



BMS COLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous College under VTU)
The Annual Quality Assurance Report (AQAR) of the IQAC
2013-14

Part – A

I. Details of the Institution

1.1 Name of the Institution	BMS College of Engineering
1.2 Address Line 1	PO Box No.1908, Bull Temple Road
Address Line 2	Basavanagudi
City/Town	Bangalore
State	Karnataka
Pin Code	560 019
Institution e-mail address	principal@bmsce.ac.in
Contact Nos.	(080) 26622130-135, (080) 26676641
Name of the Head of the Institution:	Dr.K.Mallikharjuna Babu
Tel. No. with STD Code:	(080) 22427424



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Mobile:

9886021095

Name of the IQAC Co-ordinator:

Dr.K.R.Suresh, Professor of Civil Engineering, BMSCE

Mobile:

9483512589

IQAC e-mail address:

iqac@bmsce.ac.in

1.3 NAAC Track ID (For ex. MHC0GN 18879)

BMSCE 14606

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- bottom
of your institution's Accreditation Certificate)

EC/62/A&A/124 dated 05.01.2013

1.5 Website address:

www.bmsce.ac.in

Web-link of the AQAR:

www.bmsce.in/IQAC/AQAR 2013-14.doc

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



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1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	A	3.41	2013	Upto January 04, 2018

1.7 Date of Establishment of IQAC : DD/MM/YYYY

March 2014

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

2013-14

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

This being the first AQAR after NAAC accreditation, this question is 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 AICTE No

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

Type of Institution Co-education Men Women

Urban Rural Tribal



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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)

Master of Computer Application & Master of Business Administration

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

Visvesvaraya Technological University
 Belgaum 590014

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

Autonomy by State/Central Govt. / University

Yes

DST

✓

UGC-CE

-

CSIR – Senior Research Fellowship to PhD Scholar perusing research in the Research Centre of Bio-Technology Department.

DST Grants	-	Towards Research Projects
DBT Grants	-	Towards PG Stipend (GATE)
DTE	-	Salary Grants
VGST	-	Research Projects
VTU	-	Research Projects
AICTE	-	Research Grants
TEQIP	-	Grants (World Bank Funded Project)



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2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="14"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="-"/>
2.3 No. of students	<input type="text" value="-"/>
2.4 No. of Management representatives	<input type="text" value="1"/>
2.5 No. of Alumni	<input type="text" value="1"/>
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="1"/>
2.8 No. of other External Experts	<input type="text" value="-"/>
2.9 Total No. of members	<input type="text" value="18"/>
2.10 No. of IQAC meetings held	03
2.11 No. of meetings with various stakeholders:	No. <input type="text" value="-"/> Faculty <input type="text" value="4"/>
Non-Teaching Staff Students	<input type="text" value="2"/> Alumni <input type="text" value="-"/> Others <input type="text" value="-"/>
2.12 Has IQAC received any funding from UGC during the year?	Yes <input type="text" value="-"/> No <input type="text" value="√"/>
If yes, mention the amount	<input type="text" value="NA"/>



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2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized

Total Nos.	135	International	02	National	40	State	12	Institution Level	81
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(ii) Themes

Mechanical	Nano Technology, MEMS, Hydraulic & Pneumatics, Air & Space Technology, Gas Turbine Technology
Ind Engg	Lean Six Sigma, Japanese Management Technique, SAP Design.
Architecture	Architectural Design and Practice
Telecomm	Telecommunication Engineering & Engineering Education
Info.Sc	Broad areas of Information Science & Engineering
Medical	Signal Processing, Image Processing & Instrumentation etc
Electronics	
Chemical	Energy & Water
MAT	Bio-Statistics, Applied Mathematics, Bio-Modelling
MCA	DBMS/Software Engineering / Signal Processing / Computer Programming
Bio-Tech	Bio-Statistics & Modelling, Cloning & Hybridization, Fluid Mechanics etc

2.14 Significant Activities and contributions made by IQAC

1. The Preliminary Meeting of the IQAC was held on 28.02.2014 wherein the composition of the IQAC was finalised.
2. Communication dated 16.04.2014 was sent to the Director, NAAC regarding creation of IQAC.
3. The first meeting of the IQAC was held on 23.04.2014.
4. Conducted Orientation programmes for Non-Teaching Staff Members

The following important decisions were taken:

- a) Re-visit the Annual Faculty Performance Review process and self-evaluation by faculty with a view to meaningfully assesses the faculty productivity
- b) Organization of workshops, seminars on quality related themes and promotion of quality circles
- c) Create a Research Forum with a view to provide platform to the researchers to share and show-case their research and to network with others
- d) Conducting orientation programmes for non-teaching staff on academic and administrative parameters.



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2.15 Plan of Action and outcome

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

Plan of Action	Achievements
Language laboratory for use by all the departments needs to be established. The students should be provided intensive courses in communication skills in English and basic proficiency in local language as well.	The Full-fledged Language Laboratory has since been established. The Lab is augmented with 80 new systems and relevant softwares like Q-English and Marks Plus. Q-English is used for giving additional training in English for the students and Marks Plus is used for conducting Assessment. So far nearly 350 students have benefitted from the Q-English Training.
There is a need for senior faculty to encourage groom up younger faculty	The Institution constituted an Internal Academic Audit Committee comprising of senior faculty members. The Committee interacts with young faculty twice in a semester and provide orientation.
Budget planning needs improvement so that the budget utilization matches with budget allocation.	The Management has constituted Finance Committee which makes detailed assessment of the budget utilization on regular basis. The Finance Committee reviews the actual results with their budgets.
E-governance be implemented in all the administrative and academic activities by implementing the professional ERP System.	E-governance cell was established during March 2013. <ul style="list-style-type: none">▪ Student's admission process is completely online.▪ Fee payment through online via Credit Card, Debit Card, Internet Banking or Wire Transfer along with cash and DD.▪ The students can view their CIE & SEE and attendance status online▪ Notifications of academic activities to students/parents online.▪ Online registrations for Institutional Electives of 7th and 8th semester students.▪ The e-Governance for the examination is underdevelopment



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Plan of Action	Achievements
Introduce New PG Programs (M.Tech.)	The AICTE has accorded approval to commence the following PG (M.Tech) Programmes from the academic year 2014-15 with an annual intake of 24 a) VLSI Design & Embedded Systems (EC) b) Manufacturing Science & Engineering (ME)
To create Centers of Excellence In selected areas preferably one in each Cluster	A grant of Rupees Five Crores has been granted under TEQIP towards establishing Center of Excellence in Advanced Materials Research.
Establish collaborative laboratories with the support of industry	A Research Park with one crore funding with matching grant from industry in Wireless Communication has been sanctioned by AICTE.
Enhance the intake of UG Programmes	The AICTE has approved the following variation of Intake for the academic year 2014-15 a) Architecture (B.Arch) from 80 to 120 b) Mechanical Engg (B.E.) from 120 to 180 It may also be noted that the AICTE accorded approval for variation of Intake for UG Programme of Civil Engineering from 50 to 120 during 2013-14 .
Get academic autonomy for PG programmes	The application seeking conferment of academic autonomy to eligible PG Programmes [along with scheme and syllabus] for the period from 2014-15 to 2019-20 has been submitted to VTU on 13.05.2014 for onward transmission to UGC for consideration and approval.



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Plan of Action	Achievements
Further strengthen the campus Facility / Support System	The Institution is augmented with a) Equipments for teaching, learning and research, worth 129 Lakhs were created/augmented. b) New construction works were undertaken during the previous year. New classrooms, laboratories, Studios, faculty rooms etc were created. c) Library is augmented with 5765 book worth 16.79 Lakhs, reference books worth 5.08 lakhs and 26 Journals worth 0.59 Lakhs. 9500 E-journals worth 34.81 Lakhs have been procured. d) Wide range of sports facilities worth 26 lakhs has been added. Details are provided at 6.3.5

2.15 Whether the AQAR was placed in statutory body Yes

Management

Syndicate

Any other body



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Part – B

CRITERION – I

I. 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
UG	13	-	08	-
PG	12	04	09	02
PhD	15	01	-	01
Others	-	-	-	02
Total	40	05	17	02
Interdisciplinary	-	-	-	02
Innovative	-	-	-	02

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options
(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	√
Trimester	-
Annual	-

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

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



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

The Institution is contemplating framing /revision of curriculum from the Academic Year 2014-15 onwards. The following are some of the important guidelines adopted in this regard.

- a) The syllabus bench-marked with that of the syllabi offered by the premier institutions in the country (NIT, IIT, IISc etc.,).
- b) While framing practical sessions, the experiments designed as Open Ended Experiments wherever applicable.
- c) The syllabi shall be in-line with Outcome Base Education (OBE); mapping Programme Outcomes (POs) and Course Outcomes (COs)

Important changes proposed in the First semester curriculum are listed below.

- a) Two labs titled as Co lab-1 and Co Lab-2, each of 1 credit with a view to provide practical exposure to students and enhance their overall knowledge and skills in core engineering disciplines.
- b) A subject "Biology for Engineers" is being introduced as a One Credit Course. This course is aimed for enabling the engineers to apply the principles of biology to engineering technology.

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

New Post Graduate Programmes		
SNO	Programme	Year of Starting
1	Bio-Chemical Engineering [CH]	2013
2	Bio-Medical Signal Processing & Intn	2013
3	Manufacturing Science & Engineering	2014
4	VLSI & Embedded Systems	2014

Recognized as Research Centre		
SNO	Programme	Year of Starting
1	Telecommunication Engineering	2014



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Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Faculty Strength			Total	Qualification			Total
Prof	Asso Prof	Asst Prof		BE	Master	Ph.D.	
56	85	190	331	5	210	116	331

2.2 No. of permanent faculty with Ph.D.

115

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

Asst. Professors		Associate Professors		Professor s		Others		Total	
R	V	R	V	R	V	R	V	R	V
32	-	05	-	02	-	02	-	54	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

17 46 03

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	44	54	29
Presented papers	172	57	01
Resource Persons	02	30	16

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

MAJOR INITIATIVES

- Introduced need based curriculum
- Academic flexibility by way of providing choice of courses and credits
- Cluster Concept
- Three tier elective system-Department, Cluster & Institutional level
- Interdepartmental Student Project works
- Integrated Courses



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- g) Mini Projects
- h) Continuous Internal Evaluation – Quizzes, Tests
- i) Established laboratories in Collaboration with industry
- j) Fast track/supplementary semester for slow learners
- k) In-house management funding for research projects (both faculty and students)
- l) Established Entrepreneur Development Cell
- m) Online courses in collaboration with IITs as additional learning for students/faculty
- n) Value-add courses during Fast Track semester
- o) Propel Labs
- p) Blended Learning (QEEE)
- q) Blended MOOCs
- r) Beta Partner
- s) IITM-E Yantra
- t) Enhanced Industrial Visits
- u) Project Exhibition – Best Project Awards
- v) Research & Innovation Centre for promotion of Research
- w) Placement - Training Modules/Soft Skills

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

180 Days

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, multiple choice questions in specific courses, Review / moderation, double valuation, Photocopying, Challenge Valuation etc., are already being practiced. In addition to this, depending on the need of specific courses, seminars, mini projects and self-learning components are being introduced as a part of teaching / learning/ evaluations reforms.

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

0	6	0
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2.10 Average percentage of attendance of students

85%



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2.11 Course/Programme wise distribution of pass percentage :

Under Graduate - Final Year Total PASS %
FOR THE ACADEMIC YEAR 2012-13 (2009 BATCH)

SNO	Branch	No. of Students	FCD	FC	SC	Eligible For Convocation 2013-14	Pass %
1	CV	57	48	1	-	49	85.96
2	ME	143	110	14	1	125	87.41
3	EE	70	60	2	-	62	88.57
4	EC	133	128	-	-	128	96.24
5	TC	64	58	2	-	60	93.75
6	IT	27	24	1	-	25	92.59
7	ML	27	22	2	-	24	88.89
8	CS	103	98	1	-	99	96.12
9	IS	95	90	5	-	95	100.00
10	IM	61	54	5	-	59	96.72
11	CH	52	51	1	-	52	100.00
12	BT	32	23	4	-	27	84.38
13	AT	54	30	24	-	54	100.00

Post Graduate - June-July 2013

SNO	Programme	Total			FCD	First Class	Second Class
		Appeared	Passed	Pass %			
1	Construction Technology	17	13	76.47	13	0	0
2	Machine Design [ME]	16	12	75.00	11	1	0
3	Electronics [EC]	15	15	100.00	15	0	0
4	Power Electronics [EE]	17	12	70.59	12	0	0
5	Computer Science [CSE]	16	16	100.00	16	0	0
6	Digital Communication [EC]	14	14	100.00	14	0	0
7	Environmental Engg [CV]	18	12	66.67	12	0	0
8	Transportation Engg [CV]	17	10	58.82	10	0	0
9	Computer Network Engg [IS]	17	17	100.00	17	0	0
10	Habitat Design (M.Arch.)	3	3	100.00	1	2	0
11	MCA	53	52	98.11	52	0	0
12	MBA	115	90	78.26	16	69	5
Total		318	266	84%	189	72	5



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LIST OF UNIVERSITY RANK HOLDERS
VTU 13TH ANNUAL CONVOCATION APRIL-2014

SNO	Branch	Name of the Candidate	%	Rank
1	M.Tech Construction Technology	Chetana K.R.	84.29	1
2	M.Tech Environmental Engg.	Arpitha D.N.	87.04	1
3	M.Tech Transportation Engg.	Chethana R	87.92	1
4	M Tech. Electronics	Surendra Nandyala	84.33	1
5	M.Tech Machine Design	Manasa M.V.	86.46	1
6	M.Tech Environmental Engg.	Kalpana K	86.54	2
7	M.Tech Power Electronics	Savitha G	85.21	2
8	M.Tech Machine Design	Tripti Pachori	83.58	2
9	M.Tech Construction Technology	Priya B.P.	83.21	3
10	M.Tech Environmental Engg	Deepika B.V.	86.46	3
11	M.Tech Transportation Engg.	Suman D.M.	83.21	3
12	M Tech Digital Communication	Bhagat Dinesh Keshavlal	80.13	3
13	M Tech. Electronics	Asha Nair S	83.75	3

It may be noted that graduates were consistently getting ranks in the University Examinations. Abstract (details) of Gold Medals/Ranks (both UG & PG) secured during the past 03 years are provided hereunder:

Academic Year	Convocation	Undergraduate		Postgraduate		Total
		Gold Medals	Rank Holders	Gold Medals	Rank Holders	
2009-10 [Mar 2011)	10th	3	21	7	9	40
2010-11 (April 2012)	11th	2	20	2	8	32
2011-12* (Mar 2013)	12th	Autonomous		6	7	16

*it may be noted that during 2011-12 all the UG programmes were under Autonomous Stream.



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

Since its inception, the IQAC has been conducting the following activities:

- a) Academic Audit of the Departments
- b) Conducted workshop series on bloom's taxonomy to newly appointed faculty members.
- c) Review of the Self-Appraisal submitted by Faculty / Non-Teaching Staff Members
- d) Monitor the conduct of Internal Assessment
- e) Monitor all curricular activities conducted by various Departments/Committees
- f) Conducted Orientation programmes for Non-Teaching Staff Members

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty Attended
Refresher courses	36
UGC – Faculty Improvement Programme	53
HRD programmes	31
Orientation programmes	67
Faculty exchange Programme	00
Staff training conducted by the university	156
Staff training conducted by other institutions	75
Summer / Winter schools, Workshops, etc.	253
Others	17

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	156	-	24	-
Technical Staff	135	-	16	-



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CRITERION – III

3. Research, Consultancy and Extension

3.1 Initiatives in Sensitizing/Promoting Research Climate in the institution

The following are some of the faculty development initiatives for promoting R&D.

- a) Deputation of faculty to participate in workshops, seminars, and conferences
- b) Financial Assistance to faculty for presenting technical papers in National/International Conferences/Seminars
- c) Experts from Industries, Research Organizations and academic Institutions are invited to deliver lectures as resource persons
- d) To enable faculty members to pursue their doctoral studies under QIP study leave for full salary is being permitted.
- e) Reimbursement of fees paid for pursuing Ph.D
- f) Two additional increments for acquiring M.Tech./Ph.D as per AICTE rules
- g) Providing cash incentives for research publications in the referred international/national journals etc.
- h) In addition to applying and receiving Government funded projects, the Management has been sanctioning research grants to encourage faculty to carryout research activities.
- i) Each faculty is provided one Desk Top Computer to facilitate their teaching and research work.
- j) The faculty members are encouraged to apply for research projects of various funding agencies.
- k) Following Incentive scheme to enthuse faculty to take up research endeavors.
 1. Annual book allowance of Rs.2000/- Per faculty member.
 2. 100% Annual Membership Fee in respect of any Indian Professional Body in the respective domain of the faculty member.
 3. 75% of the Annual Membership Fee in respect of any Foreign Professional Body in their respective domain of the faculty member.

Incentive For Promoting Faculty Research And Fetching External Grants

The BOG in its meeting held on 07.04.2014 approved the proposal to enhance incentive to faculty getting external grants from 3% to 5% of the total financial amount received from external funding agencies



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Incentive for research publication in refereed journal

The BOG in its Meeting held on 07.04.2014 approved the following revision/modification towards cash incentive for research publication by faculty in refereed journals (Non-Paid and having impact factor of 0.5 and above)

SNO	Impact Factor (Range)	Incentive
1	0.5 to 1.0	Rs.10,000
2	1.0 & above	Rs.15,000

NEW FACILITIES

The following laboratories established to foster creativity & Innovation

- a) Propel Lab 1 – Robotics [May2014]
- b) Propel Lab 2 – 3D Printer [June 2014]
- c) New R&D Lab in the Department of Computer Science [Jan 2014]
- d) New R&D Labs in the Department of Electronics & Communication [May 2014]

Facilities

- a) Equipment worth Rs.126 Lakhs procured [TEQIP]
- b) Learning Resources & Software worth 129 Lakhs Procured [TEQIP]
- c) Internet Bandwidth enhanced from 80 Mbps to 155 Mbps
- d) Additional Space created with the construction of floors on MCA & Mechanical Engineering Blocks.

Others

- a) Creation of Innovation Centre
- b) Increased number of linkages in the form of MOUs
- c) Felicitating the performing Teachers
- d) Industrial and Site Visits
- e) Workshops by alumni on current trends and technology
- f) CII TDB T NET Centre facilitates the consultancy activities. The consultancy amount is shared on 60:40 basis. The consultant gets 60% and the College 40%.
- g) The Institution has been continuously putting number of supporting measures like providing patent filing fees, assistance in filing process etc to increase the number of patents.
- h) Best student projects identified and awarded on the occasion of Engineers Day



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3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	16	22	6	3
Outlay in Rs. Lakhs	33.67	799.10	126.25	36.00

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	14	1	1	0
Outlay in Rs. Lakhs	1.003	5	2	0

3.4 Details on research publications

	International	National	Others
Peer Review Journals	106	08	-
Non-Peer Review Journals	09	-	-
e-Journals	-	03	-
Conference proceedings	134	26	-

3.5 Details on Impact factor of publications:

Details of faculty publications with impact factor 2013-14 is provided in **Annexure I**.

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

Details of On-Going Projects [External] – Sanctioned is provided hereunder:

SNO	Period	Number of External Projects	Amount in Lakhs
1	2013-14	10	678.43
2	2011-12	09	83.55
3	2010-11	03	53.94
Total		22	815.92

Details of ongoing (external) projects is provided in **Annexure II**



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

ii) Without ISBN No.

3.8 No. of funds from

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

For the year 2012-13, an amount of Rs.63.05 Lakhs were generated through consultancy.
For the year 2013-14, an amount of Rs.46.93 Lakhs were generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	03	11	1	-	-
Sponsoring agencies	BMSCE Hegowshi Cables	ARM, Robert Bosch, TEQIP MHRD etc	TEQIP	-	-

3.12 No. of faculty served as experts, chairpersons or resource persons 40

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year



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3.15 Total budget for research for current year in lakhs – Year 2014-15 – 295.33 Lakhs

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	11
	Granted	-
International	Applied	02
	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
13	04	04	01	01	-	03

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

Details of Research Scholars [Awarded/On Rolls] in various BMSCE Research Centres

	Guides	Research Scholars - Awarded			Research Scholars on Roll		
		M.Sc [Engg]	Ph.D	Total	M.Sc [Engg]	Ph.D	Total
Total	99	7	36	43	34	187	221

During the past year about 55 research scholars have registered for the PhD in various BMS research centres.

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

LIST OF FACULTY WHO RECENTLY ACQUIRED THEIR DOCTORAL DEGREE

SNO	Name of the Faculty	Department
1	K.Ganesh	Civil Engineering
2	Bheemsha	Mechanical Engineering
3	Rudra Naik	Mechanical Engineering
4	Suresh S.M.	Mechanical Engineering
5	Rammohan Y.S.	Mechanical Engineering



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SNO	Name of the Faculty	Department
6	M.G. Patil	Mechanical Engineering
7	Sarada B.N.	Mechanical Engineering
8	Meena P.	Electrical & Electronics Engineering
9	Rajeshwari M Hegde	Telecommunication Engineering
10	Bhagyalakshmi H.R.	Electronics & Communication Engineering
11	Lakshmi K.P.	Electronics & Communication Engineering
12	Sudhindra K.R.	Electronics & Communication Engineering
13	Jayanthi K Murthy	Electronics & Communication Engineering
14	Santosh R Desai	Instrumentation Engineering
15	R.Ashok Kumar	Information Science & Engineering
16	Minu Zachariah	Master of Business Administration

PhD's PRODUCED FROM BMSCE RESEARCH CENTRES

SNO	Name of the Scholar	Name of the Supervisor	Department
1	A.S.Arun Kumar	Dr.S.Raghunath	Civil
2	Rudra Naik	Dr.G.Pundarika	Mechanical
3	Mr.Mallikharjun H	Dr.H.B.Nagaraju	Civil
4	Bheemsha	Dr.G.Pundarika	Mechanical
5	P.Meena	Dr.R.S.Dixit	Electrical
6	Sudarshan M.S.	D.R.V.Ranganath	Civil
7	Lalitha S.M.	Dr.A.Satyanandini	MBA
8	Bhagyalakshmi H.R.	Dr.M.K.Venkatesha	Electronics

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

JRF SRF Project Fellows Any other



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3.21 No. of students Participated in NSS events:

University level	<input type="text" value="20"/>	State level	<input type="text" value="-"/>
National level	<input type="text" value="21"/>	International level	<input type="text" value="-"/>

3.22 No. of students participated in NCC events:

University level	<input type="text" value="-"/>	State level	<input type="text" value="-"/>
National level	<input type="text" value="-"/>	International lev	<input type="text" value="-"/>

3.23 No. of Awards won in NSS:

University level	<input type="text" value="-"/>	State level	<input type="text" value="-"/>
National level	<input type="text" value="-"/>	International level	<input type="text" value="-"/>

3.24 No. of Awards won in NCC:

University level	<input type="text" value="-"/>	State level	<input type="text" value="-"/>
National level	<input type="text" value="-"/>	International level	<input type="text" value="-"/>

3.25 No. of Extension activities organized

University forum	<input type="text" value="-"/>	College forum	<input type="text" value="-"/>
NCC	<input type="text" value="-"/>	NSS	<input type="text" value="17"/>
		Any other	<input type="text" value="05"/>

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

SNo	Event	Date	Participants
1	PAN Card Service Camp	14-17 th Feb 2013	231
2	150 th Birth Anniversary of Swamy Vivekananda	16 th March 2013	150
3	Voters ID Campaign in the Campus	1-5 th Apl 2013	500
4	Walkathon on Waste Segregation and Management	8 th April 2013	250
5	legal awareness program	29/08/ 2013	150
6	lung cancer awareness program	03.09.2013	550
7	seminar on Lung cancer (Cancer Life style risk factors)	4/09/2013	70



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SNo	Event	Date	Participants
8	Donation of mattresses to Nava Chethana Trust, A school for mentally challenged & multiple disorder children	October 2013	
9	Bangalore Times Talent Hunt competition- fresh face	14/09/2013	200
10	Essay competition on the role of Sir MV in the technological development if India	18/09/2013	22
11	Diwali celebration at Gandhi old age home	01/11/2013	45
12	Voters ID Registration Campaign in the BMSCE campus	29-30nov and 2-6 Dec	970
13	BMSCE hosted the two-day Vidyarthi Pustaka Parishe (in association with Srushti Ventures) on 8th and 9th of February 2014 as a part of community service & social responsibility. The two-day programme was well received with the participation of nearly 15,000 students. More than 2.5 lakh academic books were distributed during the two-day Pustaka Parishe.	Feb 08-09: 2013	All Students
14	Blood donation camp at BMSCE campus	Feb, 15 th 2014	120
15	Eye testing camp at BMSCE campus	10 th – 12 th February, 2014	150
16	Traffic Rules Awareness Drive	20 th March 2014	150
17	Special Performance by Down-syndrome Children	29 th March, 2014	2000
18	Inter Collegiate Written Quiz competition (Voter Awareness Campaigns to educate and sensitize youth about the importance of elections.)	15 th April, 2014	07



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CRITERION – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Newly created	Source of Fund
Dean Rooms	04	Mgmt
Class rooms	20	Mgmt
Laboratories	05	Mgmt
Seminar Halls/Studio	05	Mgmt
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	14	TEQIP
Value of the equipment purchased during the year (Rs. in Lakhs)	127 Lakhs	Mgmt/TEQIP

4.2 Computerization of administration and library

- a) Central Library is equipped with latest reading resources with both print and electronic forms.
- b) The Library is computerised using LIBSYS software with all house-keeping modules.
- c) All the reading resources are bar coded
- d) Complete resources have been kept on open access system
- e) The Library and Information Centre is subscribing to 17 databases on Science, technology and Management (9500 e-journals apart from print journals). This resource can be accessed through out the campus any time through IP Range.
- f) The Centre has created good ambience for accommodating to around 500 users at a time.
- g) Housed in a spacious building spanning five floors and has a seating capacity of 400 users at a time

4.3 Library services:

	Existing		Newly Added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	173773	3,37,89,107.00	5765	1,679,975.00	6140	2,213,061.75
Reference Books	15826	3,071,737.00	374	508,299.00		
e-Books	1700	71,500.00	1700	71,500.00	1700	71,500.00
Journals	176	1,590,408.83	26	59,292.79	134	1,311,327.55
e-Journals	9500	3,481,857.00	9500	3,481,857.00	9500	3,481,857.00
Digital Database	17	3,481,857.00	17	3,481,857.00	17	3,481,857.00



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4.4 Technology up gradation (overall)

	Total Computers	Internet	Browsing Centres	Computer Centres	Office	Departments
Existing	1520	40 MBPS	80	1085	45	310
Added	90	120 MBPS	0	90	0	0
Total	1610	160 MBPS	80	1175	45	310

1.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation

- a) The campus is Wi-fi. 24x7 Internet in all Departments, Hostels and centralized computer laboratories.
- b) The Computer with internet access is available to all the faculty members and even to non-teaching staff members (both office and departments)
- c) The Classrooms, seminar halls, conference halls, Auditoriums are equipped with LCD Projectors with all accessories
- d) The entire office works are executed using computers

4.6 Amount spent on maintenance in lakhs :

i) ICT	24.00 lakhs
ii) Campus Infrastructure and facilities	83.00 lakhs
iii) Equipments	23.00 Lakhs
iv) Others	170 Lakhs
Total :	300 Lakhs



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CRITERION – V

5. Student Support and Progression

5.1 Contribution in enhancing awareness about Student Support Services

- **Website & Digital Notice Board:** easily accessible upgraded website [www.bmsce.ac.in] /Digital Notice Board through which the student can access all the information he/she is looking for.
- **Industry Institute Interaction Cell:** Enhanced institute-industry interface through regular guest lectures/workshops, industry visits, campus connect programs and establishing collaborative laboratories
- **Academic Audit:** Regular Academic Audit (both internal & external) are in place. The audit reports are reviewed and approved by the Management.
- **Established Entrepreneur Development Cell (EDC):** In order to nurture the idea of entrepreneurship among the student ED cell has been established
- **Grievance Redressal Cell:** is constituted for the purpose of redressal of grievance of students, parents and others.
- **Placement & Training Centre/Library & Information Centre:** Good Library and Placement cell adds to the list of facilities extended to the students in attaining better academic standards.
- **International Co-operation Division,** Melton Foundation, Industry Institute Interaction Cell, Women Cell, BMS Campus Health Care Centre, Ladies lounge, Bank with ATM are some of the other student support measures.
- **National Service Scheme [NSS] Cell:** to encourage students to engage in community development activities.
- **Online student's feedback system:** to obtain feedback on teaching, course work and various academic activities
- **Student forums:** In each Department to nurture creativity & innovation
- **Insurance:** Group Medical Insurance Facility
- Multi-disciplinary Forums, Association with Professional Bodies, Alumni Scholarships, Student Forums / Clubs, Peer Learning, Cash incentive to student achievers, Language Laboratory, Foreign language courses [French & German] are some of the other student support measures

The scheme, syllabus, rules and regulations pertaining to teaching learning and evaluation, grading system along with academic calendar of events are provided to the students in form of a booklet. A separate campus information booklet is provided to the students highlighting the above facilities along with students code of conduct.



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5.2 Efforts made by the institution for tracking the progression

- **The Academic Progression:** of a student is continuously monitored and assessed. The system of Continuous Internal Evaluation helps to ascertain the academic standard of the student from time to time and impart remedial measures.
- **Proctor System:** Each student is assigned to a faculty advisor (Proctor), who keeps track of academic progress of the students.
- **Result Analysis:** enables easy understanding of the performance level
- **Student Representatives invited to BOG Meetings:** student representatives are invited to the BOG meetings to discuss and consider their view points. The minutes of the Meeting are published in the College website
- **Augmentation of Facilities:** Some of the facilities like Laboratories & Library are made available for the users (students/faculty) at extended hours.
- **Management funded Projects:** to encourage young faculty & students to carryout research activities the management offers seed money.
- **Strategic Plan:** The Management monitors the strategic plan [both short term goals and long term goals] through periodical reviews (quarterly) of the implementation of strategic plan.
- **Regular Meetings/Monitoring:** Parents are invited atleast once in a semester to discuss the progress of their wards. This is in addition to the regular monitoring of the student's progress by their respective proctors.
- **Regular Feedback from students:** BMSCE is conducting student Feedback process every semester to improve teaching, infrastructure and the entire learning experience for the students during their tenure. The college has instituted an online student's feedback system to obtain feedback on teaching, course work and various academic activities. A minimum of three feedbacks sessions will be captured in a semester.

5.3 (a) Total Number of students

UG	PG	Ph.D.	Others
4564	761	185	35

(b) No. of students outside the state

492

(c) No. of international students

321

Men	No	%	Women	No	%
	3241	71		1323	29



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Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
3179	279	52	652	10	4182	3596	291	56	609	12	4564

Demand ratio 1:4 Dropout % Nil

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

Coaching Classes for CMAT Exams

No. of students beneficiaries 50

5.5 No. of students qualified in these examinations

NET	-	SET/SLET	-	GATE	50	CAT	20
IAS/IPS etc	02	State PSC	10	UPSC	-	Others	50

5.6 Details of student counselling and career guidance

STUDENTS COUNSELING : Students face both academic and personal issues while at the Institution. Sometimes, personal issues become intense and hamper their performance and personal happiness. With a view to provide counseling to students, the Institution entered into Memorandum of Understanding with Vishwas, Society for Mental Health, Bangalore during July 2013 for providing Counseling Services at BMSCE. Accordingly Vishwas Society for Mental Health, Bangalore have conducted Counseling sessions for the benefit of First Year students of 2013-14 Batch. The sessions were conducted on 19.08.2013, 20.08.2013, 21.08.2013, 22.08.2013 & 23.08.2013 [05 Days].



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ENTREPRENEURSHIP DEVELOPMENT CELL: In order to nurture the idea of entrepreneurship among the students, BMSCE started an entrepreneurial cell. The Cell aims at creating an entrepreneurial ecosystem in the campus. It aims to develop and support new and future entrepreneurs. The Following are some of the activities of the Cell during the past year.

- Mr. Paritosh J of III Sem Telecom attended one day successful leadership workshop on 30th September 2013 at Dayanada Sagar Institute.
- Dr. Shubha B.N was invited by NEN to attend the Master trainer programme on 30th & 31st October 2013 at NEN, Bangalore.
- There was an Idea Boom Box Competition held on 25th November 2013 at BMSCE.
- III Semester Student (Parithosh) from Telecommunication engineering participated in K-Move Korea-India startup contest during January 2014 and won III prize and cash award of Rs. 1,00,000/-
- Two students visited the Kanara small scale industries association on 8th Feb 2014 as a part of ideation trip
- The E week 2014 was held between 1st March 2014-7th March 2014.

MEMORANDUM OF UNDERSTANDING: BMSCE has entered into an MOU with Rao Advisors LLC (March 2014). The prime objective is to help & support BMS Students for a structured counseling program to pursue higher studies in the United States. Rao Advisors LLC have so far conducted 3 counselling sessions. More than 150 students across the departments have participated in these sessions.

Counselling for higher education conducted by DAAD – Oct 2013

5.7 Details of campus placement

Placement Details 2014 Batch (as on June 2014)

	Particulars	2013-14 (Till Date)
UG (B.E.)	Students registered	774
	Total Offers	785
	Students Placed	592
	Percentage of UG Placements	76
	Highest Package (LPA)	10.2 LPA
	Average Package (LPA)	4.5 LPA
PG (M.Tech.)	Students registered	80
	Total Offers	38
	Students Placed	34
	Percentage of PG Placements	43
	Highest Package (LPA)	4.75 LPA
	Average Package (LPA)	4 LPA
Participating Companies		116



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Details of Training Provided to Students

- Gramophone Company conducted training from 16th June to 14th July 2014
- Academy for Skill & knowledge Company has conducted training from 16th June to 14th July 2014
- ISOL Company has conducted training from 16th June to 14th July 2014
- Ethnus Company has conducted training from 16th June to 27th June 2014
- Online solutions from Olive Board

5.8 Details of gender sensitization programmes

- The Women Cell organized a Guest Lecture on the occasion of International Women's Day. Dr.Lakshmi V Pandit, Kempegowda Institute of Medical Science, Bangalore, delivered a lecture on "Stress and Coping"
- Department of MCA in association with Women in Engineering (BMSCE – WIE Affinity Group)" organized an Extension Lecture on "Outbound Learning". The lecture was delivered by Mrs.K.S.Asha and Mrs.Sudha Siddaiah, Skill Development Trainers, Forte Catalyst Talent Management Services
- A Session on "Formulation of Research & Development Initiatives by Women Scientists" and Technologists was held on 10th June 2014.

5.9 Students Activities

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

State/ University level	National level	International level
15	10	06

No. of students participated in cultural events

State/ University level	National level	International level
08	06	-

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

Sports : State/ University level	37	National level	□	International level	01
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Cultural: State/ University level	13	National level	□	International level	□
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5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	25 Projects	10.49 Lakhs
Financial support from government	871	157.00 Lakhs
Financial support from other sources (Alumni Association)	53	5.30 Lakhs

The College endeavors to provide financial support assistance to students to conduct student curricular activities. The details of financial assistance provided during the past year are shown hereunder:

SNo	Name of the Student / Project	Date of Sanction			Amount
		Day	Month	Year	
1	Conducting Debate	31	3	2014	1000
2	Donation for Vidyarthi Pusthaka Parishe	10	2	2014	50000
3	Kits for Training Programme	25	1	2014	50000
4	Student Curricular Activities	6	12	2013	6535
5	BMSC-IEE Registration	6	12	2013	9800
6	Tech Team Selection Test-2013-14	13	11	2013	4665
7	Reg-Annual Intra Collegiate quiz Fest	9	11	2013	11000
8	Robo cup-14	26	10	2013	50000
9	ABB GISL sponsorship	23	9	2013	35000
10	Samyoga	20	9	2013	55440
11	Reimbursement of Reg.fee-AISC	7	9	2013	3030
12	Incentive for Rank holders	8	8	2013	355000
13	Internship - IIT Bombay with sine, IIT Bombay	23	7	2013	149625
14	Towards UG Project - Cashutec Building Centre	16	7	2013	5000
15	SAE AERO West-2013	25	6	2013	130000
16	Award for rank holders, Sports & Cultural	16	5	2013	65000
17	CO-Sponsorship	30	3	2013	6000
18	Reimbursement of the Registration Fee	29	1	2013	10000
19	150th Birth Anniversary of Swami Vivekananda	7	1	2013	50000
Total					1047095



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5.11 Student organised / initiatives

Fairs	: State/ University level	<input type="text" value="-"/>	National level	<input type="text" value="01"/>	International level	<input type="text" value="01"/>
Exhibition:	State/ University level	<input type="text" value="-"/>	National level	<input type="text" value="-"/>	International level	<input type="text" value="-"/>

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed:

The grievances and student concerns are promptly resolved at the levels of Proctor, Head of the Department, Deans, Vice-Principal and Principal as the case may be. The Institution has also constituted a Grievance Redressal Committee for the purpose of redressal of grievance of students, parents and others. The aggrieved student/s and others approach the convener of the Grievance Redressal Committee for redressal of their grievance. The GRC meets once in six months. The Student representatives are invited to Board of Governors and their views are taken note off and duly considered.

CRITERION – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION

Promoting Prosperity of mankind by augmenting human resource capital through quality Technical Education & Training

MISSION

Accomplish excellence in the field of Technical Education through Education, Research and Service needs of society

6.2 Does the Institution has a management Information System

The Institution has established e-Governance

- a) The admission process is completely online.
- b) Fee payment through online via Credit Card, Debit Card, Internet Banking or Wire Transfer.
- c) The students can view their CIE & SEE and attendance status online
- d) Notifications of academic activities are informed to students/parents
- e) Online registrations for Institutional Electives of 7th and 8th semester students are carried out successfully



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Administrative Procedures

- a) Major Academic/Administrative decisions are being addressed by the College Council
- b) Delegation of academic/financial power to the senior functionaries is in place. Appointment of senior faculty to govern various academic/administrative activities namely, Vice-Principal, Deans, Controller of Examinations [COE] etc.
- c) Departmental performances are monitored through Departmental Academic Committee (DAC) & Departmental Procurement Committee (DPC)
- d) Use of Tally for Accounting Purposes
- e) Regular meetings of the Principal with the Administrative heads
- f) Periodical meetings of various committees and decision making therein
- g) Parent Teacher meetings made part of the Calendar
- h) All records / documents /minutes are maintained as per guidelines
- i) Maintaining records in e-form is under consideration

Administrative Reforms

- a) The Faculty representatives are invited to the Board Meetings
- b) The BOG interacts with the student's representatives and considers their views
- c) The Minutes of the BOG are published on the college website (www.bmsce.ac.in).
- d) The Management has prescribed clear-cut norms for staff members which is provide in the form of a booklet and also uploaded on the college website (www.bmsce.ac.in).

Evaluation and Examination Procedures

- a) The Institution follows the guidelines prescribed by the University [VTU] from time to time. The statutory bodies like Academic Council, Board of Studies (Department/Cluster), Board of Examiners (BOE), Finance Committee (FC), Controller of Examination (COE) and Deans are in place. The conduction of CIE and SEE is in accordance with university guidelines applicable for an autonomous Institution
- b) The College publishes Academic Calendar for each session;
- c) The evaluation of the student is based on CIE [Continuous Internal Evaluation] and SEE [Semester End Examination];
- d) The office of the Controller of Examinations facilitates the conduction of CIE and SEE in accordance with university guidelines applicable for an autonomous Institution;
- e) Full transparency in all the processes right from the announcement of the examination up till the declaration of the results is maintained;
- f) Proper invigilation mechanism similar to those prevalent for Semester End Examination [SEE] is also adopted while conducting Continuous Internal Evaluation [CIE];



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

6.3.1 Curriculum Development

- a) Feedback on Curriculum from academic peers
- b) Inputs from faculty, students, alumni and industry representatives obtained through organized meetings fed into the Board of Studies for designing the curriculum.
- c) Syllabus is revised every two years on the lines of UGC model curriculum and keeping in view the latest developments in the field.
- d) At least one course in ICT is a part of core courses in each department.
- e) Value based courses have been introduced aimed at holistic development of the students.
- f) The Curriculum revision [2014-15] is based on the following factors:
 1. Need-based and in response to industry requirement by engaging all the stakeholders laying emphasis on skill development
 2. Introduction of Self-Study component
 3. Scope for continuous formative assessment and improvement of quality
 4. Encourage inter disciplinary and multi-disciplinary approach in planning and designing

6.3.2 Teaching and Learning

- a) Participating in IITM, live lectures programme under MHRD sponsored QEEE programme. This enables integration of top quality scholastic inputs into current learning and teaching practices. The classes are conducted by faculty members from IITM, IITB, IITD and IITK.
- b) IITM-E YANTRA The project Envisages to harness young intellectual talent to create utility based robotic applications for usage across a variety of applications such as manufacturing, home, defence, maintenance and services.
- c) Innovative evaluation reforms introduced by the Institution for better evaluation of the students:
 - Surprise quizzes
 - Three-tier electives namely Department, Cluster & Institutional levels
 - Extension Lectures
 - Industrial/Site Visits
 - Workshops by Alumni on Current Trends/Technology
 - Offering Value Added Programmes during semester breaks
 - Facilitating internship during semester breaks
 - Peer learning activities
 - Propel Labs
 - Blended Learning
 - Established laboratories in collaboration with industries
 - Foreign language courses



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6.3.3 Examination and Evaluation

- a) The office of the Controller of Examinations facilitates the conduction of CIE and SEE in accordance with university guidelines applicable for an autonomous Institution;
- b) Full transparency in all the processes right from the announcement of the examination uptill the declaration of the results is maintained;
- c) Proper invigilation mechanism similar to those prevalent for Semester End Examination [SEE] is also adopted while conducting Continuous Internal Evaluation [CIE];
- d) Newer Methods for CIE evaluation is being adopted.
- e) Apart from tests/quiz, Mini Projects (course), Term Papers, seminars, assignments etc are introduced.
- f) MPC for CIE on par with SEE introduced.

6.3.4 Research and Development

- a) Providing seed money for research activities
- b) Providing incentives for publishing research papers in refereed journals with impact factor.
- c) Providing incentives for receiving funds from external funding agencies
- d) Cluster Concept
- e) Extension lectures
- f) Deputation of faculty to higher studies with full pay
- g) Student Forums both in curricular & extracurricular activities
- h) Recognising inspirational thinking of the students by awarding best student projects every year.

6.3.5 Library, ICT and physical infrastructure / instrumentation

Physical Infrastructure

New Constructions

- a) Construction of Boys Hostel Phase – 1
- b) Construction of MCA Block 3rd and 4th Floor
- c) Construction of MCA Block 5th and 6th Floor
- d) Construction of Temporary Structure at 4th Floor Terrace, Workshop Block



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Laboratory Facilities

Few labs are augmented by Procurement of sophisticated equipment's like:

- a) Microscope with camera, Forced Convection Digital lab oven
- b) Latest model Computer Systems/Laptops
- c) Learning Resources/Software like MATLAB, EXATA Software Emulator (for Networking), Synopsis Tool for VLSI
- d) Equipments - ECG Machine (ML), FPGA-DSP/MSP Kits (EE), Dev & Warp Kit (TE), Double Distilled water Still (CV)
- e) Learning Resources - University Package (CH), Power Lab Tutor (ML), ATENA Software (CV), Hyper Works (ME).
- f) Language Laboratory [80 PCs and Ecole Software]

The following laboratories established to foster creativity & Innovation

- a) Propel Lab 1 - Robotics [May2014]
- b) Propel Lab 2 - 3D Printer [June 2014]
- c) New R&D Lab in the Department of Computer Science [Jan 2014]
- d) New R&D Lab in the Department of Electronics & Communication Engineering etc.

IT Infrastructure

- a) Internet Bandwidth enhanced from 80 Mbps to 155 Mbps
- b) Procurement of Barracuda Link Load
- c) Balancer for Managing Bandwidth
- d) Procurement of RUCKUS Wireless access points for Hostels
- e) Procurement of Layer 3 Switches for Data Centre to increase number of Nodes in CWN [Dec 2013]
- f) Procurement of backbone router to Data Centre [Jan 2013]

Library & Information Centre

Library is augmented with 5765 book worth 16.79 Lakhs, reference books worth 5.08 lakhs and 26 Journals worth 0.59 Lakhs. 9500 E-journals worth 34.81 Lakhs have been procured.

Sports & Cultural facilities

- a) Synthetic flooring has been laid in the indoor stadium.
- b) Health and fitness classes started for First Semester Students (New)
- c) Professional trainers were inducted to provide training to the teams participating in major events/ competitions
- d) Safety Lockers (40 Nos) Provided
- e) New Musical instruments for Cultural Forum
- f) Upgrading gym facilities
- g) Laying of Wrestling and Judo Mat



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6.3.6 Human Resource Management

- a) The management assesses adequate human power requirement
- b) Effective system of performance appraisal through Annual Performance Evaluation Reports [APER]
- c) Regular online Feedback and counselling
- d) Quality enhancement measures like deputing to Faculty development programmes in subject and capacity building domains etc

6.3.7 Faculty and Staff recruitment

Recruitment of faculty and staff are being made as per rules through Board of Appointments (BOA) subject to approval by the Directorate of Technical Education and Board of Governors as the case may be or as applicable. Advertisements are issued in leading dailies inviting applications from eligible candidates. The applications are scrutinised and the candidates are selected by a duly constituted Board of Appointments (BOA). The staffing pattern of the Institution is dependent on the extension of the academic programmes and the manpower requirement for the same. With the introduction of new programmes, new teaching and non-teaching posts are created to meet the manpower requirement to satisfy the workload. The approval of the Governing Council is sought by providing needed substantiations. The Governing Council approves the Budget for such newly created posts. The qualification, eligibility criteria, pay and pay scale are as per AICTE (Faculty) and State Government norms.

6.3.8 Industry Interaction / Collaboration

The BMSCE Industry Institute Interaction [IIIC] facilitates exposure of industrial atmosphere to students and subsequent help in placement of young graduating engineers in industries across the country. IIIC has MOUs/linkages with many reputed industries-Robert Bosch, EMC, NI, ARM, Texas Instruments, Novell, NCS, TMI systems, SAP labs etc. The collaboration is focused on Industrial Training, Curriculum Development, Joint projects, Internship, Technical workshops, Faculty development programmes, Industrial visits, Working model contests, Carrier Guidance, Expert lectures etc. These activities are aimed to bridge the gap between industry and Academia. [Total MOUs – 33 Nos].

6.3.9 Admission of Students

The admission for undergraduate courses is on the basis of Karnataka CET and COMEDK Entrance Test ranks. For the Post Graduate Programmes it is through PG CET. Admissions for Management Seats are through an Admission Committee constituted by Management. The Admissions are made in transparent and fair manner.



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6.4 Welfare schemes for	Staff Members	20
	Students	12

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	Yes	Yes	Yes
Administrative	Yes	Yes	Yes	Yes

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

For UG Programmes

For PG Programmes

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

Bar Coding, multiple choice questions in specific courses, Review / moderation, double valuation, Photocopying, Challenge Valuation etc., is in vogue. Added to this, depending on the need of specific courses, seminars, mini projects and self-learning components are being introduced as a part of teaching / learning/ evaluations reforms.

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

The Institution was awarded academic autonomy for UG Programs from the academic year 2008-09 onwards. The First Graduation Day [Autonomous batch-2008-09] was held 9th June 2013 and the Second Graduation Day [Autonomous batch-2009-10] was held on 5th July 2014.



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It is also informed that applications towards

- a) Extension of academic autonomy for UG Programmes &
- b) Conferment of academic autonomy to eligible PG Programmes

for the period from 2014-15 to 2019-20 in the prescribed format has already been submitted to VTU on 13.05.2014.

6.11 Activities and support from the Alumni Association

Activities

- a) Annual Alumni Day
- b) One quarterly alumni event in terms of felicitations, alumni networking meetings for considering alumni inputs for various institutional activities like conferences, curriculum revision etc., (Alumni Advisory Board)
- c) Publishing quarterly alumni newsletters
- d) Online alumni surveys (NBA, Feedback)
- e) Alumni Guest lectures, facilitating alumni supported internships and job placements
- f) Local Chapter initiations

Support

- a) Merit Scholarships for toppers from every semester and every branch of engineering (UG and PG), MBA and MCA which involves an amount of Rs.10,000/- per topper per semester (163 scholarships given away since the inception of the award in 2012-13)
- b) BMSCEAA Education loans for needy students (30 loans approved so far)
- c) Internship and placement for students based on alumni volunteering for the same

6.12 Activities and support from the Parent – Teacher Association

Regular parents meetings are conducted department-wise atleast once in each semester.

6.13 Development programmes for support staff

The Institution regularly organises training programmes for non-teaching staff members. The non-teaching staff are also deputed to various training programmes [both in-house and external]. For the year 2013-14 about 115 non-teaching staff members were deputed to various training programmes.

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

- a) Rain Water Harvesting
- b) Solar Energy
- c) Landscaping
- d) Waste Segregation
- e) Reduction in office paper consumption etc.



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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.

Innovative Teaching Methods Introduced during the past year

Blended Learning (QEEE)	IITM-E Yantra
Blended MOOCs	Propel Lab
Beta Partner	Internships
e-Governance	Remedial Coaching
Project Exhibition	Enhanced Industrial Visit
Research & Innovation Centre for promotion of Research	

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

The details of Action Taken Report [ATR] on the plan of action are provided at 2.1.5 above.

It may also be noted that BOG has approved the Strategic Plan [2013-2020]. The Vision & Mission, Short term and long term goals have been identified. Budgetary approvals for the projections based on the Strategic Plan have been duly approved. The Trust has taken up the periodical (once in three months) monitoring of extent of compliance of Strategic plan in all aspects including financial management.

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

- a) Inviting Faculty & student representatives to participate in the proceedings of the BOG.
- b) Uploading BOG minutes on the Website
- c) Counselling of faculty based on students feedback.
- d) Peer Evaluation of Teaching Learning System
- e) Providing seed money for research activities
- f) Providing incentives for publishing research papers in refereed journals with impact factor.
- g) Providing incentives for receiving funds from external funding agencies
- h) Cluster Concept
- i) Proctoring System



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- j) Conducting value add programmes during vacation
- k) Extension lectures
- l) Internships for both UG & PG students
- m) Deputation of faculty to higher studies with full pay
- n) Pre-placement training to all the students
- o) Student Forums both in curricular & extracurricular activities
- p) Group Medical Insurance (self & family), Co-operative Society etc.

7.4 Contribution to environmental awareness / protection

7.5 Whether environmental audit was conducted? No

7.6 Any other relevant information the institution wishes to add.

- 1) BMSCE submitted application for evaluation by National Board of Accreditation [NBA] under Tier I Washington Accord during November 2013. The evaluation was conducted in the presence of a Review Team of International Engineering Alliance (IEA), Secretariat of the Washington Accord. As an outcome of the process, India became a permanent member of Washington Accord which our country was aspiring to achieve joining 17 other countries around the globe.
 - a) This enables mobility of our engineering graduates
 - b) The graduates from accredited Institutions would have substantial international equivalence to enhance their employment opportunities around the world
- 2) Recent Survey Outcomes
 - a) Ranked No.1 amongst Engineering Colleges in the State of Karnataka by The NAK Press (2014)
 - b) AAAA Grade by Careers 360 Magazine (2014)
 - c) Rated 12th among top 100 engineering colleges by TOI (2014)
 - d) Rated 2nd among top 50 private engineering colleges in India by TOI (2014)



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Important Student Achievement

- In the Boeing IIT National Aero-modelling Competition held at Delhi during June 2014, BMSCE Aero Space Club emerged 2nd out of 170 teams across India including IITs & NITs
- BMSCE Aero Space participated and secured 15th position in SAE AERO DESIGN WEST 2014 held at Fort Worth Texas. BMSCE Aero Space is ranked 15th out of 75 teams participated in the world.
- Sonal Saldanha and Arvind V have retained the TCS Tech Bytes State Level IT Quiz. It is notable that our students have won this event for four times out of five (2009, 2011, 2012 2013 & 2014). The students of BMSCE were also the finalists in Tata Crucible National Level Business Quiz for the year 2014
- The students of EC were the winners of Mentor Graphics Design Contest 2014.
- The Design sheets prepared by students of AT was selected [NASA] as one of the top entries and was displayed at London, UK.

8. Plans of institution for next year

- a) Commemoration of Seven Decades of Promoting Engineering Education

During the year 2015, BMSCE will be entering 70th year of its journey in promoting engineering education. To commemorate the event, the Institution has lined up several International conferences / seminars / Workshops / Guest Lectures etc.

- b) Continue the Process of Strengthening the Campus Facility/Support System.
- c) Further Enhance Research and Consultancy Output
- d) Complete Development of e-governance Portal
- e) Obtain Accreditation Status for Laboratories from authorised agencies
- f) Enhanced collaborative initiatives in the areas of academic, research and innovation

Dr.K.R.Suresh
Director, IQAC

Dr.K.Mallikharjuna Babu
Principal & Chairperson, IQAC