



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	BNM INSTITUTE OF TECHNOLOGY
Name of the head of the Institution	Dr. Krishnamurthy G N
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08026711780
Mobile no.	8105869067
Registered Email	bnmitprincipal@gmail.com
Alternate Email	principal@bnmit.in
Address	Post box No. 7087, 27th Cross, 12th Main, Banashankari 2nd Stage, Bengaluru- 560070
City/Town	Bengaluru
State/UT	Karnataka
Pincode	560070

2. Institutional Status																			
Affiliated / Constituent			Affiliated																
Type of Institution			Co-education																
Location			Urban																
Financial Status			private																
Name of the IQAC co-ordinator/Director			Dr. Bindu S																
Phone no/Alternate Phone no.			+918026711782																
Mobile no.			9844793208																
Registered Email			bnmitprincipal@gmail.com																
Alternate Email			principal@bnmit.in																
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)			https://www.bnmit.org/wp-content/uploads/2019/11/AQAR-18-19-online-report.pdf																
4. Whether Academic Calendar prepared during the year			Yes																
if yes,whether it is uploaded in the institutional website: Weblink :			https://www.bnmit.org/wp-content/uploads/2019/07/BNMIT-Calendar-of-events-July-Dec-2019-1.jpg																
5. Accreditation Details																			
<table border="1"> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accreditation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> <tr> <td>1</td> <td>A</td> <td>3.10</td> <td>2017</td> <td>30-Oct-2017</td> <td>29-Oct-2022</td> </tr> </table>						Cycle	Grade	CGPA	Year of Accreditation	Validity		Period From	Period To	1	A	3.10	2017	30-Oct-2017	29-Oct-2022
Cycle	Grade	CGPA	Year of Accreditation	Validity															
				Period From	Period To														
1	A	3.10	2017	30-Oct-2017	29-Oct-2022														
6. Date of Establishment of IQAC			28-Feb-2017																
7. Internal Quality Assurance System																			
<table border="1"> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by</th> <th>Date & Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </table>						Quality initiatives by IQAC during the year for promoting quality culture			Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries								
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IQAC		
Compulsory for faculty to take MOOCS/NPTEL courses	01-Feb-2020 180	125
Online teaching learning using technological tools	23-Mar-2020 120	2200
Internal Quality Assurance Cell (IQAC) Audit - 2	10-Mar-2020 1	2200
Internal Quality Assurance Cell (IQAC) Audit - 1	17-Dec-2019 7	2200
Participated in NIRF and ranked in the 186 position	11-Jun-2020 1	2200
Internal Quality Assurance Cell (IQAC) Meeting	27-Sep-2019 1	22
External NBA Auditing	17-Feb-2020 1	2200
View File		

8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Department - Electrical and Electronics Engineering	MODROBS	AICTE	2019 730	1300000
Institution	New Gen IEDC	DST	2017 1825	28700000
Department - Electronics and Communication Engineering	MODROBS	AICTE	2019 730	1200000
Department of Information Science and Engineering	K-FIST L1	VGST	2019 730	2000000
View File				

9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

1

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

• Effective implementation of Skill Development Programs (SDPs) from industry experts to develop technical skill sets and to imbibe core competency among students. • Effective organization of Alumni lectures series for pre final year B.E. students on specific topics like higher studies, research, latest trends technologies. • Effective implementation of performance enhancement classes. • Enhancement of Industry Institute interactions through Industry Visits/ MOUs/Consultancy. • Formulation and Implementation of New faculty appraisal System.

[View File](#)

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Implementation of Professional Grade Point Average (PGPA) to consider all-round attributes of the students along with academics	Implementation of Professional Grade Point Average is in Process
Enhancement of Students Publications	Students publications are in place across departments.
Improvement of Research	Research group is formed at college level for carrying out research. Staff are encouraged to publish research findings in scopus indexed journals. Staff appraisal format is revised pertaining to this.
Enhancement of Industry-Institute Interaction	1. Industry visits are being arranged by all departments. 2. BNMIT - Toyota Center of Excellence is in place to provide hands on training to students. 3. Skill Development Programmes by Industry Experts have been initiated by all departments. 4. Institute has signed MoUs with reputed organizations.
Conduction of special classes for lateral entry students	1. Performance Enhancement Classes are being conducted as per timetable. 2. Study materials consisting of question & answers are provided for ready

	reference to students. 3. Activity based teaching-learning process has been adopted for tough courses of III & IV semesters to create interest among students leading to improvement in results.				
Departments are advised to revisit PEOs, Mission/Vision if necessary	Some of the departments have initiated the process				
View File					
14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">Name of Statutory Body</td> <td style="width: 50%; text-align: center;">Meeting Date</td> </tr> <tr> <td style="text-align: center;">Management</td> <td style="text-align: center;">12-Oct-2020</td> </tr> </table>		Name of Statutory Body	Meeting Date	Management	12-Oct-2020
Name of Statutory Body	Meeting Date				
Management	12-Oct-2020				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2020				
Date of Submission	06-Feb-2020				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	Maintenance of student records, admission, attendance, performance and progress, fee collection, fee due calculation and other activities are main functions of college that consume lot of resources and time. To make all these processes simple and structured, the Campus Management System was introduced in the campus from the academic year 2014. The college, student and parent/guardian can interact through this single platform. College Management Software assists the faculty members to share course materials, assignments and intimations with students. Students and parents have access to progress reports and attendance status through this facility. Instant messages are sent to parents if their ward is absent even for one class on daily basis. Parents and students can be reached instantly				

in case of emergencies. CMS provides a platform to conduct various surveys online. OBE attainment calculation and analysis is automated through CMS. CMS also helps in taking feedback and presenting results from all the stakeholders.(bnmit.dhiedu.com). With effect from August 2020 new CMS is in place
(<https://cimsstudent.mastersofterp.in/>)

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The syllabus for each course of the program, teaching hours and the evaluation methods are defined by Visvesvaraya Technological University (VTU). The college has a well developed system for implementing the curriculum for each programme, to achieve the stated mission as detailed below: 1. The syllabus and method of evaluation is printed by the University, which is distributed to students and staff. 2. Each HoD circulates the list of courses to be delivered for the upcoming semester before the end of ongoing semester and gets the preferences of courses each faculty would like to teach. Based on the preferences and expertise, HoD assign courses to the faculty for the next semester. 3. A college level time-table coordinator appointed by the Principal interacts with the department coordinators. The coordinators come up with a time table that ensures adequate number of hours of teaching as specified by VTU, Uniform distribution of load throughout the week, availability of faculty, laboratories, classrooms and seminar halls, time for student club activities and other constraint of resources. 4. Faculty prepares course outcomes, lesson plan, course materials and special methods to be incorporated into the lesson plan considering the comments/feedback received by the faculty who taught this course in the previous year. Faculty members are given flexibility to decide and to make modifications in the delivery process, if necessary. Faculty members are encouraged to use innovative teaching methods and ICT. 5. Three internal tests are conducted during 6th, 12th and 15th weeks and marks scored by the students are sent to the university. These tests are conducted at the college level and are monitored by HoD's, Principal, Dean and Director. 6. A feedback by students on the performance of the faculty is taken soon after the completion of first test evaluation. This allows students to give their opinion about the faculty on teaching and fairness of evaluation. Also, faculty can understand the problems of the students for the specific course and make mid course corrections in delivery process. Feedback are analyzed and faculty with poor feedback are sought an explanation and suitably advised to improve the performance through well defined action plans. Student feedback also forms a part of the staff appraisal process. 7. Student's performance in tests is evaluated based on scheme of valuation, which will be made available to students later. The blue books are given to students to check for fairness of evaluation. 8. At the end of 16 week course, the faculty writes his/her comments and methods for further improvement for the next year. 9. After the announcement of results by the University, the departments prepare details of performance of the class, which includes percentage of pass, number of FCDs (First Class with Distinctions), maximum marks scored and position of BNMIT among other reputed colleges. These are discussed in HoD's meeting and in the

Governing Council for appropriate actions if the results are not good. 10. A process document guides the department in evaluating the performance of a class against set targets.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NIL	NIL	01/07/2019	0	NIL	NIL

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	NIL	01/07/2019
View File		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Science Engineering	01/08/2019
BE	Electronics & Communication Engineering	01/08/2019
BE	Electrical & Electronics Engineering	01/08/2019
BE	Information Science Engineering	01/08/2019
BE	Mechanical Engineering	01/08/2019
Mtech	Computer Science Engineering	01/08/2019
Mtech	VLSI & Embedded Systems	01/08/2019
MBA	Master of Business Administration	01/08/2019

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	Nil	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Data is Provided in Excel	01/07/2019	Nil
View File		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
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BE	Internship	516
MBA	Internship	109
MBA	Field Projects	109
Mtech	Internship	9
View File		

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?
(maximum 500 words)

Feedback Obtained
<p>The institution has been following a systematic approach to collect and analyse the feedback from all the stake holders on the aspects related to the overall development of the institution such as, teaching learning process, infrastructure, facilities, faculty etc., at regular intervals. • Representatives from the Industry, Alumni, Students and Senior Faculty are included in Internal Quality Assurance Cell (IQAC) of the college. The inputs from all the stakeholders' are considered for making necessary revisions and framing policies of the institute at the institution level. • Department Advisory Board (DAB) at program level comprising of all stakeholders is effectively functioning in all the departments. DAB regularly monitors the progress of the department and suggests necessary actions to bridge the gap between Industry requirements and Academics. • Program Assessment and Audit Committee (PAAC) consisting of HOD and senior faculty at program level evaluates the goals and objectives of the program curriculum. It assists in the professional development of the faculty. • Faculty are evaluated through online student feedback to understand about their teaching learning process so as to achieve the excellence in Teaching Learning process. After the first internal assessment, all the students are required to fill an online feedback form about the faculty. The outcome of the feedback thus obtained are analysed by the HoD and are discussed with the concerned faculty individually. Suggestions for improvement in teaching are given if required. • Apart from this, course exit survey, facility survey, graduate exit survey, alumni survey and employer's surveys are taken every year for achieving overall development of department and the college. All these surveys are consolidated and analysed to check whether there are any deficiencies and if found they will be suitably addressed through proper channel.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Mechanical Engineering	15	218	15

BE	Information Science Engineering	15	340	15
BE	Electrical and Electronics Engineering	15	209	15
BE	Electronics and Communication Engineering	30	356	30
BE	Computer Science and Engineering	30	566	30
View File				

2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1837	220	119	19	138

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
135	135	23	33	5	50

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The details of the counselling system that has been developed in the institution for the students for various purposes are given below. A. Counselling for continuous improvement in academics and other areas by faculty members • Each faculty member is assigned a group of around 20 students to be a counsellor/mentor. Counsellor is the first point of contact for students and their parents/guardians in case of any assistance in academic matters or otherwise. • Counsellors interact with students twice in a month to understand their problems, aspirations and interests advise them suitably for their academic improvement and to make an effort to resolve their problems. • During interaction with students, counsellors collect student information such as personal details, academic performance, training records and achievements in curricular and cocurricular activities. Bright students are encouraged to participate in technical paper presentations, competitions, take up innovative projects etc. Slow learners are assisted to perform better in academics. • Counsellors interact with parents / guardians to appraise their ward's performance and call for parent teacher meetings of slow learners. • Programmes like Talk for 5 minutes (T5) and Talk and Write for Five minutes (TW5) is initiated at the college level to improve the mentor and mentee relationship. This helps students to communicate freely with their mentors without any hassles. B. Professional Guidance and Career advancement • In the welfare of students and total wellbeing, be it social, emotional, mental, physical, health, academics or financial, a facility known as Friends' Corner is provided within the campus for personal counselling through a well experienced full time consultant therapist. • Professional guidance and Career advancement counselling is provided to students

through lectures/talks by eminent speakers. These lectures/talks are conducted through department associations and professional chapters.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2057	138	1:15

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
138	138	Nil	16	48

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Dr. R V Parimala	Associate Professor	FIE [Institution of Engineers (India)]
2020	Dr. V Muralidhara	Associate Professor	FIE [Institution of Engineers (India)]
2020	Dr. Venkatesha K	Associate Professor	FIE [Institution of Engineers (India)]
2020	Dr.Krishnamurthy GN	Principal	FIE [Institution of Engineers (India)]
2020	Prof. T J Ramamurthy	Director	FIE [Institution of Engineers (India)]
2020	Dr. L. Vijayashree	Professor	Women Excellence by Animal Husbandry Department, GoK, on account of International Women's day
2020	Dr. L. Vijayashree	Professor	Contributions made from Net Health Workshop
2020	Dr. Priyashree S	Associate Professor	FIE [Institution of Engineers (India)]
2020	Mr. A.Kumar	Associate Professor	FIE [Institution of Engineers (India)]
2020	Mrs. Shubha Rao K	Associate Professor	FIE [Institution of Engineers (India)]

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	CSE,ECE,EEE,I SE,ME	VIII	01/06/2020	27/09/2020
BE	CSE,ECE,EEE,I SE,ME	VII	30/11/2020	16/02/2020
BE	CSE,ECE,EEE,I SE,ME	VI	01/06/2020	10/10/2020
BE	CSE,ECE,EEE,I SE,ME	V	30/11/2020	05/03/2020
BE	CSE,ECE,EEE,I SE,ME	IV	01/06/2020	06/10/2020
BE	CSE,ECE,EEE,I SE,ME	III	30/11/2019	20/02/2020
BE	CSE,ECE,EEE,I SE,ME	II	01/06/2020	29/09/2020
BE	CSE,ECE,EEE,I SE,ME	I	30/11/2019	14/03/2020
Mtech	CSE,LVS	I,II,III,IV	25/06/2020	23/09/2020
MBA	MBA	I,II,III,IV	31/12/2019	10/03/2020

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

As an affiliated institution of VTU, evaluation norms of the university are followed. The university has adopted major reform in evaluation by introducing credit based grading system from the academic year 2015-16 and the institute has adopted the same. The three internal tests performance is evaluated in a formative way. The college has evolved a few formative assessment methods to improve student performance viz: • Internal question papers and assignment questions are prepared such that all the questions are mapped to respective course outcomes with corresponding POs/PSOs. • Every question is accorded appropriate Bloom's cognitive levels to ensure quality. Question papers/ Assignment questions are scrutinized by the scrutinizer to check for compliance and is later reviewed and approved by the HoD. • For theory courses, open ended questions are asked for students to answer in the internal assessments on topics of higher program outcomes (POs) such as professionalism, environment and social responsibility of engineering decisions. This is intended to inculcate independent learning in students and to develop their capability in researching a topic individually using modern aids. • Additional experiments are introduced in laboratory courses to address higher program outcomes (POs). This helps students to explore many practical approaches in solving real time application problems. • As part of the internal assessment of Internships, committee is formed at department level consisting of HoD and senior faculty members for the assessment of the Internship of the students. • As part of the internal assessment of projects and seminars, Project Review Committee is

formed for each department consisting of Head of the Department, Project In charge and senior faculty members for the continuous assessment of the project work of the students.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

As an affiliated institution of VTU, academic calendar of the university is followed for the conduction of internal and external assessments for both theory and laboratory courses. • The academic calendar of the institute is planned well in advance in accordance with the university academic calendar and communicated to all the stake holders through CMS and the same is published in the college website. • The Institutes academic calendar depicts the dates of various programs planned to be conducted during the semester along with schedules for internal assessment. • Based on the calendar of the institute, a detailed day wise academic calendar is prepared which contains dates of curricular, cocurricular and cultural activities. • The department activities are conducted as per the academic calendar and a compliance report is prepared at the end of the semester. • If there is noncompliance, reasons will be recorded with suitable plan of actions.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://www.bnmit.org/students-performance-learning-outcomes/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
LVS	Mtech	VLSI Design and Embedded System	5	5	100
ISE	BE	Information Science and Engineering	55	54	98.18
EEE	BE	Electrical and Electronics Engineering	59	55	93.22
ME	BE	Mechanical Engineering	69	69	100
ECE	BE	Electronics Communication and Engineering	119	113	94.95
CSE	BE	Computer Science and Engineering	138	134	97.10
SCS	Mtech	Computer	4	4	100

2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://www.bnmit.org/students-satisfaction-survey/>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION**3.1 – Resource Mobilization for Research**

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	730	VGST	20	10
Any Other (Specify)	730	AICTE-MODROBS	13	10.4
Any Other (Specify)	1825	DST	287	60
Any Other (Specify)	730	AICTE-MODROBS	12	9.2

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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
FDP on "AI Applications in Electric Power Systems and Locomotives"	Electrical and Electronics Engg.	20/01/2020
Webinar on "Electrical Switch gear and its applications"	Electrical and Electronics Engg.	27/06/2020
Webinar on "Intelligent Motor Control Center"	Electrical and Electronics Engg.	26/06/2020
Skill development program on "Mathematical Modeling of Electrical Systems using MATLAB and SIMULINK"	Electrical and Electronics Engg.	03/02/2020
Technical talk on "Basics of Electrical Engineering Design"	Electrical and Electronics Engg.	02/11/2019
Technical talk on "Power System Harmonics"	Electrical and Electronics Engg.	26/10/2019
Technical talk on "DC-DC Converters"	Electrical and Electronics Engg.	15/10/2019
Technical talk on "Basics of UPS"	Electrical and Electronics Engg.	15/10/2019

Workshop on "Internet of Things using Raspberry Pi"	Electrical and Electronics Engg.	11/10/2019
Digital Design Flow using Xilinx and MATLAB tools for Image Processing Applications",	Electronics and Communication Engineering	20/01/2020
Research and Innovation for Growth	Information Science Engineering	20/01/2020
Unleash the Hidden Potential in You (Virtual Workshop)	Information Science Engineering	27/05/2020
Technical talk on Overview of Indian Space Program	Electronics and Communication Engineering	18/10/2019
Technical talk on Nanotechnology and Role of EDA	Electronics and Communication Engineering	20/09/2019
Technical talk on Micro Electromechanical Sensors	Electronics and Communication Engineering	20/09/2019
Technical talk on Evolving Memory Technology and its Impact on Computer Architecture	Electronics and Communication Engineering	21/09/2019
Technical talk on Project Management: A Practical Approach	Electronics and Communication Engineering	16/10/2019

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Data entered in excel	Data entered in excel	Data entered in excel	01/07/2019	Data entered in excel
View File				

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
BNMIT Incubation Centre	Tedora Technologies	BNMIT	Tedora Technologies	Software Development	01/12/2019
View File					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	25000	50000

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
CSE	3

MBA	1
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3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Department of Computer Science Engineering	21	5
International	Department of Electrical and Electronics Engineering	9	6.23
International	Department of Mechanical Engineering	9	2.5
International	Department of Electronics and Communication Engineering	19	5
International	Department of Maths	1	2.7
National	Department of Maths	1	0
International	Department of Physics	3	1.5
International	Department of Chemistry	11	2.55
International	Department of Information Science and Engineering	11	3.97
International	Master of Business Administration	4	0

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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Master of Business Administration	2
Information Science and Engineering	5
Electronics and Communication Engineering	7
Mechanical Engineering	1
Electrical and Electronics Engineering	2
Computer Science Engineering	4

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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Data is provided in Excel	Data is provided in Excel	Data is provided in Excel	2019	0	Data is provided in Excel	Nil
Data is provided in Excel	Data is provided in Excel	Data is provided in Excel	2020	0	Data is provided in Excel	Nil
View File						

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Data is provided in Excel	Data is provided in Excel	Data is provided in Excel	2020	Nil	Nil	Data is provided in Excel
Data is provided in Excel	Data is provided in Excel	Data is provided in Excel	2019	Nil	Nil	Data is provided in Excel
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	21	206	147	83
Presented papers	14	9	Nil	1
Resource persons	1	9	3	5
View File				

3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Data is provided in Excel	Data is provided in Excel	Nil	Nil
View File			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Acknowledgement	Awarding Bodies	Number of students Benefited
Quiz on Kargil War	Secured Second Prize	Bangalore Group A, Karnataka and	1

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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachha Bharath Abhiyaan	NSS, Youth Red Cross (YRC)	16	4	50
Senior Citizen health check up camp	NSS, Jnana Jyothi Trust	Health Check up	5	20
COVID-19 Precaution videos	2 KAR Bn NCC	COVID-19 Precaution videos	1	22
Online COVID-19 Training	Diksha App	COVID-19 Training	1	22
AarogyaSetu App	2 KAR Bn NCC	AarogyaSetuApp Awareness	1	22
EX Yogdan - Preparation of Mask	Bangalore Group 'A'	Preparation of Mask	1	16
Online awareness of "Fit India Freedom Run"	DG NCC	Fit India Freedom Run	Nil	22
Fit India Online awareness Campaign - 2020	DG NCC	Fit India Freedom	Nil	22
International Yoga Day	BNMIT, Bangalore Group 'A'	Online Yoga session	1	22

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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
NIL	NIL	NIL	0

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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/	Duration From	Duration To	Participant
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		industry /research lab with contact details			
MoU	Internship	Asia University, Taichung, Taiwan	16/07/2019	30/07/2019	8
MoU	Internship	Old Dominion University, Norfolk , USA	08/07/2019	06/08/2019	7
MoU	Internship	Republic Institute for vocational Education and Minsk State	15/07/2019	09/08/2019	3
MOU	Internship	World 1 Solutions, Gurgaon, Haryana - 122003	26/01/2020	20/02/2020	19
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Institute of Health Management Research (IIHMR), Electronic city, Bangalore	02/07/2019	<ul style="list-style-type: none"> Joint proposal writing to get funded projects on health management and technology Knowledge sharing by experts from both ends 	1
Ajimus Technology Pvt., Ltd. Bengaluru	19/02/2020	Industry standard IoT Lab establishment	Nill
Manubhu Technology Pvt Ltd, Bangalore	18/11/2019	Consultancy work, research activities and provide internship opportunities	Nill
Digital Shark Technologies, Pvt., Ltd, Bengaluru	03/02/2020	<ul style="list-style-type: none"> Conduct FDP /Workshops / Events /Trainings in IoT and Embedded Systems Consultancy Skill 	8

		development Programms	
Tripartite MoU between Rajarajeshwari Medical College and Hospital (RRMCH), BNM Institute of Technology and Institute of Health Management Research (IIHMR)	23/10/2019	<ul style="list-style-type: none"> Joint proposal writing to get funded projects on medical devices using various technology Knowledge sharing by experts from each institution Medical or diagnostic data for student or faculty projects 	2

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
270	225.43

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Others	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Newly Added
Seminar Halls	Existing
Laboratories	Newly Added
Class rooms	Existing
Campus Area	Existing

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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Easylib Library Management Software	Fully	4.2.25	2006

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	374848	11641007	1402	649029	376250	12290036
Reference Books	7901	2617611	73	59563	7974	2677174
e-Books	13139	Nill	11113	Nill	24252	Nill
Journals	428	1054244	88	252376	516	1306620
e-Journals	16996	5873500	1669	1743000	18665	7616500
Digital Database	12442	80000	Nill	Nill	12442	80000
CD & Video	2708	Nill	9	Nill	2717	Nill
Library Automation	1	133470	Nill	17700	1	151170
Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Faculty of Mechanical Engineering	Heat Transfer Lab	https://vroom.co/bnmit/	29/05/2020
Faculty of Mechanical Engineering	Foundry and Forging lab	https://vroom.co/bnmit/	29/05/2020
Faculty of Electrical Engineering	Control Systems lab	https://vroom.co/bnmit/	29/05/2020
Faculty of Electrical Engineering	Basic Electrical Engineering lab - BNMIT	https://vroom.co/bnmit/	29/05/2020
Faculty of Electrical Engineering	OP-AMP and LIC lab	https://vroom.co/bnmit/	29/05/2020
Faculty of Electronics and Communication Engineering	Micro Controller lab	https://vroom.co/bnmit/	29/05/2020
Faculty of Electronics and Communication Engineering	Embedded Controller lab	https://vroom.co/bnmit/	29/05/2020

Faculty of Electronics and Communication Engineering	Analog circuits lab	https://vroom.co/bnmit/	29/05/2020
Faculty of Mechanical Engineering	Mechanical Measurements and Metrology Lab	https://vroom.co/bnmit/	29/05/2020
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	936	671	890	12	0	48	205	124	0
Added	60	60	60	0	0	0	0	0	0
Total	996	731	950	12	0	48	205	124	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

124 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
CODE –TANTRA	https://bnmit.codetantra.com/
Laboratory Conduction Recording	https://vroom.co/bnmit/

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
555.54	624.79	654	630.25

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

<p>Well defined policies and procedures are in place for the staff and students of BNM Institute of Technology Staff Policies • Service Rules • General Policy for consultancy and projects • Recruitment and promotion policy • Financial Power • Purchase Policy • Recognition and appreciations • Financial Assistance • Faculty Performance Evaluation • Incentives Policy • Ph.D. Allowance • Research @ BNMIT a policy document • Medical fund and reimbursement policy • Staff Insurance: Staffs are insured for eligible gratuity amount Student policies • Admission • Academic • Examination • Placement Policy • Scholarships • Student Insurance : All Students are insured for Rs.100000/- The details of the above policies are available in the link provided</p> <p>https://www.bnmit.org/policy-and-procedures/</p>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	BNMIT- Cultural scholarship for medal winners and participants in cultural events, ASME-RE Boat Competition, Action Based Video Summorization	40	592000
Financial Support from Other Sources			
a) National	Department of Social welfare, Backward community and minority office (Vidyasiri), AICTE	597	19054528
b)International	NIL	Nill	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Data is provided in Excel	01/07/2019	Nill	Data is provided in Excel
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2020	Data is provided in Excel	Nill	Nill	Nill	Nill
View File					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nill	Nill	Nill

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Data is provided in Excel	Nil	Nil	Data is provided in Excel	Nil	Nil
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	Nil	Data entered in Excell	Data entered in Excell	Data entered in Excell	Data entered in Excell
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GRE	7
TOFEL	10
Any Other	16
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
KalaBhageerathi	Intra Institute	150
Talents Day	Intra Institute	50
BNMIT IDOL	Intra Institute	40
40th Y. Nagesh Rao Maanay Memorial Inter-collegiate Tournament-2019	Inter College Level	624
Fresher's fest (Inter Department Sports Activities during First Year Induction Program)	Inter Department	190
Staff Sports	Inter Department	300
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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ International	Number of awards for	Number of awards for	Student ID number	Name of the student
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			Sports	Cultural		
2019	Gold Cup	International	1	Nil	1BG18ME029	Prajwal Sharath
2019	Gold medals	National	3	Nil	1BG18ME029	Prajwal Sharath
View File						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

• Each student will be member of one of the professional society / student chapters / branch namely IEEE, ISTE, IE, CSI and BITES. As a part of this activities will be organized like talks from eminent Speakers, industrialists who deliver speeches on topics relevant to current educational scenario. • Various co-curricular activities like Technical Talks, Seminars, Workshops, and Symposiums are regularly organized by the associations to enhance the technical skill set of the students. • Though BNMIT is an affiliated institute efforts are made to enrich the curriculum by incorporating contents beyond the syllabus and add on courses. • Few students also represent in Department Advisory Board and IQAC as members and give their valuable suggestion/feedback for quality improvement. • Students also represent as members in various committees of the college viz., library committee which looks into the library requirements, anti-ragging committee which plans out ways and means to facilitate the smooth transition of the fresher's to a professional program and mentoring cell etc. • Students are actively involved in BNM Friends of Nature club and NSS activities of the institute. Nature Club, NCC and NSS units of the institute conducts environmental awareness and societal benefit programs such as Cycle Street, Annual Srishti sambhrama program, Tree Planting, Documentary shows on Flora and fauna, Plastic Free Awareness program, Swachh Bharath Abhiyaan etc.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

BNMIT ALUMNI ASSOCIATION – BNMIT AA Alumni Association was formed in 2005 with a membership of over 200 with a motto: • Alumni to come back and interact with students • Alumni to take sense of pride of responsibility for doing good things at BNMIT. BNMIT AA is committed to support professional growth, strengthen friendship, continue your connection with fellow graduates to allow the opportunity for involvement with various activities of the association. This association offers alumni the chance to keep up with happenings at BNMIT and to interact in more than one way, to bring closer to fellow talented classmates as well as to college life. Objectives of BNMIT AA • To spread awareness about the progress and achievements of BNMIT. • To create an awareness on opportunities for current students for placement and higher studies. • Getting assistance from alumni for placement activities. • 2 to 3 alumni are invited to share their expertise and experience to the pre-final year students once every month. • A well established alumni portal "Alma Connect" is in operation with about 2825 alumni as members provides right platform for interaction and networking. • 9 Alumni lecture series were conducted across all departments for the year 2019-20.

5.4.2 – No. of enrolled Alumni:

2825

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

1 Alumni series - Pre-final year students for career guidance. 2 Annual Alumni Meet on 2/2/2020. 3 Mock Interviews for Pre-final year students on 9th - 10th May 2020. 4 9 Alumni lecture series were conducted across all the departments for the year 2019-20.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The management has delegated the decision making responsibilities in daily Operations to Principal and HODs. Major decisions in framing policies concerning the Institution are taken by the top management through the feedback of stakeholders. The various teams strive with coordinated effort to lift up the brand name of the College in all assigned areas. Apart from these, the institution has also applied for Autonomous status. The various functions that are delegated include Teaching-Learning Process, Academic aspects, Research and Development, Innovation, Entrepreneurship Development, Faculty Empowerment, Student counselling, Planning and Development of department infrastructure, Institutional Growth and Appraisal, Institutional Promotion, Conduction of Exam, Industry Institute Interaction, Alumni and Stakeholders interaction, Student Discipline, Library and College Ambience, etc,. Regular review meetings are conducted to monitor the performance of the various functions through the following committee - • Antiragging Committee • Grievances Redressal Committee • Library Committee • Sports Committee • Cultural Committee • Alumni Interaction Committee • Research Committee Participative Management System. The institute promotes a culture of participative management by involving staff and students and by taking feedback from all the stakeholders in all its decision-making process. The participative management approach is practiced at different levels in the college and all the stakeholders are involved in the process of decision making based on collective wisdom. The stakeholders participate in the following committees and contribute to the decision making. Participatory Management System for academic and administrative activities • Conduction of Online classes and internal assessments • Governing Council Meeting • HoDs Meeting • Department advisory board meeting (DAB) • Program Assessment and Audit Committee meeting (PAAC) Participatory Management System for Quality Assurance • Internal Quality Assurance Cell (IQAC) • Alumni Meeting • Parents Teachers Meeting • Students Counsellors Meeting • College Faculty Meeting. • Food distribution during lockdown due to COVID

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	The curriculum development is carried out by the affiliating university. However, institute deputed faculty members to the workshops conducted by the university on curriculum development. Further, senior faculty members of the institute are part of BoS in the affiliating university. Institute communicates curricular gaps

from time to time to the university. These gaps are addressed at department level by arranging value added courses, guest lectures, technical talks, and industry visits. Also the institute has applied for autonomous which helps in designing the curriculum.

Teaching and Learning

The following strategies are adopted by the institution for effective teaching learning

- Appointment of well qualified, competent teachers and provide opportunities for their continuous development through training.
- One third of the faculty are doctorates.
- Good faculty retention.
- Conduction of online classes and internal assessments.
- Students are exposed to content beyond syllabus to inculcate the spirit of lifelong learning through engineering exploration lab and experiential learning lab setup in campus.
- A well developed process is in place for planning, execution, measurement of outcome, feedback and to take corrective measures.
- Remedial classes (online and offline) were conducted for slow learners to bring them in par with other students.
- Attainment of course outcomes is assessed and action plan is proposed to overcome deficiencies/gaps if any.
- Organization of online FDPs.
- Internet/WiFi facilities are provided.
- Students are encouraged to visit foreign universities for internships.
- Students are also encouraged to visit industries.
- Platforms are provided for continued and sustained interactions.
- Institute has applied for autonomous status which gives flexibility for designing the curriculum.
- More emphasis was given to students for carrying out their projects and internships through online/offline mode.

Examination and Evaluation

The University conducts the semester end examination whereas three internal tests performance is evaluated by the institution.

- The internal test questions are set to map to the course outcomes and program outcomes.
- The question paper prepared shall address different Bloom's Levels.
- Scrutiny of the question paper is done for ensuring quality.
- The teachers also prepare scheme of evaluation.
- Students are asked open ended questions on topics of

professionalism, environment and social responsibility of engineering decisions. This helps students to develop their capability to research on a topic individually and present the same. • The students have access to the answer books to check fairness of evaluation. This year due to COVID online internal assessments were carried out using AI proctored platform.

Research and Development

The following strategies are Implemented with respect to Research Development • Research groups among faculty have been formed. These groups work on specific research problems. • Through DST funding (NewGen IEDC) students are given an opportunity to convert their innovative ideas into prototypes. • The institute has received funding from VGST and AICTE-MODROBS, the facilities created out of the funding shall be utilized to carry out research. • Institute has filed Nine patents during the academic year 2019-20. • A well defined policy for providing cash incentives to researchers for their quality research publications is in place. • Work load is reduced for the faculty involved in research. •The faculty have also submitted proposals to funding agencies.

Library, ICT and Physical Infrastructure / Instrumentation

• The facilities are added/created on regular basis. • Digital library, e learning resources, information display and notification etc., are available for the students. • As a part of Digital Library VTU Consortium, e Resources (e books and e journals) are subscribed for the current databases as per the consortium agreement. • Computers are made available in the Library premises for the hassle free and easy access of resources by the students and faculty members. • Library working hours are extended up to 7.00 pm to facilitate students for effective learning. • Additional books are added on life skills for reference of faculty and students. • It is proposed to create a new library with ultra modern facilities. • Facilities are updated periodically (ex: computers, software's , electronic equipment) to meet the growing and changing needs of the college. • Appropriate measures are

taken to maintain safety, security, hygiene, cleanliness and greenery in the campus. • Provisions are made in the budget for the purchases and maintenance of the same. • Apart from providing for academic requirements, quality infrastructure is provided to encourage the co-curricular and extracurricular activities of students for their holistic development. • Infrastructure is updated as per the requirements of the affiliating University which is monitored by the Local Inquiry Committee every year. However, each department assesses the additional requirements every year which is discussed in the GC and budget provision is made for the same. Some examples include availability of 936 computers against the requirement of 380 , Increasing internet bandwidth from 100 Mbps to 124 Mbps, new labs such as Engineering Exploration lab and Experiential learning lab are introduced for the students to enhance multidisciplinary skill sets, online AI proctored Internal assessments and classes were carried out through licensed softwares and labs experiments were recorded to made available to students. • New equipments were added in the laboratories using AICTE-MODROBS fund.

Human Resource Management

The following strategies are adopted for human resource management • Encourage faculty for higher studies/research. • Incentives for research publications. • Publication in Scopus/Web of Science is made mandatory for all faculties. • Seed money for research. • Moocs courses are made compulsory for all faculty. • Encourage faculty to attend FDPs and workshops by providing financial support. • Tuition fee reimbursement for children of non teaching staff.

Industry Interaction / Collaboration

The following strategies are adopted for industry interaction / collaboration • MOUs with industries to facilitate research activities, consultation, student internship and industry visits. • Skill Development programs are conducted across all departments by industry experts. • Internship is made compulsory for all students. • Industry experts are invited for lectures on special

occasions and involving them in DAB. • Inviting industry experts as adjunct faculty. • Encourage students and faculty to participate in industry organized competitions.

Admission of Students

The admission process of the college is Publicized through digital marketing, Social media, website, Prospectus, newspaper, magazines and College management software (CMS). Banners are displayed in the campus for giving the details of admission. Stalls are set up in educational fairs to publicize on the admissions. However the majority of admissions have always been through recommendations of alumni, parents, current students and faculty.

- The Institution is affiliated to Visvesvaraya Technological University (VTU), Belagavi and is approved by the All India Council for Technical Education (AICTE), New Delhi. Hence admissions to all the programs are as per the VTU/AICTE/Govt. of Karnataka norms. All the admissions are approved by the Directorate of Technical Education (DTE), Govt. of Karnataka, and VTU.
- College admits students through CET, COMEDK, GATE, MAT, GMAT, CAT and Management as approved by Government of Karnataka in line with VTU and AICTE norms.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Examination	<ul style="list-style-type: none"> • As an affiliated institution of VTU, examination norms of the university are followed. The university has adopted major reforms in examination process by introducing online Question Paper Delivery System. VTU evaluates answer scripts digitally, thus reducing the overall time required for the release of the semester end results. Photocopies of the answer scripts are also provided to the students digitally on the need basis through SMS and email. This year internal assessments and evaluation was done online using AI proctored platform due to COVID.
Planning and Development	<ul style="list-style-type: none"> • Institute has a Campus Management System (CMS) CMS helps in automating lesson plan preparation, student attendance management, fee payment, notifications, Counselling and Staff leave Management. Official

	<p>communication to all the stake holders including staff, students and parents happen online. CMS enables the processes to reduce the time spent, save costs and helps all stakeholders involved in the process. Apart from these regular online classes and meetings were conducted using licensed Microsoft teams.</p>
Administration	<ul style="list-style-type: none"> • The college has Biometric system for taking attendance for teaching and nonteaching staff. The college campus is equipped with CCTV Cameras in all class rooms, laboratories and at strategic points. Admission process happens online, fee due and leave management are made easy through CMS.
Finance and Accounts	<ul style="list-style-type: none"> • The college uses CMS software which helps collection of students' fees in digital and transparent manner. This helps to increase the efficiency of staff towards the accuracy in financial transactions. The college conducts regular audit of annual books of accounts. As per the norms of VGST and MODROBS-AICTE equipments were purchased through e-tender. Management has provided COVID funds to staff and needy students.
Student Admission and Support	<p>College admits students through CET, COMEDK, and Management quota as approved by Government of Karnataka in line with VTU and AICTE norms. The Government of Karnataka has established Karnataka Examination Authority (KEA). KEA conducts entrance test and admits students (online) based on the eligibility/merit, to Government quota share of seats in Engineering and Masters programs. Similarly COMEDK conducts online entrance test and admits students based on the eligibility/merit, to COMEDK quota share of seats in Engineering.</p> <ul style="list-style-type: none"> • At college level, BNMIT CMS supports students by providing online access to curriculum matters like calendar of events, time table, lesson plan, course materials, attendance status, internal marks etc. Due to COVID online Support was extended by faculty for counselling students in COMED-K admissions. Virtual open day was conducted to provide insights into different streams of engineering.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2020	Data is provided in Excel	Data is provided in Excel	Data is provided in Excel	Nill
2019	Data is provided in Excel	Data is provided in Excel	Data is provided in Excel	Nill
View File				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Prerana – The New Warriors in the New Normal World! (Virtual FDP), BITES	NIL	29/05/2020	29/05/2020	50	Nill
2019	Imperati ves of Eng ineering Education: Enhancing skills and employabil ity - Industry Institute Interactio n-IEI	NIL	19/07/2019	19/07/2019	13	Nill
2019	Transcen ding Language skills- FDP, BNMIT	NIL	15/07/2019	25/07/2019	39	Nill
2020	Transcen ding Mentoring Skills	NIL	16/01/2020	18/01/2020	35	Nill
2019	BITES	NIL			51	Nill

	Annual Convention 2019 "Communication Computing Standard"		22/11/2019	23/11/2019		
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Data is provided in Excel	Nill	01/07/2019	30/06/2020	0
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
138	138	159	159

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • Provident fund and gratuity schemes as per the Management norms gives scholarship to the extent government norms • Leave benefits like casual leave, earned leave, maternity leave, study leave, sick leave etc. as per the Institute norms. • Ph.D. allowances for faculty members perusing research. Further increase in allowance would be considered based on progress of research work. • Financial assistance to the staff for paper presentation/ participation in conference/ FDP's/ workshops/ any training programs registration in India and abroad. • Cash incentives for paper publication in reputed journals. • Cash incentives for self 	<ul style="list-style-type: none"> • Leave benefits like casual leave, earned leave, maternity leave, study leave, sick leave etc. as per the Institute norms. • Reserved medical fund for emergency medical expenses. • Insurance on complete gratuity amount. 	<p>The Management gives scholarship to the extent of total amount of Rs. 25 lakhs per year.</p> <ul style="list-style-type: none"> • CET students admitted within the ranking 1000 will be given a onetime scholarship of Rs.25,000/ at the time of admission. • ComedK students admitted within ranking 3000 will be given a onetime scholarship of Rs.10,000/ at the time of admission. • Merit scholarship of Rs.10,000/ will be given to all the students securing CGPA of above 9.5 in 1st semester. • Scholarship of Rs.10,000/ will be given to all the students securing more than 90 percent in any semester. • Scholarship of Rs.10,000/ to Rs.25,000/ will be given to rural Karnataka students from economically weaker

appraisal rating of 90 percent and above. • Reserved medical fund for emergency medical expenses. • Insurance on complete gratuity amount.

section admitted through CET. • Student who has secured more than 60 percent in exams and has represented VTU in sports is awarded Rs.10,000/. • Student who has secured more than 60 percent in exams and has represented Karnataka in any sports is awarded scholarship of Rs.25,000/. • Student who has secured more than 60 percent in exams and has represented our Country in any sports is awarded scholarship of Rs.50,000/. • Cultural Scholarship of Rs.10000 to Rs.25000 to VTU youth festival members. Gold Medals • All students securing Ranks in VTU are awarded gold medals. • Students securing 90 percent and above in first four semesters are awarded a gold medal and similarly those securing 90 percent in the last four semesters are also awarded gold medals. Insurance: All Students are insured for Rs.100000/-

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Institution conducts internal and external financial audit regularly through authorized auditor.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Nil	0	Nil
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6.4.3 – Total corpus fund generated

100000000

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority

Academic	Yes	Experts from reputed institutes	Yes	IQAC Internal Committee
Administrative	Yes	Experts from reputed institutes, Authorized Auditor	Yes	IQAC Internal Committee

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

- Every semester, Parents Teacher meeting is arranged to discuss on the performance of their wards in internal and external assessments.
- Parents' feedback is taken for overall development of the department and Institution.
- Few Parents are also a part Department Advisory Board (DAB) of the departments and give their valuable suggestions for the quality enhancement.

6.5.3 – Development programmes for support staff (at least three)

- Training was provided to all support staff on fire safety and usage of disinfection tunnel.
- Supporting staff developments programs are conducted at the department levels regularly. During the current year 6 supporting staff have been deputed to Toyota Kirloskar Private Limited for industrial training on engine assembly and disassembly.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

- Formation of research team at institute level for promoting research activities.
- Enhancement of Industry linkages through collaboration.
- Implementation of Skill Development Programs (SDPs).
- Implementation Alumni lecture series.
- Introduction of Value added courses like T5, TW5, WP5, EEL and ELL for overall development of the students.
- As a part of innovative teaching method faculty members have created laboratory experiment videos.
- Industrial Visits is made compulsory for students.
- Applied for Artificial intelligence and Machine learning course in engineering.
- Faculty appraisal is revised by including important attributes such as research, consultancy, patents, MoUs, Moocs Courses, innovative teaching practices etc for the academic year 2019-20.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Internal Academic Auditing -1	27/09/2019	16/12/2019	30/12/2019	138
2020	Internal Quality Assurance Cell (IQAC) Audit - 2	27/09/2019	09/03/2020	16/03/2020	138

2020	External NBA Auditing	27/09/2019	17/02/2020	17/02/2020	138
2020	Participated in NIRF and ranked in the 186 position	27/09/2019	11/06/2020	11/06/2020	2200
2020	Online teaching learning using techno logical tools	27/09/2019	01/04/2020	30/06/2020	2200
2020	Compulsory for faculty to take MOOCS/NPTEL courses	27/09/2019	01/07/2019	30/06/2020	138
2019	Internal Quality Assurance Cell (IQAC) Meeting	27/09/2019	27/09/2019	27/09/2019	22
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Women in Science under BNMIT Science Day	28/02/2020	28/02/2020	175	150

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
<p>1. Solar panels are fixed on the roof tops of the buildings in the campus. 2. 100 KW solar energy is generated which is transferred to the electric grid. Use of grid connected solar energy helps to conserve electricity in daily use. 3. About 25 percent of power requirement of the Institute is met by the renewable energy sources. 4. Tube lights are replaced by LED/ CFL lamps. 5. Vermi composting is implemented. 6. Rain water harvesting is practiced in the campus, Run away water is collected in 5 tanks. 7. The open soil area of the campus is covered by diversified flora that helps in retaining and absorbing rain water Thus helping in increase of ground level of water. It also helps in avoiding soil erosion. 8. To encourage the use of bicycles by the nearby students, loan with 0 percent interest is provided by the Management to buy the bicycle for their transportation. 9. All internal communications of Administration, Office and Departments are done through electronic communication rather than printed</p>

circulars. 10. In association with KSPCB, e-waste is disposed through the authorized vendors.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	2
Ramp/Rails	Yes	1
Braille Software/facilities	Yes	1
Rest Rooms	Yes	1
Scribes for examination	Yes	1

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	Nil	Nil	01/07/2019	0	Data is provided in Excel	Data is provided in Excel	Nil

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
<ul style="list-style-type: none"> Orientation Programs to Fresher's. Student rule book- It consists of the disciplines to be observed in the campus, Calendar of events, rules and code of conduct to be followed in the institute. T5 and TW5 Programmes. 	07/08/2019	<ul style="list-style-type: none"> Dress code, code of conduct in the campus, adhering to timings is regularly monitored by HoDs and faculty. T5 and TW5 follow up classes will be conducted as per the time table.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Blood Donation Camp	19/02/2020	19/02/2020	150
Class conducted to school students	30/10/2019	30/10/2019	20
Sadbhavana Diwas	21/08/2019	21/08/2019	500
"T5 (Talk for 5 minutes)" A personality development programme	07/08/2019	17/08/2019	419

"TW5" A programme to improve written skills	10/02/2020	22/02/2020	419
Essay Competition On "Say No to drugs"	18/09/2019	18/09/2019	204
Swachha Bharath Abhiyaan	11/09/2019	11/09/2019	54
International Yoga Day	21/06/2020	21/06/2020	100
Class conducted to school students	19/02/2020	19/02/2020	24
Constitution day	26/11/2019	26/11/2019	435
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. The campus is a Plastic free zone. 2. Garbage disposal system to segregate bio degradable waste. 3. Rain water harvesting is followed in the campus 4. 100KW capacity solar panel is installed. 6. Institute has plantation of trees and plants that make the environment carbon dioxide free. More than 1500 types plants are available in the campus. 7. To save paper, official communication is done through e-mail, LMS software, website, and other mediums rather than printed circulars . Details of activities conducted are shared to stake holders through social media. 8. Periodic review is taken on the status of equipments such as computers, printers and other Accessories which are not in working condition are scraped to e-waste management team. 9. Gardens and nursery: vacant land has been earmarked for grassy patches including a nursery. Garden areas add to the beauty of the college besides improving carbon footprint. They also prevent soil erosion. 10. Campaigning and awareness programme for sustainable development and eco-friendly life style are conducted through Nature Club, NSS and NCC. Programs conducted during 2019-20 is as follows • Save the Tree Campaign • Environment Quiz program. • Annual Srishti sambhrama program. • Tree Planting. • Documentary shows on Flora and fauna. • Swachh Bharath Abhiyaan. • Precautions to be taken to prevent COVID-19. • Aarogya Setu App Awareness. • BNMIT Cadets prepared mask at their homes and sent it to ANO through post.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice - 1 Title of the Practice: EEL (Engineering Exploration Lab) Goal

- To provide hands on training on interdisciplinary concepts and fundamentals
- To kindle the innovative skills and curiosity development in the students on interdisciplinary topics.

The Context

- Apart from looking for soft skills, industries want individuals who are ready to take up work on interdisciplinary areas immediately after joining their companies. Further, graduates with higher and better skills, adjust/adapt to a dynamic environment, and more effectively to the challenges and opportunities at work. Through Engineering Exploration Lab (EEL), the institute is aiming to produce skilled and industry-ready individuals in the multidisciplinary domains of current interest.

The Practice

- Students of 1st year B.E. have to undergo training in Engineering Exploration Lab.
- The course curriculum is designed by considering advanced topics in Electronics, Electrical, Mechanical, Computer science and Computational topics for complete semester (14 weeks). The time slot for Engineering Exploration Lab is included in regular timetable across all departments.
- The interactive

sessions include lecture and hands-on training. Major topics covered during EEL are listed below: Electrical Engineering- Concept of soldering station and build-up of regulated power supply (RPS), design of series and parallel combination of Light Emitting Diodes (LED) lamps, LED Lamp control using LDR, disassembly, and assembly of the automatic iron box, renewable energy sources to generate AC power for domestic applications, simulators, shielding of electronic appliances from EM radiation, PLC and HMI kit for industrial applications. Electronics Engineering - Introduction to simulation tools: MATLAB Simulink, LED Roulette circuit using 555 Timer IC, building simple speaker circuit, introduction to Arduino board: architecture applications, humidity and temperature measurement using Arduino UNO, cell phone detector. Mechanical Engineering- Use of Mechanical tools and devices, Identification of engineering materials, 3-D printing, development of aircraft model, hands on training in CNC machine, hydraulics pneumatic circuit and drive systems. Computer Science Engineering - Standard file system, working with MS office, wired and wireless communication components community, configuring and identifying IP address, ping messaging, browser settings, google drive file sharing and google group creation, team viewer. Evidence of Success • EEL has been in practice from 2019-20 academic year. The programme has an array of specialized interdisciplinary topics relevant to modern industrial applications. • Students have expressed positive feedback about the Engineering Exploration Lab and it will improve their innovative and curiosity in the interdisciplinary engineering areas. It increases the quality and standard of final year projects of students. Problems Encountered and Resources Required • Training the faculty members in all the engineering domain was challenging. • Creating and designing the course curriculum comprising of interdisciplinary topics with innovative and hands on training modules was challenging. Future plans • The institute is planning to take this to a higher level by introducing more courses with hands-on training that are more industry-specific. Best Practice - II Title of the Practice: WP-5 (Written and Presentation Skill) in house personality development training programs for improving Written and Presentation skills. Goal • To build capacities of students to enhance written, presentation and communication skills by motivating students to write blogs, E-mails, PPT Presentations of the technical and non-technical topics with proper vocabulary, etiquette, professional outlook, posture, and time management. The Context • Communication is both an art and a science. It often involves acts of speaking and listening, reading and writing. Increasing knowledge and awareness of some of the components involved in effective communication can serve to improve how we use those components personally. • Through WP5 programmes, institute is aiming to allow students to discover themselves in a positive manner and improve their written and presentation skills. The Practice • Framing the contents for the program was made through meeting with mentors of different departments and coordinators. The syllabus was framed for six days for fulfilling the expectations of the students related to writing, presentation, moral behavior, and etiquettes. • Major topics covered during WP5 program include language refinement, interpersonal negotiation or persuasion, self-appraisal and self-evaluation, self-monitoring of goals and career planning, societal behavior, situational responses, leadership skills, adaptability, digital detox, research mindset, networking curiosity and witting reviews and creating blogs. The participatory learning action approach was adapted. Following techniques were used to generate the maximum output from the program. • Theory input by PowerPoint Presentations, Lectures, Reading and Brainstorming etc. Practical experience through group tasks/ Group Activities, Roleplays, Case studies, etc. • Application of theory to the practical experience through rigorous and in-depth reviews, assignments, and handouts. Each session was started with ice breakers and followed by a brief input about the topic in hand. The tasks were mostly neutral in nature and carried out with time specifications. • The explanation of the concepts was made on the

multimedia projector, asking questions from the participants, and sharing experiences regarding the topic at hand. Each new day would start with a recap of the previous day's main topics. The participants have been asked questions about some issues which were not included in the training discussions but were relevant to the concepts discussed in the program. • After going through the assignments of each day, students were analyzed for their writing skills, communications and body language. One on one counseling was done with the participants to discuss their strengths and weaknesses. • In some critical and new topics, case study was made to understand the real word situations to have practical experience through role plays. • Last day was meant for students to present their positive thoughts along with their short and long term goals. Students presented their goals along with methods they are going to use to achieve the same with the timeline. • Follow up sessions was conducted on regular basis to see the progress of the students. Evidence of Success • All participants expressed their satisfaction in feedback sessions about the program, mentors and training methods employed. They added that the program was effective and it will improve their communication and managerial activities. They requested the management for more such programs for them in future. Improvements are noted in students' performance in their placement interviews. Through this program mentor mentee relationship has improved considerably. Problems Encountered and Resources Required • Training faculty members to adapt to the system was challenging. Future plans • The institute is planning to take this to a higher level by introducing programs such as creating research space and an innovative ecosystem for students and faculty to foster the needs of the society.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://www.bnmit.org/best-practices/>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

• Institution has grown horizontally as well as vertically since its time of Inception and is recognized as the premier academic institution in engineering in VTU. • BNMIT provides engineering education and undertakes engineering research that together serves to develop creative technological leaders and advance the frontiers of engineering knowledge. • BNMIT is equally passionate about research and constantly which strives to strengthen it by twinning with R and D institutions and industries at national and international levels which has resulted in getting funding from VGST and AICTE. • Institute has lot many accolades by having NIRF ranked at 186, NAAC accreditation ('A' Grade) to its credit. All the UG branches are accredited by NBA for a period of three years (up to 30 June 2021). • BNMIT has excellent, experienced and dedicated faculty members who are its pillars of strength. One third of the faculty are doctorates. • The college provides Industry institute Interaction, Performance enhancement programs, Placement training and Career support programs, multiple skill acquisitions, orientation and induction programs, scholarships and rewards for the deserving students and an elegant and charming dress code. The Talk 5 (T5), Talk and Write 5 • (TW5) and Write and Present 5 (WP5) programs are yet another unique concepts wherein students are motivated to overcome their fear and hesitations. The purpose is to allow students discover themselves in a positive manner which will help them in finding their goals and achieving them. Engineering Exploration lab and Engineering experiential Learning Labs provides exposure to multidisciplinary learning with additional skills beyond the syllabus to make them industry ready. • The alumni's of the institute have spread all over the world and are working for prestigious

organizations. Graduates from the institute are also pursuing higher studies in the prestigious institutions across the globe. • The most distinctive feature which is in line with the institutes vision is the institute's presence in helping the society and community through various social events, activities. Events like awareness campaigns, health camps, soft skill training, awareness rally, startups, and environment awareness programs are organized by the management at regular intervals. • At BNMIT, students are not only prepared for gaining knowledge but also enough opportunities are given to equip themselves with cultural activities, sports, nature awareness, adventure activities, social services, etc. • Institute has well established ED Cell which conducts workshops, seminars, competitions to motivate budding Entrepreneurs. DST has granted Rs. 2.87 Crores to convert student ideas into prototypes. • A well established Training and Placement department strives hard to prepare students to get jobs on campus through rigours and continuous training by inviting many MNCs for campus recruitment resulting in a high percentage of placements compared university average.

Provide the weblink of the institution

<https://www.bnmit.org/institutional-distinctiveness/>

8.Future Plans of Actions for Next Academic Year

1.Implementation of Engineering Exploration Lab to motivate first year engineering students to explore multi disciplinary aspects of engineering.
 2.Enhancement of Industry linkages through MOUs 3.To motivate students to develop and implement innovative ideas through organised workshops, seminars, hackathons, prodothons and similar competitions. 4.Increase in the number of student ideas to convert them into prototypes under NewGen IEDC funded by DST. 5. Motivate students to Patent their ideas/prototypes. 6. Strengthen ED Cell to motivate students to become Entrepreneurs.