar.

In lockdown situation State government had released guidelines to conduct the examinations to the University. After discussion and meeting with cluster colleges, BNBCS conducted examinations in the framework provided by the university. All circulars, notices, examination time table were displayed on the college website notice board as well as in social media.

Head of the department designed departmental time table at the beginning of the academic year along with all teachers ensuring that there is no overlapping of the activities. Every teacher prepared the teaching plan of the assigned course. All lectures and practical were conducted on online mode. The type and schedule of internal evaluation for isolated subjects were planned in consultation with the Head of the Department and Examination committee.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

50

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

18

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

535

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

32.33

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Ministry of education /university of Mumbai prescribed directives to conduct online examination for the academic year 2021-2022. The examination evaluation process is implemented as per the guidelines. To conduct online examinations, college used Software from "Eklavya". The software ensured proctoring of students and gives warning alerts if any inappropriate act is observed and after two warning examination is terminated for a particular student.

All teachers and students were trained for smooth conduction of examination. The examination was based Multiple Choice Questions pattern with level of options to select easy, medium, and hard questions from exhaustive question bank. The result submitted to examination committee automatically after submission of answer sheet by the students. Practical viva was conducted on online mode in camera by every department.

The Continuous Internal Evaluation (CIE) is based on the overall performance of the student observed through attendance, class test, seminar, group discussion, assignments, quiz based on syllabus topics, tutorials, projects, viva-voce during laboratory sessions and personal interaction etc. The CIE helped the teachers to assess the students for tracking their progress and to hence help to take majors towards improvements.

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

2.6 - Student Performance and Learning Outcomes

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

During the academic year 2021-22, first year syllabus approved by the college academic council, designed by college board of studies was implemented. While the second and third year for all programs, earlier syllabus of University of Mumbai had been retained. Course outcomes are stated in the syllabus formed by the respective Board of Studies.

Reform in second year syllabus was done by respective departmental BOS committee which was sanctioned in the college academic council to be implemented the academic year 2022-23. Course Outcomes for second year courses offered by college were defined while framing of the syllabus.

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Syllabus copies are available in the college library as well as uploaded on the college website. Induction lectures are conducted by 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 and explains the course outcomes in the lecture

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	http://vpmthane.org/BNB/AQAR21-22/1.1.1.g21-22.pdf

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Attainment of POs and COs are evaluated through direct and indirect methods. Direct methods include internal assessment, practical and theory semester end examination which is reflected in grade card on the basis of course credit. Overall CGPI is used to measure the attainment of POs. The grades, corresponding level of attainment and Calculation of percentage attainment for a semester:

Semester V

Grade

Level of attainment

Count

Percentage

O

Outstanding

25

3.81

A+

Excellent

212

32.27

A

Very Good

223

33.94

B+

Good

115

17.50

B

Above average

35

5.33

C

Average

5

0.76

D

Low

0

0.00

F**Very Low****42****6.39****Total****657****100**

Indirect methods include feedback from stakeholders, field visits, internships, industrial trainings, 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

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

700

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	http://vpmthane.org/BNB/Esanyuja.aspx

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 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The institute's research facilities such as laboratories, library and internet facilities are provided to the students for research. Instrumental facilities include a UV-visible spectrophotometer, flame photometer, cathode ray oscilloscope, thermal cycler, viscometer, densitometer and cooling centrifuge. Access to e-books and e-journals was availed through an annual subscription to Knimbus.

Students are encouraged to carry out minor research and curriculum-based projects under the guidance of faculty. To promote staff and students to participate in professional development programs and knowledge exchange by organizing national and international conferences with two preparatory workshops. Science square committee aims to acquaint students with research in a simple and exciting manner. The institute offered Ph.D. programs in Botany, Chemistry, Zoology, Physics and Environmental Science.

The library and research committee organized a series on 'Art of Writing Research Papers' to familiarize the students to the world of research publications, one of the important parts of the research. The college website research page regularly updates details of the research students, research publications, research project grants, and patents published by teachers and students. The institute has its own multidisciplinary journal J-BNB (ISSN 2454-2776) published annually to provide a platform for students and faculty.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	Nil
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

Nil

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

0

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	View File

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

1.90

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

4

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

8

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

3

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	(1). https://mangroves.maharashtra.gov.in/Site/40/Contact (2). https://mu.ac.in/ (3). https://mu.ac.in/ (4). https://mu.ac.in/
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

BNBCS established an environment by encouraging students and teachers to conduct research with a multidisciplinary approach as well as problem-solving research. In 2021-22, students have undertaken research projects, fieldwork, and internships and also volunteering in the large number of events.

Three projects were selected for the final round from the twelve projects presented by students at zonal level of 16th Inter-Collegiate Avishkar Research Convention (University of Mumbai). The first and consolation prizes were won by the college in final round.

Innovation Corner was inaugurated in the month of August 2021, for encouraging the student's innovative ideas and to provide a platform for the students to express their new ideas and discuss current innovations with peers. An activity 'Know the Innovators' was conducted to share important discoveries in the last few centuries.

Two informative sessions were organized to educate the students about IPR and patents that goes hand-in-hand with innovations and inventions. A committee has been formed to work toward the establishment of an incubation unit.

The department of botany organized an 'Online workshop on Home Scale preparation of Jam, Squash and Syrup' and lecture on plant based economy in order to develop the entrepreneurial skill of students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vpmthane.org/bnb/AQAR21-22/3.3.1.21-22.pdf

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

16

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

B. Any 3 of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

4

File Description	Documents
URL to the research page on HEI website	https://www.vpmthane.org/bnb/ResearchCommittee.aspx
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

0.08

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

0.26

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://vpmthane.org/BNB/AQAR21-22/3.4.4_N.pdf

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

48

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

3

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

0

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	View File

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Extension activities are regularly carried out in the neighborhood community through NSS and NCC addressing important issues including say no to drug abuse, awareness for organ donation, Beti Bachao Beti Padhao and also organizing patriotic events. For the benefit of students and staff, awareness programmes have been organized to address issues including cybercrime, mental health, World Heart Day, Cyber Sakhi, voting awareness, traffic safety, women empowerment, and women's defense.

NSS and NCC volunteers contributed in Covid vaccination drive, resource collection drive (clothes and utility articles) and their distribution to the concerned people. Four blood donation camps were organized this year. Sensitization of students with respect to environmental issues was accomplished through a number of events including Puneet Sagar Abhiyan (beach cleanliness drive), Mega E-waste collection, world water day, tree plantation and a street play presented by the students at Mumbai on 'Vasundhara Diwas' to create awareness on hazards of plastic waste. 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 standards. It also helped in bringing hidden personality traits of students which will eventually help them to become a better citizen.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vpmthane.org/bnb/NSS2021_22.aspx , https://www.vpmthane.org/bnb/NCC2021_22.aspx

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

3

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	View File

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

87

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

1885

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

8

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

2

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	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 equipments, etc.

The college is situated in the green campus of 13.5 acres with four other sister institutions. The campus security is assured by an Access Control System integrated with Entrance Control System.

BNBCS physical infrastructure includes 19 classrooms with wi-fi enabled facility, examination room with CCTV surveillance facility, ICT equipped auditorium and seminar room, central library along with 7 departmental libraries, digital repository and common stationary and photocopy center, 10 laboratories for UG, PG and 4 for research students, 5 computer laboratories, 7 LCD projectors, 161 desktop (133 for students & 28 for staff), and 13 laptops.

The academic year 2021-22 was accomplished during an unprecedented lockdown period and most of the teaching learning equipment

remained in non-functional state for a prolonged time. Hence all maintenance related activities were initiated. Sanitisation of buildings, classrooms, laboratories, library and washrooms were executed with top priority. Consecutively surveillance and sorting of laboratory instruments and computing equipment was carried out. Similarly, rejuvenation of the vertical garden and butterfly garden was undertaken.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://vpmthane.org/BNB/AboutCollege.aspx

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

Cultural Activities: For cultural activities, open air theatre , college auditorium with acoustic system is available. For small training programme conference room is also available. Apart from this on the campus, an auditorium of 350 capacity available for cultural events. Cultural committee

Sports activities: Spacious playground is available for outdoor games like volley ball, football, kho-kho, kabaddi etc. For indoor games, Gymkhana is available including games like table tennis, carom, chess and gymnasium for staff and students. Obstacle path for NCC cadets is available.

Vidya Prasarak Mandal has started the Sports complex for campus students. The development of sports complex was initiated and its opening was held on March 2022 at the hands of athlete Ms Lalita Babar, Arjuna Puraskar winner.

Yoga being one of the healthy way for better life, since last 20 years regular Yoga training is conducted in Patanjali Yoga Kendra. A MOU is signed with Ambika Yog Kutir and their trainers regularly train the students and staff. During lockdown, online yoga classes were also conducted.

For cultural, sports and Yoga committee handling, Co-ordinator is appointed for each and every committee for better functioning.

Cultural, sports, NSS, NCC, DLLE and Yoga activities conducted with available infrastructure.

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

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

19

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

11,00,252.00

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

The central library is having different types of print collection includes 32,150 books, 18 national and international journals, 15 magazines, 320 bound volumes. All the bibliographic records of print collection are maintained in Koha software. 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/> .

Considering present need, Knimbus platform is subscribed for accessing e-books, e-journals, e-database. 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. Turnitin Plagiarism software is shared amongst sister institutions. Library committee oversees the functional aspects of library along with administration.

Check-in/out of reading material takes place through online mode in koha. Online claim facility is also made available from central library while students can avail Departmental library facility independently.

Institutional Repository is developed with D-space open access software (<http://dspace.vpmthane.org:8080/jspui/handle/123456789/1>) and it contains information like study material for students, question papers, question banks, proceedings, videos, College Journal J-BNB, Magazine, Prospectus etc.

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

4.2.2 - Institution has access to the following: A. Any 4 or more of the above e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

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

8.44

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

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)**4.2.4.1 - Number of teachers and students using the library per day during the year****26**

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

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The entire campus is Wi-Fi enabled. The college is having 165 computers connected through leased line and MTNL services. All the computers are connected with LAN. An IP address is assigned to every computer by the system administrator. MS Office licence software is installed. Few computers are running on Linux Open Source software. For the security purpose, Antivirus software are procured and installed.

ICT was the backbone during lockdown period. ICT helped all the stakeholders during lockdown. To aware the students about security, safety BNBCS initiated Cybersecurity programmes. MOU with Quickheal foundation

(http://www.vpmthane.org/BNB/AQAR21-22/3.7.2.e_MOU_Quickheal.pdf) was signed and training session for students was conducted. Students institutional email ids were created for education purpose.

The available bandwidth is 50 MBPS from Tata and 50 MBPS Intech online. A separate server is maintained for library Koha software and D-space software.

BNBCS has its own admission, examination and office administration software since 2005 and updated in 2019.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://www.vpmthane.org/BNB/AQAR21-22/3.7.2.e MOU Quickheal.pdf

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
1885	133

File Description	Documents
Upload any additional information	No File Uploaded

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 50 Mbps

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

4.3.4 - Institution has facilities for e-content development:

C. Any two of the above

Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

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

23.39

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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

The whole year was mainly engaged in maintenance and rejuvenation of infrastructure. Sanitisation of buildings including classrooms, library, laboratories and washrooms was carried out on priority basis.

Non-functional equipments, electronic gadgets are sent to scrap (e-collection drive) with prior permission from College Development Committee.

Servicing and maintenance (AMC) of equipment, Air conditioner, water cooler & purifier, telephone, UPS supply was conducted. 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.

Considering future needs, ISO audit was also initiated. IS/ISO 21000:2018 audit is specifically committed for assurance of quality in educational institutes. It evaluates quality in all aspects of process and products of educational institutes for which BNBCS conducted training workshops for staff. Similarly the process flowcharts, standard operating procedures (SOPs) and

calibration of laboratory instruments were introduced. In order to promote eco-friendly practices (paperless office, plastic free green campus), Green Audit was accomplished.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://vpmthane.org/BNB/AOAR/Policy Infrastructure.pdf

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

380

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

04

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	http://vpmthane.org/BNB/5.1.3_21-22.aspx
Details of capability development and schemes	View File
Any additional information	No File Uploaded

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

609

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

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

04

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

168

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

12

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

04

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

The Student Council of BNBCS is established as per Maharashtra public ordinance University act 28 (dated 26th November 2017).

BNBCS Student Council consists of secretary and jt. Secretary of committees such as, cultural, gymkhana, NCC, NSS, magazine, class representatives as invited members; along with senior college authorities. Best cadet of NCC is selected as secretary; while NSS and gymkhana secretary & jt. secretary are selected by inviting applications, scrutiny of applications and interview. Secretary and jt. secretary of magazine committee is selected based on leadership quality. Each department of BNBCS has its own departmental club, wherein all activities are organized by students under the guidance of teachers. Book bank committee and Avishkar coordination committee also have student representative.

The students take responsibility in organizing various events, from celebrating National days, blood donation camps, cleanliness drives, COVID vaccination drive, e-waste and old clothes collection drives, volunteering in college & social events of the city etc., and learn the importance of discipline, teamwork and sincerity in event management.

The Board of Studies of each subject constituted under autonomy also includes one alumni representative who helps in the process of framing and updating the syllabi.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://vpmthane.org/BNB/Criterion5_2021-22.aspx

5.3.3 - Number of sports and cultural events / competitions organised by the institution

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Anubandh: Alumni Association of BNBCS, is a registered body under the Vidya Prasarak Mandal trust. Anubandh is actively involved in the planning and accomplishment of various activities throughout the year for students' benefit and overall development of college.

In the academic year 2021-22, Anubandh has contributed in the holistic development of students by conducting guidance sessions on the topics like interview skills, competitive examinations, Artificial Intelligence, Machine Learning, Basic Leadership Traits for Self-Development and Yoga and Wellbeing. Anubandh has also conducted two-day certificate course on "Awareness on Banking, Insurance and Cyber frauds".

Apart from this, alumni have contributed vastly by involving in various departmental activities, as chief guest for inauguration of departmental clubs, guest speaker for webinars, resource person for workshops, courses, competitive exam & career guidance sessions and Dr. V.N. Bedekar colloquium lectures.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	http://vpmthane.org/BNB/Alumni_Activity21-22.aspx

5.4.2 - Alumni's financial contribution during the year

E. <2 Lakhs

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 an effective leadership in tune with the vision and mission of the Institution

Vision: Imparting Quality Education in Science.

Mission: To mould students into rational thinkers, competent workers and socially aware citizens.

The Institute's goal and purpose are geared on academic leadership. The institute conducts deliberate and systematic attempts to assist trickle decision-making authority to lower levels of the institutional structure. The college has developed 54 need-based committees based on effective leadership to decentralize the greatest information resource centre. The Institute has a computerized library which runs on Koha Open Source Software. IQAC performs an annual internal academic and administrative audit to evaluate performance. Students are encouraged to participate in extra and co-curricular activities by departments and institute. The college fosters and offers seminars, workshops, and conferences for its faculty and students. As a science college, it has fostered an environment in which faculty and students may publish research articles in institutional journal JBNB (Online). Decentralization has boosted faculty engagement, which leads to more efficiency and responsibility. Statutory committees strive for quality enhancement and maintenance. Vice principals help in administration. All stakeholders are involved in keeping the college mission and vision on schedule. Representatives from students, non-teaching staff, and alumni are engaged in several bodies as part of participatory management to make sure the smooth operation of the institution.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	http://vpmthane.org/BNB/AQAR21-22/college_committees_2021-2022.pdf

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The college has maintained a decentralized and participatory leadership structure, with committee-based for evaluating day-to-day governance. Teachers are encouraged to engage in administrative committees to offer required inputs so that the decisions made during such discussions and meetings which could be transformed into significant action. The recommendations of these specialized internal committees are subsequently reviewed and supervised for further implementation by the college development committee (CDC). Such actions established clear goals and foster a sense of belonging among faculty members, resulting in overall improvement in college functioning. Admissions to the college were reviewed and completed online. IQAC organizes the college financial as well as academic audits on regular basis by an external auditors. Academic aspects such as student attendance, question paper formulation, administration and evaluation of internal examinations, course material preparation, and syllabus covering are handled autonomously by the departments. Students are mentored and special classes for slowlearners are organized. Staff and other stakeholders contribute to instil a good attitude, which leads to enhanced productivity, better communication, higher morale, motivation and job satisfaction.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	No File Uploaded
Paste link for additional Information	http://vpmthane.org/BNB/AQAR21-22/6.1.2 Mentor_21-22.pdf

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

BNBCS has continuously taken efforts to meet the strategic action plan decided in 2020-21. National conference and pre-conference workshops were held successfully

[http://vpmthane.org/BNB/Activities/2021/Microbiome_conf_2022.pdf]

. Five days international Webinar Series on 'Art of writing research paper' was conducted http://www.vpmthane.org/BNB/Activities/2021/res_lib_day1_5_2021.pdf. College budding researchers participated in University Research Convention 'Avishkar' and bagged Gold medal and consolation prize. Knimbus Digital platform was subscribed for e-books and e-

journals[<https://vpmthane.knimbus.com/>]. Sixteen new skill enhancement courses were introduced and five were implemented.[http://vpmthane.org/BNB/Syllbus_Certificate.course.aspx]. Remarkable activities such as COVID vaccination drive, blood donation camp, organ donation awareness programme, tree plantation, cloth donation for flood affected regions, e-waste collection drive, etc. were

accomplished.[http://vpmthane.org/BNB/NSS2021_22.aspx].The College ICT professional offered sufficient Microsoft teams and Google Classroom training to enable online lectures to be delivered throughout the Lockdown period. Institutional email ID was provided to students. For examination assistance, EKLAVYA a proctoring software was utilized which would strictly vigil students appearing for online examinations. To get tune with autonomy, Teachers and IQAC members underwent rigorous training sessions. Process of IS/ISO 21001:2018 certification was initiated. Four International and two National Patents were sanctioned, few are awaited. Four UGC-Care research articles, two edited books and seven book chapters were published by the faculty.

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

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

The institute is always striving towards excellence. The academic

calendar for the year was designed at the departmental level in coordination with the IQAC, administrative, and extracurricular activities coordinators. Strategic planning, verification, feedback, and validation are all discussed in frequent meetings. Proposals and recommendations are presented for approval during CDC meetings. Policy is implemented after consultation with all relevant authorities and stakeholders. The position of vice-principal was created to oversee day-to-day operations and the overall operation of the institution. A higher authority within IQAC reviewed the core competencies on a regular basis through internal and external audits and feedback methods and action taken. The management assigned faculty based on workload by conducting interviews adhering to service guidelines. The college operates through various committees led by the principal and coordinated by the IQAC, which makes decisions on workload, the purchase of learning resources, the timetable, admissions, the calendar of events, organizing various activities involving more of the principal is in charge of all the departments, the library, and the administration office, among other things. The numerous departments and committees are led by their respective heads of departments and coordinators by coordination with each other.

File Description	Documents
Paste link to Organogram on the institution webpage	http://vpmthane.org/BNB/AQAR21-22/Organogram.pdf
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

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	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The institution has excellent welfare measures in place for both teaching and non-teaching personnel. VPM plays important role for employee well-being and welfare. On campus, employees enjoy free Wi-Fi access. To strengthen their talents in the job, support staff is encouraged to participate in skill development courses.

Briefing sessions are conducted to inspire young employees to create a healthy working environment. Employees are given with physical check-up, medical facilities in the event of a medical emergency.

Workspace, digital support, parking, and Smart Identity cards all contribute to the seamless operation of the college. Female staff employees are given equal opportunity to thrive and gain momentum at the college. The college administration's interactive and supportive strategy boosts growth at regular intervals. A COVID vaccination drive was also held for students and staff. Faculty are encouraged to take part in Faculty Development Programs (FDP) and workshops by financial support. Staff receive interest-free festival advances. A cooperative society ensures all individuals are served and that financial crises are met.

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

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

11

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 programmes organized by the Institution for its teaching and non-teaching staff during the year

5

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

6

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

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

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	No File Uploaded
Any additional information	No File Uploaded

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

We fill NIRF performa (<http://vpnthane.org/BNB/NIRF.aspx>)

Fees collected from students are the primary source of revenue. If a shortfall emerges, funds will be provided by management. The administration has spent a significant amount of money creating

the necessary infrastructure for various departments, offices, lab equipment, libraries, canteens, and sports.

Fees: Students of various granted and self-financed courses are charged fees in accordance with university and government regulations.

Salary Grant: The State Government provides a salary grant to the College. For this, we create and submit to the state government a yearly budget of the expected salary grants necessary. This award covers the wages of full-time permanent teachers, non-teaching employees, and part-time teachers working on granted positions.

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

The institution established UGC Committees in compliance with the UGC's directives in the XII Plan. The Chartered Accountant conducts regular audits to ensure that resources are mobilised. The scheduling committee oversees the correct use of classrooms and labs. The Department of Botany is in charge of the botanical garden.

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

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

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

1. Improving the quality of teaching and research through student feedback.

2. Contributing to best practise in administration in order to maximize resource utilization and provide better services to students and employees.

3. Encourage teachers to participate in Faculty Development, skill development programme and Orientation Programs.
4. Encouraging students to participate in online certification and career counselling programmes.
5. Ongoing evaluation of students through mentorship, test results, and curricular and co-curricular activities.
6. Students are aware of services such as the Canteen, Gymkhana, Library and Reading Rooms, NSS, NCC, Cultural, DLLE, and so on.
7. Contributing to academic and administrative audits, as well as analysing outcomes to identify areas for improvement.

The Institute IQAC meets every month/week (as and when needed). 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
Upload any additional information	No File Uploaded
Paste link for additional information	http://vpnthane.org/BNB/Criterion1_21-22_1.4.1b.aspx

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

The IQAC evaluates and improves the quality of the teaching-

learning process. Affiliated University's academic schedule is followed by the institution. Each department operates in accordance with the teaching plan and course plan developed at the department level. IQAC serves as a standard for a variety of academic and administrative tasks. It delivers information through collaboration and perseverance. These activities foster positive relationships with industry and society by hiring experienced and competent teachers to enhance their expertise in their respective fields. It also ensures that academic and financial obligations are completed on time, efficiently, and in a progressive manner. Departments schedule their actions in accordance with the University's academic calendar. The action plan contains important routine tasks for the timely execution of teaching/learning activities such as conducting meeting, providing regular student feedback, and so on. Courses are assigned depending on the faculty members' preferences/expertise. For a successful teaching-learning process, faculty members employ a variety of pedagogical strategies. Faculty develop methodologies and tactics to help slow learners and promote bright pupils. Mentors keep track on their mentees' progress.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://vpmthane.org/BNB/AQAR21-22/2.3.3_Mentor_21-22.pdf

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	http://vpmthane.org/BNB/Activities/2021/BNB_Principal_Report_2021-22.pdf
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	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

To promote a world free of bias, stereotypes and discrimination which is a global priority, BNBCS plans various activities for the same. International Women's/ Men's day was celebrated with great gusto in BNBCS. District level celebration of International Women's day was hosted in which 140 women achievers were felicitated. A seminar was conducted on women empowerment to create awareness that women should have an equal opportunity to engage in all sectors of society. To promote gender equity, international and national commemorative days which highlight the contribution of both the genders are celebrated with great enthusiasm. National girl-child day was also celebrated. Rangoli competition was conducted for creating awareness about gender discrimination. BNBCS encourages participation of both genders across all the activities.

BNBCS gives immense importance to the safety of the students as well. The entire campus is under CCTV surveillance and the entry gates are well guarded by security personnel. Separate Common room facility in which a sanitary pad dispensing machine has been installed also available for the female students self-defence workshop was conducted to empower students with essential self-defence tips and manoeuvres from safety specialists.

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

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

D. Any 1 of the above

File Description	Documents
Geotagged Photographs	View File
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 a maximum of 200 words)

Waste management helps to reduce the delirious effects of waste on the environment and human health. The College has an effective waste disposal system. As a part of solid waste disposal system, Separate garbage collection bins for dry and wet waste, are placed at multiple locations in college building and on the campus. This helps in separation of solid waste at the sources using defined (green and yellow) garbage cans. Open discharge / discard of liquid waste is prevented and is discharged through well-maintained municipal sewage system,

E- waste management is the new challenge to public health. Through NSS cell, college conducted E-waste drive in which E-waste was collected in order to reduce generation of hazardous waste, Chemistry department is undertaking "Green Chemistry" approach. In the college, active four chambered Bio-compost unit is made to compost the Bio-waste generated from planted trees in the campus and the other sources. It disposes-off the waste in eco-benign manner and Bio-compost generated is again applied to trees and plants in the garden, thereby reducing the additional cost and impact of chemical fertilizers. On the campus, one Bio-compost is made to decompose the waste which is generated by canteen

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	View File
Any other relevant information	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
Geotagged 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:

B. Any 3 of the above

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

File Description	Documents
Geotagged 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 undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

B. Any 3 of the above

1. Green audit
2. Energy audit
- 3.Environment audit
- 4.Clean and green campus recognitions/awards
- 5.Beyond the campus environmental promotional activities

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
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 a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

C. Any 2 of the above

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

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

Unity in diversity in India signifies the unity among people with diverse cultural, religious beliefs, social statuses, and other demographic factors. Several activities in BNBCS are aimed at encouraging this idea among the students. An inclusive environment fosters a sense of belonging among students irrespective of their differences

Activity

Objective

Date

No. of Participants

Cleanliness drive on Gandhi Jayanti

Commemoration of the Father of the nation

02/10/2021

16

Slogan Competition on caste discrimination

To create awareness about casteism in poor society

12/10/2021

24

Book exhibition on Marathi Bhasha Diwas

To recognise the contribution of various authors in the field of marathi language

28/02/2022

156

Webinar on "Sadrikarantil Marathi" (Marathi in Presentation)

To boost the writing quality of students in the Marathi

03/02/2022

53

Essay Writing and Drawing Competition on World Peace day

To enable the students to express themselves using their creative skills

18th to 21st September, 2021.

57

Webinar on Sadbhavana Diwas

To celebrate the birth anniversary of former Prime Minister of India, Late Rajiv Gandhi

20/08/2021

67

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

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

With the aim of creating awareness among the students and staff

towards their constitutional values, rights, duties and responsibilities as citizens of India, several activities were organized throughout the academic year.

BNBCS enthusiastically celebrated Independence Day, Republic day and Constitution day.

To encourage this prime duty of citizens several activities were conducted.

Activity

Objective

Essay Writing and Poster Making Competition on 'National Voter's Day'

To encourage more young voters to take part in the electoral process

Seminar on National Voter's Day

To celebrate the foundation day of the Election Commission of India

Voter ID Survey

To help the enrollment of citizens in voter's list

Street play on Voting Awareness

To create awareness regarding the process of voting

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	No File Uploaded
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts C. Any 2 of the above

periodic sensitization 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 Annual awareness programmes on the Code of Conduct are organized

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 programmes, 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

Following are the national and international commemorative days, events and festivals celebrated during the year

Sr. no.

Commemorative day

Date

Activity

1

Indian Air Force Day

08/10/2021

Sketching & Portrait Competition

2

Shivrajyabhishek Sohala

06/06/2021

Webinar on Chatrapati Shivaji

Maharaj

3

Cyber Jagrukta Diwas

22/12/2021

Seminar on Bank Frauds and

Cyber Crime Programme

4

Gandhi Jayanti

02/10/2021

Cleanliness drive

5

Guru Poornima

23/07/2021

Online Celebration

6

Indian Navy Day

04/12/2021

Online quiz

7

Martyrs Day

30/01/2022

Webinar

8

International Men's Day

19/11/2021

Webinar

9

National Cancer Awareness Day

07/11/2021

Online Quiz

10

National Consumer Day

24/12/2021

Seminar

11

National Minorities Rights Day

18/12/2021

Seminar

12

Marathi Bhasha Diwas & National Science day

28/02/2022

Seminar and book exhibition

13

National Statistics Day

23/12/2021 & 24/12/2021

Webinar

14

Sadbhavana Diwas

20/08/2021

Webinar

15

Subhash Chandra Bose Jayanti Online

23/01/2022

Online Quiz and webinar

16

World AIDS Day

01/12/2021 to 03/12/2021

Poster Making Competition

17

World Food Day

16/10/2021

National level online quiz

18

World Heart Day

27/09/2021 to 29/09/2021

Online event promoting physical/sports activity

19

World Peace day

18/09/2021 to 21/09/2021

Essay Writing and Drawing Competition

20

National Youth Day

12/01/2022

Webinar

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	No File Uploaded
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Best Practice 1:

Effective alumni engagement for upskilling learners

To create better bonding and utilize available updated knowledge resource from alumni for effective skill enhancement of current learners

Modern corporate sector demands special skills/acumen in applicants. This requires guidance from specialist in the field, so it was thought to use proactive and distinct alumni as exclusive knowledge resource

Through active alumni committee, Four focussed sessions were planned on the themes Artificial Intelligence and Machine

Learning, interview skills, basic leadership skills, yoga and wellbeing alumni members who are professionals in respective fields were contacted and they agreed to become resource persons for the benefit of all the students

Total turnout of 241 students was noted for all the four sessions. For each session the feedback collected revealed majority of students rated the activities as excellent. It also helped institute to Strengthen the bonds with the alumni.

Alumni committee members had to struggle to plan the schedule activities to avoid any overlaps to ensure convenience of learners and resource person

Best Practice 2:

International webinar series 'The art of writing a research paper

To provide, the detailed 'know-hows' of the process of research publication

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

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Imparting quality education in science, since 1969, BNBCS has been functioning as one of the premier HEI in thane with a mission 'To mould students into rational thinkers, competent workers and socially aware citizens'.

Throughout the journey of more than half a decade the institute has received many accolades and reached one more significant milestone of receiving 'Autonomous status'. To raise quality benchmark, the institute, has taken many leading steps to provide

better quality products and services.

Under autonomy, revamped Eighteen subject syllabi were implemented at first year graduate level. Second year syllabi reframing and approval was undertaken and the sanctioned syllabi are ready to get implemented from next academic year.

New post graduate courses viz. Data science and clinical psychology, have been designed and got sanctioned to be implemented next year.

Management for beginners and basic excel certificate programs were implemented, along with sanction of sixteen new certificate courses, that would be made available for learners to make a choice to earn additional credits and gain required skillset for future career choices.

With new courses, updated syllabi of existing programs and designing new certificate courses the institute has extended the academic platter for our learners to make wise choices.

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

BNBCS became autonomous during academic year 2020-2021. College adopted policy of 'Step-wise' revision of syllabi'. For syllabus revision, intellectual inputs were provided by subject experts, alumni, industry representatives of BOS. All S.Y.B.Sc. and F.Y.B.Sc. syllabi were revised as per norms. The main highlight of F.Y.B.Sc. was addition of 'History of Science' which involved ancient Vedic Science and emphasis on significant contribution of modern Indian Scientists in respective fields. Thereby helping to ignite interest about basic sciences and their applications in day-today life. Similarly revised syllabi of S.Y.B.Sc. were developed by incorporating topics of deep conceptual learning. Two new programmes (M.Sc. Data Science and M.Sc. Clinical Psychology) were introduced to enhance global competence. POs, PSOs and COs are reflective of the same and documented in revised syllabi and college website. Total 13 existing certificate courses were upgraded under autonomy and 16 new courses were introduced. These courses were framed to meet requirement of domestic relevance and its implication in changing era of academics and socio-economics.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	http://vpmthane.org/BNB/Criterion1_21-22.aspx

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

12

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

137

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

16

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

21

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

BNBCS offers quality education in almost all fields of science which intended to holistic development of students. One of the UG-programs on 'Human Science' is pertaining to diverse facets of Human life. It involves topic like Human psychology, Social-Ethical-Legal behaviour, Gender Sensitization, Professional ethics and environmental laws. Remaining UG-PG programs based on biological sciences comprehensively discuss about 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 green environment. In addition to this, UG-PG programs of physical and chemicals sciences stressed about renewable energy generation, environmental laws related to industries and waste management/treatment. Certificate courses along with series of expert lectures also aware about cross-cutting approach. These curricular topics enhance knowledge and sow seed of critical thinking among students. In addition to regular curricula, awareness programmes through schemes of WDC, DLLE, NSS-NCC (motivational lectures, workshops, competition, vaccination drive, Blood donation camp, beach cleaning, e-waste and utility articles collection drives) help in strengthening rational attitude of students to deal with odd events pertaining to education, family, profession and environment.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

13

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

662

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

244

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	A. All 4 of the above								
<table border="1"> <thead> <tr> <th data-bbox="100 353 531 421">File Description</th><th data-bbox="531 353 1396 421">Documents</th></tr> </thead> <tbody> <tr> <td data-bbox="100 421 531 566">Provide the URL for stakeholders' feedback report</td><td data-bbox="531 421 1396 566">http://vpmthane.org/BNB/Criterion1_21-22_1.4.1b.aspx</td></tr> <tr> <td data-bbox="100 566 531 790">Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management</td><td data-bbox="531 566 1396 790">View File</td></tr> <tr> <td data-bbox="100 790 531 857">Any additional information</td><td data-bbox="531 790 1396 857">View File</td></tr> </tbody> </table>	File Description	Documents	Provide the URL for stakeholders' feedback report	http://vpmthane.org/BNB/Criterion1_21-22_1.4.1b.aspx	Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File	Any additional information	View File	
File Description	Documents								
Provide the URL for stakeholders' feedback report	http://vpmthane.org/BNB/Criterion1_21-22_1.4.1b.aspx								
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File								
Any additional information	View File								
1.4.2 - The feedback system of the Institution comprises the following	A. Feedback collected, analysed and action taken made available on the website								
<table border="1"> <thead> <tr> <th data-bbox="100 1037 531 1104">File Description</th><th data-bbox="531 1037 1396 1104">Documents</th></tr> </thead> <tbody> <tr> <td data-bbox="100 1104 531 1249">Provide URL for stakeholders' feedback report</td><td data-bbox="531 1104 1396 1249">http://vpmthane.org/BNB/AQAR21-22/1.4.2.A TR.pdf</td></tr> <tr> <td data-bbox="100 1249 531 1317">Any additional information</td><td data-bbox="531 1249 1396 1317">No File Uploaded</td></tr> </tbody> </table>	File Description	Documents	Provide URL for stakeholders' feedback report	http://vpmthane.org/BNB/AQAR21-22/1.4.2.A TR.pdf	Any additional information	No File Uploaded			
File Description	Documents								
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Any additional information	No File Uploaded								
TEACHING-LEARNING AND EVALUATION									
2.1 - Student Enrollment and Profile									
2.1.1 - Enrolment of Students									
2.1.1.1 - Number of students admitted (year-wise) during the year									
1885									
<table border="1"> <thead> <tr> <th data-bbox="100 1686 531 1753">File Description</th><th data-bbox="531 1686 1396 1753">Documents</th></tr> </thead> <tbody> <tr> <td data-bbox="100 1753 531 1821">Any additional information</td><td data-bbox="531 1753 1396 1821">No File Uploaded</td></tr> <tr> <td data-bbox="100 1821 531 1921">Institutional data in prescribed format</td><td data-bbox="531 1821 1396 1921">View File</td></tr> </tbody> </table>	File Description	Documents	Any additional information	No File Uploaded	Institutional data in prescribed format	View File			
File Description	Documents								
Any additional information	No File Uploaded								
Institutional data in prescribed format	View File								
2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)									

284

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 students' learning levels and organises special programmes for both slow and advanced learners.

Students learning level is assessed based on academics, extracurricular and co-curricular activities. Parent's feedback, continuous internal evaluation by teachers, students-teachers interaction, helps to identify slow and advanced learners.

Advance learners are provided with the opportunities to play the leadership role in Student Council. They are given exposure to project-based learning through science festivals. Movie club and journal clubs are formed and Internship programs are arranged to boost the interest of students in research and provide the industrial experience. They participate in the university research convention "Avishkar" and are guided to publish research papers in journal as well as to present papers in conferences. Special motivational lectures are arranged under Innovation Corner. They are provided guidance for competitive and entrance examinations for post graduate education in India as well as in abroad.

Remedial classes, extra lectures and practical are conducted for the slow learners as and when required. They are boosted to participate in academic fest, extracurricular and Co-curricular activities and competitions at various levels. They are also been given attention by the mentors to help them to overcome academic problems and the other social or psychological difficulties. Various motivational webinars are arranged by the departmental clubs and committees for students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://vpmthane.org/BNB/Criterion2_21-22_2.2.1.aspx

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/08/2021	1885	50

File Description	Documents
Upload 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, being the pure science college, each subject has a practical component in the course. Most of the topics are experienced by the student through the experiments in the laboratory. Students learn the required skills to create, perform, observe, analyse, conclude, and relate the concepts. They understand the significance of the laboratory experiments in relation to the societal demand. In online mode simulations, videos, short films are used to explain the practical applications of their subjects. In addition to this, students participate in various camps, rallies, social drives, street plays under NCC and NSS.

Students participate in group discussion, question-answer session, problem-solving sessions, blended and flipped classroom, peer led learning actively while learning the subjects. They participate in organising various departmental activities like academic fest, conference, seminar, and workshop. They participate in various intercollegiate competitions. Students play significant role in cocurricular and extra-curricular activities like Cultural, DLLE, NCC, NSS and sports. They are also given the opportunity to express their feed-back on the curriculum as their involvement in democratic decision-making.

Students in groups take-up the research problem, projects, and case studies. They cooperate and coordinate to each other, plan and perform the experimental work under the guidance of teacher.

File Description	Documents
Upload any additional information	View File
Link for additional Information	http://vpmthane.org/BNB/Criterion2_21-22.aspx

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

To enhance the learning abilities of the students, teachers adopted ICT enabled tools as one of the methods of teaching. Online classes were scheduled on Google meet, Microsoft teams or Zoom platforms. In Online lectures various tools like power point presentation, animations, Excel, one note, white board, Edmodo, storyboard, Ed puzzle, XP Pen, Open Board, app for Python programming, R software, GeoGebra software were used. In certain cases, general and educational YouTube videos were shown to explain the concepts in the subject. The virtual experiments were designed in the laboratory for additional reference for the students. Students are also provided with the simulations for the additional practice. Teachers utilize institutional email id for creating google classroom. The study materials, ppts, videos, recorded lectures and the reference books are shared with the students on Google Classroom and made available on Digital repository of the college website. For continuous internal evaluation of the subjects Google form, Quizzes were used. E-resources through Knimbus digital platform, web OPAC, digital resources were made available to the students.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	http://vpmthane.org/BNB/Criterion2_21-22.aspx
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues**2.3.3.1 - Number of mentors**

50

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

BNBCS plans the Academic Calendar and activity calendar which includes Terms of college, Semester examination dates, other Curricular, Co-curricular and Extracurricular activities. The calendar is uploaded on college website in the month of April for the next academic year. Head, controller of examination and coordinators of committees hold the responsibility to follow the planned activities and ensure the adherence of the calendar at various levels as per the calendar.

In lockdown situation State government had released guidelines to conduct the examinations to the University. After discussion and meeting with cluster colleges, BNBCS conducted examinations in the framework provided by the university. All circulars, notices, examination time table were displayed on the college website notice board as well as in social media.

Head of the department designed departmental time table at the beginning of the academic year along with all teachers ensuring that there is no overlapping of the activities. Every teacher prepared the teaching plan of the assigned course. All lectures and practical were conducted on online mode. The type and schedule of internal evaluation for isolated subjects were planned in consultation with the Head of the Department and Examination committee.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

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

50

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

18

File Description	Documents
List of number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

535

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms**2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year**

32.33

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Ministry of education /university of Mumbai prescribed directives to conduct online examination for the academic year 2021-2022. The examination evaluation process is implemented as per the guidelines. To conduct online examinations, college used Software from "Eklavya". The software ensured proctoring of students and gives warning alerts if any inappropriate act is observed and after two warning examination is terminated for a particular student.

All teachers and students were trained for smooth conduction of examination. The examination was based Multiple Choice Questions pattern with level of options to select easy, medium, and hard questions from exhaustive question bank. The result submitted to examination committee automatically after submission of answer sheet by the students. Practical viva was conducted on online mode in camera by every department.

The Continuous Internal Evaluation (CIE) is based on the overall performance of the student observed through attendance,

class test, seminar, group discussion, assignments, quiz based on syllabus topics, tutorials, projects, viva-voce during laboratory sessions and personal interaction etc. The CIE helped the teachers to assess the students for tracking their progress and to hence help to take majors towards improvements.

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

2.6 - Student Performance and Learning Outcomes

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

During the academic year 2021-22, first year syllabus approved by the college academic council, designed by college board of studies was implemented. While the second and third year for all programs, earlier syllabus of University of Mumbai had been retained. Course outcomes are stated in the syllabus formed by the respective Board of Studies.

Reform in second year syllabus was done by respective departmental BOS committee which was sanctioned in the college academic council to be implemented the academic year 2022-23. Course Outcomes for second year courses offered by college were defined while framing of the syllabus.

PO and COs are uploaded on college website.

Syllabus copies are available in the college library as well as uploaded on the college website. Induction lectures are conducted by 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 and explains the course outcomes in the lecture

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	http://vpmthane.org/BNB/AQAR21-22/1.1.1.g_21-22.pdf

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Attainment of POs and COs are evaluated through direct and indirect methods. Direct methods include internal assessment, practical and theory semester end examination which is reflected in grade card on the basis of course credit. Overall CGPI is used to measure the attainment of POs. The grades, corresponding level of attainment and Calculation of percentage attainment for a semester:

Semester V

Grade

Level of attainment

Count

Percentage

O

Outstanding

25

3.81

A+

Excellent

212

32.27	
A	
Very Good	
223	
33.94	
B+	
Good	
115	
17.50	
B	
Above average	
35	
5.33	
C	
Average	
5	
0.76	
D	
Low	
0	
0.00	
F	
Very Low	

42

6.39

Total

657

100

Indirect methods include feedback from stakeholders, field visits, internships, industrial trainings, 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

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

700

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	http://vpmthane.org/BNB/Esanyuja.aspx

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 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The institute's research facilities such as laboratories, library and internet facilities are provided to the students for research. Instrumental facilities include a UV-visible spectrophotometer, flame photometer, cathode ray oscilloscope, thermal cycler, viscometer, densitometer and cooling centrifuge. Access to e-books and e-journals was availed through an annual subscription to Knimbus.

Students are encouraged to carry out minor research and curriculum-based projects under the guidance of faculty. To promote staff and students to participate in professional development programs and knowledge exchange by organizing national and international conferences with two preparatory workshops. Science square committee aims to acquaint students with research in a simple and exciting manner. The institute offered Ph.D. programs in Botany, Chemistry, Zoology, Physics and Environmental Science.

The library and research committee organized a series on 'Art of Writing Research Papers' to familiarize the students to the world of research publications, one of the important parts of the research. The college website research page regularly updates details of the research students, research publications, research project grants, and patents published by teachers and students. The institute has its own multidisciplinary journal J-BNB (ISSN 2454-2776) published annually to provide a platform for students and faculty.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	Nil
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

Nil

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

0

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	View File

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

1.90

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

4

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

8

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

3

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	(1). https://mangroves.maharashtra.gov.in/Site/40/Contact (2). https://mu.ac.in/ (3). https://mu.ac.in/ (4). https://mu.ac.in/
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

BNBCS established an environment by encouraging students and teachers to conduct research with a multidisciplinary approach as well as problem-solving research. In 2021-22, students have undertaken research projects, fieldwork, and internships and also volunteering in the large number of events.

Three projects were selected for the final round from the twelve projects presented by students at zonal level of 16th Inter-Collegiate Avishkar Research Convention (University of Mumbai). The first and consolation prizes were won by the college in final round.

Innovation Corner was inaugurated in the month of August 2021, for encouraging the student's innovative ideas and to provide a platform for the students to express their new ideas and discuss current innovations with peers. An activity 'Know the

Innovators was conducted to share important discoveries in the last few centuries.

Two informative sessions were organized to educate the students about IPR and patents that goes hand-in-hand with innovations and inventions. A committee has been formed to work toward the establishment of an incubation unit.

The department of botany organized an 'Online workshop on Home Scale preparation of Jam, Squash and Syrup' and lecture on plant based economy in order to develop the entrepreneurial skill of students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vpmthane.org/bnb/AQAR21-22/3.3.1.21-22.pdf

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

16

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

B. Any 3 of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

4

File Description	Documents
URL to the research page on HEI website	https://www.vpmthane.org/bnb/ResearchCommittee.aspx
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

0.08

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

0.26

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://vpmthane.org/BNB/AQAR21-22/3.4.4_N.pdf

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

48

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

3

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

0

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	View File

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Extension activities are regularly carried out in the neighborhood community through NSS and NCC addressing important issues including say no to drug abuse, awareness for organ donation, Beti Bachao Beti Padhao and also organizing patriotic events. For the benefit of students and staff, awareness programmes have been organized to address issues including cybercrime, mental health, World Heart Day, Cyber Sakhi, voting awareness, traffic safety, women empowerment, and women's defense.

NSS and NCC volunteers contributed in Covid vaccination drive, resource collection drive (clothes and utility articles) and their distribution to the concerned people. Four blood donation camps were organized this year. Sensitization of students with respect to environmental issues was accomplished through a number of events including Puneet Sagar Abhiyan (beach cleanliness drive), Mega E-waste collection, world water day, tree plantation and a street play presented by the students at Mumbai on 'Vasundhara Diwas' to create awareness on hazards of plastic waste. 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 standards. It also helped in bringing hidden personality traits of students which will eventually help them to become a better citizen.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vpmthane.org/bnb/NSS2021_22.aspx , https://www.vpmthane.org/bnb/NCC2021_22.aspx

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

3

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	View File

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

87

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

1885

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

8

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

2

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	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 equipments, etc.

The college is situated in the green campus of 13.5 acres with four other sister institutions. The campus security is assured by an Access Control System integrated with Entrance Control System.

BNBCS physical infrastructure includes 19 classrooms with wi-fi enabled facility, examination room with CCTV surveillance facility, ICT equipped auditorium and seminar room, central library along with 7 departmental libraries, digital repository and common stationary and photocopy center, 10 laboratories for UG, PG and 4 for research students, 5 computer laboratories, 7 LCD projectors, 161 desktop (133for students & 28 for staff), and 13 laptops.

The academic year 2021-22 was accomplished during an unprecedented lockdown period and most of the teaching learning equipment remained in non-functional state for a prolonged time. Hence all maintenance related activities were initiated. Sanitisation of buildings, classrooms, laboratories, library and washrooms were executed with top priority. Consecutively surveillance and sorting of laboratory instruments and computing equipment was carried out. Similarly, rejuvenation of the vertical garden andbutterfly garden was undertaken.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://vpmthane.org/BNB/AboutCollege.aspx

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

Cultural Activities: For cultural activities, open air theatre , college auditorium with acoustic system is available. For small training programme conference room is also available. Apart from this on the campus, an auditorium of 350 capacity available for cultural events. Cultural committee

Sports activities: Spacious playground is available for outdoor games like volley ball, football, kho-kho, kabaddi etc. For

indoor games, Gymkhana is available including games like table tennis, carom, chess and gymnasium for staff and students. Obstacle path for NCC cadets is available.

Vidya Prasarak Mandal has started the Sports complex for campus students. The development of sports complex was initiated and its opening was held on March 2022 at the hands of athlete Ms Lalita Babar, Arjuna Puraskar winner.

Yoga being one of the healthy way for better life, since last 20 years regular Yoga training is conducted in Patanjali Yoga Kendra. A MOU is signed with Ambika Yog Kutir and their trainers regularly train the students and staff. During lockdown, online yoga classes were also conducted.

For cultural, sports and Yoga committee handling, Co-ordinator is appointed for each and every committee for better functioning.

Cultural, sports, NSS, NCC, DLLE and Yoga activities conducted with available infrastructure.

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

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

19

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

11,00,252.00

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

The central library is having different types of print collection includes 32,150 books, 18 national and international journals, 15 magazines, 320 bound volumes. All the bibliographic records of print collection are maintained in Koha software. 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/> .

Considering present need, Knimbus platform is subscribed for accessing e-books, e-journals, e-database. 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. Turnitin Plagiarism software is shared amongst sister institutions. Library committee oversees the functional aspects of library along with administration.

Check-in/out of reading material takes place through online mode in koha. Online claim facility is also made available from central library while students can avail Departmental library facility independently.

Institutional Repository is developed with D-space open access software (<http://dspace.vpmthane.org:8080/jspui/handle/123456789/1>) and it contains information like study material for students, question papers, question banks, proceedings, videos, College Journal J-BNB, Magazine, Prospectus etc.

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

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

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

8.44

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

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

26

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

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The entire campus is Wi-Fi enabled. The college is having 165 computers connected through leased line and MTNL services. All the computers are connected with LAN. An IP address is assigned to every computer by the system administrator. MS Office licence software is installed. Few computers are running on Linux Open Source software. For the security purpose, Antivirus software are procured and installed.

ICT was the backbone during lockdown period. ICT helped all the stakeholders during lockdown. To aware the students about security, safety BNBCS initiated Cybersecurity programmes. MOU with Quickheal foundation

(http://www.vpmthane.org/BNB/AQAR21-22/3.7.2.e_MOU_Quickheal.pdf) was signed and training session for students was conducted. Students institutional email ids were created for education purpose.

The available bandwidth is 50 MBPS from Tata and 50 MBPS Intech online. A separate server is maintained for library Koha software and D-space software.

BNBCS has its own admission, examination and office administration software since 2005 and updated in 2019.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://www.vpmthane.org/BNB/AQAR21-22/3.7.2.e_MOU_Quickheal.pdf

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
1885	133

File Description	Documents
Upload any additional information	No File Uploaded

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	A. 250 Mbps
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File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing	C. Any two of the above
--	--------------------------------

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

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

23.39

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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

The whole year was mainly engaged in maintenance and rejuvenation of infrastructure. Sanitisation of buildings including classrooms, library, laboratories and washrooms was carried out on priority basis.

Non-functional equipments, electronic gadgets are sent to scrap (e-collection drive) with prior permission from College Development Committee.

Servicing and maintenance (AMC) of equipment, Air conditioner, water cooler & purifier, telephone, UPS supply was conducted. 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.

Considering future needs, ISO audit was also initiated. IS/ISO 21000:2018 audit is specifically committed for assurance of quality in educational institutes. It evaluates quality in all aspects of process and products of educational institutes for which BNBCS conducted training workshops for staff. Similarly the process flowcharts, standard operating procedures (SOPs) and calibration of laboratory instruments were introduced. In order to promote eco-friendly practices (paperless office, plastic free green campus), Green Audit was accomplished.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://vpmthane.org/BNB/AQAR/Policy_Infrastructure.pdf

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year**380**

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year**04**

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	http://vpmthane.org/BNB/5.1.3_21-22.aspx
Details of capability development and schemes	View File
Any additional information	No File Uploaded

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year**609**

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 adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

04

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

168

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

12

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

04

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

The Student Council of BNBCS is established as per Maharashtra public ordinance University act 28 (dated 26th November 2017).

BNBCS Student Council consists of secretary and jt. Secretary of committees such as, cultural, gymkhana, NCC, NSS, magazine,

class representatives as invited members; along with senior college authorities. Best cadet of NCC is selected as secretary; while NSS and gymkhana secretary & jt. secretary are selected by inviting applications, scrutiny of applications and interview. Secretary and jt. secretary of magazine committee is selected based on leadership quality. Each department of BNBCS has its own departmental club, wherein all activities are organized by students under the guidance of teachers. Book bank committee and Avishkar coordination committee also have student representative.

The students take responsibility in organizing various events, from celebrating National days, blood donation camps, cleanliness drives, COVID vaccination drive, e-waste and old clothes collection drives, volunteering in college & social events of the city etc., and learn the importance of discipline, teamwork and sincerity in event management.

The Board of Studies of each subject constituted under autonomy also includes one alumni representative who helps in the process of framing and updating the syllabi.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://vpmthane.org/BNB/Criterion5_2021-22.aspx

5.3.3 - Number of sports and cultural events / competitions organised by the institution

17

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute

significantly to the development of the institution through financial and other support services

Anubandh: Alumni Association of BNBCS, is a registered body under the Vidya Prasarak Mandal trust. Anubandh is actively involved in the planning and accomplishment of various activities throughout the year for students' benefit and overall development of college.

In the academic year 2021-22, Anubandh has contributed in the holistic development of students by conducting guidance sessions on the topics like interview skills, competitive examinations, Artificial Intelligence, Machine Learning, Basic Leadership Traits for Self-Development and Yoga and Wellbeing. Anubandh has also conducted two-day certificate course on "Awareness on Banking, Insurance and Cyber frauds".

Apart from this, alumni have contributed vastly by involving in various departmental activities, as chief guest for inauguration of departmental clubs, guest speaker for webinars, resource person for workshops, courses, competitive exam & career guidance sessions and Dr. V.N. Bedekar colloquium lectures.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	http://vpmthane.org/BNB/Alumni_Activity21-22.aspx

5.4.2 - Alumni's financial contribution during the year

E. <2 Lakhs

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 an effective leadership in tune with the vision and mission of the Institution

Vision: Imparting Quality Education in Science.

Mission: To mould students into rational thinkers, competent workers and socially aware citizens.

The Institute's goal and purpose are geared on academic leadership. The institute conducts deliberate and systematic attempts to assist trickle decision-making authority to lower levels of the institutional structure. The college has developed 54 need-based committees based on effective leadership to decentralize the greatest information resource centre. The Institute has a computerized library which runs on Koha Open Source Software. IQAC performs an annual internal academic and administrative audit to evaluate performance. Students are encouraged to participate in extra and co-curricular activities by departments and institute. The college fosters and offers seminars, workshops, and conferences for its faculty and students. As a science college, it has fostered an environment in which faculty and students may publish research articles in institutional journal JBNB (Online). Decentralization has boosted faculty engagement, which leads to more efficiency and responsibility. Statutory committees strive for quality enhancement and maintenance. Vice principals help in administration. All stakeholders are involved in keeping the college mission and vision on schedule. Representatives from students, non-teaching staff, and alumni are engaged in several bodies as part of participatory management to make sure the smooth operation of the institution.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	http://vpmthane.org/BNB/AQAR21-22/college_committees_2021-2022.pdf

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The college has maintained a decentralized and participatory leadership structure, with committee-based for evaluating day-to-day governance. Teachers are encouraged to engage in administrative committees to offer required inputs so that the decisions made during such discussions and meetings which could be transformed into significant action. The recommendations of these specialized internal committees are subsequently reviewed

and supervised for further implementation by the college development committee (CDC). Such actions established clear goals and foster a sense of belonging among faculty members, resulting in overall improvement in college functioning. Admissions to the college were reviewed and completed online. IQAC organizes the college financial as well as academic audits on regular basis by an external auditors. Academic aspects such as student attendance, question paper formulation, administration and evaluation of internal examinations, course material preparation, and syllabus covering are handled autonomously by the departments. Students are mentored and special classes for slowlearners are organized. Staff and other stakeholders contribute to instil a good attitude, which leads to enhanced productivity, better communication, higher morale, motivationand job satisfaction.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	No File Uploaded
Paste link for additional Information	http://vpmthane.org/BNB/AQAR21-22/6.1.2_Mentor_21-22.pdf

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

BNBCS has continuously taken efforts to meet the strategic action plan decided in 2020-21. National conference and pre-conference workshops were held successfully [http://vpmthane.org/BNB/Activities/2021/Microbiome_conf_2022.pdf]. Five days international Webinar Series on 'Art of writing research paper' was conducted http://www.vpmthane.org/BNB/Activities/2021/res_lib_day1_5_2021.pdf. College budding researchers participated in University Research Convention 'Avishkar' and bagged Gold medal and consolation prize. Knimbus Digital platform was subscribed for e-books and e-journals[<https://vpmthane.knimbus.com/>]. Sixteen new skill enhancement courses were introduced and five were implemented.[http://vpmthane.org/BNB/Syllbus_Certificate.course.aspx]. Remarkable activities such as COVID vaccination drive, blood

donation camp, organ donation awareness programme, tree plantation, cloth donation for flood affected regions, e-waste collection drive, etc. were accomplished.[http://vpmthane.org/BNB/NSS2021_22.aspx].The College ICT professional offered sufficient Microsoft teams and Google Classroom training to enable online lectures to be delivered throughout the Lockdown period. Institutional email ID was provided to students. For examination assistance, EKLAVYA a proctoring software was utilized which would strictly vigil students appearing for online examinations. To get tune with autonomy, Teachers and IQAC members underwent rigorous training sessions. Process of IS/ISO 21001:2018 certification was initiated. Four International and two National Patents were sanctioned, few are awaited. Four UGC-Care research articles, two edited books and seven book chapters were published by the faculty.

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

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

The institute is always striving towards excellence. The academic calendar for the year was designed at the departmental level in coordination with the IQAC, administrative, and extracurricular activities coordinators. Strategic planning, verification, feedback, and validation are all discussed in frequent meetings. Proposals and recommendations are presented for approval during CDC meetings. Policy is implemented after consultation with all relevant authorities and stakeholders. The position of vice-principal was created to oversee day-to-day operations and the overall operation of the institution. A higher authority within IQAC reviewed the core competencies on a regular basis through internal and external audits and feedback methods and action taken. The management assigned faculty based on workload by conducting interviews adhering to service guidelines. The college operates through various committees led by the principal and coordinated by the IQAC, which makes decisions on workload, the purchase of learning

resources, the timetable, admissions, the calendar of events, organizing various activities involving more of the principal is in charge of all the departments, the library, and the administration office, among other things. The numerous departments and committees are led by their respective heads of departments and coordinators by coordination with each other.

File Description	Documents
Paste link to Organogram on the institution webpage	http://vpmthane.org/BNB/AQAR21-22/Organogram.pdf
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

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	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The institution has excellent welfare measures in place for both teaching and non-teaching personnel. VPM plays important role for employee well-being and welfare. On campus, employees enjoy free Wi-Fi access. To strengthen their talents in the job, support staff is encouraged to participate in skill development courses.

Briefing sessions are conducted to inspire young employees to

create a healthy working environment. Employees are given with physical check-up, medical facilities in the event of a medical emergency.

Workspace, digital support, parking, and Smart Identity cards all contribute to the seamless operation of the college. Female staff employees are given equal opportunity to thrive and gain momentum at the college. The college administration's interactive and supportive strategy boosts growth at regular intervals. A COVID vaccination drive was also held for students and staff. Faculty are encouraged to take part in Faculty Development Programs (FDP) and workshops by financial support. Staff receive interest-free festival advances. A cooperative society ensures all individuals are served and that financial crises are met.

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

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

11

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 programmes organized by the Institution for its teaching and non-teaching staff during the year

5

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

6

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

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

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	No File Uploaded
Any additional information	No File Uploaded

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

We fill NIRF performa (<http://vpmthane.org/BNB/NIRF.aspx>)

Fees collected from students are the primary source of revenue. If a shortfall emerges, funds will be provided by management. The administration has spent a significant amount of money creating the necessary infrastructure for various departments, offices, lab equipment, libraries, canteens, and sports.

Fees: Students of various granted and self-financed courses are charged fees in accordance with university and government regulations.

Salary Grant: The State Government provides a salary grant to the College. For this, we create and submit to the state government a yearly budget of the expected salary grants necessary. This award covers the wages of full-time permanent teachers, non-teaching employees, and part-time teachers working on granted positions.

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

The institution established UGC Committees in compliance with the UGC's directives in the XII Plan. The Chartered Accountant conducts regular audits to ensure that resources are mobilised. The scheduling committee oversees the correct use of classrooms and labs. The Department of Botany is in charge of the botanical garden.

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

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

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

1. Improving the quality of teaching and research through student feedback.
2. Contributing to best practise in administration in order to maximize resource utilization and provide better services to students and employees.
3. Encourage teachers to participate in Faculty Development, skill development programme and Orientation Programs.
4. Encouraging students to participate in online certification and career counselling programmes.
5. Ongoing evaluation of students through mentorship, test results, and curricular and co-curricular activities.
6. Students are aware of services such as the Canteen, Gymkhana, Library and Reading Rooms, NSS, NCC, Cultural, DLLE,

and so on.

7. Contributing to academic and administrative audits, as well as analysing outcomes to identify areas for improvement.

The Institute IQAC meets every month/week (as and when needed). 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
Upload any additional information	No File Uploaded
Paste link for additional information	http://vpmthane.org/BNB/Criterion1_21-22_1.4.1b.aspx

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

The IQAC evaluates and improves the quality of the teaching-learning process. Affiliated University's academic schedule is followed by the institution. Each department operates in accordance with the teaching plan and course plan developed at the department level. IQAC serves as a standard for a variety of academic and administrative tasks. It delivers information through collaboration and perseverance. These activities foster positive relationships with industry and society by hiring experienced and competent teachers to enhance their expertise in their respective fields. It also ensures that academic and financial obligations are completed on time, efficiently, and

in a progressive manner. Departments schedule their actions in accordance with the University's academic calendar. The action plan contains important routine tasks for the timely execution of teaching/learning activities such as conducting meeting, providing regular student feedback, and so on. Courses are assigned depending on the faculty members' preferences/expertise. For a successful teaching-learning process, faculty members employ a variety of pedagogical strategies. Faculty develop methodologies and tactics to help slow learners and promote bright pupils. Mentors keep track on their mentees' progress.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://vpmthane.org/BNB/AOAR21-22/2.3.3_Mentor_21-22.pdf

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	http://vpmthane.org/BNB/Activities/2021/BNB_Principal_Report_2021-22.pdf
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	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

To promote a world free of bias, stereotypes and discrimination which is a global priority, BNBCS plans various activities for the same. International Women's/ Men's day was celebrated with great gusto in BNBCS. District level celebration of International Women's day was hosted in which 140 women achievers were felicitated. A seminar was conducted on women empowerment to create awareness that women should have an equal opportunity to engage in all sectors of society. To promote gender equity, international and national commemorative days which highlight the contribution of both the genders are celebrated with great enthusiasm. National girl-child day was also celebrated. Rangoli competition was conducted for creating awareness about gender discrimination. BNBCS encourages participation of both genders across all the activities.

BNBCS gives immense importance to the safety of the students as well. The entire campus is under CCTV surveillance and the entry gates are well guarded by security personnel. Separate Common room facility in which a sanitary pad dispensing machine has been installed also available for the female students self-defence workshop was conducted to empower students with essential self-defence tips and manoeuvres from safety specialists.

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

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

D. Any 1 of the above

File Description	Documents
Geotagged Photographs	View File
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 a maximum of 200 words)

Waste management helps to reduce the delirious effects of waste on the environment and human health. The College has an effective waste disposal system. As a part of solid waste disposal system, Separate garbage collection bins for dry and wet waste, are placed at multiple locations in college building and on the campus. This helps in separation of solid waste at the sources using defined (green and yellow) garbage cans. Open discharge / discard of liquid waste is prevented and is discharged through well-maintained municipal sewage system,

E- waste management is the new challenge to public health. Through NSS cell, college conducted E-waste drive in which E-waste was collected in order to reduce generation of hazardous waste, Chemistry department is undertaking "Green Chemistry" approach. In the college, active four chambered Bio-compost unit is made to compost the Bio-waste generated from planted trees in the campus and the other sources. It disposes-off the waste in eco-benign manner and Bio-compost generated is again applied to trees and plants in the garden, thereby reducing the additional cost and impact of chemical fertilizers. On the campus, one Bio-compost is made to decompose the waste which is generated by canteen

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	View File
Any other relevant information	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
Geotagged 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
Geotagged 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 undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy 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

B. Any 3 of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
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 a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

C. Any 2 of the above

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

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

Unity in diversity in India signifies the unity among people with diverse cultural, religious beliefs, social statuses, and other demographic factors. Several activities in BNBCS are aimed at encouraging this idea among the students. An inclusive

environment fosters a sense of belonging among students irrespective of their differences

Activity

Objective

Date

No. of Participants

Cleanliness drive on Gandhi Jayanti

Commemoration of the Father of the nation

02/10/2021

16

Slogan Competition on caste discrimination

To create awareness about casteism in poor society

12/10/2021

24

Book exhibition on Marathi Bhasha Diwas

To recognise the contribution of various authors in the field of marathi language

28/02/2022

156

Webinar on "Sadrikarantil Marathi" (Marathi in Presentation)

To boost the writing quality of students in the Marathi

03/02/2022

53

Essay Writing and Drawing Competition on World Peace day

To enable the students to express themselves using their creative skills

18th to 21st September, 2021.

57

Webinar on Sadbhavana Diwas

To celebrate the birth anniversary of former Prime Minister of India, Late Rajiv Gandhi

20/08/2021

67

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

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

With the aim of creating awareness among the students and staff towards their constitutional values, rights, duties and responsibilities as citizens of India, several activities were organized throughout the academic year.

BNBCS enthusiastically celebrated Independence Day, Republic day and Constitution day.

To encourage this prime duty of citizens several activities were conducted.

Activity

Objective

Essay Writing and Poster Making Competition on 'National Voter's Day'

To encourage more young voters to take part in the

electoral process**Seminar on National Voter's Day**

To celebrate the foundation day of the Election Commission of India

Voter ID Survey

To help the enrollment of citizens in voter's list

Street play on Voting Awareness

To create awareness regarding the process of voting

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	No File Uploaded
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization 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 Annual awareness programmes on the 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 programmes, 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

Following are the national and international commemorative days, events and festivals celebrated during the year

Sr. no.

Commemorative day

Date

Activity

1

Indian Air Force Day

08/10/2021

Sketching & Portrait Competition

2

Shivrajyabhishek Sohala

06/06/2021

Webinar on Chatrapati Shivaji

Maharaj

3

Cyber Jagrukta Diwas

22/12/2021

Seminar on Bank Frauds and

Cyber Crime Programme

4

Gandhi Jayanti

02/10/2021

Cleanliness drive

5

Guru Poornima

23/07/2021

Online Celebration

6

Indian Navy Day

04/12/2021

Online quiz

7

Martyrs Day

30/01/2022

Webinar

8

International Men's Day

19/11/2021

Webinar

9

National Cancer Awareness Day

07/11/2021

Online Quiz

10

National Consumer Day

24/12/2021

Seminar

11

National Minorities Rights Day

18/12/2021

Seminar

12

Marathi Bhasha Diwas & National Science day

28/02/2022

Seminar and book exhibition

13

National Statistics Day

23/12/2021 & 24/12/2021

Webinar

14

Sadbhavana Diwas

20/08/2021

Webinar

15

Subhash Chandra Bose Jayanti Online

23/01/2022

Online Quiz and webinar

16

World AIDS Day

01/12/2021 to 03/12/2021

Poster Making Competition

17

World Food Day

16/10/2021

National level online quiz

18

World Heart Day

27/09/2021 to 29/09/2021

Online event promoting physical/sports activity

19

World Peace day

18/09/2021 to 21/09/2021

Essay Writing and Drawing Competition

20

National Youth Day

12/01/2022

Webinar

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	No File Uploaded
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Best Practice 1:**Effective alumni engagement for upskilling learners**

To create better bonding and utilize available updated knowledge resource from alumni for effective skill enhancement of current learners

Modern corporate sector demands special skills/acumen in applicants. This requires guidance from specialist in the field, so it was thought to use proactive and distinct alumni as exclusive knowledge resource

Through active alumni committee, Four focussed sessions were planned on the themes Artificial Intelligence and Machine Learning, interview skills, basic leadership skills, yoga and wellbeing alumni members who are professionals in respective fields were contacted and they agreed to become resource persons for the benefit of all the students

Total turnout of 241 students was noted for all the four sessions. For each session the feedback collected revealed majority of students rated the activities as excellent. It also helped institute to Strengthen the bonds with the alumni.

Alumni committee members had to struggle to plan the schedule activities to avoid any overlaps to ensure convenience of learners and resource person

Best Practice 2:

International webinar series 'The art of writing a research paper

To provide, the detailed 'know-hows' of the process of research publication

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

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Imparting quality education in science, since 1969, BNBCS has been functioning as one of the premier HEI in thane with a mission 'To mould students into rational thinkers, competent workers and socially aware citizens'.

Throughout the journey of more than half a decade the institute has received many accolades and reached one more significant milestone of receiving 'Autonomous status'. To raise quality benchmark, the institute, has taken many leading steps to provide better quality products and services.

Under autonomy, revamped Eighteen subject syllabi were implemented at first year graduate level. Second year syllabi reframing and approval was undertaken and the sanctioned syllabi are ready to get implemented from next academic year.

New post graduate courses viz. Data science and clinical psychology, have been designed and got sanctioned to be

implemented next year.

Management for beginners and basic excel certificate programs were implemented, along with sanction of sixteen new certificate courses, that would be made available for learners to make a choice to earn additional credits and gain required skillset for future career choices.

With new courses, updated syllabi of existing programs and designing new certificate courses the institute has extended the academic platter for our learners to make wise choices.

File Description	Documents
Appropriate link in the institutional website	http://vpmthane.org/BNB/AQAR21-22/Institutional_Distinctiveness.pdf
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

IS/ ISO- 2100-2018 certification

Increase in UGC care journal publications

Books and patents (increase in number)

Conducting Conference with preconference workshop (Maths and stats)

Encourage participation of students in research convention (Aavishkar)

Upgrading library e-resources

Celebration of 'Aazadi ka amrit mahotsav'

Hosting student activity festivals at a broader scale for enrichment of youth

Bridging online to offline gap