



## Yearly Status Report - 2015-2016

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		BALLARI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BALLARI
Name of the head of the Institution		DR V C PATIL
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08392237150
Mobile no.		9448006862
Registered Email		bitmiqac@gmail.com
Alternate Email		principal@bitm.edu.in
Address		Jnana Gangotri Campus, No 873/2, Ballari Hosapete Road, Allipura, BALLARI
City/Town		BALLARI
State/UT		Karnataka
Pincode		583104

<b>2. Institutional Status</b>					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Urban			
Financial Status		private			
Name of the IQAC co-ordinator/Director		DR N GURURAJ			
Phone no/Alternate Phone no.		08392237150			
Mobile no.		9448695476			
Registered Email		bitmiqac@gmail.com			
Alternate Email		bitmbly@gmail.com			
<b>3. Website Address</b>					
Web-link of the AQAR: (Previous Academic Year)		<a href="http://bitm.edu.in/aqar">http://bitm.edu.in/aqar</a>			
<b>4. Whether Academic Calendar prepared during the year</b>		Yes			
if yes, whether it is uploaded in the institutional website: Weblink :		<a href="http://www.bitm.edu.in/nacc-ssr">http://www.bitm.edu.in/nacc-ssr</a>			
<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.66	2015	25-Jun-2015	24-Jun-2020
<b>6. Date of Establishment of IQAC</b>			01-Jul-2015		
<b>7. Internal Quality Assurance System</b>					
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		
One Day workshop on Flexible Manufacturing System	19-Oct-2015 1		60		

Graphical system design using Labview	27-Oct-2015 1	60
Cadence Tools on CIC/ASIC Flow	27-Jan-2016 1	60
Two Days workshops on Advanced Technologies in Automotives for 8th Semester students	06-May-2016 2	50
Career Guidance program for Mechanical students by Mr. Swaroop, Jr. Manager, JSW, Toranagallu	16-May-2016 1	110
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**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
MECHANICAL ENGINEERING	RD	KCTU, GOK & GOI	2015 365	10800000
MECHANICAL ENGINEERING	K-Fist L1	VGST, GOK, Bangalore	2015 365	2000000
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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)**

1. Improved the Graduation Results

2. Enhanced employability by implementing personality development programs, value added certificate courses

3. Value Added Certificate Courses to bridge the gap in curriculum.

4. Improvement in R and D Activity

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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	Achievements/Outcomes
Improve the academic results.	Results of 1st Year students improved by margin of 6.2 compared to last year results. This is due to remedial classes and proctorship.
Improve the Placements.	The students were encouraged to do certification courses in order to build on their qualifications related to their career. Provide Career Guidance or CRT and other Training apart from arranging campus recruitment drives by the Training and Placement Cell. As a result, placements were improved by 12.68 as compared to previous year.
To initiate MoU and Set up Center of excellence.	National Instruments and J Spiders Q Spiders MoU Center of excellence were setup in this academic year.
To setup RD Centre.	VGST for ECE and KCTU functioning from Mechanical helped to setup RD Lab.
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**14. Whether AQAR was placed before statutory body ?**

Yes

Name of Statutory Body	Meeting Date
Governing Body	10-Dec-2016

**15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?**

Yes

Date of Visit

21-Nov-2015

**16. Whether institutional data submitted to AISHE:**

Yes

Year of Submission

2016

Date of Submission	27-Feb-2016
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>The College has a fullfledged Management information system for the Academic and administrative functioning of the college. The administrative system in the college is fully automated with appropriate software and all information on student admission, examinations, marks, fee payments, etc., is available for timely decision making and actions. The College library is also automated and the information regarding availability of books, issue details, etc., is available to the students and staff at finger tips. An online public access catalogue OPAC is implemented to enable the students for speedy and convenient access to the library catalogue. All the academic and administrative issues are deliberated and discussed in the appropriate Committees. The deliberations are properly debated and action items recorded and the decisions implemented at all levels in the form of proceedings, rules and regulations and policies. All relevant information about the college is published on the college website for reference. MIS reports are Daily Absent Report Staff and Students One Page Monthly Report IQAC Monthly Presentation Management Review Meetings Budget Meetings IQAC Quarterly Meetings Semester Progress Report Annual Report Governing Council Fee Due List. Fee Payment List.</p>

## 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 college systematically designs and develops action plans for effective implementation of the curriculum. At the outset, the Principal of the college conducts meetings regularly with the Heads of Departments to develop various strategies for effective implementation of the curriculum. The academic calendar issued by the affiliating university forms the basis for designing the college semester plan. The college semester plan consists of commencement date and last working date, dates for conduction of the internal assessment tests. Department-wise calendar of events' is prepared. Thereafter, the faculty

members of various departments conduct their internal meetings and develop academic plans such as timetables, lesson plans, and course files for the coming academic year. Teachers are encouraged to plan in advance to impart the curriculum through innovative teaching methods such as presentations, assignments, discussions, workshops, seminars, industrial visits apart from regular lecture sessions and the same is taken for approval from their Head of Department and the Principal. Thereafter the lesson plans are prepared by the respective faculty in accordance with the curriculum. Lesson plans and subject course files are maintained by each faculty for their respective subjects allotted, which is reviewed on continuous basis by the review committee. The following criteria have been followed in effective implementation of the curriculum:

- We have a predefined college calendar following the university dates regarding the schedule of the semester (sample of the academic calendar copy will be available for inspection during peer committee visit).
- Lesson plan is made according to the college calendar for each semester.
- As part of our plan in implementing the curriculum, we have scheduled internal assessment tests (minimum of three tests per semester) for all the students.
- Apart from regular classes we have case study/presentation, Guest Lecturers/workshop hours to enhance the capability of students in presenting the topics related to the curriculum.
- Identification of above-average students and motivating them towards excelling in their academic performance.
- Identification of academically weak students and conducting the remedial classes so as to raise their academic performance.
- Organizing expert lecture series, workshops, and guest lecture to encourage industry-academia interface among students and faculty members on a regular basis.
- Industrial visits are arranged for the students to be familiar with the industry requirement.
- Bridge Courses for Diploma Students.
- Design based experiments to facilitate content beyond syllabus.

#### 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
Infosys Campus Connect Foundation Program	NIL	05/09/2015	120	employability	Skill Development

### 1.2 – Academic Flexibility

#### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
<b>No Data Entered/Not Applicable !!!</b>		
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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	Engineering	01/08/2015

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

	Certificate	Diploma Course
Number of Students	137	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
Aptitude Training by IU Solutions.	13/07/2015	463
InHouse Technical Training	27/07/2015	463
Wipro (MTLC)	02/07/2015	40
TechMahindra Specific Training Mock Test	24/08/2015	210
MindTree Specific training Mock Test	06/09/2015	163
Igate Company specific training	04/10/2015	240
Torry Harris Company Specific training	02/02/2016	75
J/Qspiders Training.	18/03/2016	130
Aptitude Soft skills training by Bizotic talent Solutions	23/02/2016	110

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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	Engineering	5
Mtech	Engineering	70
MBA	Management	115

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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
<p>FEED BACK ANALYSIS Analysis of Student Survey All the students rate the teaching and learning process of faculty on 12 parameters ranging from presentation of subject, punctuality, regularity and other qualitative aspects. Consolidated feedback report is obtained class wise and ratings are indicated on a scale from 1 to 10. Faculty having rating below 8 are counselled by the HOD or Senior Staff. Faculty who need a lot of improvement in teaching and</p>

learning process are recommended to attend Faculty Development Programs to improve their delivery as well as content. The feedback of the teaching faculty is also accounted in their appraisal. Analysis of Employers Survey Based on the analysis of the Employers survey the employers have indicated to improve industry oriented courses for Skilled Development and increase the research activity among faculty and develop problem solving and research mind set among students. The analysis also provides input towards developing project management skills and increase the usage of modern tools for student development. Students should improve to develop ability to solve complex problems, team work and ethics. Analysis of Alumni Survey Based on the analysis of the Alumni survey the following aspects have been indicated by the Alumni for the overall development of the institution. Alumni have indicated to improve skills through new methodologies and by using modern tools, design and development process among the students. Team working ability by displaying the leadership, qualities, management skills and ability to solve complex problems through research mind set. Alumni's have indicated to improve project management and finance for lifelong learning. Analysis of Parent Feedback Based on the inputs and feedback from the parents, it is clearly highlighted, the institute should setup centre of excellences and sign MoUs with top companies for skill development. Also the parents indicated to provide the modern facilities in the institution for overall development of the students. Parents have indicated to conduct more workshop on modern technologies and also encourage the students for research. Also develop students with good ethics and values. Students should also be encouraged to participate in external competitions. So that they develop personality, boldness and courage to face the real life world.

## 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	Engineering	840	790	790
Mtech	Engineering	126	56	56
MBA	Management	180	136	136
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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
2015	3014	446	224	37	15

### 2.3 – Teaching - Learning Process

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

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



224	159	20	33	12	10
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The student mentoring system in the institution takes care of the overall development of students in terms of academic performance, building up the career, move towards the right path and be focused in relevant fields. Each mentor is allocated 1820 students each for effective mentoring. The objectives of the support system are Monitor the academic performance, Mentor and guide them to achieve and do better in academics, Understand the problems including personal and advice appropriately to monitor the overall development of the student. Each student is allotted with a faculty mentor, and each mentor maintains a Proctor form with details like parents guardians name, addresses, contact numbers and academic details, academic scores. Psychological counselors are available to all the students who are counseled individually, aided therapeutically and are supported in their aspirations related to academics, career plans, to air their grievances and cope with issues which may impede their progress in the above areas. All student mentors encourage the students participation, apart from curricular guidance, also in cocurricular, extracurricular and other profession activities, which will motivate them stimulate their growth into well rounded young professionals. Regular orientation programs and Parent meetings are conducted bringing parents into the monitoring or mentoring system as key stake holders. Follow up sessions with the parents or faculty or counselors and mentors are regularly arranged with the students who have poor performance and attendance to enable them to improve their attendance and performance. Details of mentoring system Sl. No. Type of mentoring system Functions

- 1 Professional guidance Encourage students to discuss their ideas on paper presentations. Stimulate students thinking towards innovation in projects Support their learning through attending technical workshops. Motivate them to expand their domain knowledge base through participating in competitive activities like Corporate quizzes
- 2 Academic guidance > Share information of academic planners, academic schedules and e learning resources. > Identify students with poor attendance and ensure that they improve their attendance by getting counselled in the presence of mentor, counsellor and HOD. > Focus on academically weak students, by providing them with additional reading materials, model questions along with solutions and special makeup Classes and remedial classes.
- 3 Career advancement > Encourage students to do certification courses in order to build on their qualifications related to their career. > Provide Career Guidance or CRT and other Training apart from arranging campus recruitment drives by the Training and Placement Cell > Support their research into Industry, companies, job and candidate profiles.
- 4 Laboratory specific > Counsel irregular students to laboratory classes to attend regularly and complete backlog experiments during specified extra hours. > Arrange special lab coaching for Students with backlogs in external lab exams. > Labs are opened beyond academic schedule.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3460	224	1 : 15

**2.4 – Teacher Profile and Quality**

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
230	224	6	6	2

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
2015	Mr. Naseeruddin	Assistant Professor	IIT Bombay Proficiency award (Class A Winner in TBT2016 through eLSI under eYantra,

			IITB)
2015	Mr. Manjunath G	Assistant Professor	IIT Bombay Proficiency award (Class A Winner in TBT2016 through eLSI under eYantra, IITB)
2015	Mr. Prabhakar K	Assistant Professor	IIT Bombay Proficiency award (Class A Winner in TBT2016 through eLSI under eYantra, IITB)
2015	Mr. William Thomas H M	Assistant Professor	IIT Bombay Proficiency award (Class A Winner in TBT2016 through eLSI under eYantra, IITB)
2015	Dr Raghavendra Joshi	Professor	Innovative Technological Research Dedicated Professor Award, Professional Awards Honours, Kuala Lumpur, Malaysia.
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## 2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	CSE, EEE, ECE, MECH, CIVIL	I, III, V, VII	20/11/2015	16/02/2016
BE	CSE, EEE, ECE, MECH, CIVIL	II,IV,VI,VIII	21/05/2016	24/07/2016
MBA	MBA	I,III	20/11/2015	25/02/2016
MBA	MBA	II,IV	08/06/2016	10/08/2016
Mtech	CNE, DE EC, VLSI, DE ME, PE	I,III	20/11/2015	15/03/2016
Mtech	CNE, DE EC, VLSI, DE ME, PE	II,IV	11/04/2016	10/06/2016
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The institute has taken efforts to improve the performance of students. The reforms are as follows 1. Remedial measures are taken by conducting tutorial classes to clarify doubts and reexplaining the critical topics. Remedial Classes are conducted for the slow learners, absentees and the students who

participate in Sports, NSS activities and Placement Interviews. This practice helps struggling learners to update their subject knowledge and helps them to catch up with their peers. 2. Student is provided with CIE hall ticket. 3. Question banks are provided for all subjects. 4. Students are encouraged to solve previous years University Exam question papers. 5. Assignments given for continuous learning to semester exams. 6. Poor performance due to frequent absenteeism is informed to the parents through registered letters. 7. Internal squads to check malpractices. 8. Progress Reports are sent to the parents mobile after each test. Parents or Guardians are advised to note the performance of their wards and take remedial measure if needed. Whenever necessary, the faculty shall recommend the visit of the parent to the college for a discussion about the student. 9. Parents meet are conducted to discuss about ward progress. Impact. These reforms have resulted in substantial improvement in students' performance through comprehension of difficult topics, improved time management, enhanced writing skills and individualized attention resulting in refining their cognitive, psychomotor and affective domains of learning. This has significantly enhanced the pass percentage and academic excellence of students

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

- The institution ensures effective time management and timeliness.
- It receives the university given timeline and adheres to it.
- In the beginning of the academic year, academic calendar is published by the University for Respective programs.
- The college carries out effective planning to stick to academic calendar.
- This allows the teachers and the students to space out their teaching and learning and regular assessment of the same.
- The college conducts assessment to the students in three different components theory and assignments.
- The theory component is marked out of ten.
- The assignment is marked out of five.
- These tests are conducted in evenly spaced out intervals to avoid pressuring the students with too many examinations.
- Every academic year consists of two semesters.
- Each semester is to be of 16 weeks.
- The first Continuous Internal Examination CIE I is conducted after FIVE weeks of class work.
- CIE II is conducted after TEN weeks of class work.
- CIE III is conducted after FIFTEEN weeks of class work.
- An average of these examinations is calculated to attain the final internal marks of the student.
- These marks are also taken into consideration to decide the course of nature for teaching slow students and rectify their performance before the external examination.
- All question papers are set based on the OBE format.
- They are mapped with their respective course outcomes that are stated in the beginning of the course.
- The assignments given to the students involve unaddressed program outcomes.
- This helps the students attain knowledge beyond the syllabus as these topics are not covered by the exams conducted by the university but are still relevant.
- These assignments are given within a set Time frame.
- The students are to complete them within the time given to adhere to the university timeline.
- Following the university calendar, every department creates internal calendars to ensure timely delivery of syllabus.
- Every teacher follows a strict agenda that is discussed and approved by the head of their respective department. This is followed by deducing a day to day division of topics and chapters.
- A course coordinator creates a course plan well in advance as per the OBE format.
- These topics and chapters are chosen keeping the upcoming CIE in mind.
- The timeline created allows for the students to complete the given syllabus in enough time.
- The students are given plenty of time before the examinations as well to prepare and practice their concepts.
- In case of any required change, the university communicates the modification to the college and the college enforces the same. In any condition, the academic calendar is followed and respected by teachers of all departments.
- Coverage of syllabus is logged and monitored periodically.

## 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)

<http://www.bitm.edu.in>

### 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 & Engg.	119	114	95.79
ECE	BE	Electronics & Communication Engg.	132	122	92.42
ME	BE	Mechanical Engg.	67	60	89.55
EEE	BE	Electrical & Electronics Engg.	77	72	93.51
CIVIL	BE	Civil Engg.	0	0	0
CNE	Mtech	Computer Network Engg.	9	9	100
CSE	Mtech	Computer Science & Engg.	19	19	100
DE	Mtech	Digital Electronics	13	13	100
VLSID&ES	Mtech	VLSI Design & Emb. Sys.	11	11	100
DE (ME)	Mtech	Design Engg.	6	6	100
PE	Mtech	Power Electronics	0	0	0
MBA	MBA	MBA	78	42	53.85
MCA	MCA	MCA	23	22	95.65

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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)

<http://www.bitm.edu.in>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	2	VGST, GOK, KCTU, Bangalore	20	10
Total	2	VGST, GOK, KCTU, Bangalore	20	10
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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
Workshop on EMERGING TRENDS IN BASIC SCIENCE TECHNOOGY on 9th January 2016, Department of Chemistry, Ballari Institute of Technology management, Ballari	Chemistry	09/01/2016
Three Days Workshop on Project Development Methodology Technical Paper Writing	CSE	13/02/2016
National Network Security Championship2016 (Android)	CSE	26/02/2016
Three Days National Level Workshop on "NS3 Open Source ICT"	CSE	24/03/2016
Two Days Workshop on PC Assembling Networking	CSE	30/03/2016
Guest Lecture on "Customer Accounts Opening, Operation Settlement".	MBA	19/09/2015
Guest Lecture on Recent Developments in Indian Capital Market Finance	MBA	19/09/2015
Guest Lecture on Systematic Investment Plan (SIP)	MBA	20/09/2016
Guest Lecture on Merchant Banking Services Financial Services	MBA	20/09/2016
Guest Lecture on Banker and Customer Relationships Banking	MBA	20/09/2016
Banking Technology Innovative Products services offered by banks	MBA	20/09/2016

### 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
VAYUPUTRA MOTOR SPORTS (GOKART)	Krishna Kubera G	BITM, BALLARI	28/07/2015	OPEN
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### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
BITM	Mr. Sai Krishna Kubera	BITM	Immortal Motors Pvt. Ltd	Automobile	01/02/2016
BITM	Mr. Nakul Raj Reddy	BITM	Color Stonz Creative Studios LLP	Software IT Solutions	02/07/2015
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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	1

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

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	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)
National	CHEMISTRY	2	3.25
International	CSE, ME, EEE, CIVIL, MBA, Mathematics, Physics	100	2.36
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### 3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Mechanical Department (Text Book of Design of Machine ElementsII)	1
ECE / CSE/ EEE / Civil	26
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### 3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
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Synthesis Characterization and Biological Studies on Drug Metal Complexes.	Dr. Suresh	International Journal of Pharmacy Life Sciences	2015	0	BITM BALLARI	0
Synthesis Characterization and AntiMicrobial Studies on Cu(II), Co(II), Ni(II), Zn(II), Cd(II) and Hg(II) 1 Complexes with Biologically Active Benzothiazole Schiff Bases,	Dr. Suresh	International Journal of Pharmacy Life Sciences	2015	0	BITM BALLARI	0
AC conductivity and dielectric behaviour of polyaniline/magnesium chromate composites (PANI/MgCrO4)	Machappa. T, S. Manjunatha and Sunil Kumar. A	International Journal of Science, Technology Management	2015	0	BITM BALLARI	4
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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
Flash over voltage modelling of an outdoor porcelain insulators	Santosh B M ,Sridhar S M , Kamal Kishore	Australian journal of basic and applied sciences	2015	0	0	Ballari Institute of Technology and Management
pq Theory based modified control algorithm	Abdul Khadar, Syeda Fatima Kausar	International journal of scientific engineering	2016	0	0	Ballari Institute of Technology and

for load compensation using DSTATCOM		g and technology research				Management
Experimental analysis of effects of mechanical parameters on bearing in a PWM VSI fed induction motor	Sharana Reddy	ICCCES16	2016	0	0	Ballari Institute of Technology and Management
implementation of multi variable self tuning temperature controller and LIW feeder for an extruder machine	Shantala H	IRJEC	2016	0	0	Ballari Institute of Technology and Management
Simulation Based Transform less HPF For Improved Harmonic Compensation Performance Based On SSTL Inverter	Farzana Begum, Md Anwar	IJESC	2016	0	0	Ballari Institute of Technology and Management
Comparison Of Various Switching Technologies For 7 Level Cascaded multilevel Inverter A Review	M Vijaya Krishna, Kamal Kishore	IJERT	2016	0	0	Ballari Institute of Technology and Management
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
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Attended/Seminars/Workshops	6	72	2	31
Presented papers	13	31	0	0
Resource persons	0	0	0	0
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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
NSS /Youth Red Cross (YRC) Volunteer Blood Donation Camp Blood group	VIMS Ballari /Red /Ribbon Club /YRCS/District AIDS Prevention control Unit DAPCU officer	45	300
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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
NSS /Youth Red Cross (YRC) Volunteer Blood Donation Camp Blood group	Highest Units of Blood Donated	Issued certificates to all students by VIMS Ballari / Red Ribbon Club / YRCS / District AIDS Prevention control Unit DAPCU officer	210
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
NSS/ Swachh Bharat	SWACHHTA PAKHWADA	Creating Awareness about Cleanliness	6	150
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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
Wipro Mission 10X Technology Learning Centre	30	BITM	365
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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
OnJob Training	Infosys Campus Connect	Infosys Ltd.,	05/09/2015	15/09/2015	137
Internship	M.Tech. Internship	JSW Steels Ltd., BTPS, Software companies,	01/09/2015	30/11/2015	70
Internship	BE Internship	JSW Steels Ltd., BTPS	01/01/2016	03/02/2016	5
Internship	MBA Internships	Banking / Finance / Marketing and HR Industries	08/12/2015	17/02/2016	115
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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
J Spiders / Q Spiders, Software Testing Training Institute, Bangalore	01/03/2016	Java Skill Development and Manual and Automated Testing	130
National Instruments	18/03/2016	NI Lab view Training and conduction of workshops	150
CII Confederation of Indian Industry	13/01/2016	Industry awareness and latest trends in manpower requirements	15
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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
213	207

4.1.2 – Details of augmentation in infrastructure facilities during the year



Existing	947	709	40	40	28	32	98	64	0
Added	0	0	0	0	0	0	0	0	0
Total	947	709	40	40	28	32	98	64	0

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

64 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
VTU ELearning	<a href="http://10.0.150.11/econtent">http://10.0.150.11/econtent</a>
NPTEL	<a href="http://www.nptel.ac.in">www.nptel.ac.in</a>

### 4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
9.3	896000	675	64500000

#### 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)

**Procedure for Infrastructure Management and Administration Process:** The infrastructure management process can be divided into two subprocesses consisting to have processes for each activity. I. Infrastructure Maintenance II. General Administration

**INFRASTRUCTURE MAINTENANCE PURPOSE** > To ensure availability of Electricity and Water in BITM campus. > To have a procedure for maintenance activities. Maintain Water and Electric equipment. > Ensure timely availability of Medical Facilities and First Aid Kit. > To maintain Hostel and Guest house facilities. > Fire Extinguishers, Theft, Insurance, etc.

**PROCESS FLOW** Input > Plan for Electrical, Water, STP House keeping Resources / enablers > Preventive maintenance activities and actions Output > Availability of facilities

**PROCESS** Planning Head of Maintenance maintains List of Equipments Water sources, Electrical distribution systems, Hospital tie ups and plans for the maintenance through internal or external agencies. Maintenance of Electricity

a) Uninterrupted electric supply is ensured through power house with feeders for institution and total BITM campus. b) DG sets are of "Auto start" in nature, which run and shut down based c) On the nonavailability/resumption of KEB supply and it is connected to essential loads identified. d) Computer labs are supported by UPS. e) The power house is manned, round the clock on a shift basis. Procurement of diesel is on need based, based on an average consumption in the past. f) Generator Maintenance Log book is maintained for the running and servicing of the generators. g) Consumption of diesel per running hour is maintained in the logbook and same is monitored monthly. h) Generators are operated as per manufacturers manual. i) Standby powerhouse comes into operation under two conditions

1) Routine power shut downs: When shut down of power is known / intimated w.r.t time and duration, the generator is starts as soon as power fails to ensure uninterrupted or minimum break of power. 2) Power breakdowns: When sudden break down of power occurs from KPTCL supply, the generator starts as soon as power fails to ensure uninterrupted or minimum break of power. Planned Maintenance: a) An annual

preventive maintenance record is drawn by the head of maintenance taking into the consideration the sub stations, various feeder units, electrical appliances and UPS in the Institute. b) These are maintained through service providers / appointed staff for maintenance and records of the same are maintained through the service reports provided. c) Waste management is to be organized, ensuring bins for various types of wastes and disposing them off periodically with the help of the city corporation. Breakdown Maintenance: a) Breakdown maintenance is maintained for registering breakdown and complaints. b) Records/Documents/Files related to Electricity breakdown shall be maintained separately by Electrical Maintenance Department using the same form. c) Priorities are given based on the area of activity and importance. d) After attending to breakdowns the entries are closed with corrections and solutions provided and confirmations are recorded. e) Incident Reports giving details of occurred incidents and action taken for future use is maintained. Maintenance of Water Supply: a) Water supply

<https://www.bitm.edu.in>

## 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	Fee Concession and Economical Scholarship	17	148000
Financial Support from Other Sources			
a) National	Govt. of Karnataka / OBC, SC, ST Scholarships	1917	44296020
b) International	NIL	0	0

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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Aptitude Soft skill Development	13/07/2015	463	Innovations Unlimited
Inhouse technical training	27/07/2015	463	BITM faculty
Tech Mahindra Company Specific Training	24/08/2015	210	Innovations Unlimited
Mindtree Company Specific Training	06/09/2015	163	Innovations Unlimited
iGate Company Specific Training	04/10/2015	240	Innovations Unlimited
Torry Harris Company Specific Training	02/02/2016	75	Innovations Unlimited
Java Testing	18/03/2016	130	JSpiders / QSpiders

Aptitude Soft skill Development for MBA	23/02/2016	110	BiZotic Talent Solutions
Remedial Coaching	16/08/2015	790	BITM faculty
Bridge Course for Lateral Entry	04/09/2015	285	BITM faculty
Language Lab	16/08/2015	790	BITM faculty
C plus plus Programming Lab	05/02/2016	181	BITM ECE faculty
Project Entrepreneurship Program	30/11/2015	220	Dist. Industry Centre, Ballari
Wipro Mission 10X	02/07/2015	30	BITM ECE, EEE CSE faculty
Personal Counselling and Mentoring	16/08/2015	3460	BITM faculty
Yoga Day 2016	21/06/2015	100	NSS, BITM
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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 passed in the comp. exam	Number of students placed
2015	Importance of Soft skills	0	463	0	325
2015	Scope and opportunities in Higher Education	52	0	26	0
2015	Preparing for Entrepreneurship	0	582	0	2
2015	Building a Career in Physics	0	79	0	0
2015	Path to Successful Software Engineer	0	733	0	122
2015	Industry Expectations from young Engineers	0	713	0	325
2015	Preparation for Competitive	533	0	26	0

Exams

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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
0	0	0

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Tech Mahindra Mind Tree IGate SLK Software Torry Harris Infosys Cognizant Mphasis TCS JSW Steel Shriram Transport Mind Tree IMS Accenture Robert Bosch Synapten Labs Wimra UNI Colour Stone CSGI Dana growth Pvt ltd Hewlett Packard Test Yantra Reflexio	463	203	Graphx Solutions India Pvt Ltd Trigent ISRO Jacobian TessWeb Mastercom Technologies Coserendz India Pvt Ltd HGS Fidelis Corp Solutions HiPower Support Center LLP Nuture software solutions Pvt Ltd Kelly Services / Uber India Systems Pvt Ltd Intelenet	260	122

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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	Department graduated from	Name of institution joined	Name of programme admitted to
2015	1	BE	ECE	Dr. Ambedkar Institute of Technology, Bengaluru	M. Tech
2015	1	BE	ECE	Bellary	M. Tech

				Institute of technology and management, Ballari	
2015	1	BE	ECE	SASTRA University, Thanjavur	M.Tech
2015	1	BE	ECE	CALIFORNIA University, Fullerton	M S
2015	1	BE	ECE	SYRACUSE University Engineering & Computer Science	M S
2015	1	BE	CSE	Christ University, Bangalore	M.B.A
2015	1	BE	CSE	New Jersey Institute of Technology, New Jersey	MS
2015	1	BE	CSE	PES University, Bangalore	M. Tech
2015	1	BE	CSE	PES University, Bangalore	M.B.A
2015	1	BE	CSE	R.Y.M.E.C, Ballari	M. Tech
2015	1	BE	CSE	Florida State University, Florida.	MS
2015	1	BE	CSE	M.S.R.I.T, Bangalore.	M.Tech
2015	1	BE	CSE	California State University, Fullerton	MS
2015	1	BE	ME	S D M College of Engg. & Technology, Dharwad	M.Tech
2015	1	BE	ME	PES University, Bangalore	MBA
2015	1	BE	ME	Manipal University, Manipal	M.TECH



2015	1	BE	ME	NITK, Surathkal	M.Tech (Research)
2015	1	BE	ME	BMS Institute of Technology & Management, Bangalore	M.TECH.
2015	1	BE	ME	VTU PG Center, Mysore	M.Tech
2015	1	BE	ME	BITM, Ballari	M.Tech
2015	1	BE	ME	RYMEC, Ballari	M.Tech
2015	1	BE	ME	Georgian College, Canada	MS
2015	2	BE	EEE	BITM, Ballari	M.Tech. (PE)

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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
GATE	1
GRE	3
TOFEL	3
Any Other	10

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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
Badminton (M/W)	VTU Gulbarga zone	75

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### 5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2015	Hockey Blue	National	1	0	3BR12EE077	Mr. Rohith L. EEE
2015	Hockey Blue	National	1	0	3BR12EE102	Ms. B. Nikitha EEE
2015	Hockey Blue	National	1	0	3BR12EE107	Ms. Swathi Devi Chauhan

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

The College creates a platform for the active participation of the students in the various academic and administrative bodies including other activities. This empowers the students in gaining leadership qualities, rules, regulations and execution skills. Selection, Constitution, Activities and Funding .. Class representatives will be selected from each section from 1st year to Final year. .. The student representative brings forward the views and suggestions of the entire class with respect to the faculty, subjects, syllabus and other things related to the class. .. The student representatives share ideas and interact with lecturers and principals. .. The student representatives also help to raise funds for activities including Social events, Community projects, helping people in need and college reforms .. Various programs like paper presentations, workshops and Seminars are organized by these bodies every year. The funding for various activities of the internal college bodies is provided by the College Management. Students part of IQAC, Cultural Committee and Hostel Committee.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

BITM Alumni Association Registered BITM Alumni Association is a Registered under the Karnataka Societies Registration Act 21 of 1960, under Registration No. BLY S287/201516, Dated 14.12.2015 and its office is located at BITM Campus. The Aims and Objectives A. To provide a forum for the old students of the College to meet and discuss the matters of common interest. B. To promote the interests of the College and its past and present students. C. To promote goodwill and mutual assistance among the members. D. To contribute to the cause of technical education by sharing the experience of those in the field. E. To help the authorities to improve the academic and cultural activities of the college. F. To cooperate with the students in literary, cultural and sports activities of the college. G. To help the members in employment and service matters without interfering in the policies of their employers. H. To arrange and conduct programmes of general and technical nature. I. To co operate with other such bodies for the same ends. J. To promote other matters beneficial to prospects of the association. K. To extend financial help to economically backward and deserving students in form of scholarship for UG and PG of the institution. L. Any other activities that the general body may decide from time to time.

5.4.2 – No. of enrolled Alumni:

890

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

267000

5.4.4 – Meetings/activities organized by Alumni Association :

3

### 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)

Vision: We will be a Top Notch Educational Institution that Provides best of breed Educational Services by leveraging technology and delivered by best in class People in line with the Globalized world. Mission: To empower the Students with Technical Managerial Skills, professional ethics values, and an appreciation of Human Creativity Innovation for an inquisitive mind. .. Decentralization of Financial powers to the Principal and HODs by the way of Contingency Allowance .. Well structured decentralized organizational chart with specific roles and responsibilities for smooth running of the entire organization structure.

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	Identification of Curriculum gaps and specific courses taught to fulfil the same. Design based experiments and additional labs are conducted beyond the syllabus.
Teaching and Learning	Outcome based education is practiced across the institution with real emphasis on student centric learning by catering to the different learning styles of the students.
Examination and Evaluation	Internal examinations are conducted on the basis of external exams, rules and regulations such as issuing of hall tickets for IA tests, intimation of attendance and IA marks to the parents via SMS. Evaluation is completed within a week and their IA books is given to the students for verification and selfevaluation. The answer key is well debated with the students.
Research and Development	Departments are continuously applying for Research and Development projects through VGST and KCTU. Staff and Students are sponsored from institution for paper publications and presentations. Faculty pursuing Ph.D., have given contingency amount and support for the research work.
Library, ICT and Physical Infrastructure / Instrumentation	State of the Art Library with E Journals and Digital E Learning facilities are augmented for self learning. The college has high speed internet connectivity for access to educational contents. Firewall is augmented for secure and safe access. In our institution 960 and more

	computers are available for all the Staff and Students.
Human Resource Management	Objective base appraisal is carried out in a very systematic manner taking into account related to academics, research, personal development and leadership aspects.
Industry Interaction / Collaboration	College has setup BIRED cell with its office located in Bangalore for industry institute interaction and collaboration.
Admission of Students	Management provided scholarship for poor and meritorious students in management quota. Career counselling was carried out to the students of Ballari and scope and opportunities in Engineering was highlighted.

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

E-governance area	Details
Planning and Development	Proper Budgeting is carried at the beginning of the financial year and the same data and information is maintained on electronic platform. The expenditures are constantly verified against the budget for effective utilisation. Development activities are carried out based on the budget.
Administration	Eduwize ERP Software is used for overall administration and monitoring.
Finance and Accounts	Tally Accounting Software is used for all the accounting purpose. Financial aspects are closely monitored through ebanking facility and all the financial transactions are carried out through digital payments such as NEFT RTGS, Paytm, PhonePe, BHIM, POS Machines and etc.
Student Admission and Support	RoboVidya by RoboSoft Software used to manage the Students information for Admission, Fee payment, communication, transport maintenance and Hostel.
Examination	IA performance and their attendance is communicated through SMS by SMS Gateway software. Student update their profiles in the VTU examination Portal every year. Students after applying for examinations their hall tickets are automatically generated for semester end examinations and the results are also announced on online in VTU portal.

### 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
2015	Dr. Aradhana D	Workshop on Spoken Tutorials Program	VTU, Kalburgi	3878
2015	Mrs. Pratibha Mishra	Workshop on Spoken Tutorials Program	VTU, Kalburgi	3878
2016	Dr. Yadavalli Basavaraj	Third International Conference on Transformations in Engineering Education ICTIEE 2016, Pune	College of Engineering, Pune	10000
2015	Mr. Banakara Nagaraj	workshop on Research Methodologies Latex	VTU, Belagavi	3000
2015	Mr. Manjunatha T H	workshop on Research Methodologies Latex	VTU, Belagavi	1500
2015	Mr. RM Jagadish	NS3 OSICT	BITM, Ballari	1000
2015	Mr. Sudhakar A	NS3 OSICT	BITM, Ballari	1000
2015	Mrs. Anitha Patil	NS3 OSICT	BITM, Ballari	1000
2015	Mr. Hari Krishna	NS3 OSICT	BITM, Ballari	1000
2015	Mr. Kiran M	NS3 OSICT	BITM, Ballari	1000
2015	Mr. T R M Rahman	NS3 OSICT	BITM, Ballari	1000
2015	Mr. Md. Shafiulla	NS3 OSICT	BITM, Ballari	1000
2015	Mr. Azhar Baig	NS3 OSICT	BITM, Ballari	1000
2015	Mr. Naveen G	NS3 OSICT	BITM, Ballari	1000
2015	Ms. Akshatha	NS3 OSICT	BITM, Ballari	1000
2015	Ms. Vidya M	NS3 OSICT	BITM, Ballari	1000
2015	Ms. Nirmala G	NS3 OSICT	BITM, Ballari	1000
2015	Ms. Pooja K	NS3 OSICT	BITM, Ballari	1000
2015	Mr. Sridhar S K	Workshop on Big Data Analysis	NITK, Surathkal	4279

2015	Mr. Usman K	Workshop on Big Data Analysis	NITK, Surathkal	4279
2015	Mr. Dadapeer	Workshop on Big Data Analysis	NITK, Surathkal	4279
2015	Mr. Naveen G	Workshop on Big Data Analysis	NITK, Surathkal	4300
2015	Mr. Sridhar SK	Workshop on Python Programming and Database Concepts	Jain University, Bengaluru	5223
2015	Mr. Naveen G	Workshop on Cloud Computing	BNMIT, Bengaluru	3798
2015	Ms. Pooja Kulkarni	Workshop on Cloud Computing	BNMIT, Bengaluru	5365
2015	Mr. Pavan Kumar B. K	3rd National Conference on Innovations in Mechanical Engineering NCIME 15	Madanapalle Institute of Technology Science, Madanapalle	3200
2015	Mr. Shiva Ramakrishna A	Workshop on Research Methodologies Latex	VTU, Belagavi	3000
2015	Mr. Pooviarasan	Workshop on Automotive Development	HKBK College of Engineering, Bangalore	7467
2015	Mr. Firoz khan	Workshop At Vemana institute of Technology Bengaluru	Vemana Institute of Technology, Bangalore	2659
2015	Abdul Khadar	International symposium Advances in Power Distribution Engineering, Distributed generation, micro grid and renewable integration	NIE, Mysuru	3082
2015	Abdul Khadar	Workshop on Research methodologies and latex	BLDE, Vijayapura	3204
2015	Md Anwar	2nd National Conference on Recent innovations in Engineering	BKIT, Bhalki	4748

		Technology		
2015	Kamal Kishore	TEQIPII sponsored 3rd National conference on emerging technologies in electrical and electronics engineering	Vishnu College of Engineering, Bhimavaram, AP	6769
2015	Santosha B M	International conference Communication Control Instrumentation and computational technologies IC3 ICT 2015	R L Jalappa Institute of Technology, Doddaballapur	6060
2015	Dr. Janet Jyothi Dsouza	13th AIMS International Conference On Management	IIM, Bengaluru	2500
2015	Vindhya.R	Two Days workshop on "PLAGIARISM" on March 4th 5th 2016, at CMR Institute of Technology, Bengaluru	CMR Institute of Technology, Bengaluru.	2100
2015	Annapurna T	Workshop: Research Methodology	CITE, Bangalore	4654
2015	Dr. Pralahad Mahagaonkar	Conference : International Conference on Mathematical Modelling	Don Bosco Engineering College ,Bangalore	2000
2015	Dr. Rohitha U M	Winter school on scientific computing using open source software for signal, image processing and soft computing applications.	MSRIT Bengaluru	3064
2015	Mr. Prabhakar. K	Winter school on scientific computing using open source software for signal, image processing and	MSRIT Bengaluru	3064

		soft computing applications.		
2015	Mr. Hemantha Kumar R	Winter school on scientific computing using open source software for signal, image processing and soft computing applications.	MSRIT Bengaluru	3064
2015	Mr. H. Shivabasavaraj	Winter school on scientific computing using open source software for signal, image processing and soft computing applications.	MSRIT Bengaluru	3064
2015	Mrs. Shilpa K.R	Workshop on Basic Electronics	Sambhram Institute of technology Bangalore	2236
2015	Ms. Koushalya.S	Workshop on Basic Electronics	Sambhram Institute of technology Bangalore	2236
2015	Ms. Sowbhagya	Workshop on Basic Electronics	Sambhram Institute of technology Bangalore	2236
2015	Mr. Abdul Lateef Haroon	IEEE International conference on emerging research in electronics, computer science and technology ICERECT 2015	PES College of Engineering Mandya	4750
2015	Mr. Pramod Mutalik	Workshop on Research Methodology	BLDEA,S Dr PGH College of Engineering , Vijayapura	3000
2015	Mr. Naseeruddin	Workshop on Wipro Mission 10X	Bangalore	418
2015	Mr. Mallikarjuna. A	Workshop on Research Methodology	BLDEA,S Dr PGH College of Engineering , Vijayapura	3500



2015	Mr. Prabhakar. K	Workshop on Advanced Comprehensive learning using MATLAB Simulink	RYMEC Ballari	500
2015	Mr. William Thomas H.M	Workshop on Basic Electronics	Sambhram Institute of technology Bangalore	1160
2015	Mr. William Thomas H.M	IEEE International conference on computational intelligence computing research	Madurai	4045
2015	Mr. William Thomas H.M	Workshop on Advanced Comprehensive learning using MATLAB Simulink	RYMEC Ballari	500
2015	Mr. William Thomas H.M	International conference on applied theoretical computing and communication technology	BIT, Davanagere	4750
2015	Mr. William Thomas H.M	MatLab workshop	Bengaluru	640
2015	Dr. RN Kulkarni	Workshop on Plagiarism	VTU, Mysore	4037
2015	Mr. Girish Kumar	Workshop on Plagiarism	VTU, Mysore	2870
2015	Dr. RN Kulkarni	Workshop on IBM Cloud Computing	VTU, Belagavi	6892
2015	Dr. RV Biradar	Workshop on IUCEE Project Management Course	Online Session, Boston University, USA	4500
2015	Mr. Phani Ram Prasad	Workshop on Software Engineering	NIT, Warangal	6600
2015	Mr. CK Sreenivas	Workshop on Software Engineering	NIT, Warangal	6600
2015	Mr. Sridhar SK	Workshop on Real Time Wireless Sensor Networks and IoT	GSSSIET, Mysore	2297
2015	Ms. Pooja	Workshop on	GSSSIET, Mysore	2050

	Kulkarni	Real Time Wireless Sensor Networks and IoT		
2015	Ms. Nirmala G	Workshop on Real Time Wireless Sensor Networks and IoT	GSSSIET, Mysore	2150
2015	Ms. Akshata	Workshop on Real Time Wireless Sensor Networks and IoT	GSSSIET, Mysore	2150
2015	Dr. RN Kulkarni	Journals Editorial Roundtable organized by Taylor Francis	Bengaluru	1755
2015	Mr. Venkateshwar A	NS3 OSICT	BITM, Ballari	1000
<a href="#">View File</a>				

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)
2016	Workshop: Emerging Trends in Basic Science and Technology	NIL	09/01/2016	09/01/2016	3	0
2016	6 Days FDP on Analysis of Real Time Engineering Problems using ANSYS Software	NIL	18/01/2016	23/01/2016	30	0
2016	Computer aided electrical drawing and control	NIL	21/01/2016	26/01/2016	29	0

	systems					
2016	Project Development Methodology Technical Paper Writing	NIL	13/02/2016	16/02/2016	1	0
2016	NS3 OSICT	NIL	24/02/2016	26/02/2016	14	0
2016	Workshop on Advanced VLSI Design using Cadence Tool Suite	NIL	27/06/2016	27/06/2016	25	0
<a href="#">View File</a>						

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
IUCEE Project Management Course	1	01/10/2015	01/01/2016	120
Software Engineering	2	28/12/2015	08/01/2016	12
Real Time Wireless Sensor Networks and IoT	4	27/01/2016	28/01/2016	2
Project Development Methodology Technical Paper Writing	1	13/02/2016	16/02/2016	4
Journals Editorial Roundtable organized by Taylor Francis	1	08/03/2016	08/03/2016	1
NS3 OSICT	14	24/02/2016	26/02/2016	3
Big Data Analysis	4	01/04/2016	02/04/2016	2
Python Programming and Database Concepts	1	20/06/2016	25/06/2016	6
Process quality	26	20/05/2016	23/05/2016	3

through optimization techniques waste utilization in steel manufacturing				
Fluid dynamics in Chemical and Mechanical Engineering	1	27/06/2016	02/07/2016	5
Computer aided engineering analysis	1	04/01/2016	08/01/2016	5
Design aspects of fatigue and fracture in structures	3	18/01/2016	23/01/2016	6
Computerized Heat Mass Transfer Laboratory	1	14/12/2015	18/12/2015	5
Computer aided electrical drawing and control systems	29	21/01/2016	26/01/2016	5
Workshop on Advanced Comprehensive learning using MATLAB SIMuLINK	1	24/08/2015	26/08/2015	3
One day WORKSHOP on BASIC ELECTRONICS	3	07/11/2015	07/11/2015	1
One Week Workshop on Use of SCILAB and other Open Source Resource for Engineering Application	4	07/12/2015	11/12/2015	7
Six days Faculty development program on Computer Aided Electrical Drawing control System	5	21/01/2016	26/01/2016	6
Six days Workshop on ADVANCED VLSI DESIGN USING	9	27/01/2016	20/05/2016	6

CANDENCE TOOL				
Task Based Training (TBT2016)	2	12/02/2016	13/02/2016	2
Two day Workshop on INTRODUCTION TO ROBOTICS	3	12/02/2016	13/02/2016	2
One day Workshop on In Pursuit Of Excellence in Engineering Education Through Innovation	1	17/03/2016	17/03/2016	1
Three Days Workshop on NS3 open source ICT 2016	4	24/03/2016	26/03/2016	3
Intercultural Communication in Global Virtual Environments	1	16/05/2016	20/05/2016	6
Optimization For Innovation in Research And Practice	1	27/06/2016	08/07/2016	12
Plagiarism	2	16/10/2015	17/10/2015	2
IBM Cloud Computing	2	12/12/2015	12/12/2015	1
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
6	6	30	30

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
PF, Group Gratuity, ESI, CL 15 days pa, EL 30 days nonvacation, 10 days' vacation staff, Group Gratuity Scheme, Accidental Insurance, Transport, for Ph.D., Research Contingency, WS Conferences, value added training programmes, Salary Advance facility.	PF, Group gratuity, ESI, CL 15 days pa, Group Gratuity Scheme, Accidental Insurance, Transport Facility, Salary Advance facility.	Accidental Insurance Scheme, Deputing students to Workshops, Conferences, Value Added Training Programmes, in House training Programs, Sports, NSS, Tech Fest, Youth fest activities, Transport facility for Industry Tours, Off Campus interviews, etc.

Awareness Regarding Govt. facilities Scholarship, Loan to minorities, etc. Career Guidance to improve the student's employability.

#### 6.4 – Financial Management and Resource Mobilization

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

• Experienced and efficient personnel conduct internal audit regularly. • External audits are done by Proficient financial auditors • In the Audits, Experts verify all transactions. • There were no major observations noticed and the reports of the same are available.

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

0

#### 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	Intertek Agency	Yes	ISO Coordinator
Administrative	Yes	Intertek Agency		ISO Coordinator

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

> The management arranges for a parent teachers meet once in a semester during a weekend. The parents are invited by faculty of all the departments. > Student s academic performance, university results, attendance and other related issues are discussed. > At the inaugural function of UG and PG, the parents are invited and academic expectations are informed to the parents. > The parents are informed with respect to rules and regulations, scholarships, value added courses provided by the institution from time to time. > Parents are part of IQAC and Grievance Cells.

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

> Orientation programme > Computer and skillbased training > Improvement programme

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

> Continuous assessments of POs and PSOs based on the results of every student in internal and external examinations. > Recruitment of faculty with higher qualification Ph.D > Arrangement of National and International Conferences and FDP for the teaching faculty.

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
2015	One Day workshop on Flexible Manufacturing System	19/10/2015	19/10/2015	19/10/2015	60
2015	Graphical system design using Labview	27/10/2015	27/10/2015	27/10/2015	60
2016	Two Days workshops on Advanced Technologies in Automotives for 8th Semester students	06/05/2016	06/05/2016	07/05/2016	50
2016	Career Guidance program for Mechanical students by Mr. Swaroop, Jr. Manager, JSW, Toranagallu	16/05/2016	16/05/2016	16/05/2016	110
2016	Cadence Tools on CIC/ASIC Flow	27/01/2016	27/01/2016	27/01/2016	60

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**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**

**7.1 – Institutional Values and Social Responsibilities**

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Talk on Great Woman Politician – Smt. Sushma Swaraj	21/11/2015	21/11/2015	20	0

Awareness Programme on Child Marriage	05/12/2015	05/12/2015	10	0
World Aids Awareness Programme	01/12/2015	01/12/2015	74	120
Celebrated International Women's Day	08/03/2016	08/03/2016	300	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
02

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	Yes	0
Scribes for examination	Yes	2
Special skill development for differently abled students	No	0
Any other similar facility	No	0

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
2015	3	3	30/10/2015	1	Engineering as a Career	Scopes and opportunities in Engineering	234
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
SERVICE RULES, POLICIES, PROCEDURES and EMPLOYEE HANDBOOK (REVISED JUNE 2014)	01/07/2015	Service Rules Policies and procedures is clearly defined and the same is circulated to all the



staff. The details are available in the following link: <https://www.bitm.edu.in/studentcodeofethics>.

Student Code of Ethics

08/08/2015

Every student is expected to represent him or herself honestly and respectfully in all situations. Students are expected to maintain the highest standards of academic integrity. Students are expected to adhere to the rules and regulations set at/by the National / State / District / College. Students are prohibited in using mobile phones in the class and during any other academic activity. Students should compulsorily wear College ID Card and should be visible. Students shall be guaranteed that their Freedom of Speech will be observed by all college members. Students must behave respectfully toward their peers, teaching and nonteaching Staff.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Induction Program for First year B.E. Students	07/08/2015	08/08/2015	790
Introduction to General Aptitude	09/08/2015	09/08/2015	790
Lecture by HOD on Honesty, Integrity and Patriotism	10/08/2015	10/08/2015	790
Awareness on Anti Ragging and Prevention of Sexual Harassment on Women	12/08/2015	12/08/2015	790
Induction program for PG students and Awareness on Plagiarism	30/10/2015	30/10/2015	130

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

Rain Water Harvesting System. Waste segregation. LED Lightings. Exclusively Swaach Bharath Waste Collection Van was procured for waste disposal in scientific manner.

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

I. Title of the Practice: To enhance research potential of faculty members. The Practice: The Institution -Industry interaction cell has been established. The institution encourages the faculty members to publish the research papers, attending national/ International conferences and to carry out consultancy work. The faculty members are encouraged by providing the cash incentive to those who publish research articles in national/ International journals. They were sponsored to attend the national/ International conferences in India/Abroad. The cash incentives are provided to those faculty members who are doing the consultancy work based on the amount and nature of work. As many as 03 MoUs have been signed between the institution and various industries to carry out the research and consultancy activities. MoUs are also signed between foreign Universities also to expose the faculty members to the current research areas. II. Title of the Practice: Monitoring the Incremental Academic growth of the students Goal: To identify the academically weak students and assess the reasons for their poor performance. These weaknesses should be studied and proper remedial action is to be taken to address these problems. The counsellors have to monitor the academic progress of the students identify their area of weakness like analytical, theoretical, practical etc., and after discussions and deliberations decide on the remedial measure that is to be adopted. It is not necessary that the reason for the problem is with the students or their academic background. In some cases it may even be due to the social background, economic background etc., in such cases personal counselling has to be done to ensure that they overcome the difficulty. The Context: The state of Karnataka being a state depending on agriculture as its main source of income, many of the students hail from a rural background. Quite a few of them have completed up to their higher secondary education in Telugu medium and find it difficult to adapt to the English medium of instruction. Added to that is their fear of city culture, imbalance in academic background of peers, hesitation in asking for guidance or help in studies or personal counselling etc., These students when not given the helping hand, tend to drop back in their academic grades and eventually there is the chance of even dropping out of the course. So the management of BITM decided to address these issues by formulating a personal mentor system so that such students get the required guidance from the staffs and also the system of peer to peer helping in the hostels also provided them the necessary moral and emotional support that they needed most. The Practice: The continuous academic monitoring system helps the faculty in recording the academic progress of each and every student. Also the mentoring system adopted, where in every faculty is in charge of 1520 students and acts as a mentor for those students, so that they can approach their respective faculty in case of any academic / personal help. This personal mentoring system helps the faculty in identifying the academically weak students. Those students are called for personal counselling and the mentor tries to understand the nature of the problem faced by these students. On analysis it has been found that the reason for the poor performance of these students is of two types. One may be due to their academic background and the other may be due to their economic and social background. While analysing the academic reasons it has been found that Students who have completed their schooling in Telugu medium find it difficult to understand the technical concepts which are taught in English. This problem when left unaddressed leads to lack of interest in the subject, which reflects on their end semester

results and in worst cases may even lead to drop outs. Such students who have not been able to have their schooling in English medium are given special coaching in English. These English coaching classes are conducted after class hours. This is supplemented by peer to peer teaching where in hostels, a separate study hour is allotted during which the students are encouraged in group studies. This concept helps in not only creating a better rapport among the students but also helps them in understanding the concepts well because they may find it easy in asking the help of their friends in studies.

Incidentally the students predominantly are from weaker and disadvantaged section of the society. The financial constraints faced by the students also have its effect on their academic performance. When the mentors come to know of such difficulties they suggest the students about the external financial options that are available like, bank loans, Government scholarships etc., In a few cases the Management also sponsors the education of such students through scholarships and freeships. The performance of the students in the class is recorded semester wise in the department and as stated, the faculty members care for the academically weak students by way of personal counselling and mentoring. When identified at the beginning of the course and in some cases even before that (with the help of analysis of their performance in higher secondary examinations and class room interaction during the bridge courses), it becomes easier to bring them to the main stream and instil a sense of confidence in them so that they can perform well in their subsequent semester examinations. Evidence of Success: Provide evidence of success such as performance against targets and benchmarks and review results. What do these results indicate? Describe in about 200 words. The practice of monitoring the incremental academic growth of the students has been adopted by BITM for the last six years. Every year at the beginning of the academic year the students are counselled by the faculty and the HOD also addresses them. It has been noted that the academic performance of students has always been on the rise and the result analysis done every semester is a proof of it. The result analysis not only give the data about the performance of the students during the semester exams, but also on analysis the faculty will be able to judge whether a particular student is good in analytical or theory subjects, what kind of remedial measure is needed to solve his problem etc., Every semester the faculty is encouraged to achieve 100 results in their respective subjects. However, as it is not practically possible to achieve the same, the management ensures that the motivation factor is not lacking in the faculty, by means of cash rewards and certificates of appreciation to staff members who secure maximum results in their subjects. The management has clearly understood that the process of achieving good academic results is not only in the hands of the students and faculty, but also the backing of the management plays a major role in achieving the same. In this context the management provides additional help in the form of incentives to better performing staffs, refreshments to faculty who engage in extra coaching classes, milk and tea to hostel students during the study hours, power back up for the hostels and the college during the coaching classes etc., The review of the results has shown that the students have performed better as the course progresses and there has been an incremental academic growth in their performance. Problems Encountered and Resources Required: Please identify the problems encountered and resources (Financial, Human and other) required to implement the practice. The monitoring of the incremental academic growth of the students is a success story of BITM and all the other institutions of our group are now following our footsteps in implementing this system. However as every success story has a turbulent phase, so also this system when implemented had its own share of problems like > Non cooperation from the students in accepting the study hours at the hostel > Hesitation on the part of the rural students to mingle with their city counterparts. > Faculties finding it difficult in staying back after college working hours. > Transportation problems for the faculty and day scholar

students. These problems were overcome by the management by adopting various measures like > Counselling the students and making them understand the importance of overcoming the demon inside them that prevented them from accepting the additional study hours at the hostel. > Personality development sessions for the rural students. > Motivating the faculty by financial rewards and certificates of appreciation. > Providing free transport to faculty and day scholars who stay back after college working hours.

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

<http://www.bitm.edu.in>

### 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

Proctorship Resulting in Good Academic Results: Conscious effort was made by the management in consultation with all the stake holders that mentoring / proctoring to be done in a focused manner. Decision was taken to allocate 15 students for one faculty member and closely monitor students' academic progress, extracurricular activities and participation in various external competition. Each student was provided with a proctoring book to log student's information along with academic details. Each faculty would counsel every student at least 3 times in a semester and log student's progress. The absentees for a particular period was logged in the absentees list and any deviations observed by the Head of the Department was immediately addressed w.r.t. student absenteeism. The proctors constantly spoke with the student's parents and kept updating about their ward progress. This action and followup resulted in students showing keen interest in academic and extracurricular activities. High performing students were encouraged to participate in various competitions, organize departmental events under their department forums and department professional society. Remedial classes were taken for the academically weak students and this resulted in higher progression of students to higher semester. Overall the proctoring system has improved the academic standards in terms of results which increased by 6.2, students participation in technical events, placements and in extracurricular activities.

Provide the weblink of the institution

<http://www.bitm.edu.in>

### 8.Future Plans of Actions for Next Academic Year

> To conduct more national / international seminars / workshops. > Energize the activities of all the clubs and forums in the college. > To achieve high standards in Research and Development. > Collaboration with institution and industries to be strengthened. > Apply for patents.