

# Annual Quality Assurance Report (AQAR) of the IQAC: 2017-18

## Part – A

### 1. Details of the Institution

1.1 Name of the Institution:

B.N.M. Institute of Technology

1.2 Address Line 1:

Post box No. 7087, 27<sup>th</sup> Cross, 12<sup>th</sup> Main

Address Line 2:

Banashankari 2<sup>nd</sup> Stage, Bengaluru- 560070

City/Town:

Bengaluru

State:

Karnataka

Pin Code:

560070

Institution e-mail address:

principal@bnmit.in

Contact Nos.:

91-80- 26711780/81/82

Name of the Head of the Institution:

Dr. Krishnamurthy G N

Tel. No. with STD Code:

80- 26711780/81/82

Mobile:

8105869067

Name of the IQAC Co-ordinator:

Dr. J. Thipperudrappa

Mobile:

984588731

IQAC e-mail address:

bnmitiqac@gmail.com

1.3 NAAC Track ID

1.4 NAAC Executive Committee No. & Date:

1.5 Website address:

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

#### 1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	3.10	2017	30/10/2017 to 29/10/2022

1.7 Date of Establishment of IQAC:

1.8 AQAR for the year (*for example 2010-11*)

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*for example AQAR 2010-11 submitted to NAAC on 12-10-2011*)

**Not Applicable**

#### 1.10 Institutional Status

University  State  Central  Deemed  Private

Affiliated College Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution Yes  No

(eg. AICTE, BCI, MCI, PCI, NCI): **AICTE**

Type of Institution    Co-education     Men     Women   
                                   Urban     Rural     Tribal   
 Financial Status        Grant-in-aid     UGC 2(f)     UGC 12B

Grant-in-aid + Self Financing     Totally Self-financing

1.11 Type of Faculty/Programme

Arts     Science     Commerce     Law     PEI (Phys Edu)

TEI (Edu)     Engineering     Health Science     Management

Others (Specify)

1.12 Name of the Affiliating University (*for the Colleges*)

Visvesvaraya Technological University,  
Belagavi, Karnataka

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

**NIL**

Autonomy by State/Central Govt. / University

University with Potential for Excellence

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other (*Specify*)\*

UGC-COP Programmes

\* Listed in 151-200 band by NIRF under Engineering section for the year 2018.

\* Institute has been awarded Gold rating for industry linkage by AICTE - CII Survey.

## 2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="7"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="6"/>
2.3 No. of students	<input type="text" value="2"/>
2.4 No. of Management representatives	<input type="text" value="1"/>
2.5 No. of Alumni	<input type="text" value="2"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="1"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="2"/>
2.8 No. of other External Experts	<input type="text" value="-"/>
2.9 Total No. of members	<input type="text" value="21"/>
2.10 No. of IQAC meetings held: 04 (Four)	
2.11 No. of meetings with various stakeholders:	No. <input type="text" value="6"/> Faculty <input type="text" value="2"/>
Non-Teaching Staff	<input type="text" value="2"/> Students <input type="text" value="1"/> Alumni <input type="text" value="1"/> Others <input type="text" value="-"/>
2.12 Has IQAC received any funding from UGC during the year?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2.13 Seminars and Conferences (only quality related)	
(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC	
Total Nos.	<input type="text" value="2"/> International <input type="text" value="-"/> National <input type="text" value="-"/> State <input type="text" value="-"/> Institution Level <input type="text" value="2"/>
(ii) Themes	<input type="text" value="Professional / Managerial Communication"/>

## 2.14 Significant Activities and contributions made by IQAC

<ul style="list-style-type: none"> <li>• Implementation of Effective staff appraisal system</li> <li>• Initiation of NBA process for accreditation of 5 UG programs of Engineering</li> <li>• Implementation and dispersal of cash awards for research publications by faculty members</li> <li>• Initiation of start of NCC program</li> <li>• Strengthened Industry institute interaction</li> <li>• Organisation of training programs for non-teaching staff</li> <li>• Creation of consultancy policy</li> </ul>
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## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year \*

Plan of Action	Achievements
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.
Initiation of NBA process for accreditation of 5 UG programs of Engineering	5 B.E. Programs CSE, ISE, ECE, EEE & ME are accredited by NBA for three years with effect from July 2018 to June 2021.
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	<ol style="list-style-type: none"> <li>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.</li> <li>2. Institute has signed an agreement with SenseSemi Technologies Pvt. Ltd., on 12/03/2018 to establish a framework for co-</li> </ol>

	<p>operation between BNMIT and SenseSemi in which BNMIT will provide the available infrastructure and technical support to SenseSemi for R &amp; D work. Students of B.E. / M.Tech. will be trained by SenseSemi through internships.</p> <p>3. Institute has signed an MoU with MGIRED on 18/01/2018 with an objective to facilitate advanced training and Research &amp; Development in the field of renewable energy and to provide higher learning opportunities to the students.</p>
Organisation of training programs for non-teaching staff	<p>Workshop on “Professional Communication and Team Skills” was conducted in collaboration with BITES on 6<sup>th</sup> &amp; 12<sup>th</sup> February 2018.</p> <p>No. of staff benefitted: 75</p>
Creation of consultancy policy	<p>Consultancy policy has been created and made available to faculty members. Also published in college website.</p>

**\* Attach the Academic Calendar of the year as Annexure: Annexure I**

2.15 Whether the AQAR was placed in statutory body      Yes       No

Management       Syndicate       Any other body

Provide the details of the action taken:

## Part – B

### Criterion – I

#### 1. Curricular Aspects

##### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
Ph.D.	08	Nil	08	Nil
P.G.	03	Nil	03	Nil
U.G.	05	Nil	05	Nil
P.G. Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	Nil	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
<b>Total</b>	<b>14</b>	<b>Nil</b>	<b>14</b>	<b>Nil</b>
Interdisciplinary	Nil	Nil	Nil	Nil
Innovative	Nil	Nil	Nil	Nil

##### 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

CBCS/Core/Elective option / Open options are available.

##### (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	8
Trimester	0
Annual	0

1.3 Feedback from stakeholders\* Alumni  Parents  Employers  Students   
(On all aspects)

Mode of feedback : Online  Manual  Co-operating schools (for PEI)

\*Please provide an analysis of the feedback in the Annexure: Annexure II

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

The revision/update of regulation or syllabi lies with the affiliating university. The syllabus for UG programs is revised every four years and in case of PG programs revision is done once in every two years. University modifies regulations from time to time.

However, institute conducts various technical activities / events to address curricular gaps.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No



## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
147	83	33	31	--

2.2 No. of permanent faculty with Ph.D.

49

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
83	nil	33	nil	31	nil	-	-	147	nil

2.4 No. of Guest and Visiting faculty and Temporary faculty

0

1

5

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	20	06	06
Presented papers	32	03	-
Resource Persons	01	-	05

2.6 Innovative processes adopted by the institution in Teaching and Learning:

The institution has adopted following innovative methods in teaching and learning process to enhance learning among students;

- Quiz/Cross words/Pick & Speak
- NPTEL video Lectures
- Online Courses ( MOOC, Course Era...)
- Innovative Project Laboratory
- Activity based learning
- Story Telling, Dumb Charades, Do It Yourself, Google It, Green Box. and Group Discussions
- 3D representation of co-ordinate systems
- Practical demo on cut section models
- Practical demo of Data logger kit
- Virtual Lab
- Open book test, Industrial Visits
- Case studies & Role Play
- Team building activities

2.7 Total No. of actual teaching days during this academic year 

155
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2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Bar Coding, Double Valuation, Photocopy, online question paper delivery and similar examination reforms are initiated by the affiliating university and adopted by the college. Online Multiple Choice Questions is used by the institute wherever required.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop 

0	2	8
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2.10 Average percentage of attendance of students 

90%
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2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.E. in CSE	139	89.9	10.1	-	-	100
B.E. in ISE	54	81.48	14.8	-	-	96.29
B.E. in ECE	141	77.30	16.31	1.41		95.03
B.E. in EEE	63	66.67	31.74	1.59	-	100
B.E. in ME	69	86.95	11.59	-	-	98.55
M.Tech. in CSE	09	77.7	11.1	-	-	100
M.Tech. in CNE	02	50	-	-	-	50
M.Tech. in VLSI & Design	09	100	-	-	-	100
M.Tech. in CAID	03	66.67	-	33.33	-	100
MBA	117	22.22	68.37	2.56	-	93.16

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

A book of process providing details of teaching – learning process (following outcome based education) including planning, implementation, evaluation, assessment methods etc has been prepared and made available to all faculty members. IQAC monitors teaching – learning process through periodic auditing.

### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	-
UGC – Faculty Improvement Programme	-
HRD programmes	-
Orientation programmes	06
Faculty exchange programme	-
Staff training conducted by the university	01
Staff training conducted by other institutions	39
Summer / Winter schools, Workshops, etc.	51
Others	53

### 2.14 Details of Administrative and Technical staff

<b>Category</b>	<b>Number of Permanent Employees</b>	<b>Number of Vacant Positions</b>	<b>Number of permanent positions filled during the Year</b>	<b>Number of positions filled temporarily</b>
Administrative Staff	109	nil	8	nil
Technical Staff	51	nil	2	nil

## Criterion – III

### 3. Research, Consultancy and Extension

#### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

Institute /IQAC has taken steps to sensitise / promote research climate in the institution; Few initiatives are listed below;

- 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 well defined 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 start-ups like Sense-Semi and workshops from industry experts help students to think out of the box.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	01	-
Outlay in Rs. Lakhs	-	-	270	-

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	01	-
Outlay in Rs. Lakhs	-	-	0.05	-

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	89	02	-
Non-Peer Review Journals	03	-	-
e-Journals	-	-	-
Conference proceedings	24	-	-

#### 3.5 Details on Impact factor of publications:

Range  Average  h-index  Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	-	-	-	-
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students research projects <i>(other than compulsory by the University)</i>	2017-2022	DST	270 L	60 L
	2017-2018	KSCST	0.05 L	0.05 L
Any other(Specify)	-	-	-	-
Total			270.05L	60.05 L

3.7 No. of books published i) With ISBN No.  Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from: Not Applicable

UGC-SAP  CAS  DST-FIST   
DPE  DBT Scheme/funds

3.9 For colleges Autonomy  CPE  DBT Star Scheme   
INSPIRE  CE  Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	01	-	-	-	-
Sponsoring agencies	ISRO, CSIR	-	-	-	-

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International  National  Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency  From Management of University/College   
 Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	-
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

3.17 No. of research awards/ recognitions received by faculty and research fellows  
 Of the institute in the year

Total	International	National	State	University	Dist	College
05	-	-	-	-	-	05

3.18 No. of faculty from the Institution  
 who are Ph.D. Guides  
 and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF  SRF  Project Fellows  Any other

3.21 No. of students Participated in NSS events:

University level  State level   
 National level  International level

3.22 No. of students participated in NCC events: Not applicable

University level  State level   
 National level  International level

3.23 No. of Awards won in NSS:

University level  State level   
 National level  International level

3.24 No. of Awards won in NCC: Not applicable

University level  State level   
 National level  International level

3.25 No. of Extension activities organized

University forum  College forum   
 NCC  NSS  Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Prkruthi mitra awards for individuals who have contributed immensely for the protection of Environment and wild life during the annual event Srishti Sambhrama.
- Donations to NGOs during Founder's day celebrations.
- Toilets for two Government schools in Shanabhogana halli and Bilvaradara halli of Anekal talluk, Bangalore South District have been constructed under CSR.
- Events/Activities conducted by NSS

Sl. No.	Event and Date	Organized By	Details
1	Say "NO TO DRUGS" 25/02/2018	M Square Networks	Students of BNMIT participated in the program held at Lalbagh, Bengaluru.
2	Blood Donation Camp 19/02/2018	NSS, BNMIT	Students and Staff of BNMIT donated total 512 units of Blood to different blood banks.
3	Children's Day Celebration 17/11/2017	NSS, BNMIT	Distributed sweets and stationary items like pencils, erasers, pens, scales, sketch pens, crayons, geometry boxes and note books etc. to three Govt. schools.
4	Plastic Free Awareness 13/11/2017	NSS, BNMIT	Created awareness among vendors at Kadalakaayi Parishe, Basavanagudi, Bengaluru. 20 kg (1700 pcs) of cotton bags were distributed to vendors.

5	Idea Conclave for Better Bengaluru 13/10/2017 to 14/10/2017	Indian Institute of Science, Bengaluru	16 students have participated in this event. Paper & poster presentation and Street play events were organized. In Street Play, NSS volunteers of our institute secured 2 <sup>nd</sup> place.
6	Swachh Bharath Abhiyaan 11/10/2017	NSS, BNMIT	NSS volunteers cleaned 28 <sup>th</sup> and 29 <sup>th</sup> main roads of BSK II stage, Bangalore.
7	Rally for Rivers 09/09/2017	Sadguru Foundation	50 NSS volunteers supported Rally for Rivers event which was held at Palace ground Bengaluru.
8	Sadhbhavana Diwas 19/08/2017	NSS, BNMIT	Observed Sadhbhavana Diwas to mark the Birth Anniversary of former Prime Minister Sri. Rajiv Gandhi.
9	Senior Citizen Health Check-up Camp 02/07/2017	NSS, BNMIT	About 150 Senior Citizens benefitted from this camp.
10	International Day of Yoga 21/06/2017	Physical Education Department & NSS, BNMIT	Celebrated International Day of Yoga. Dr. Madan N., Homeopathy Doctor, Bengaluru addressed the participants.
11	Slow Down & Save lives 12/05/2017	VTU, Belagavi	Event was held at Jnana jyothi Auditorium, Central College Campus, Bengaluru. 70 NSS volunteers were participated in the event.

- Events/Activities conducted by BNM Friends of Nature club

Sl. No.	Date	Activities	No. of students participated
1	04/05/2018	Environment Quiz	390
2	08/04/2018	Cycle Street	485
3	06/04/2018	Documentary on Tiger dynasty by Nallamuthu	378
4	23/03/2018	Diaries of BNM Nature Club	390
5	16/03/2018	Documentary on Birds of Paradise	378
6	09/03/2018	Pick and Speak	378
7	02/03/2018	Documentary on Bandipur Trip	390
8	23/02/2018	Documentary on Snow Leopard by Sandesh Kadur	378
9	16/02/2018	Nature Quiz	309
10	09/02/2018	On Spot Painting and Poster Making “ Save the Earth”	64
11	02/02/2018	Introduction to Bird Watching Basics	390
12	08/01/2018 to 13/01/2018	Nature Camping Trip at Bandipur, Avalanche, Ooty & Wayanad	39
13	03/11/2017	Quiz	378
14	01/11/2017	Field trip to Big Barn	34
15	29/10/2017	Field trip to Big Barn	31



16	13/10/2017	Bird Watching Basics and slides on How to Identify Birds	378
17	24/09/2017	Tree Planting	64
18	23/09/2017	Srishtisambhrama	378
19	15/09/2017	Documentary on Khaziranga by Sandesh Kadur	378
20	08/09/2017	Documentary on Tiger attacks	390
21	01/09/2017	Introduction to Bird Watching Basics	390

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	16434.28 sq. mts.	--	--	16434.28 sq. mts.
Class rooms	2925.19 sq.mts	--	--	2925.19 sq.mts
Laboratories	5167 sq.mts	--	--	5167 sq.mts
Seminar Halls	492 sq. mts	--	--	492 sq. mts
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	--	-15KVA Generator -1No -VRV Air Conditioner-4nos -Customized Aluminium Scoffolding-1Set	Own source	
Value of the equipment purchased during the year (Rs. in Lakhs)	--	-LCD Projector (4No.s) -Arm Controller kits -Auditorium maintenance equipment		Rs. 67,86,802/-
Others	--	-Purchase of Cadence Software 20 License - 55 Wi-Fi points - Hydraulic and pneumatic training kit		Rs.1,04,21,698/-

#### 4.2 Computerization of administration and library

- Administration is computerised through College Management System (<https://bnmit.pupilpod.in>).
- Library is computerised by using Easy Lib software .

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
<b>Text Books</b>	33674	96,61,361.00	2305	11,91,184.00	35979	1,08,52,546.00
<b>Reference Books</b>	7435	23,20,503.00	233	1,85,010.00	7668	25,05,513.00
<b>e-Books</b>	13730	Price includes in VTU Consortium e-Journals	13730	Price includes in VTU Consortium e-Journals	13730	Price includes in VTU Consortium e-Journals
<b>Journals</b>	109	2,54,999.00	109	2,54,999.00	109	2,54,999.00
<b>e-Journals</b>	8611	19,09,500.00	8611	19,09,500.00	8611	19,09,500.00
<b>Digital Database</b>	10	-	10	As -	10	-
<b>CD &amp; Video</b>	1208	-	191	-	1399	-
<b>Others (specify)</b>	9200	Open Source	114	Open Source	9314+	Open Source
<b>NPTEL Video Lecture</b>	4604	50,000.00	7838	30,000.00	12442	80,000.00

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	864	600	50 mbps	12	38	22	192	-
Added	80	80	100 mbps	-	-	-	-	-
Total	944	680	100 mbps	12	38	22	192	-

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- All faculty members are provided with computers with internet facility.
- Students are also given internal facility.
- Campus is Wi-Fi enabled.
- All activities academic or otherwise including financial transactions happen online (e-governance).
- Appropriate trainings are given to teachers and students as and when required.

#### 4.6 Amount spent on maintenance in lakhs :

i) ICT

3,39,941/-

ii) Campus Infrastructure and facilities

46,83,114/-

iii) Equipments 19,82,967/-

iv) Others 97,33,755/-

**Total :** 1,67,39,777/-

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

The details regarding Grievance Reddressal Cell, Antiragging committee, Antiragging squad, mentoring cell, College Internal Complaint Committee etc is provided in college website and are updated from time to time. Posters regarding antiragging are displaced in the college campus and hostels.

Policies and procedures related to students including admission, academics, examinations, placement, scholarships and insurance are hosted in college website and are updated from time to time.

The sign boards for all the facilities/centres in the institution are provided.

#### 5.2 Efforts made by the institution for tracking the progression

The efforts made by the Institution for tracking the progression of students are listed below;

- E-mail ids and contact numbers of all out-going students and also current students are maintained.
- Placement coordinator in each department is vested the responsibility to be in regular contact with alumni.
- Alma connect - an online platform (<https://bnmit.almaconnect.com>) has been provided for regular contact and interaction with alumni and is monitored by alumni coordinator at institute level.
- Alumni meet is conducted every year, where alumni attend in good numbers where they share their work experience and progress.
- Lectures by Alumni are arranged on Saturdays where students interact with alumni.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Total
1814	276	62	2152

(b) No. of students outside the state 238

Men	No	%
	1206	56.04

Women	No	%
	946	43.95

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1640	153	29	483	--	2305	1511	136	27	478	--	2152

(c) No. of international students NIL

Demand ratio: 1:7(121:839)

Dropout %: 0.56

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

The Career Guidance Cell of the institute was established in 2017. A Memorandum of Understanding (MoU) was signed with a training institute BYJU'S. The cell essentially focuses on facilitating students aspiring to go abroad for higher studies.

**Objectives of Career Guidance Cell:**

- Expert team of Counsellors from BYJU'S working in Education Space regularly conduct career counselling workshops for students. Interested students enrol for regular GRE classes. Also the counsellors from BYJU's visit BNMIT twice a week and provide personalised, authentic and reliable guidance for students.
- The Career Counselling Cell also helps students in profile building, which will enable them to seek admission in reputed Universities across the world.
- Apart from guiding students to enrol in Indian and Foreign Universities, BYJU's conduct CAT and GRE classes in the first Phase and GMAT and other competitive examination preparation courses in the second phase, for the interested students who register in advance.

- Classes for GRE and CAT are held on every Monday's and Thursday's of the week, after the regular academic hours. Interested Student's can avail this opportunity by enrolling at a special discounted training fee.
- The Career Guidance Cell also provides preparation materials to the students.
- The Training and Placement Department extends career guidance support to all the final year students in terms of various job opportunities in government and private sectors.

**. Career Guidance Related Programs conducted during 2017-18**

<b>Date of Event</b>	<b>Programs Conducted</b>	<b>Conducted By</b>
06/03/2018	Higher Education Seminar for interested 6 <sup>th</sup> semester B.E. students	Northern Illinois University (USA)
26/02/2018	Seminar on Higher Education Abroad followed by individual counselling for interested 6 <sup>th</sup> semester B.E. students	Endeavour
31/08/2017 to 05/04/2018	GRE classes for interested 5 <sup>th</sup> semester B.E. students	BYJU'S
23/08/2017	Inauguration of Career Guidance Cell at BNMIT	BYJU'S
21/08/2017	Session on Career Counselling for Higher Studies for all 7 <sup>th</sup> semester B.E. students	BYJU'S
18/08/2017	Session on Career Counselling for Higher Studies for all 5 <sup>th</sup> semester B.E.(ECE, EEE & Mech) students	BYJU'S
17/08/2017	Session on Career Counselling for Higher Studies for all 5 <sup>th</sup> semester B.E.(CSE / ISE) students	BYJU'S

No. of students beneficiaries

500

5.5 No. of students qualified in these examinations

NET	-	SET/SLET	-	GATE	05	CAT	-
IAS/IPS etc	-	State PSC	-	UPSC	-	Others	42

5.6 Details of student counselling and career guidance

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 co-curricular 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.

#### **B. Professional Guidance and Career advancement**

- 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.
- The details of lectures / talks conducted for students related to professional guidance and career advancement during 2017-18 are given below.

#### **Lectures / talks conducted during 2017-18**

<b>Sl. No.</b>	<b>Organising Department</b>	<b>Title of talk</b>	<b>Resource person</b>	<b>Date</b>	<b>Semester</b>	<b>No. of student participants</b>
1	CSE	Professional Ethics	Amitkeerti M Lagare Industry Expert	31/10/2017	3,5&7	313
2	ECE	Technology Trends in Health Care	Dr. Usha Manjunath Industry Expert	09/04/2018	4,6&8	200
3	ECE	Igniting Innovation with Excellence	Dr. Veena S.Chakravarthi Academic Expert	21/03/2018	4	59
4	ECE	Life Long learning skills	Dr. S. Rajesh Industry Expert	31/10/2017	3,5&7	200
5	ECE	User Interface Development	FarheenFarhath Industry Expert	11/10/2017	6	74
6	ECE	Entrepreneurship -Are you ready for it?	Girish Hampali Industry Expert	30/08/2017	4 & 6	75
7	ME	Ideas to Business	Mahadev Prasad S Industry Expert	13/04/2018	4,6&8	176
8	ME	Application of hydraulics in industry	Veeranna R S Industry Expert	30/10/2017	3, 5 &7	180

9	ISE	Course on Project Management & Finance	Dr. Shubhra Banerji Academic Expert	August- November 2017	7	62
10	ISE	Introduction to Intellectual property rights	Dr. Anindya Sircar Industry Expert	06/09/2017	5	38
11	EEE	Career Opportunities for Electrical Engineering	Sandhya R. J Industry Expert	31/10/2017	3, 5 & 7	54
12	College Level (All Branches)	Professional/Managerial Communication	Rakesh Godhwani Industry Expert	09/02/2018 to 10/02/2018 & 23/02/2018 to 24/02/2018	4 & 6	60

This is substantiated by Career Guidance, Training & Placement and Entrepreneurship Development Cells which conduct talks / events related to professional guidance and career advancement.

No. of students benefitted

Details are given in table above.

#### 5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
114	546	307	48

#### 5.8 Details of gender sensitization programmes

Nil

#### 5.9 Students Activities

##### 5.9.1 No. of students participated in Sports, Games and other events

State/ University level

207

National level

04

International level

-

##### No. of students participated in cultural events

State/ University level

42

National level

-

International level

-

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level  National level  International level

Cultural: State/ University level  National level  International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	102	7,84,000/-
Financial support from government	526	1,08,85,310/-
Financial support from other sources	6	2,70,000/-
Number of students who received International/ National recognitions	--	--

5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed:

Grievance of students	Corrective actions taken
The quality of food served in the college canteen (63.01%)	<b>Analysis/observation:</b> The percentage of feedback is 8% more than the previous year. This could be due to change in service provider during January 2018 (mid of the academic year). <b>Action proposed / taken:</b> Decided to continue with same service provider during 2018-19. Further, the feedback information is communicated to service provider for further improvement.
The adequacy and accessibility of internet connectivity and Wi-Fi facility (46.17%)	<b>Analysis/observation:</b> The internet speed is increased to 100Mbps. The low feedback could be due to lack of awareness among students. <b>Action proposed / taken:</b> All the students are communicated that Wi-Fi capability of the institution has been improved with 55 access points and 100Mbps lease line internet connectivity. Students are requested to come with MAC details of their laptops to get login credentials and to take advantage of facility created to use the same for effective learning.



## Criterion – VI

### 6. Governance, Leadership and Management

#### 6.1 State the Vision and Mission of the institution

**Vision:**

To be one of the premier Institutes of Engineering and Management education in the country.

**Mission:**

- ❖ To provide Engineering and Management education that meets the needs of human resources in the country.
- ❖ To develop leadership qualities, team spirit and concern for environment in students.

#### 6.2 Does the Institution has a management Information System

Yes.

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. To make all these processes simple and structured, the Campus Management System was introduced. All the student relevant data starting from admission to final year are stored in the cloud. The college, student and parent/guardian can interact through this single platform. The information about the attendance of student is automatically sent to the parents on a daily basis. CMS makes it easy to generate reports, calculation of performance, presentation of data and communicating the relevant data to all the stakeholders. ([www.bnmit.pupilpod.in](http://www.bnmit.pupilpod.in))

#### 6.3 Quality improvement strategies adopted by the institution for each of the following:

##### 6.3.1 Curriculum Development

The curriculum development is carried out by the affiliating university.

However, institute deputed faculty members to the workshops conducted by the university on curriculum development. Further, senior faculty members of the institute are part of BoS in the affiliating university. Also institute communicates curricular gaps from time to time to the university.

### 6.3.2 Teaching and Learning

The following strategies are adopted for 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 life-long learning.
- A well developed 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/Wi-Fi 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.

### 6.3.3 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.
- Each semester, students build a project of social relevance which will be adjudged by industry experts and prizes to the tune of one lakh rupees is given every semester. This helps students build independent thinking ability. Some of the projects have been converted into product.
- 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.
- Teaching / assessment methods such as quiz, pick and speak, group discussion, debate, poster presentation, cross word puzzles, alternate methods of doing prescribed experiments etc. are adopted for some courses to enhance learning experience.

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 teachers of the department check 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.

#### 6.3.4 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 well defined 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 start-ups like Sense-Semi and workshops from industry experts help students to think out of the box.

#### 6.3.5 Library, ICT and physical infrastructure / instrumentation

The Library has an advisory committee consisting of Principal, Vice-Principal, 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 were 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, e-learning 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 Library-VTU Consortium, e-Resources (e-books and e-journals) are subscribed for the current databases as per the consortium agreement. Computers are made available in the Library premises for the hassle free and easy access of resources by the students and faculty members.

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 co-curricular and extra-curricular 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.

### 6.3.6 Human Resource Management

The following strategies are adopted for human resource management;

- Encourage higher studies/research.
- Incentives for research publications.
- Seed money for research.
- Tuition fee reimbursement for children of non-teaching staff.
- Pay higher allowances for deserving staff.

### 6.3.7 Faculty and Staff recruitment

Faculty and staff recruitment is done as per the well defined policy and procedure. The details are given below;

#### **Recruitment of Faculty:**

Asst. Professors:

1. The requirement of staff both teaching and non teaching needed for the subsequent semester is determined by each HoD (as per VTU/AICTE guidelines) at the end of a semester and presented at the HoDs meeting.
2. The requirements are discussed in HoDs meeting and decision to appoint/recruit staff is taken.
3. Office sends out an advertisement in reputed news papers.
4. The received applications are sorted and sent to respective departments for further action.
5. Department scrutinizes the applications and those eligible are short listed. They also add applications received during the previous semester for scrutiny.
6. Short listed candidates for asst. professors are called for a demonstration evaluated by HoD and at least three other senior faculties. A list of applicants who are suitable is prepared in the ratio of 1: 3 to 5.
7. The listed candidates are interviewed by the selection committee consisting of Secretary, Dean, Director, Principal, respective HoD and chaired by a governing council member.
8. Based on the performance merit list is prepared and the candidates are given appointment order.

Associate Professors and Professors: Largely these positions are filled by invitation/ advertisement and interview by the selection committee chaired by one GC member.

#### **Recruitment of non teaching staff:**

All laboratory instructors are appointed following the procedure given above for Assistant professors except for an additional written examination instead of demonstration.

General guidelines are:

1. Diploma with 5 years experience for Foreman
2. Diploma with or without experience for Lab. Instructor.
3. ITI with or without experience for Mechanic/ Assistant Instructor

### 6.3.8 Industry Interaction / Collaboration

The following strategies are adopted for industry interaction / collaboration

- Expand invitation to industry experts for lectures on special occasions and involve them in DAB.
- Invite industry experts as adjunct faculty to teach curricular and extra courses.
- Participate in industry organized competitions.
- Facilitate student internships.

### 6.3.9 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.

### 6.4 Welfare schemes for

Teaching	<ul style="list-style-type: none"> <li>• Ph.D. allowances for faculty members perusing research. Further increase in allowance would be considered based on progress of research work.</li> <li>• Financial assistance to the staff for paper presentation/ participation in conference/ FDP's/ workshops/ any training programs registration in India and abroad.</li> <li>• Cash incentives for paper publication in reputed journals.</li> <li>• Cash incentives for self If appraisal rating of 90% and above.</li> <li>• Reserved medical fund for emergency medical expenses.</li> <li>• Insurance on complete gratuity amount.</li> </ul>
Non teaching	<ul style="list-style-type: none"> <li>• Reserved medical fund for emergency medical expenses.</li> <li>• Insurance on complete gratuity amount.</li> </ul>
Students	<p><b>The Management gives scholarship to the extent of total amount of Rs. 25 lakhs per year.</b></p> <ul style="list-style-type: none"> <li>• CET students admitted within the ranking 1000 will be given a onetime scholarship of Rs.25,000/- at the time of admission.</li> <li>• ComedK students admitted within ranking 3000 will be given a onetime scholarship of Rs.10,000/- at the time of admission.</li> <li>• Merit scholarship of Rs.10,000/- will be given to all the students securing CGPA of</li> </ul>

	<p>above 9.5 in 1st semester.</p> <ul style="list-style-type: none"> <li>• Scholarship of Rs.10,000/- will be given to all the students securing more than 90% in any semester.</li> <li>• Scholarship of Rs.10,000/- to Rs.25,000/- will be given to rural Karnataka students from economically weaker section admitted through CET.</li> <li>• Student who has secured more than 60% in exams and has represented VTU in sports is awarded Rs.10,000/-.</li> <li>• Student who has secured more than 60% in exams and has represented Karnataka in any sports is awarded scholarship of Rs.25,000/-.</li> <li>• Student who has secured more than 60% in exams and has represented our Country in any sports is awarded scholarship of Rs.50,000/-.</li> <li>• Cultural Scholarship of Rs.10000 to Rs.25000 to VTU youth festival members.</li> </ul> <p><b>Gold Medals</b></p> <ul style="list-style-type: none"> <li>• All students securing Ranks in VTU are awarded gold medals.</li> <li>• 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.</li> </ul> <p><b>Insurance</b></p> <ul style="list-style-type: none"> <li>• Insurance: All Students are insured for Rs.100000/-</li> </ul>
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6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done Yes  No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO	Yes	Sr. Faculty
Administrative	Yes	ISO	Yes	Sr. Faculty

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes Yes  No

For PG Programmes Yes  No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

### 6.11 Activities and support from the Alumni Association

- Institute has registered Alumni association.
- Alumni meet is conducted every year, where alumni attend in good numbers and they share their work experience and progress.
- 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

### 6.12 Activities and support from the Parent – Teacher Association

Though institute has no registered Parent-Teacher Association, parents support institute through their participation in Department Advisory Boards and various other committees. Further Parent-Teacher meetings are conducted regularly, where parents are appraised about their ward performance and progress.

### 6.13 Development programmes for support staff

Supporting staff developments programs are conducted at the department levels regularly. Also institute conducts programs from external agency. Workshop on “Professional Communication and Team Skills” was conducted in collaboration with BITES on 6<sup>th</sup> & 12<sup>th</sup> February 2018. In this workshop 75 supporting staff have participated.

#### 6.14 Initiatives taken by the institution to make the campus eco-friendly

The institute has taken following initiatives to make the campus eco-friendly

- 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.
- Solar water heating systems are fixed on the roof tops of the hostels to provide all time hot water to the inmates.
- Normal light bulbs are replaced by LED/ CFL lamps.
- Rain water harvesting is efficiently practiced in the campus; Run away water of rains is collected in 5 tanks.
- 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
- Reverse Osmosis and UV purifier type units are used for purification and are regularly monitored.
- 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.
- Cycle rally was conducted from College to Lalbagh and back as an Awareness program
- Vermi composting is practiced effectively.
- All internal communications of Administration, Office and Departments are done through electronic communication.
- In association with KSPCB, e-waste is disposed through the authorized vendors.
- Lush green garden boarder by the avenue trees and shrubs helps in Carbon Neutrality



## Criterion – VII

### 7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

<p><b>Online transactions:</b> All financial transactions by students are made online through college management system. This is line with digital India initiative.</p> <p><b>NewGen IEDC projects:</b> Eleven student ideas are converted into prototypes under New Generation Innovation Entrepreneurship Development Centre (NewGen IEDC) funded by Department of Science and Technology where each idea has been given up to Rs.250000/- in batch size of 3-4 members.</p> <p><b>Exit meeting for faculty leaving the institution:</b> An exit meeting (one to one) for any faculty leaving the institution has been introduced to know the reason for leaving the institution, which may help in the betterment of the institution.</p> <p><b>Research initiative for the faculty:</b> Faculty are given an opportunity for carrying out the research by reducing workload. Faculty members are also encouraged to work in groups on specific research problems.</p>
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7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Plan of Action	Action taken report
Implementation of Effective faculty appraisal system	Implemented
Initiation of NBA process for accreditation of 5 UG programs of Engineering	<ul style="list-style-type: none"> <li>Applied for NBA accreditation on 27/10/2017.</li> <li>NBA expert team visited the institution during 24-26, August 2018.</li> <li>All 5 B.E. Programs CSE, ISE, ECE, EEE &amp; ME got accredited for three years (with effect from July 2018 to June 2021) as per the letter received on 18/10/2018.</li> </ul>
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	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Institute has signed an agreement with SenseSemi Technologies Pvt. Ltd., on 12/03/2018 to establish a framework for co-operation between BNMIT and SenseSemi in which BNMIT will provide the available infrastructure and technical support to SenseSemi for R &amp; D work. Students of B.E. / M.Tech. will be trained by SenseSemi through internships.</li> <li>• Institute has signed an MoU with MGIRED on 18/01/2018 with an objective to facilitate advanced training and Research &amp; Development in the field of renewable energy and to provide higher learning opportunities to the students.</li> </ul>
Organisation of training programs for non-teaching staff	Workshop on “Professional Communication and Team Skills” was conducted in collaboration with BITES on 6 <sup>th</sup> & 12 <sup>th</sup> February 2018. No. of staff benefitted: 75
Creation of consultancy policy	Consultancy policy has been created and made available to faculty members. Also published in college website.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

**Annexure III**

7.4 Contribution to environmental awareness / protection

<p>Nature Club and NSS units of the institute conduct various environmental awareness programs. Programs conducted during 2017-18 includes</p> <ul style="list-style-type: none"> <li>• Environment Quiz program</li> <li>• Cycle Street</li> <li>• Annual Srishtisambhrama program</li> <li>• Tree Planting</li> <li>• Documentary shows on Flora and fauna</li> <li>• Plastic Free Awareness program</li> <li>• Students participation in Idea Conclave for Better Bengaluru</li> <li>• Swachh Bharath Abhiyaan</li> <li>• Rally for Rivers</li> </ul>
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7.5 Whether environmental audit was conducted? Yes  No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis): Nil

### **Plans of institution for next year 2018-19**

1. Skill Development Programs (SDPs)
2. Effective implementation Remedial/tutorial classes
3. Promotion of research
4. Enhancement of Industry linkages
5. Alumni lecture series
6. Increase in the number of student ideas from eleven to fifteen, to convert them into prototypes under NewGen IEDC funded by DST.

*Name :Dr. J. Thipperudrappa*

*Name: Dr. Krishnamurthy G N*

*Signature of the Coordinator, IQAC*

*Signature of the Chairperson, IQAC*

**Academic Calendar of the year: 2017-18**

Calendar of events for Aug - Dec 2017								
	MON	TUE	WED	THU	FRI	SAT	SUN	Planned activity
JULY						1	2	
	3	4	5	6	7	8	9	
	10	11	12	13	14	15	16	
	17	18	19	20	21	22	23	
	24	25	26	27	28	29	30	29 IQAC Meeting -I
	31							
AUG		1	2	3	4	5	6	4 Varamahalakshmi vrata
	7	8	9	10	11	12	13	7 Start of higher semesters, 7 to 12 Placement training for 7 semester, 10 Inaguration of 1 semester,
	14	15	16	17	18	19	20	14 Start of regular classes for 7 semester, 15 Independence Day
	21	22	23	24	25	26	27	25 Ganesha Chathurti
	28	29	30	31				
SEP					1	2	3	2 Bakrid
	4	5	6	7	8	9	10	
	11	12	13	14	15	16	17	11 - 13 First tests, 15-16 Sristi sambhrama
	18	19	20	21	22	23	24	19 Mahalaya Amavasya, 22 Fresher's Day, 23 & 24 Nagesh Rao memorial tournament
	25	26	27	28	29	30		29 Ayudha Pooja, 30 Vijayadashami
OCT						1		

	2	3	4	5	6	7	8	2 Gandhi Jayanti, 5 Valmiki Jayanti
	9	10	11	12	13	14	15	
	16	17	18	19	20	21	22	18 Naraka Chaturdasi, 20 Balipadyami,
	23	24	25	26	27	28	29	26 - 28 Second tests, 27 Annual Athletic meet
	30	31						
			1	2	3	4	5	1 Rajothsava, 3 IPL winter competitions
	6	7	8	9	10	11	12	6 Kanakadasa Jayanti
	13	14	15	16	17	18	19	
NOV	20	21	22	23	24	25	26	21 Founder's Day, 20, 22 - 23 Third Test , 25 End of semester
	27	28	29	30				27 Practical exam start
					1	2	3	2 ID Milad
	4	5	6	7	8	9	10	
DEC	11	12	13	14	15	16	17	11 Theory exam start
	18	19	20	21	22	23	24	
	25	26	27	28	29	30	31	25 Christmas
	11	11	11	13	12	13		Total 58 classes available
								Approved by Director
	Closed holiday							
	No classes							
	Events with normal classes							

Calendar of events for Jan - Jun 2018 (UG)								
	MON	TUE	WED	THU	FRI	SAT	SUN	Planned activity
JAN	1	2	3	4	5	6	7	
	8	9	10	11	12	13	14	
	15	16	17	18	19	20	21	15 Makara sankranti, 17-25 Placement training for BE students. 16 - 20 FDP EEE, Phy
	22	23	24	25	26	27	28	22 - 04 Bridge course to 4th sem. CSE & ISE students. 26 Republic day, 21 Alumni Day
	29	30	31					29- 31 FDP, MBA
FEB				1	2	3	4	
	5	6	7	8	9	10	11	5 Start of even semester classes, 6 workshop for non-teaching staff
	12	13	14	15	16	17	18	13 Mahashivaratri, 16 Talents day, 14 workshop for non-teaching staff
	19	20	21	22	23	24	25	19 Blood donation camp, NSS
	26	27	28					
MAR				1	2	3	4	
	5	6	7	8	9	10	11	10 IQAC Meeting II
	12	13	14	15	16	17	18	12-14 First tests, 18 Ugadi
	19	20	21	22	23	24	25	23-24 TATVA
	26	27	28	29	30	31		29 Mahavir jayanti 30 Good Friday
APR							1	
	2	3	4	5	6	7	8	7 - 8 CSI state level symposium,
	9	10	11	12	13	14	15	14 Ambedkar Jayanti
	16	17	18	19	20	21	22	18 Basava Jayanti, 19- 21 Second Tests
	23	24	25	26	27	28	29	27 - 28 Aarohan
	30							
MAY		1	2	3	4	5	6	1 May Day, 4 summer IPL, 5 College day

	7	8	9	10	11	12	13	
	14	15	16	17	18	19	20	17 - 19 Third test,
	21	22	23	24	25	26	27	21 Graduation day, 23 Last working Day, 26 IQAC Meeting III
	28	29	30	31				28 Practical Exams start for 2, 4, 6 Sem. Theory exam start for 8 sem.
					1	2	3	
	4	5	6	7	8	9	10	
JUN	11	12	13	14	15	16	17	11 start of VIVA for 8sem., 16 Ramzan
	18	19	20	21	22	23	24	
	25	26	27	28	29	30		30 IQAC Meeting IV
	14	12	13	12	11	10		58 - 62 classes
								Approved by Director
		Closed holiday						
		No classes						
		Events with normal classes						

**Analysis of feedback**

**A. Alumni feedback**

**Computer Science and Engineering:**

Sl. No	Questionnaire	Target Response for attainment calculation	Percentage attained
1	<b>How well did BNMIT prepare you for the professional career?</b> A. Very well B. Adequately C. Lacks in some aspects D. Poorly	Options Very well & Adequately	86
2	<b>Have you enrolled / completed a higher Professional degree. Mark, what applies</b> A. Masters degree (MS/MTECH/ME/MBA) B. Doctorate Degree C. Professional Certifications D. Any Other specify __	Any one of the Options	99
3	<b>How well do you think undergraduate programme at BNMIT prepared you to:</b>	Options Good, Very good & Excellent	
	A. Develop career- or work-related		92
	B. knowledge and skills.		91
	C. Think analytically and logically		92
	D. Communicate well: written and oral		82
	E. Acquire new skills and knowledge		86
	F. on your own	88	
4	<b>When you look back today at your stay in BNMIT, how important is each of the following in moulding you?</b>	Options Important and Very important	
	A. Hobby Clubs		87
	B. Sports		82
	C. Cultural activities		89
	D. Friendships during college		96
	E. Nature club activities	81	



### Information Science and Engineering:

Sl. No	Questionnaire	Target Response for attainment calculation	Percentage attained
1	<b>How well did BNMIT prepare you for the professional career?</b> A. Very well B. Adequately C. Lacks in some aspects D. Poorly	Options Very well & Adequately	89.18
2	<b>Have you enrolled / completed a higher Professional degree. Mark, what applies</b> A. Masters degree (MS/MTECH/ME/MBA) B. Doctorate Degree C. Professional Certifications D. Any Other specify __	Any one of the Options	43.24
3	<b>How well do you think undergraduate programme at BNMIT prepared you to:</b>	Options Good, Very good & Excellent	
	A. Develop career- or work-related		89.18
	B. knowledge and skills.		86.48
	C. Think analytically and logically		86.48
	D. Communicate well: written and oral		89.18
	E. Acquire new skills and knowledge		89.18
	F. on your own	91.89	
4	<b>When you look back today at your stay in BNMIT, how important is each of the following in molding you?</b>	Options Important and Very important	
	A. Hobby Clubs		91.89
	B. Sports		89.18
	C. Cultural activities		94.59
	D. Friendships during college		97.29
	E. Nature club activities		78.30
	F. Technical activities		100
G. BNMIT as a whole	83.78		

## Electronics & Communication Engineering:

Sl. No	Questionnaire	Target Response for attainment calculation	Percentage attained
1	<b>How well did BNMIT prepare you for the professional career?</b> A. Very well B. Adequately C. Lacks in some aspects D. Poorly	Options Very well & Adequately	88.46
2	<b>Have you enrolled / completed a higher Professional degree. Mark, what applies</b> A. Masters degree (MS/MTECH/ME/MBA) B. Doctorate Degree C. Professional Certifications D. Any Other specify __	Any one of the Options	45.00
3	<b>How well do you think undergraduate programme at BNMIT prepared you to:</b>	Options Good, Very good & Excellent	
	A. Develop career- or work-related		84.61
	B. Think analytically and logically		88.46
	C. Communicate well: written and oral		92.30
	D. New skills and knowledge		80.70
	E. Effective Team member		84.61
	F. Group Leader	76.90	
4	<b>When you look back today at your stay in BNMIT, how important is each of the following in molding you?</b>	Options Important and Very important	
	A. Hobby Clubs		92.30
	B. Sports		88.46
	C. Cultural activities		96.15
	D. Friendships during college		96.15
	E. Nature club activities		90.00
	F. Technical activities	96.15	

## Electrical & Electronics Engineering:

Sl. No	Questionnaire	Target Response for attainment calculation	Percentage attained
1	<b>How well did BNMIT prepare you for the professional career?</b> A. Very well B. Adequately C. Lacks in some aspects D. Poorly	Options Very well & Adequately	92.30
2	<b>Have you enrolled / completed a higher Professional degree. Mark, what applies</b> A. Masters degree (MS/MTECH/ME/MBA) B. Doctorate Degree C. Professional Certifications D. Any Other specify __	Any one of the Options	92.30
3	<b>How well do you think undergraduate programme at BNMIT prepared you to:</b> A. Develop career- or work-related B. knowledge and skills. C. Think analytically and logically D. Communicate well: written and oral E. Acquire new skills and knowledge F. on your own	Options Good, Very good & Excellent	76.92
4	<b>When you look back today at your stay in BNMIT, how important is each of the following in moulding you?</b> A. Hobby Clubs B. Sports C. Cultural activities D. Friendships during college E. Nature club activities	Options Important and Very important	80.00

## Mechanical Engineering:

Sl. No	Questionnaire	Target Response for attainment calculation	Percentage attained
1	<b>How well did BNMIT prepare you for the professional career?</b> A. Very well B. Adequately C. Lacks in some aspects D. Poorly	Options Very well & Adequately	75.76
2	<b>Have you enrolled / completed a higher Professional degree. Mark, what applies</b> A. Masters degree (MS/MTECH/ME/MBA) B. Doctorate Degree C. Professional Certifications D. Any Other specify __	Any one of the Options	36
3	<b>How well do you think undergraduate programme at BNMIT prepared you to:</b>	Options Good, Very good & Excellent	
	A. Develop career- or work-related		91.67
	B. knowledge and skills.		94.44
	C. Think analytically and logically		100
	D. Communicate well: written and oral		94.44
	E. Acquire new skills and knowledge		100
	F. on your own	97.22	
4	<b>When you look back today at your stay in BNMIT, how important is each of the following in moulding you?</b>	Options Important and Very important	
	A. Hobby Clubs		77.77
	B. Sports		86.11
	C. Cultural activities		86.11
	D. Friendships during college		94.44
	E. Nature club activities	75	

## B. Parent feedback

Question	% of feedback
How good is the infrastructure at the college?	91.67
How well is the discipline maintained in the institution?	100.00
Rate the initiatives taken in the institution to inculcate human values in students	97.22
How are the facilities and encouragement for sports activities?	68.06
How are the facilities and encouragement for cultural activities?	91.67
Were there enough Co-curricular activities arranged in the institution for your ward to learn extra things?	86.11
How would you grade placement activities at the institution?	83.33
What do you think of activities at BNMIT to encourage entrepreneurship?	88.89

## C. Employers feedback

### Computer Science & Engineering:

Sl. No	Questionnaire	Target Response for attainment calculation	Percentage attained
I	<b>Knowledge</b> 1. Working knowledge 2. Problem solving and critical thinking skills 3. Design solutions to real life problems	Options Good, Very good & Excellent	100
II	<b>Communication Skills</b> 1. Oral communication 2. Report writing 3. Presentation skills	Options Good, Very good & Excellent	100
III	<b>Personal attributes and Interpersonal Skills</b> 1. Ability to work in teams 2. Leadership 3. Independent thinking 4. Motivation 5. Loyalty 6. Professional ethics 7. Time management 8. Judgment 9. Discipline	Options Good, Very good & Excellent	100

**Information Science & Engineering:**

Sl. No	Questionnaire	Target Response for attainment calculation	Percentage attained
I	<b>Knowledge</b> 1. Working knowledge 2. Problem solving and critical thinking skills 3. Design solutions to real life problems	Options Good, Very good & Excellent	100
II	<b>Communication Skills</b> 1. Oral communication 2. Report writing 3. Presentation skills	Options Good, Very good & Excellent	100
III	<b>Personal attributes and Interpersonal Skills</b> 1. Ability to work in teams 2. Leadership 3. Independent thinking 4. Motivation 5. Loyalty 6. Professional ethics 7. Time management 8. Judgment 9. Discipline	Options Good, Very good & Excellent	100

**Electronics & Communication Engineering:**

Sl. No	Questionnaire	Target Response for attainment calculation	Percentage attained
I	<b>Knowledge</b> 1. Working knowledge 2. Problem solving and critical thinking skills 3. Design solutions to real life problems	Options Good, Very good & Excellent	88.66
II	<b>Communication Skills</b> 1. Oral communication 2. Report writing 3. Presentation skills	Options Good, Very good & Excellent	88.66
III	<b>Personal attributes and Interpersonal Skills</b> 1. Ability to work in teams 2. Leadership 3. Independent thinking 4. Motivation 5. Loyalty 6. Professional ethics 7. Time management 8. Judgment 9. Discipline	Options Good, Very good & Excellent	90.88

**Electrical & Electronics Engineering:**

<b>Sl. No</b>	<b>Questionnaire</b>	<b>Target Response for attainment calculation</b>	<b>Percentage attained</b>
I	<b>Knowledge</b> 1. Working knowledge 2. Problem solving and critical thinking skills 3. Design solutions to real life problems	Options Good, Very good & Excellent	100
II	<b>Communication Skills</b> 1. Oral communication 2. Report writing 3. Presentation skills	Options Good, Very good & Excellent	100
III	<b>Personal attributes and Interpersonal Skills</b> 1. Ability to work in teams 2. Leadership 3. Independent thinking 4. Motivation 5. Loyalty 6. Professional ethics 7. Time management 8. Judgment 9. Discipline	Options Good, Very good & Excellent	100

**Mechanical Engineering:**

<b>Sl. No</b>	<b>Questionnaire</b>	<b>Target Response for attainment calculation</b>	<b>Percentage attained</b>
I	<b>Knowledge</b> 1. Working knowledge 2. Problem solving and critical thinking skills 3. Design solutions to real life problems	Options Good, Very good & Excellent	100
II	<b>Communication Skills</b> 1. Oral communication 2. Report writing 3. Presentation skills	Options Good, Very good & Excellent	100
III	<b>Personal attributes and Interpersonal Skills</b> 1. Ability to work in teams 2. Leadership 3. Independent thinking 4. Motivation 5. Loyalty 6. Professional ethics 7. Time management 8. Judgment 9. Discipline	Options Good, Very good & Excellent	100

#### D. Student feedback on faculty (Sample data)

Faculty: Keerthi Kulkarni, Branch: ECE, Subject: Digital Signal Processing

Question	% of feedback
Rate how well the course objectives were explained.	85.33
The pace at which the subject was covered; fast, Ok, slow.	81.33
How was the delivery (audible and clear)?	86.22
How was the teacher's interaction with students?	88.00
Rate how the applications to real world were explained.	85.33
Rate teacher's use of appropriate teaching tools.	81.78
Rate appropriateness of test questions to what was taught.	86.67
Rate fairness of evaluation of test performance.	86.67
Rate effectiveness in meeting course objectives.	83.56
Rate quality of learning experience and teacher feedback on your performance.	84.89
Total	84.98

Faculty: Bhuvana Suganthi D, Branch: ECE, Subject: Embedded Systems

Question	% of feedback
Rate how well the course objectives were explained.	69.75
The pace at which the subject was covered; fast, Ok, slow.	69.50
How was the delivery (audible and clear)?	70.50
How was the teacher's interaction with students?	69.00
Rate how the applications to real world were explained.	65.75
Rate teacher's use of appropriate teaching tools.	67.25
Rate appropriateness of test questions to what was taught.	69.75
Rate fairness of evaluation of test performance.	70.00
Rate effectiveness in meeting course objectives.	68.00
Rate quality of learning experience and teacher feedback on your performance.	69.75
Total	68.93

E.

Faculty: Prof. A. Kumar, Branch: EEE, Subject: Control Systems

Question	% of feedback
Rate how well the course objectives were explained.	92.65
The pace at which the subject was covered; fast, Ok, slow.	93.47
How was the delivery (audible and clear)?	93.88
How was the teacher's interaction with students?	92.24
Rate how the applications to real world were explained.	92.24
Rate teacher's use of appropriate teaching tools.	93.06
Rate appropriateness of test questions to what was taught.	95.10
Rate fairness of evaluation of test performance.	92.24
Rate effectiveness in meeting course objectives.	93.06
Rate quality of learning experience and teacher feedback on your performance.	93.06
Total	93.10



Faculty: Karanam Vasudha, Branch: EEE, Subject: Op Amps & Linear ICs

Question	% of feedback
Rate how well the course objectives were explained.	76.67
The pace at which the subject was covered; fast, Ok, slow.	72.67
How was the delivery (audible and clear)?	75.33
How was the teacher's interaction with students?	75.33
Rate how the applications to real world were explained.	73.33
Rate teacher's use of appropriate teaching tools.	73.33
Rate appropriateness of test questions to what was taught.	76.00
Rate fairness of evaluation of test performance.	78.00
Rate effectiveness in meeting course objectives.	76.00
Rate quality of learning experience and teacher feedback on your performance.	78.00
Total	75.47

Faculty: Dr.Girisha G S, Branch: ISE, Subject: Web 2.0 and Rich Internet Applications

Question	% of feedback
Rate how well the course objectives were explained.	85.41
The pace at which the subject was covered; fast, Ok, slow.	87.03
How was the delivery (audible and clear)?	86.49
How was the teacher's interaction with students?	87.03
Rate how the applications to real world were explained.	88.11
Rate teacher's use of appropriate teaching tools.	87.57
Rate appropriateness of test questions to what was taught.	88.65
Rate fairness of evaluation of test performance.	88.65
Rate effectiveness in meeting course objectives.	88.65
Rate quality of learning experience and teacher feedback on your performance.	86.49
Total	87.41

Faculty: Jagruthi H, Branch: ISE, Subject: Software Testing

Question	% of feedback
Rate how well the course objectives were explained.	74.64
The pace at which the subject was covered; fast, Ok, slow.	77.14
How was the delivery (audible and clear)?	76.07
How was the teacher's interaction with students?	75.36
Rate how the applications to real world were explained.	75.36
Rate teacher's use of appropriate teaching tools.	75.00
Rate appropriateness of test questions to what was taught.	77.14
Rate fairness of evaluation of test performance.	78.93
Rate effectiveness in meeting course objectives.	76.07
Rate quality of learning experience and teacher feedback on your performance.	76.07
Total	76.18

Faculty: Jebah Jaykumar , Branch: CSE, Subject: Dot Net Framework for Application Development

<b>Question</b>	<b>% of feedback</b>
Rate how well the course objectives were explained.	90.00
The pace at which the subject was covered; fast, Ok, slow.	90.00
How was the delivery (audible and clear)?	90.00
How was the teacher's interaction with students?	90.00
Rate how the applications to real world were explained.	90.00
Rate teacher's use of appropriate teaching tools.	90.00
Rate appropriateness of test questions to what was taught.	90.00
Rate fairness of evaluation of test performance.	90.00
Rate effectiveness in meeting course objectives.	90.00
Rate quality of learning experience and teacher feedback on your performance.	90.00
Total	90.00

Faculty: D Sreelakshmi , Branch: CSE, Subject: Engg. Mathematics

<b>Question</b>	<b>% of feedback</b>
Rate how well the course objectives were explained.	83.56
The pace at which the subject was covered; fast, Ok, slow.	88.44
How was the delivery (audible and clear)?	88.00
How was the teacher's interaction with students?	88.89
Rate how the applications to real world were explained.	83.11
Rate teacher's use of appropriate teaching tools.	84.89
Rate appropriateness of test questions to what was taught.	88.00
Rate fairness of evaluation of test performance.	85.33
Rate effectiveness in meeting course objectives.	85.33
Rate quality of learning experience and teacher feedback on your performance.	86.67
Total	86.18

Faculty: Dr.B.S. Anilkumar, Branch: Mech., Subject: CAMD

<b>Question</b>	<b>% of feedback</b>
Rate how well the course objectives were explained.	81.90
The pace at which the subject was covered; fast, Ok, slow.	79.68
How was the delivery (audible and clear)?	82.86
How was the teacher's interaction with students?	82.22
Rate how the applications to real world were explained.	76.83
Rate teacher's use of appropriate teaching tools.	81.27
Rate appropriateness of test questions to what was taught.	78.73
Rate fairness of evaluation of test performance.	79.68
Rate effectiveness in meeting course objectives.	80.00
Rate quality of learning experience and teacher feedback on your performance.	78.10
Total	80.13

<b>Question</b>	<b>% of feedback</b>
Rate how well the course objectives were explained.	92.78
The pace at which the subject was covered; fast, Ok, slow.	93.33
How was the delivery (audible and clear)?	94.44
How was the teacher's interaction with students?	93.33
Rate how the applications to real world were explained.	91.67
Rate teacher's use of appropriate teaching tools.	91.11
Rate appropriateness of test questions to what was taught.	93.89
Rate fairness of evaluation of test performance.	93.33
Rate effectiveness in meeting course objectives.	92.78
Rate quality of learning experience and teacher feedback on your performance.	92.78
Total	92.94

#### **E. Student feedback on facilities**

<b>Feedback Question</b>	<b>Percentage Feedback</b>
Availability and accessibility of resources(adequacy of relevant books, online access to journals) in the college library	86.38
The quality of food served in the college canteen	63.01
The adequacy of facilities for extracurricular activities such as sports, gym, cultural, yoga, nature club, etc.,	75.52
The adequacy and accessibility of internet connectivity and Wi-Fi facility	46.17
The availability and adequacy of drinking water facility	77.48
The adequacy and maintenance of rest rooms	85.41
The adequacy auditorium and seminar halls	93.03

### **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 today's 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 3-5, every semester apart from their regular curriculum. This activity develops team spirit, creative thinking, self learning, life-long 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 2017-18.

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 ideas / projects / prototypes into products.

#### 8. Contact Details:

<b>Name of the Principal</b>	: Dr. Krishnamurthy G.N
<b>Name of the Institution</b>	: BNM Institute of Technology
<b>City</b>	: Bangalore
<b>Pin Code</b>	: 560070
<b>Accredited Status</b>	: A - Grade
<b>Work Phone</b>	: 080 26711781/82 <b>Fax</b> : 080 26711780
<b>Website</b>	: <a href="http://www.bnmit.org">www.bnmit.org</a>
<b>e-mail</b>	: <a href="mailto:principal@bnmit.in">principal@bnmit.in</a>
<b>Mobile</b>	: 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

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](http://www.bnmit.org)  
**e-mail** : [principal@bnmit.in](mailto:principal@bnmit.in)  
**Mobile** : 8105869067

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