Yearly Status Report - 2017-2018

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

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr. J. Thipperudrappa**
Phone no/Alternate Phone no.	**08026711780**
Mobile no.	**9847887317**
Registered Email	**bnmitprincipal@gmail.com**
Alternate Email	**principal@bnmit.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.bnmit.org

4. Whether Academic Calendar prepared during the year

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. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.10**	**2017**	**30-Oct-2017**	**29-Oct-2022**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**28-Feb-2017**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Participated in NIRF and ranked in the band of	**03-Apr-2018** **1**	**2200**

151-200			
Initiation of NBA process for accreditation of 5 UG programs of Engineering	01-Jul-2018 3		1900
Internal Quality Assurance Cell (IQAC) Meeting -1	29-Jul-2017 1		16
Internal Quality Assurance Cell (IQAC) Meeting -2	10-Mar-2018 1		17
Internal Quality Assurance Cell (IQAC) Meeting -3	26-May-2018 1		17
Internal Quality Assurance Cell (IQAC) Meeting -4	30-Jun-2018 1		15

8. Provide the list of Special Status conferred 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
Institution	New GenIEDC	DST	2017 5	28700000
Department of Mechanical Engineering	Student Project Programme -41st Series	Karnataka State Council for Science & Technology (KSCST)	2018 1	6000
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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 :	**4**
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)

• Strengthened Industry institute interaction • Initiation of NBA process for accreditation of 5 UG programs of Engineering • Implementation and dispersal of cash awards for research publications by faculty members • Initiation of start of NCC program • Creation of consultancy policy

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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
Creation of consultancy policy	Consultancy policy has been created and made available to faculty members. Also published in college website.
Implementation of Effective faculty appraisal system	Faculty appraisal form covering academics, research and administrative aspects has been designed. Faculty with more than 90 appraisal will be awarded cash incentives. The policy in this regard is published in college website.
Implementation and dispersal of cash awards for research publications by faculty members	Three Faculty members are awarded cash incentive and letter of appreciation for publishing quality research papers in reputed journals.
Initiation of start of NCC program	Institution has applied along with relevant documents to start NCC wing in the campus to 2KAR Bn NCC, Bengaluru on 22/02/2018. Upon invitation by 2KAR Bn NCC, Bengaluru, representatives from the institute gave a presentation about the institution on 18/03/2018. With regard to this a team consisting of Col. Varun Luthra, Commanding officer and Lt. Col. Sundar Chettri visited our institute on 18/06/2018. Decision from 2KAR Bn NCC, Bengaluru is awaited.
Strengthened Industry institute interaction	1. BNMIT – Toyota Center of Excellence has been established in the institute. Toyota Kirloskar Motor Pvt. Ltd. (TKM) has offered BNMIT, the engine and transmission systems of Toyota Innova under CSR to provide hands on training to students. 2. Institute has signed an agreement with SenseSemi Technologies Pvt. Ltd., on 12/03/2018 to establish a framework for cooperation between BNMIT and SenseSemi in which BNMIT will provide the available infrastructure and technical support to SenseSemi for R D work. Students of B.E. / M.Tech.

will be trained by SenseSemi through internships. 3. Institute has signed an MoU with MGIRED on 18/01/2018 with an objective to facilitate advanced training and Research Development in the field of renewable energy and to provide higher learning opportunities to the students.

Organisation of training programs for non-teaching staff	Workshop on "Professional Communication and Team Skills" was conducted in collaboration with BITES on 6th & 12th February 2018. No. of staff benefitted: 75

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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Management	**24-Dec-2018**

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	**2018**

Date of Submission	**15-Feb-2018**

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 academic year 201415 (Even semester). 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 presenting results from all the stakeholders. (www.bnmit.pupilpod.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 comes 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 air 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. Feedbacks 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 amongst 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	01/07/2017	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	01/07/2017
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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	01/08/2017
BE	Electronics & Communication Engineering	01/08/2017
BE	Electrical & Electronics Engineering	01/08/2017
BE	Information Science Engineering	01/08/2017
BE	Mechanical Engineering	01/08/2017
Mtech	Computer Science Engineering	01/08/2017
Mtech	VLSI & Embedded Systems	01/08/2017
Mtech	Computer Aided Industrial Drives	01/08/2017
MBA	Master of Business Administration	01/08/2017

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

	Certificate	Diploma Course
Number of Students	0	0

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
"T5 (Talk for 5 minutes)" A personality development programme	23/04/2018	599

Object Oriented Concepts using C	27/01/2018	146
Project Management	01/08/2017	209
Embedded System and Internet of Things	01/08/2017	120
Soft skill training by M/s Seventh Sense Training Solutions	27/11/2017	118
Excel Training Program by FACE(Focus Academy for Career Enhancement)	17/04/2018	118
IIMBx certifications by IIMBx	25/10/2017	118

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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Image Processing and Machine Learning	10
BE	Summer Research Workshop ODU,USAq	12
BE	IOT Exhibition	166
BE	World of Compilers, Trends and Techniques	78
BE	Intellectual Property Rights(IPR) Exhibition	59
BE	CSIR	52
BE	BETSOL, Bangalore	14
BE	Product IT Solutions India Pvt. Ltd.	1
BE	Internship	171
MBA	Field Projects	121

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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
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) is constituted at program level comprising of all stakeholders for effective functioning of 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 is constituted at program level to evaluate 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 the teachinglearning process so as to achieve the excellence in TeachingLearning process. After the first internal assessment, all the students are required to fill an online feedbackform apprising the faculty using a scale of 1 (high) through 10 (low). The comments are analysed by the HoD and are discussed with the concerned faculty individually. Suggestions for improvement in teaching performance are given if required. • Apart from this, facility survey, graduate exit survey, alumni survey and employer's surveys are taken every year for achieving overall development of the college. • All these surveys are consolidated and analysed to check whether there are any deficiencies and if found they will be suitably addressed.

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	CSE	30	544	30
BE	ECE	30	379	30
BE	ISE	15	367	15
BE	EEE	15	235	11
BE	ME	15	268	15
MBA	MBA	60	65	60
Mtech	CSE	2	2	2
Mtech	VLSI	3	0	0
Mtech	CAID	2	0	0
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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
2017	1814	276	125	22	147

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 Toolsand resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
147	109	5	33	5	50

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 Talk5 (T5) 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
2090	147	14.21

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
106	147	0	19	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
2018	Dr. L. Vijayashree	Professor	Women Achiever's Award for Excellence in Academics
2017	Dr. Venkatesha K	Associate Professor	Best paper presentation award at International Conference ICSPACE2017 during August 2017

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,ISE,ME	I	25/11/2017	30/04/2018
BE	CSE,ECE,EEE,ISE,ME	II	23/05/2018	10/08/2018
BE	CSE,ECE,EEE,ISE,ME	III	25/11/2017	02/05/2018
BE	CSE,ECE,EEE,ISE,ME	IV	23/05/2018	25/08/2018
BE	CSE,ECE,EEE,ISE,ME	V	25/11/2017	02/05/2018
BE	CSE,ECE,EEE,ISE,ME	VI	23/05/2018	14/08/2018
BE	CSE,ECE,EEE,ISE,ME	VII	25/11/2017	21/02/2018
BE	CSE,ECE,EEE,ISE,ME	VIII	23/05/2018	17/07/2018
Mtech	CSE,CNE,LVS,CAID	I	07/02/2018	04/05/2018
Mtech	CSE,CNE,LVS,CAID	II	27/06/2018	06/09/2018
Mtech	CSE,CNE,LVS,CAID	III	25/12/2017	04/04/2018
Mtech	CSE,CNE,LVS,CAID	IV	14/07/2018	06/09/2018
MBA	MBA	I	03/02/2018	20/04/2018
MBA	MBA	II	18/06/2018	27/08/2018
MBA	MBA	III	10/01/2018	17/03/2018
MBA	MBA	IV	08/08/2018	14/09/2018

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 201516 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 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 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 for each semester. • 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 at the department level. This contains dates of curricular and cocurricular activities to be carried out in the semester. • 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
CSE	BE	Computer Science & Engineering	139	139	100
ECE	BE	Electronics & Communication Engineering	131	129	98.47
EEE	BE	Electrical & Electronics Engineering	63	63	100
ISE	BE	Information & Science Engineering	54	52	96.29

ME	BE	Mechanical Engineering	69	67	97.10
MBA	MBA	Master of Business Administration	117	109	93.16
LVS	Mtech	VLSI & Embedded Systems	7	7	100
CSE	Mtech	Computer Science & Engineering	9	9	100
CNE	Mtech	Computer Networks & Engineering	2	2	100
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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
Any Other (Specify)	1	NewGen IEDC Supported by NSTEDB, DST, Govt. of India, New Delhi.	60	60
Any Other (Specify)	1	DST NIMAT EAC Programme	1	1
Any Other (Specify)	1	Karnataka State Council for Science and Technology (KSCST)	0.06	0.06
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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
Patenting	IEDC, BNMIT Bengaluru	11/04/2018
MSP430 Microcontroller and Its Applications	Dept. of ECE, BNMIT, Bengaluru	31/07/2017
A workshop on Ambivert (extrovert introverts)	MBA	23/12/2017

Workshop on Law and its applicability in the Corporate	MBA	08/12/2017	
eXpress Talk by Dr. Balaji Sreeramulu , Vice President , Zensor Technologies.	ED Cell	06/10/2017	
eXpress Talk by Dr. Somdutta Singh, Cochair, NASSCOM Product Council, Founder Director of Unspun Group.	ED Cell	13/10/2017	
Inauguration of New Generation Innovation and Entrepreneurship Development Centre Supported by NSTEDB, DST, Government of India, New Delhi.	ED Cell	17/11/2017	
Innovative Project Lab Winter Competition 2017.	ED Cell	10/11/2017	
Entrepreneurship Awareness Camp sponsored by NSTEDB, Department of Science Technology.	ED Cell	07/11/2017	
Entrepreneurship Awareness Camp sponsored by NSTEDB, Department of Science Technology.	ED Cell	13/11/2017	
NewGen IEDC Students Project Presentation.	ED Cell	17/11/2017	
Meet the CEO – Mr. C.K. Kumaravel, Cofounder and CEO of Naturals (Salon and spa).	ED Cell	06/12/2017	

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
Virtual eye / Drishti	Pruthvi. S, Shama. M. S, Hitesh. V. Harithas, Sandesh. S. Chiploonkar	IET Karamveer expo 2018	23/03/2018	Innovative Project Exhibition
Virtual eye	Pruthvi. S, Shama. M. S, Hitesh. V. Harithas, Sandesh. S. Chiploonkar	Technovate – 2018	01/05/2018	Innovative Project Exhibition
iBrella	Zeeshan Saquib Sana Anam Ujwal S.S	IIT, Guwahati, Assam	31/08/2017	Techniche2017 (Project competition)

				Tech Expo
Indigenously built prosthetic Arm using 3D printer	Shreyas Reethan RethanME	Navadhara 2k18	17/04/2018	Innovative Project Exhibition
Virtual Eye	Pruthvi S Shama M S Hitesh V Haritas Sandesh S Chiploonkar	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
Indeginously built prosthetic Arm using 3D printer	ShaikMohammed Rizwan Shreyas S P Reethan D L Ganesh V	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
Easy Foot	Abhishek B V Aniruddha B V Ganesh M Dixit Nataraj N Badiger	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
Agrotona	Akshar K R Balaji	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
Lazer Induced Musical Instrument	Ganesh Murthy V Sathvik R Bharadwaj Rakshitha A Pooja R	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
Jacket for Mobility aid to Blind people	Sachin B Jain K Shashank Rao Monali G Pawar	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
Energy Harvesting using Bicycle	Nayana R Roshan S Sushanth Kumar	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
Design and Implementation of Oculographic System for Motor Neuron Disease Patient for Communication	Rakshita R Ujwal S S	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
Assistive technology for intellectually disabled and physically challenged people.	Tejas C Tejashwini V	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
Portable Solar charged battery and inverter unit for low power	Asmita Vasuki Archita Vasuki	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI

application				
Brain Wave Monitoring System	Akhil N Sridhar Harsha G Spoorthi Syeda Lubna	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
Solar Powered Bicycle	Sree Soundarya. C Avishek Kumar Siddhant Srivastava Keertana S	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
Pneumatic Bumper and Braking system	Prem Kumar Vikas Kumar Vishnu Aditya Kumar Omkar Kumar	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
Lifi based Blind indoor Navigation system for Visually Impaired People	Nagarjuna T V Shravan Gupta Shashank A S Roopesh Kumar	New Gen IEDC	14/11/2017	Funded Projects by DST,GoI
" Smart Village – Karnataka, 2018"	Syed Abrar, Swathi M	NHCE, Bengaluru	11/04/2018	Development of prototype Transport Challenge Award
The Electronics Design Challenge	Syed Abrar	PESIT South Campus, BengaluruPESIT South Campus, BengaluruPESIT South Campus, Bengaluru	04/03/2018	The Kludge 5.02k18
"Grid System"	Manasa K R	Katalyst Siemens Corporate Technology India	28/09/2017	Technical Talk Katalyst Tech Fest2017
"Wireless Mobile Charging"	Manasa K R	Katalyst Siemens Corporate Technology India	28/09/2017	Technical Talk Katalyst Tech Fest2017
"Experimental Analysis of Symmetrical Asymmetrical PWM based single phase AC chopper for power quality improvement using FPGA real time controller	Dr Venkatesha K Assoc Prof	Global Academy of Technology, Bengaluru.	19/08/2017	Best paper award ICSPACE 2017
No file uploaded.				

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	Hycube works pvt ltd	Self	Hycube workspvt ltd.	Additive manufacturing	07/08/2018
BNMIT	Sensesemi Technologies	Multiple funding agencies	Sensesemi Technologies	Health Care	12/03/2018
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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	1
ECE	1
MBA	1

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	ECE	24	6.34
International	EEE	9	5.76
International	ME	8	3.50
National	Physics	1	0.82
International	Physics	3	1.53
International	Chemistry	2	2.05
National	Mathematics	1	0
International	Mathematics	4	2.62
International	CSE	33	0
International	MBA	2	0

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
ISE	3
ME	6
MBA	6
Chemistry	1
CSE	8
ECE	7

EEE	8
No file uploaded.	

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
Machine Learning Based Comparison of Pearson's and Partial Correlation Measures to Quantify Functional Connectivity in the Human Brain	Chaitra N. , P. A. Vijaya	International Journal of Neuroscience and Behavioural Science, Vol. 6, No. 3, pp. 23 – 30	2018	2	B N M Institute of Technology, Bangalore, India	2
Optimal placement of PMUs analytics on PMU data using ANN technique	R Kiran , B.R. Lakshmikantha , R.V. Parimala	2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS)	2017	1	B N M Institute of Technology, Bangalore, India	1
Mitigation of harmonics using hysteresis control technique of VSI based active power filter	B Harshithananda, S Priyashree , HA Vidya	IEEEInternational Conference on Smart grids, Power and Advanced Control Engineering (ICSPACE2017)	2017	3	B N M Institute of Technology, Bangalore, India	3
Low Area Fpga Implementation Of Dromcsl aQtl Architecture For Cryptographic Ap	Shailaja S, Dr Krishnamurthy G N	International Journal of Network Security Its Applications (IJNSA)	2018	1	B N M Institute of Technology, Bangalore, India	1

plications						
Spectropho tometric Estimation of Aripipr azole in Tablets	BK Jayanna, TD Devaraj, G Nagendrapp a, N Gowda	Indian Journal of Pharmaceut ical Sciences	2017	2	B N M Institute of Technol ogy, Bangalore, India	2
Versatile Graphene oxide decorated by star shaped Zinc oxide nanocompos ites with superior adsorption capacity and antimi crobial activity	S Archana, KY Kumar, BK Jayanna, S Olivera, A Anand, MK Prashanth,	Journal of Science: Advanced Materials and Devices	2018	7	B N M Institute of Technol ogy, Bangalore, India	7
Spathodea Campanulat a as a Corrosion Inhibitor for Mild Steel in 1N H2SO4 Media,"	Prathibha B.S	Materials today proc eedings	2018	1	B N M Institute of Technol ogy, Bangalore, India	1
Adsorption and antimi crobial studies of chemically bonded magnetic graphene oxideFe3O4 nanocompos ite for water puri fication	Prashanth M K	Journal of water process en gineering	2017	12	B N M Institute of Technol ogy, Bangalore, India	12
Simple fab rication of reduced graphene oxidefew layer MoS2 nanocompos ite for enhanced e lectrochem ical perfo rmance in	Prashanth M K	Physica B: Condensed Matter	2017	11	B N M Institute of Technol ogy, Bangalore, India	11

supercapac itors and water puri fication						
Effect of plasmonic silver nan oparticles ' size on photophysi cal charac teristics of 4arylox ymethyl coumarins	J. Thipper udrappa	Plasmonics	2018	1	B N M Institute of Technol ogy, Bangalore, India	1
Effect of TiO2 nanop articles on photoph ysical cha racteristi cs of keto cyanine dyes	J. Thipper udrappa	Luminescen ce	2017	2	B N M Institute of Technol ogy, Bangalore, India	2
Severity Analysis of Macular Edima Using Random Tree Classifier	D K Prasad, Vibha L, K R Venugopal	Internatio nal Journal of Engineerin g Computer Science, V ol:7,Issue :3, pp2367 479,2018, ISSN 23197242	2018	0	B N M Institute of Technol ogy, Bangalore, India	0
IoT Archit ecture and System Design for Healthcare Systems	Niharika Kumar	IEEE Inter national Conference on Smart T echnologie s for Smart Nation	2017	0	B N M Institute of Technol ogy, Bangalore, India	0
Sentiment Analysis of Twitter Messages: Demonetiza tion a Use Case	Niharika Kumar	IEEE 2nd I nternation al Conference on Computa tional Systems and Inform ation Technology for Sustai nable Solution	2017	0	B N M Institute of Technol ogy, Bangalore, India	0

Title	Authors	Journal/Conference	Year		Institute	
Cluster Representation and Discrimination based on Regression Line	Sahana D. Gowda, M.S. Bhargavi	Third International Conference on Cognitive Computing and Information Processing, Springer publication	2017	0	B N M Institute of Technology, Bangalore, India	0
Hard Exudate Based Severity Assessment of Diabetic Macular Edema from Retinal Fundus Images	D K Prasad, , Vibha L,Venugopal K R	International Journal of Medical Engineering and Informatics (IJMEI) ,Inderscience Publishers, UK	2017	0	B N M Institute of Technology, Bangalore, India	0
Comparing univalent and bivalent brain functional connectivity measures using machine learning	Chaitra N Dr. P. A. Vijaya	4th International Conference on Signal Processing, Communication and Networking, ICSCN 2017	2017	0	B N M Institute of Technology, Bangalore, India	0
A comparative study of land classification using remotely sensed data	Kulkarni, K., Dr. P. A. Vijaya	Proceedings of the International Conference on Computing Methodologies and Communication, ICCMC 2017	2018	0	B N M Institute of Technology, Bangalore, India	0
Designing low power high throughput MAC for 802.11AD WLAN SoC	Deepthi, Rajapurohit, Dr.Veena Chakravarthi	2016 IEEE Annual India Conference, INDICON 2016	2017	0	B N M Institute of Technology, Bangalore, India	0
Architecting	Chakravarthi, V.S.,	EEE Region 10 Annual	2017	0	B N M Institute	0

802.11AD WLAN SoC for best performance	Burli, S.	International Conference, Proceedings/TENCON			of Technology, Bangalore, India	
Pencil drawn films as Ammonia gas sensors	Rekha, P Dr. Subodh kumar panda Suresh, M.S.	2017 International Conference on Smart Grids, Power and Advanced Control Engineering, ICSPACE 2017	2018	0	B N M Institute of Technology, Bangalore, India	0
Sensor for Measuring Aroma of Jasmine	Dr. Rekha P Dr. M.S. Suresh	Proceedings of IEEE Sensors	2018	0	B N M Institute of Technology, Bangalore, India	0
Automatic detection of acute lymphoblasitc leukemia using image processing	Shankar, V Deshpande M.M., Chaitra, N., Aditi, S.	2016 IEEE International Conference on Advances in Computer Applications, ICACA 2016	2017	9	B N M Institute of Technology, Bangalore, India	9
Modification of spectral behaviour of ketocyanine dyes by silver nanoparticles of different sizes	J. Thipper udrappa	International Journal of Nanoscience	2018	0	B N M Institute of Technology, Bangalore, India	0
Modification of spectral behaviour of ketocyanine dyes by silver nanoparticles of different sizes	H. R. Deepa	International Journal of Nanoscience	2018	0	B N M Institute of Technology, Bangalore, India	0

Smart Meter Modelling and Fault Location Communication in Smart Grid	Velhal Geeta Vilas, V Muralidhara, Shashikant Madhukar Bakre, Vaishali Velhal	Majlesi Journal of Electrical Engineering	2018	0	B N M Institute of Technology, Bangalore, India	0
A Novel Approach of Fault Location in Electrical Transmission System using Smart Meters.	Geeta Velhal, Avani Pujara, V Muralidhara, Shashikant Bakre, Vaishali Velhal	Majlesi Journal of Electrical Engineering	2018	0	B N M Institute of Technology, Bangalore, India	0
Experimental analysis of symmetrical asymmetrical PWM based single phase AC chopper for power quality improvement using FPGA real time controller	K Venkatesha, HA Vidya, Ruma Sinha, G Jayachitra	IEEEInternational Conference on Smart grids, Power and Advanced Control Engineering (ICSPACE2017)	2017	0	B N M Institute of Technology, Bangalore, India	0
A novel approach for partial discharge pattern recognition based on FP3CMENN	S Sumathi, S Madhu, HA Vidya	IEEEInternational Conference on Smart grids, Power and Advanced Control Engineering (ICSPACE2017)	2017	0	B N M Institute of Technology, Bangalore, India	0
Preprocessing of experimental partial discharge signals in insulation samples	S Sumathi, S Madhu, HA Vidya	IEEEInternational Conference on Smart grids, Power and Advanced Control En	2017	0	B N M Institute of Technology, Bangalore, India	0

Title of the Paper	Name of Author	Title of journal	Year of publication	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
using adaptive signal processing		gineering (ICSPACE2017)			
Modified fuzzy logic technique for power transformer fault prediction	Kumar, A., Vidya, H.A., Reddy, G.B	IEEEInternational Conference on Smart grids, Power and Advanced Control Engineering (ICSPACE2017)	2017	0	B N M Institute of Technology, Bangalore, India	0

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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
Machine Learning Based Comparison of Pearson's and Partial Correlation Measures to Quantify Functional Connectivity in the Human Brain	Chaitra N., P. A. Vijaya	International Journal of Neuroscience and Behavioural Science, Vol. 6, No. 3, pp. 23 – 30	2018	2	2	B N M Institute of Technology, Bangalore, India
Optimal placement of PMUs analytics on PMU data using ANN technique	R.V. Parimala	2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS)	2017	1	1	B N M Institute of Technology, Bangalore, India
Smart Meter Modelling and Fault Location Communication in	V Muralidhara	Majlesi Journal of Electrical Engineering	2018	2	0	B N M Institute of Technology, Bangalore, India

	Smart Grid						
	A Novel Approach of Fault Location in Electrical Transmission System using Smart Meters.	V Muralidhara	Majlesi Journal of Electrical Engineering	2018	2	0	B N M Institute of Technology, Bangalore, India
	Experimental analysis of symmetrical asymmetrical PWM based single phase AC chopper for power quality improvement using FPGA real time controller	K Venkatesha	IEEE International Conference on Smart grids, Power and Advanced Control Engineering (ICSPACE2017)	2017	1	0	B N M Institute of Technology, Bangalore, India
	Mitigation of harmonics using hysteresis control technique of VSI based active power filter	S Priyashree	IEEEInternational Conference on Smart grids, Power and Advanced Control Engineering (ICSPACE2017)	2017	2	0	B N M Institute of Technology, Bangalore, India
	A novel approach for partial discharge pattern recognition based on FP3CMENN	S Madhu	IEEEInternational Conference on Smart grids, Power and Advanced Control Engineering (ICSPACE2017)	2017	2	0	B N M Institute of Technology, Bangalore, India
	Preprocessing of experimental partial discharge	S Madhu	IEEEInternational Conference on Smart grids,	2017	2	0	B N M Institute of Technology, Bangalore,

signalsin insulation samples using adaptive signal processing		Power and Advanced Control Engineering (ICSPACE2017)				India
Modification of spectral behaviour of ketocyanine dyes by silver nanoparticles of different sizes	J. Thipperudrappa	International Journal of Nanoscience	2018	9	0	B N M Institute of Technology, Bangalore, IndiaBNMIT
Effect of plasmonic silver nanoparticles' size on photophysical characteristics of 4aryloxymethyl coumarins	J. Thipperudrappa	Plasmonics	2018	9	1	B N M Institute of Technology, Bangalore, India
Effect of TiO2 nanoparticles on photophysical characteristics of keto cyanine dyes	J. Thipperudrappa	Luminescence	2017	9	2	B N M Institute of Technology, Bangalore, India
Modification of spectral behaviour of ketocyanine dyes by silver nanoparticles of different sizes	H. R. Deepa	International Journal of Nanoscience	2018	5	0	B N M Institute of Technology, Bangalore, India
IoT Architecture and System Design for Healthcare Systems	Niharika Kumar	IEEE International Conference on Smart Technologies for Smart Nati	2017	2	2	B N M Institute of Technology, Bangalore, India

		on,1719 August 2017.				
Sentiment Analysis of Twitter Messages: Demonetization a Use Case	Niharika Kumar	IEEE 2nd International Conference on Computational Systems and Information Technology for Sustainable Solution, 2123 December 2017	2017	2	0	B N M Institute of Technology, Bangalore, India
Cluster Representation and Discrimination based on Regression Line	Sahana D. Gowda	Third International Conference on Cognitive Computing and Information Processing, Springer publication, JSSATE, Bengaluru, 15 16 Dec 2017	2017	4	0	B N M Institute of Technology, Bangalore, India
Severity Analysis of Macular Edima Using Random Tree Classifier	Vibha L	International Journal of Engineering Computer Science, Vol:7,Issue:3, pp2367 479,2018, ISSN 23197242	2018	0	0	B N M Institute of Technology, Bangalore, India
Hard Exudate Based Severity Assessment of Diabetic Macular Edema from Retinal Fundus	Vibha L	International Journal of Medical Engineering and Informatics (IJMEI) ,Inderscience Publishers, UK	2017	0	0	B N M Institute of Technology, Bangalore, India

Images						
Comparing univalent and bivalent brain functional connectivity measures using machine learning	Chaitra N	4th International Conference on Signal Processing, Communication and Networking, ICSCN 2017	2017	2	0	B N M Institute of Technology, Bangalore, India
Comparing univalent and bivalent brain functional connectivity measures using machine learning	Dr. P. A. Vijaya	4th International Conference on Signal Processing, Communication and Networking, ICSCN 2017	2017	7	0	B N M Institute of Technology, Bangalore, India
A comparative study of land classification using remotely sensed data	Dr. P. A. Vijaya	Proceedings of the International Conference on Computing Methodologies and Communication, ICCMC 2017	2018	7	0	B N M Institute of Technology, Bangalore, India
Designing low power high throughput MAC for 802.11AD WLAN SoC	Dr.Veena Chakravarthi	2016 IEEE Annual India Conference, INDICON 2016	2017	2	0	B N M Institute of Technology, Bangalore, India
Architecting 802.11AD WLAN SoC for best performance	Dr.Veena Chakravarthi	EEE Region 10 Annual International Conference, Proceedings/TENCON	2017	2	0	B N M Institute of Technology, Bangalore, India
Pencil drawn films as Ammonia gas	Dr. Suresh M S	2017 International Conference on Smart Grids,	2018	10	0	B N M Institute of Technology, Bangalore,

sensors		Power and Advanced Control Engineering, ICSPACE 2017				India
Sensor for Measuring Aroma of Jasmine	Dr. Suresh M S	Proceedings of IEEE Sensors	2018	10	0	B N M Institute of Technology, Bangalore, India
Automatic detection of acute lymphoblasitc leukemia using image processing	Chaitra, N	2016 IEEE International Conference on Advances in Computer Applications, ICACA 2016	2017	2	9	B N M Institute of Technology, Bangalore, India
Pencil drawn films as Ammonia gas sensors	Rekha, P	2017 International Conference on Smart Grids, Power and Advanced Control Engineering, ICSPACE 2017	2018	0	0	B N M Institute of Technology, Bangalore, India
Pencil drawn films as Ammonia gas sensors	Dr. Subodh kumar panda	2017 International Conference on Smart Grids, Power and Advanced Control Engineering, ICSPACE 2017	2018	0	0	B N M Institute of Technology, Bangalore, India
Sensor for Measuring Aroma of Jasmine	Dr. Rekha P	Proceedings of IEEE Sensors	2018	0	0	B N M Institute of Technology, Bangalore, India
Spectrophotometric Estimation of Aripiprazole in	B K Jayanna	Indian Journal of Pharmaceutical Sciences	2017	0	0	B N M Institute of Technology, Bangalore,

Tablets						India
Indian Journal of Pharmaceutical Sciences	B K Jayanna	ournal of Science: Advanced Materials and Devices	2018	0	0	B N M Institute of Technology, Bangalore, India
Spathodea Campanulata as a Corrosion Inhibitor for Mild Steel in 1N H2SO4 Media,"	Prathibha B.S	Materials today proceedings	2018	0	0	B N M Institute of Technology, Bangalore, India
Modified fuzzy logic technique for power transformer fault prediction	Kumar, A., Vidya, H.A., Reddy, G.B.	IEEEInternational Conference on Smart grids, Power and Advanced Control Engineering (ICSPACE2017)	2017	0	0	B N M Institute of Technology, Bangalore, India

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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	12	14	42	44
Presented papers	20	11	0	0
Resource persons	0	10	6	5

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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
Senior Citizen health checkup camp on July 02, 2017	BNMIT NSS and Jnana Jyothi Senior Citizens Banashankari II stage	3	25
Sadhbhavana Diwas August 19, 2017	BNMITNSS	5	600

Rally for Rivers September 9 2017	ISHA Foundation	4	70
Idea conclave for Better Bengaluru. Conducted by IISc October 1314, 2017	IISc Bangalore	1	16
Plastic free awareness at Kadale kaayi parishe, Basavanagudi, Bangalore on November 13, 2017	BNMIT NSS	5	20
Children's day celebrations on November 17, 2017	BNMIT NSS	3	30
Blood Donation Camp on February 19, 2018	BNMIT NSS	10	75
Say "NO TO DRUGS" February 25, 2018	MSquare Networks	2	50
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
0	0	0	0
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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 activites	Number of students participated in such activites
Swachh Bharath Abhiyaan	BNMIT NSS	Swachh Bharath Abhiyaan October 11 2017	4	60
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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
Final Year Project Work for UG Students	4	MGIRED	180
Establishing Industry supported laboratories.	5	Toyota Kirloaskar Motor, Bengaluru	2
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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/ industry /research lab with contact details	Duration From	Duration To	Participant
MOU	Summer Research Workshop	Old Dominion University, Norfolk, Virginia, USA	23/07/2017	13/08/2017	12
Internship	Industry	SenseSemi Technologies, Bengaluru	01/07/2017	30/06/2018	13
Sharing of research facilities and Collaborative research	Research	Auburn University, Auburn, AL, USA	10/07/2017	30/07/2017	1
Internship program	Substation Automation Protection Hub	Punjab State Transmission Corporation Ltd. Ludhiana	09/01/2018	05/02/2018	1
Internship program	Product Quality Upgradation by Increasing Robustness in Process Design	TATA motors Jamshedpur	06/01/2018	02/02/2018	1
Internship program	Advance training on Dimming/LC/GRMS/HA and LED Lighting	Qlite BAHARAIN	12/08/2017	20/08/2017	1
Internship program	Basic training on Dimming/LC/GRMS/HA and LED Lighting	Qlite INDIA	01/08/2017	10/08/2017	1
Internship	Internship for Management Students	Republic of Belarus(RIPO)	18/01/2018	31/03/2018	15
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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
Mahatma Gandhi Institute of Rural Energy Development, Bengaluru	08/01/2018	Guest lectures, projects, Industrial visits	4
Toyota Kirloaskar Motor, Bengaluru	24/01/2018	Establishing Industry supported laboratories. Students and faculty have been trained with cut section of Engine, transmission, clutch plate differential gear box assembly provided by Toyota Kirloaskar Motor.	66
IIMBx	16/08/2017	MOOCs based education activities	118
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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
11100000	11947000

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing

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	33748	9737710	2264	1141143	36012	10878853
Reference Books	7432	2315558	236	193323	7668	2508881
e-Books	13505	0	0	0	13505	0
Journals	109	254999	104	271047	213	526046
e-Journals	8611	976000	8611	2009500	17222	2985500
Digital Database	12442	80000	0	0	12442	80000
CD & Video	2455	0	150	0	2605	0
Library Automation	1	101610	1	14160	2	115770
Weeding (hard & soft)	507	0	0	0	507	0

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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	Platformon which module is developed	Date of launching e-content
Nil	Nil	Nil	01/07/2017

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	938	776	865	20	0	25	117	74	0
Added	0	0	0	0	0	0	0	0	0
Total	938	776	865	20	0	25	117	74	0

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

74 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
Nil	Nil

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 incurredon maintenance of physical facilites
37769000	33745000	64000000	107481000

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)

At the B.N.M Institute of Technology, we have established clear policies and procedures to create, maintain and upgrade the Infrastructure for enhancing the TeachingLearning process at regular intervals of time. •Proper systems and processes is ensured in recruiting, maintaining, and retaining staff members for Teaching, Technical and Administrative roles. •All the efforts are made in expending the budgets in creating and maintaining stateoftheart facilities in terms of establishing adequate number of classrooms, laboratories, teaching aids, and learning resources, etc., to enhance the overall student experience at our institution. •All the Laboratories are wellequipped with latest stateoftheart equipment's and materials not only to cater towards imparting of Curriculum related aspects to students. The Labs are maintained well with regular/periodical upkeep. •The Library setup consists of the Main Library along with reference section, which collectively support the educational needs of students belonging to all the programmes/specializations being offered on campus. The Libraries contain a vast collection of Semester books, Reference books, Competitive exam books, Bound volumes, Journals, Conference proceedings, eBooks, CD's /DVD's, student Thesis, Dissertations, Periodicals, eJournals, etc. •One large auditorium and 03 Seminar halls are established in campus with stateoftheart ICT facilities to conduct Collegelevel Events, State, National International Conferences, Workshops and Symposia. •Internet Bandwidth of 74 MBPS with WiFi connectivity is enabled in the campus for the benefit of staff and students. •An inhouse I.T Maintenance team comprising of experienced Networking professionals handles the I.T Infrastructure – Computer Labs, Computers, Browsing Centre, Servers, Internet, Firewall, etc. of College/Departments on a daily basis. •The college gives importance to allround development of students by providing scholarships to academic and sports achievers. Students are motivated them to participate in sporting and cultural activities in order to stay physically fit as well as to improve their creativity, interpersonal and organizing skills. •The Cultural Activities Team (KalaBhageerathi) at the College level is a think tank comprising of likestudents with a creative bent of mind who organize various Cultural programmes for students through the year. They also participate at InterCollegiate fest and events. •The Physical Education Department is wellequipped with required infrastructure to train students on various indoor and outdoor games and events. The students can also make use of the Gymnasium. •The college organizes inhouse sporting events as well as it also encourages students to excel in sports as University level, National and International level. •Preventive / Routine maintenance is handled by the respective department technical staff. •Breakdown maintenance is handled by the IT maintenance staff. •All IT Services are managed internally with some minor external vendor. •Apart from the perpetual licenses the other software are regularly renewed with the respective vendors.

https://www.bnmit.org/policy-and-procedures/

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 scholarship for economically weak, rural and meritorious	112	1812500

	students, BNMIT scholarship for sports performers, BNMIT Cultural scholarship for medal winners and participants in cultural events, BNMITGold medal for VTU Rank and others		
Financial Support from Other Sources			
a) National	Department of Social welfare,Backward community and minority office (Vidyasiri), Cognizant Scholarship	527	15369030
b)International	0	0	0
View File			

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
Software Development	03/03/2018	23	M/s Start Carrier
"T5 (Talk for 5 minutes)" A personality development programme	23/04/2018	599	BNMIT Faculty
Remedial coaching	01/08/2017	100	BNMIT Faculty
Object Oriented Concepts using C	27/01/2018	146	Mr. Muralidhara Mallur Software Principal Engineer Dell Pvt. Ltd. Bengaluru Mr. Sandeep Ravikanti Senior Technical Specialist Continental Automotive Components India Pvt. Ltd., Bengaluru Mr. Bharath S. D Executive Engineer Continental Automotive
Project Management	01/08/2017	209	Dr. Shubhra Banerji Adjunct Professor,

			ExProject Manager, IBM, Bangalore
Android Application Development	04/11/2017	19	Mr.Vishwa Kiran, Aprameyah Technologies Pvt. Ltd.
Web Services and JSon	04/11/2017	19	Mr. Albin Xavier, Aprameyah Technologies Pvt. Ltd.
Bridge Course on C plus plus	22/01/2017	57	Dr.Saritha Chakrasali
Skill Development Program on Solid Works GDT	14/02/2018	66	CAD MAXX Solutions , Bangalore
Software development	03/03/2018	23	M/s StartCareer
Soft skill training	27/11/2017	118	M/s Seventh Sense Training Solutions and M/S Ethnus.
Excel Training Program	17/04/2018	118	FACE(Focus Academy for Career Enhancement)
Communication classes	01/06/2017	118	BNMIT
IIMBx certifications	25/10/2017	118	IIMBx
Yoga classes	01/06/2017	420	Physical Education Department
Mentoring	01/06/2017	2090	BNMIT Faculty Counsellors
Professional counselling	01/06/2017	30	BNMIT Friends Corner
Bridge courses for lateral entry students	01/06/2017	84	Mathematics Department
Professional / Managerial Communication	09/02/2018	60	Mr. Rakesh Gowdhwani, Adjunct Faculty, IIM, Bangalore
Internet of Things and Analytics	22/09/2017	63	Dr. H.S. Jamadagni, Former Senior Professor, CEDT, IISc
Training for Placement	07/08/2017	66	M/s Seventh sense
Training for Placement	11/08/2017	67	M/s CoCubes
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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
2017	Session on Career Counselling for Higher Studies for all 5th semester B.E.(CSE / ISE) students	58	58	0	0
2017	Session on Career Couselling for Higher Studies for all 7th semester B.E. students	49	49	3	3
2018	Counselling for not placed Students	0	22	0	9
2017	Counselling for Placements	0	67	0	32
2017	GRE classes for interested 5th semester students	2	2	0	0
2017	Higher Education	106	106	4	41
2017	Byju's	0	746	0	0
2017	Princeton Review Manya	0	141	0	0
2017	Northern Illinois University (USA)	0	51	0	0
2017	GRE	16	0	4	0
2017	TOEFL	13	0	0	0
2017	IELTS	4	0	0	0
2017	Pre	0	118	0	76

	Placement Career Counselling				
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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
3	3	30

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Total Number Companies Visited (38)	3412	416	Total Number of Companies (28)	276	50
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2018	1	BE	ECE	Rochester Institute of Technology, USA	MSE
2018	1	BE	ECE	Texas A M University, USA	Master of Science
2018	1	BE	ECE	North Carolina State University, USA	Master of Science
2018	1	BE	ECE	RV College of Engineering, India	Mtech
2018	1	BE	ECE	University of Colorado Boulder, USA	Master of Science
2018	1	BE	ECE	University of Southern California, USA	Master of Science
2018	1	BE	ECE	MSRIT–MBA Programme,	MBA

				India	
2018	2	BE	ECE	University of Twente, Netherlands	Master of Science
2018	1	BE	ECE	Hochschule Furtwangen University, Germany	Master of Science
2018	1	BE	CSE	SRH University Heidelberg,	Master of Science (M.Sc)
2018	1	BE	CSE	The University of Memphis	Master of Science
2018	1	BE	CSE	California State University	Master of Science
2018	1	BE	CSE	University of Regina	Master of Science
2018	1	BE	CSE	USC University of Southern California	Master of Science
2018	1	BE	CSE	University of Buffalo	Master of Science
2018	1	BE	EEE	New York University	Masters in Electrical Engineering
2018	1	BE	EEE	University of Southern California	Masters in Electrical Engg.
2018	2	BE	EEE	UVCE, Bengaluru	Masters in Power Electronics
2018	1	BE	ISE	University Of Maryland Baltimore County	Master of Science
2018	1	BE	ISE	Ontario College	PGDPA Game Development Advanced Programming
2018	1	BE	ISE	Carnegie Mellon University	Master of Science
2018	1	BE	ME	Technische University	Computational Sciences in Engineering
2018	1	BE	ME	Jain University	MBA

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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	26
TOFEL	21
Any Other	4
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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 College	150
VTU State level Swimming Competition	State level	128
38th Y. Nagesh Rao Maanay Memorial Intercollegiate Throw ball Tournament – 2017	Bangalore Level 3 Category PU (Boys girls) , Degree –(Girls), Engineering –(Boys girls).	516
Inter Department Sports (Intramural sports)	Inter department	170
Inter Department Cricket Matches	Inter department	144
Staff Sports	Inter department	250
Talents Day	Intra College	50
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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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Swimmathon (8th position)	National	1	0	1BG16CS421	Ranjeetha J
2018	Swimmathon (2nd position)	National	1	0	1BG16CS061	Monisha G

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

Every department has an active student associations consisting of student members from all semesters. As a part of student chapter activities eminent speakers and industrialists deliver speeches on topics relevant to current educational scenarios. • Various cocurricular activities like Technical Talks, Seminars, Workshops, and Symposiums are regularly organized by the associations to enhance the technical skill set of the students. • Being an affiliated college, designing the syllabus is outside the purview of the institute.

However, the institute can enrich the curriculum with incorporating contents beyond the syllabus and add on courses. Involving student representatives in DAB and IQAC plays a significant role in this aspect. Students come to know about the additional academic requirements, when they participate in seminars and workshops. This in turn will be discussed by them in the DAB and IQAC meetings for necessary improvements in the curriculum. • Students represents in various committees of the college viz., library committee which looks into the library requirements, antiragging 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 and NSS units of the institute conduct environmental awareness and societal benefit programs such as Cycle Street, Annual Srishtisambhrama 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 interact with students • Alumni to take sense of pride 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 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 opportunities for current students. • Getting assistance from alumni for placement activities. • Provide assistance to certain deserving students to help them complete their education.

5.4.2 – No. of enrolled Alumni:

2201

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

372000

5.4.4 – Meetings/activities organized by Alumni Association :

• Annual Alumni meet is conducted every year, where alumni attend in good numbers and they share their work experience and progress. • 13th Annual Alumni Meet was arranged on 21/01/2018 • Lectures by Alumni are arranged on Saturdays where students interact with alumni. • To mention one such event, Interaction session with following alumni members was conducted on 17th March 2018, where 102 students of ECE branch participated. Topics covered includes preparation for higher studies placements and Professional ethics. 1. Namrata Nayak, Ph.D student, Indian Institute of Science, Bangalore 2. Ajay G.S, Senior Consultant, Allstate India, Bangalore 3. Kishore J, M Engg, Frankfurt University of Applied Sciences, Germany 4. Aathreya S Bhat, MS, Georgia Institute of Technology, USA. Currently working as Design Engineer at Analog Devices, USA 5. Rakesh M G, Senior Manager, Capri Global Capital Ltd., Bangalore 6. Alok Simha K J, Account Manager, British Telecom 7. Vasuki Shankar, Senior Engineer, Samsung Electronics, Bangalore 8. Shruthi Sreeram, Design Engineer at TATA ELXSI

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 decisionmaking 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. The various functions that are delegated includes 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 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 decisionmaking 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 • 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) Participatory Management System for general activities • Alumni Meeting • Parents Teachers Meeting • Students Counselors Meeting • College Faculty Meeting

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 deputes 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.
Teaching and Learning	The following strategies are adopted by the institution for effective teaching learning • Appointment of well qualified, competent teachers and

	providing opportunities for their continuous development through training. • Organization of FDPs on pedagogical initiatives. • Students are exposed to topics beyond curriculum and to recent trends and also motivated to inculcate the spirit of lifelong learning. • A welldeveloped process for design, planning, execution, measurement of outcome, feedback and correction is in place. • Remedial classes are conducted for slow learners to bring them on par with other students. • Attainment of course outcomes is assessed and action plan is proposed to overcome deficiencies/gaps if any. • 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.
Examination and Evaluation	The University assessment done through the semester end examination is principally summative. The three internal tests performance is evaluated in a formative way. The college on its own has evolved a few formative assessment methods to improve student performance viz: • Taking student feedback on the teaching after the first test. This gives information for the teacher to improvise the teaching method. • 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 internal test questions are set to map to the course outcomes and program outcomes which are explained to the student at the start of a course. • The question paper also addresses the different Bloom's skill levels. This ensures the questions are properly set. Senior faculty of the department scrutinizes the question paper for quality. The teachers also use a predefined scheme of answers to evaluate the performance. • The students have access to the answer books to check fairness of evaluation. Each assignment consists of questions on environment and societal effect of engineering decisions which the students research and answer. This

		inculcates in students independent learning and concern for the environment and empathy for the society.
	Research and Development	The following strategies are implemented with respect to Research Development • Research groups among institute faculty have been formed. These groups work on specific research problems. • The policy for incentives to faculty who bring funding has been formed and shared with faculty members. • A welldefined policy for providing cash incentives to researchers for their quality research publications is in place. • Reduced workload for faculty who opt their first priority as research. • Through DST funding (NewGen IEDC) student batches are given an opportunity to convert their innovative ideas into prototypes. • Collaborations with startups like SenseSemi and workshops from industry experts help students to think out of the box.
	Library, ICT and Physical Infrastructure / Instrumentation	• The Library has an advisory committee consisting of Principal, VicePrincipal, Chief Librarian, one senior faculty member nominated by the Director from each engineering department, Basic Science and MBA department. The Advisory committee normally meets twice in a year. It acts as an advisory body with regard to facilities and services and gives suitable suggestions for procurement of books and other relevant materials for better functioning of the library. • The facilities from time to time are created on the advice of the Library Advisory Committee and it aims to improve the facility on a regular basis. The power back up, digital library, computers and printers, Internet facility, elearning resources, information display and notification, reprography, etc., are the significant facilities contributing for the user friendly environment. • The library facilitates are ICT enabled for learning and ICT tools are deployed for the efficient use of the library resources. As part of Digital LibraryVTU Consortium, eResources (ebooks and ejournals) 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. • Facilities are updated periodically (ex: computers, software, electronic equipment) to meet the growing and changing needs of the college. Appropriate measures are taken to maintain safety, security, hygiene, cleanliness and greenery on 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 cocurricular and extracurricular activities of students for their holistic development. • Infrastructure is provided 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 are yearly replacement of old computers, all class rooms are fitted with LCD projectors CCTV camera and few of them are converted to smart class rooms.
Human Resource Management	The following strategies are adopted for human resource management • Encourage for higher studies/research. • Encourage staff to attend FDPs and workshops by providing financial support. • Incentives for research publications. • Seed money for research. • Tuition fee reimbursement for children of nonteaching staff. • Pay higher allowances for deserving staff.
Industry Interaction / Collaboration	The following strategies are adopted for industry interaction / collaboration • Expand invitation to industry experts for lectures on special occasions and involving them in DAB. • Inviting industry experts as adjunct faculty to teach curricular and extra courses. • MOUs with industries to facilitate research activities, student internship and industry visits. • Participate in industry organized competitions.
Admission of Students	The admission process of the college is publicized mainly through website, prospectus, newspaper, magazines, college management software (CMS). Banners are displayed in the campus

giving details of admission to the college. Stalls are set up in Educational fairs to publicize 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-governace area	Details
Student Admission and Support	• • 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. • At college level, BNMIT pupil pod supports students by providing online access to curriculum matters like calendar of events, time table, lesson plan, course materials, attendance status, internal marks etc.,
Examination	• As an affiliated institution of VTU, examination norms of the university are followed. The university has adopted major reform 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.
Planning and Development	• Campus Management System called BNMIT pupil pod is introduced in the campus from academic year 2014. CMS helps in automating lesson plan preparation, student attendance management, Staff Management, conduct of Test examinations, teaching and learning process including NBA attainment calculations. 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.
Administration	• 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 and at strategic points. Admission process happens online, fee due and leave management are made easy through CMS.
Finance and Accounts	• The college uses pupil pod 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.

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
2018	Dr. Rekha P	IEEE Sensors Conference	NA	14000
2018	Dr. Bindu S	NA	IEEE	5540
2018	Bharath Bhushan	Workshop on Statistical Tool for Research	NA	1000
2018	Dr Bhavya Vikas	Global Convergence of New Age Business Practices	NA	2000
2017	Dr. Vijayshree	EDEX2017	NA	2000
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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)
2017	MSP430 Microcontroller and Its Applications	NA	31/07/2017	05/08/2017	32	0
2017	Research to Markets: A Realistic Assessment	NA	19/07/2017	19/07/2017	52	0
2018	NA	Professional Ethics and Team Skills	06/02/2018	12/02/2018	0	75
2018	MDP on Psychometrics and Econometrics Using R Language in Association with CARES, Bangalore	NA	24/05/2018	26/05/2018	13	0
2018	"Econometrics for Financial Research"	NA	29/01/2018	29/01/2018	22	0
2018	NA	Profession Ethics, communication and Team Skills	06/02/2018	06/02/2018	0	75
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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
EDEX2017	1	24/11/2018	27/11/2018	4
Data Science Impact on Business	2	10/04/2018	13/04/2018	4

Decisions				
Cyber Security	1	15/05/2018	16/05/2018	2
AICTE Model Curriculum for Circuit Branches(ECE,TCE,EEE, CSE ISE)	1	14/05/2018	14/05/2018	1
Cyber Security Symposium	1	27/04/2018	27/04/2018	1
Accenture Learning Symposium	1	12/02/2018	13/02/2018	2
User Interface Technologies	1	29/01/2018	03/02/2018	6
Digitalization and its Transformation	1	23/09/2017	23/09/2017	1
Data Visualization Tools	1	06/09/2017	08/09/2017	3
Computer Network Programming in JAVA NS2	1	10/08/2017	12/08/2017	3
Internet of Everything	9	31/07/2017	05/08/2017	6
Android Developer Fundamentals	1	10/07/2017	14/07/2017	5
Research Methodology	1	06/07/2017	07/07/2017	2
Pedagogic Personal Effectiveness	1	18/12/2017	20/12/2017	3
Artificial Intelligence Machine Learning	1	15/12/2017	15/12/2018	1
ISTE faculty convention	1	09/12/2017	09/12/2017	1
Statistical tools for Research in Social Sciences	1	06/04/2018	07/04/2018	2
Crypto Currency the rise of Digital Cash	2	23/03/2018	24/03/2018	2
Branding Strategies for IT Industries	2	16/03/2018	16/03/2018	1

in Bangalore City				
Convergence of Microfinance Institutions A Study on Performance of Select MFIs	1	01/03/2018	02/03/2018	2
Case Study Methodology	2	16/02/2018	17/02/2018	2
Sustainability Reporting A tool for voluntary disclosure of non financial performance by the companies	1	31/12/2017	31/12/2017	1
Accreditation in Engineering Education in collaboration with IEEE Young Professionals	1	03/07/2017	03/07/2017	1
Modern power electronics drives: Design and future trends	18	16/01/2018	20/01/2018	5
A to Z of Transformer Design	18	17/02/2018	18/02/2018	2
Patenting	1	11/04/2018	11/04/2018	1
Data Analytics(FDP)	4	21/01/2018	25/01/2018	5
Helping our students get through college(FDP)	4	21/01/2018	25/01/2018	5
Advances in Deep Architectures for Signal Image and Vision applications(Summer School)	1	24/06/2018	30/06/2018	7
Machine Learning using Python(FDP)	1	16/07/2018	20/07/2018	5
ICT Tools and Effective Research	3	28/01/2018	30/01/2018	3

Task based Training	1	01/10/2017	10/01/2018	122
MSP430 Microcontroller and Its Applications	24	31/07/2017	05/08/2017	6
Modern Power Electronic drives: Design Future Trends	2	16/01/2018	20/01/2018	5
Computer Networks laboratory Using NS3,NCTUNS C/C	3	23/01/2018	25/01/2018	3
Pedagogic Personal Effectiveness	1	18/12/2017	20/12/2017	3
ARM Cortex M3 Embedded Controller	3	01/01/2018	05/01/2018	5
Design of Embedded Systems With ARM Cortex M3	1	16/01/2018	20/01/2018	5
Emerging research area and trends in Mechanical Engineering	17	31/07/2017	05/08/2017	6
Recent development and challenges in materials and manufacturing process	2	01/01/2018	13/01/2018	13
Psychometrics and Econometrics Using R Language	6	24/05/2018	26/05/2018	3
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
147	147	162	162

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
• Provident fund and gratuity schemes as per	• Provident fund and gratuity schemes as per	The Management 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 lf appraisal rating of 90 and above. • Reserved medical fund for emergency medical expenses. • Insurance on complete gratuity amount.

government norms • 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.

of total amount of Rs. 25 lakhs per year. • 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 in any semester. • Scholarship of Rs.10,000/ to Rs.25,000/ will be given to rural Karnataka students from economically weaker section admitted through CET. • Student who has secured more than 60 in exams and has represented VTU in sports is awarded Rs.10,000/. • Student who has secured more than 60 in exams and has represented Karnataka in any sports is awarded scholarship of Rs.25,000/. • Student who has secured more than 60 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 and above in first four semesters are awarded a gold medal and similarly those securing 90 in the last four semesters are also awarded gold medals.

	Insurance • 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 audits regularly through authorized auditors

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	ISO, Academic audit by experts	Yes	Internal ISO (Committee Department Level)
Administrative	Yes	ISO, Financial audit by external auditors	Yes	Internal ISO (Committee Department Level)

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

• Every semester, Parents Teacher meeting is arranged to discuss the activities 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 supports the smooth functioning of the activities related to the students.

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

Supporting staff developments programs are conducted at the department levels. Also institute conducts programs from external agencies. Workshop on "Professional Communication and Team Skills" was conducted in collaboration with BITES from 6th to 12th February 2018. In this workshop 75 supporting staff have participated.

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

Initiation to start NCC, Initiation to get all the UG branches accredited by NBA, Strengthened Industry institute interaction through collaboration with industries.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes

b)Participation in NIRF	**Yes**	
c)ISO certification	**Yes**	
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
2018	Professional Ethics and Team Skills	29/07/2017	06/02/2018	12/02/2018	75
2017	Professional / Managerial Communicatio n	29/07/2017	09/02/2018	10/02/2018	60
2018	T5 (Talk for 5 minutes)" A personality development programme	29/07/2017	23/04/2018	27/04/2018	599
2017	Internet of Things and Analytics	29/09/2017	22/09/2017	23/09/2017	63
2017	Initiation of NCC	30/06/2018	01/07/2018	31/12/2018	15
2017	Workshop on "Internet of Things and Analytics"	29/07/2017	22/09/2017	23/09/2017	15
2017	Workshop on "Webservices and JSON"	29/07/2017	04/11/2017	05/11/2017	66
2017	Workshop on "Android Application Development"	29/07/2017	04/11/2017	06/11/2017	70
2018	Workshop on "Virtual Reality"	29/07/2017	16/03/2018	17/03/2018	104

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
Nil	01/07/2017	30/06/2018	0	0

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
1. Solar panels are fixed on the roof tops of the Building. 100KW total solar energy generated which is transferred to the electric grid. Use of grid connected solar energy helps to conserve electricity use. 2. Solar water heating systems are fixed on the roof tops of the hostels to provide all time hot water to the inmates. 3. Normal light bulbs are replaced by LED/ CFL lamps. 4. Rain water harvesting is efficiently practiced in the campus Run away water of rains is collected in 5 tanks. 5. The open soil area of the campus is covered by grass and diversified flora this helps in retaining and absorbing rain water Thus helping in increase of ground level of water It also helps in avoiding soil erosion 6. To encourage the use of bicycles by the nearby students, loan with 0 interest is provided by the Management to buy the bicycle for their transportation. 7. Cycle rally was conducted from College to Lalbagh and back as an Awareness program 8. Vermi composting is implemented . 9. All internal communications of Administration, Office and Departments are done through electronic communication. 10. In association with KSPCB, ewaste is disposed through the authorized vendors. 11. Lush green garden boarder by the avenue trees and shrubs helps in Carbon Neutrality

7.1.3 – Differently abled (Divyangjan) friendliness

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

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
2017	1	1	02/06/2017	1	Health camp for senior citizen	Public health	150
2017	1	1	19/02/2017	1	Blood donation camp	Public Health	512
2017	1	1	09/09/2017	1	Rally for Rivers	Public awareness	50
2017	1	1	23/09/2017	2	Shrusti Smbrahama	Public awareness	450
2018	1	1	23/03/2018	2	Swatcha Bharat program	Public Health	20

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

Title	Date of publication	Follow up(max 100 words)
Orientation Programme Student rule book. It consists of the disciplines, Calendar of events, rules and code of conduct to be followed at the institute	10/08/2017	Dress code, code of conduct in the campus, adhering to timings, T5 class and its follow up class are conducted.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
International Yoga Day	21/06/2017	21/06/2017	200
Blood Donation Camp	19/02/2017	19/02/2017	512
Swatch Bharath	23/03/2018	24/03/2018	20
Helping Government school children by distributing Stationaries	17/11/2017	17/11/2017	20
Shrusti Smbrahama	23/09/2017	24/09/2017	450
T5 Program	23/04/2018	27/04/2018	599

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Phasing out in process to make Campus Plastic free zone 2. Garbage disposal system to segregate bio degradable waste. 3. Rain water harvesting process initiated 4. LED conversion from CFL in process. 5. 100KW capacity solar panel is installed. 6. Institute has plantation of trees and plants that make the environment carbon dioxide free. 7. As a paper save paper, official communication is done through website, LMS software (DHI) and other mediums (email) rather than printed circulars. 8. Periodic review is taken on status of equipment (Computers, Printers and other accessories).Those in not working condition are scraped properly to ewaste management team. 9. Campaigning and awareness creation programme for sustainable development and ecofriendly life style. E.g. Rallies, walkathon , poster presentation, Awareness program (shrustiSambhrama) etc. 10. 10. 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. Apart from this, Nature Club and NSS units of the institute conduct various environmental awareness programs. Programs conducted during 201718 includes • Environment Quiz program • Cycle Street • Annual Srishtisambhrama program • Tree Planting • Documentary shows on Flora and fauna • Plastic Free Awareness program • Students participation in Idea Conclave for Better Bengaluru • Swachh Bharath Abhiyaan • Rally for Rivers

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1 1. Title of the Practice: Innovative Project Laboratory (IPL) 2. Goals: • To inculcate scientific approach in students to identify the problems around them and find solutions for the same, by self motivation and study. • To develop the entrepreneurial skills in students that is essential in todays environment. 3. Context: Through IPL, institute is trying to bring challenging spirit among young minds by learning and conducting experiments on

their own. This provides an opportunity for students to solve current problems or develop a product. 4. The Practice: • Students of all semesters have to carry out one project in a group of 35, every semester apart from their regular curriculum. This activity develops team spirit, creative thinking, self learning, lifelong learning and communication skills in students, which are essential attributes of Engineers to meet dynamic requirements of the industry. • The weekly time slot for innovative projects lab is included in regular timetable. • Students have to build hardware or develop software as part of the project. Each student gets a certificate for successful completion of project. • Best IPL project from each class will be selected for college level competition and awarded a cash prize of Rs. 2000/. • Thus selected projects from each class will be exhibited for all students, staff and management during winter and summer IPL competitions conducted by BNMIT ED cell. • These projects are evaluated by two to three industry experts. • Best IPL project from each semester across college will be awarded a cash prize of Rs. 5000/. • One project adjudged as best amongst all the projects across departments, will get a cash prize of Rs. 10,000/. • Three best projects will be selected for cash prizes and special certification. • Each student can do eight such projects during B.E. course and be owner of eight certificates, very useful for their career. • If the project can be turned into a product or is patentable, help will be provided by IP Cell and ED – Cell of BNMIT. 5. Evidence of Success: IPL has been in practice for five years since 2014 and 10 such competitions have been held. The best and innovative projects initiated in IPL are selected for funding to develop prototypes under NewGen IEDC. 11 such projects have been implemented during 201718. 6. Problems Encountered and Resources Required: Motivating all students to participate is a problem apart from time constraints and is slowly being addressed. The resources required like components, fabrication facility, prize money etc. were provided by the college. Students have now seen the advantages of participating in this program. 7. Future plans: The institute is planning to take this to a higher level by encouraging students to convert ides / projects / prototypes into products. 8. Contact Details: Name of the Principal : Dr. Krishnamurthy G.N Name of the Institution : BNM Institute of Technology City : Bangalore Pin Code : 560070 Accredited Status : A Grade Work Phone : 080 26711781/82 Fax : 080 26711780 Website : www.bnmit.org email : : principal@bnmit.in Mobile : 8105869067 Best Practice 2 1. Title of the Practice: Automation of attainment calculations of NBA 2. Goal: The goal of the practice is to reduce the burden of laborious calculations of NBA attainment (course outcome attainment and program outcome attainment) which consume lot of time, and hence utilising the same time for other academic activities. 3. The Context: The accreditation of engineering programs run by higher educational institutions by NBA is becoming almost mandatory. NBA evaluates each program based on 10 criteria, out of which criteria 3 7 are based on calculation of attainment of course outcomes and program outcomes. When it is done manually, this process consumes lot of time. To reduce the time involved in doing these calculations, and hence effectively utilising this saved time for other academic activities, automation of NBA calculations has been implemented. 4. The Practice: The question papers are prepared with questions mapped to course outcomes and program outcomes. After each test every faculty enters marks question wise in college management system. Also marks of university exams are entered after the announcement of results. Students also take course exit survey and program exit survey through college management system. Faculty sets targets for each course outcome and AQAR, BNMIT, 201718 Page 54 program outcome, and run the program. System generates attainment sheets course wise, semester wise, branch wise and batch wise. 5. Evidence of Success: 5 B.E. programs CSE, ISE, ECE, EEE ME are accredited by NBA for three years effective from July 2018 to June 2021. NBA expert team has appreciated the practice. 6. Problems Encountered and Resources Required: Training of faculty members to adopt to the system was challenging. Resources required

include computers equipped with college management software. 7. Future plans: Remaining 8 criteria of NBA will be automated. 8. Contact Details: Name of the Principal : Dr. Krishnamurthy G.N Name of the Institution : BNM Institute of Technology City : Bangalore Pin Code : 560070 Accredited Status : A Grade Work Phone : 080 26711781/82 Fax : 080 26711780 Website : www.bnmit.org email : : principal@bnmit.in Mobile : 8105869067

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, 2001. BNMIT started in 2001 as one of the 200 colleges in VTU and is now 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. Institute has lot many accolades by having NIRF ranking (in the band of 100150), NAAC accreditations ('A' Grade) to its credit. • BNMIT has provided excellent, experienced and dedicated faculty members who are its pillars of strength. Apart from an allencompassing academics the college provides Industry Interface, Performance enhancing programs, Placement training and Career support programs, multiple skill acquisitions, orientation and induction programs, scholarship and rewards for the deserving students and an elegant and charming dress code. • The Talk5 program is yet another unique concept whereby students are motivated to overcome their fears and hesitations in an object oriented way. The purpose is to allow students discover themselves in a positive manner which will help them in finding their goals and achieving them. • BNM Institute of Technology is equally passionate about research and constantly strives to strengthen it by twinning with R D institutions and industries at national and international levels towards a symbiotic relationship. The management and faculty wholeheartedly support students in achieving their potential and embarking on exciting careers. • Higher education is a longterm social investment. 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 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. It has become an additional and important parameter for companies to decide on the right candidate for the top jobs. • Institute has well established ED Cell conducts regularly 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 and inviting many MNCs for campus recruitment resulting in high percentage of placements compared university average.

Provide the weblink of the institution

8.Future Plans of Actions for Next Academic Year

To get all the UG branches accredited by National Board of Accreditation. To built Research Culture among faculty and students To motivate students to develop and implement innovative ideas through organised workshops, seminars, hackathons and similar competitions. To continue Skill Development Programs (SDPs) Effective implementation Remedial/tutorial classes Enhancement of Industry linkages Increase Alumni lecture series Increase in the number of student ideas from eleven to fifteen, to convert them into prototypes under NewGen IEDC funded by DST.