



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)

Minutes of 56th Meeting

September 22, 2014

MEMBERS PRESENT:

1. Dr. P. Dayananda Pai	Chairman
2. Dr. B.S. Ragini Narayan	Member
3. Sri. M. Krishnaswamy	Member
4. Prof. Nirmal Singh Sehra	Member
5. Dr. G. N. Sekhar	Member
6. Dr. D. Thukaram	Member
7. Dr. Ravishankar Deekshit	Member
8. Dr. A. Sridharan	Special Invitee
9. Dr. S. Venkateshwaran	Invitee
10. Dr. R.V. Ranganath	Invitee
11. Dr. L. Ravikumar	Faculty Invitee
12. Dr. Rudra Naik	Faculty Invitee
13. Dr. K. Mallikharjuna Babu	Member-Secretary

LEAVE OF ABSENCE:

1. Sri. K. Jairaj, IAS (Retd)	Member
2. Sri. H. U. Talawar	Member
3. Dr. Lawrence Jenkins	Special Invitee

The Chairman, BOG, extended a cordial welcome to all the Members & invitees to the meeting.

The Member-Secretary informed that he has been keeping the hon'ble members updated on important activities through regular email. He also informed that the student representatives could not be invited to the meeting owing to the Test Series.

Section 1: ITEMS FOR CONFIRMATION

1.1 CONFIRMATION OF THE MINUTES OF THE 55th BOG MEETING HELD ON 7th APRIL 2014

The minutes of the 55th BOG meeting was confirmed by the BOG.



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)
Minutes of 56th Meeting

September 22, 2014

Section 2: ACTION TAKEN REPORT

2.1 TO NOTE THE ACTION TAKEN ON THE DECISIONS / RESOLUTIONS OF THE 55th BOG MEETING HELD ON APRIL 7, 2014

The BOG noted the Action Taken Report of the 55th meeting of BOG held on 07.04.2014 and approved.

Section 3: COLLEGE REPORT

3.1 REPORT OF THE ACADEMIC ACTIVITIES OF THE COLLEGE

The BOG was appreciative of the report on important Academic/Other Activities of the College for the period from April 2014 to August 2014 (report shown at *Annexure D*) presented by the Member-Secretary. The Board noted & expressed its satisfaction on the events conducted.

Section 4: INFORMATION ITEMS

4.1 MINUTES OF THE MEETING OF VARIOUS COMMITTEES OF THE COLLEGE

The Board reviewed and approved the minutes of various statutory and non-statutory Committees held for the period from 01.03.2014 to till date. The details are provided hereunder:

SNo	Name of the Committee	Meeting(s) conducted	
		Number	Date(s)
1	Dean's Council	2	20.08.2014, 27.05.2014
2	College Council	2	13.03.2014, 04.08.2014
3	HODs Council	6	12.04.2014, 25.04.2014, 09.05.2014, 04.06.2014, 18.06.2014, 16.07.2014
4	Academic Audit Committee	2	06.06.2014, 13.08.2014
5	Grievance Redressal Committee	1	02.06.2014
6	Internal Quality Assurance Cell	1	23.04.2014



BMS COLLEGE OF ENGINEERING, BANGALORE-19

BOARD OF GOVERNORS (BOG)

Minutes of 56th Meeting

September 22, 2014

4.2 NEW REGULATIONS BY THE COUNCIL OF ARCHITECTURE PRESCRIBING MINIMUM STANDARDS FOR ARCHITECTURAL EDUCATION

The Member-Secretary brought the following information to the Board of Governors for information:

In its process of framing new regulations for prescribing minimum qualification for Architectural Education, the COA provided the Draft Regulation regarding eligibility for admission to 5 year full time B.Arch. course whether it should be 10+2 in Science Stream i.e. PCM with 50% Marks in aggregate or it should be 10+2 with mathematics which is currently in vogue. The COA also required for the details of the students admitted for the last 5 years to know whether majority of them are having PCM or without PCM. The College provided the required details. The COA has conducted a meeting with heads of Schools of Architecture on 01.09.2014 wherein deliberations were held in this regard. The final outcome is awaited.

4.3 VTU REGULATION REGARDING ADMISSION TO PG (M.Tech.) PROGRAMMES

The Board took note of the VTU communication dated 30.05.2014 regarding non-consideration of the admission of candidates for M.Tech. Courses (under both Government and Management Quota) who have acquired their B.E. degree through Distance Education Mode. The Board also noted that the Colleges are **directed not to admit such candidates** as the University will not approve such admissions.

4.4 EDUCATIONAL AID TO THE CHILDREN OF NON-TEACHING STAFF

The Board appreciated the generous decision of the Management in providing educational aid to the children of non-teaching staff of all BMS Institutions in memory of beloved founders and also to commemorate the 70 year journey of BMSCE. The Board felt that the welfare measures would enhance morale of the employees. The Board also noted that a total of 123 non-teaching staff members of BMSCE benefited under this scheme as on date.



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)

Minutes of 56th Meeting

September 22, 2014

4.5 REPORT ON FEEDBACK FOR THE YEAR 2013-14

The Member-Secretary brought to the notice of the members that currently there is a well-designed online feedback system which has been contributing to teaching quality and also used by faculty as an opportunity for improvement. The Member-Secretary then presented the feedback report for the Odd and Even Semester 2013-14 which was duly noted by the Board (*report provided in Annexure II*).

4.6 STUDENTS COUNSELING

The report presented by the Member-Secretary on the counselling sessions conducted for the benefit of students for the academic year 2013-14 & 2014-15 was noted by the Board. The Board also concurred with the proposal of the Member-Secretary to engage the services of professional counselors at least twice a week for the benefit of students.

4.7 ESTABLISHMENT OF BHARAT RATNA DR.C.N.R. RAO CHAIR AT BMSCE

The Member-Secretary apprised the Board that Renowned Scientist Bharat Ratna Dr.C.N.R.Rao will be visiting the campus on 23.09.2014 (2.30 PM to 4.00 PM) and deliver a talk. A function to felicitate Dr.Rao is also being held on the occasion. While expressing its pleasure over the visit, the Board opined that it was an honour to have Dr.C.N.R.Rao in the campus and his presence and talk shall surely inspire the students to explore new horizons and aim for greater things in life.

The Board also concurred with the proposal of the member secretary to create Dr.C.N.R.Rao Chair and approved the same. The Board also approved the nomination of Dr.Shankar Govindaswamy, working in the Research & Development Centre for the newly constituted Prof.C.N.R. Rao Chair.



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)
Minutes of 56th Meeting

September 22, 2014

Section 5: ITEMS FOR APPROVAL

5.1 REVISION IN STAFFING PATTERN DUE TO VARIATION IN INTAKE / INTRODUCING NEW PROGRAMMES

The Board after detailed deliberations accepted and approved the proposal of the Member-Secretary to revise the staffing pattern in lieu of introduction of new PG (M.Tech) Programmes in VLSI Design & Embedded Systems (Intake 24), Manufacturing Science & Engineering (Intake 24) and variation of intake in UG Programmes of Mechanical Engineering (Intake enhanced from 120 to 180) and B.Architecture (Intake enhanced from 80 to 120). The revised/approved staffing pattern is provided hereunder:

Mechanical Engineering

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Mechanical Engineering	UG	120	2	6	16	24
2	Mechanical Engineering (2014)	UG	60	1	3	8	12
3	First Year Course	UG	-	0	0	12	12
4	Machine Design	PG	18	1	1	1	3
5	Manufacturing Science & Engg (2014)	PG	24	1	1	2	4

Electronics & Communication Engineering

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Electronics Engineering	UG	120	2	6	16	24
2	First Year Course	UG	-	0	0	2	2
3	Electronics	PG	18	1	1	1	3
4	Digital Communication	PG	18	1	1	1	3
5	VLSI & Embedded Systems (2014)	PG	24	1	1	2	4

Architecture (as per COA norms)

SNo	Programme	Level	Intake	P	AsP	AP	TOT
1	B.Architecture	UG	120	6	12	24	42
2	M.Arch-Habitat Design	PG	20	1	1	1	3

The staffing pattern in respect of the other programmes remains unaltered. The overall approved staffing pattern is shown at *Annexure III*.



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)
Minutes of 56th Meeting

September 22, 2014

5.2 STAFFING PATTERN FOR PG PROGRAMMES BASED ON THE GUIDELINES FROM THE REGULATORY AUTHORITIES

The Member-Secretary briefly explained the policy and need to have exclusive faculty for PG Programmes. This included the guidelines of the regulatory authorities (AICTE/UGC/VTU/GOK) and accreditation authorities (NAAC & NBA) and more so due to the increase in the number of PG Programmes. The Board also noted that the college is awaiting response from the Government for its application for conferment of academic autonomy for PG programmes for the period from 2014-15. After detailed deliberations, the Board approved the faculty requirement for each Programme as per AICTE/COA norms proposed by the Member-Secretary. The Programme-wise approved Staffing pattern for PG programmes (M.Tech. & M.Arch) is provided hereunder:

SNo	Programme	Total Intake	Staffing Pattern			Total
			Prof	AsP	AP	
1	M.Tech in Construction Technology	18	1	1	1	3
2	M.Tech in Machine Design	18	1	1	1	3
3	M.Tech in Electronics	18	1	1	1	3
4	M.Tech in Transportation Engineering	18	1	1	1	3
5	M.Tech in Power Electronics	18	1	1	1	3
6	M.Tech in Computer Science	18	1	1	1	3
7	M.Tech in Digital Communication	18	1	1	1	3
8	M.Tech in Environmental Engineering	18	1	1	1	3
9	M.Tech in Computer Network Engineering	18	1	1	1	3
10	M.Tech in Bio-Chemical Engineering	24	1	1	2	4
11	M.Tech in Bio-Medical Signal Process & Instrumentation	24	1	1	2	4
12	M.Tech in Manufacturing Science & Engineering	24	1	1	2	4
13	M.Tech in VLSI & Embedded Systems	24	1	1	2	4
14	M.Arch in Habitat Design	20	1	1	1	3

The Board also authorized the Member-Secretary to make good the faculty requirement (if any) through new appointments or by making suitable relocation of the existing faculty of the respective department. The current faculty members identified for the PG programmes is shown at *Annexure IV*.

26



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)
Minutes of 56th Meeting

September 22, 2014

5.3 STAFFING PATTERN EXCLUSIVELY FOR R&D

The Member-Secretary briefed the Board on the background of the proposed agenda item. He emphasized there is a need to enhance, encourage and administer research activities being conducted by various departments/clusters. The Member-Secretary proposed to have exclusive faculty to carryout extensive research over & above those of the regular ones.

These faculty (may also be titled as scientists) are expected to contribute to the research & development of the institution by way of writing /executing research projects (preferably sponsored); publish high quality journal papers; collaborating with the concerned departmental faculty/students (by involving them based on mutual interest which is primarily based on their research interest).

They work centrally under the R&D Director. It is the responsibility of the Director (R&D) to monitor the deliverables of the said faculty and also provide necessary support /assistance. All the HODs are expected to provide necessary help/departmental facilities for carrying out Research. It is proposed to begin with 10 positions to be created (at present two faculty are already working).

SNo	Department/Cluster	Departments	No. of Posts
1	Civil Engineering	Civil Engineering	01
2	Mechanical Engineering	Mechanical, IEM & MBA	02
3	Electrical Science Cluster	Electrical, Electronics, Telecomm Medical Electronics & Instrumentation	03
4	Computer Science Cluster	Computer Science, Information Science & MCA	01
5	Chemical Cluster	Chemical & Biotechnology	01
6	Basic Science	Physics, Chemistry & Mathematics	02

After detailed deliberations, the Board approved the proposal as contained in the above table. The Board expressed hope that this would further enhance the research and consultancy outputs and inspire more number of faculty and students to take up research activities.



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)

Minutes of 56th Meeting

September 22, 2014

5.4 RECOVERY OF 10% OF THE AMOUNT TOWARDS TDS/INCOME TAX WHILE PREPARING THE REMUNERATION BILL IN RESPECT OF FACULTY MEMBERS

The Board noted the communication of the Registrar (Evaluation) through letter dated 23.05.2014 directing to recover 10% of the amount towards TDS while preparing the remuneration bill in respect of the faculty members who have been assigned various (VTU) examination activities. The Board authorized the Member-Secretary to make similar deduction/recoveries i.e. 10% of the amount towards TDS while preparing examination bill in respect of faculty members assigned with examination activities under Autonomous Stream.

5.5 PROPOSAL TO CONDUCT INTERNATIONAL CONFERENCES

The Board noted that the College is hosting seven International conferences during 2015 to commemorate the milestone of seven decades of Journey of BMSCE. The following tentative schedule was approved.

SNo	Title of the Conference	Proposed Dates	Dept.	In association with
1	International Conference on Transformations in Engineering Education	Jan 5-8, 2015	Institution	Indo US Collaboration for Engineering Education (IUCEE)
2	Micro Perspectives for Decentralized Energy Supply	April 21-25, 2015	Institution	Technical University of Berlin and University of California, Berkeley, USA
3	International Advance Computing Conference 2015	June 12-13, 2015	CS Cluster	IEEE, Bangalore
4	Technologies for Preventive & Predictive health care	Feb/July 2015	Medical Electronics	University of Minnesota, USA & Maastricht University, Netherlands
5	Telecommunication Engineering Education	August 2015 (proposed)	Dept. of Telecomm	IEEE COMSOC Society (proposed)
6	Business Ecosystem – Issues, Challenges and Opportunities	During Oct./Nov. 2015	Dept. of MBA	Federation of Karnataka Chambers of Commerce & Industry (FKCCI)
7	India Platform/NIRMAN/Other	Yet to be finalized	Institution/ Civil	India Platform/Melton Foundation



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)

Minutes of 56th Meeting

September 22, 2014

Section 6: DISCIPLINARY ITEMS FOR APPROVAL

6.1 DISCIPLINARY PROCEEDINGS

Consideration of the subject was deferred for the next meeting.

6.2 DISCIPLINARY ACTION

Consideration of the subject was deferred for the next meeting.

Section 7: ITEMS FOR RATIFICATION

**7.1 MINUTES OF THE SEVENTH MEETING OF THE ACADEMIC COUNCIL
HELD ON 11.07.2014.**

The Dean (Academics) made a brief presentation on the important academic issues/recommendations made by the Academic Council in its meeting held on 11.07.2014. After detailed deliberations, the Board confirmed the minutes of the seventh meeting of the Academic Council held on 11.07.2014(*minutes enclosed at Annexure V*).

7.2 ANNUAL QUALITY ASSURANCE REPORT (AQAR) SUBMITTED TO NAAC

The Board approved the constitution of Internal Quality Assurance Cell (IQAC) in accordance with the guidelines of NAAC and various activities conducted under its umbrella. The Board appreciated the efforts of IQAC in preparing the Annual Quality Assurance Report for the year 2014-15 confirming to the guidelines of NAAC (*Report enclosed at Annexure VI*).

The Board ratified and approved the same.



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)
Minutes of 56th Meeting

September 22, 2014

7.3 APPOINTMENT OF TEACHING & NON-TEACHING STAFF AGAINST BACKLOG VACANCIES APPROVED BY DTE

The Member-Secretary briefed the Board regarding the procedures initiated towards appointment of Teaching and Non-Teaching Staff against backlog vacancies as per DTE letter dated 30.10.2012 & 07.07.2014 and as per the guidelines prescribed by the Government through its letter dated 21.11.2001 & 01.06.2002 which is currently in vogue.

The Board noted that the DTE had accorded approval for the following backlog posts/vacancies under special recruitment of SC/ST. The details are provided hereunder:

SNo	Department	Designation	Posts	Category
1	Civil Engg.	Associate Professor	01	ST
		Assistant Professor	01	SC
		Helper	01	ST
2	Mechanical Engg.	Assistant Professor	01	SC
			01	ST
		Helper	02	SC
3	Electrical Engg.	Associate Professor	01	SC
4	Industrial Engg.	Assistant Professor	01	SC
5	Administration	FDA	01	SC
		Group D	02	SC
			01	ST
Total			13	

The Board also noted the list of candidates selected against various backlog positions and their status in terms of providing documents as mentioned in the relevant government notification/directives. Details of the candidates (as on date) are as provided at *Annexure VII*.

The Board authorized the Member-Secretary to issue necessary appointment orders to the selected candidates after confirming that the candidate has fulfilled each of the eligible criteria and other norms, including submission of documents as required by the DTE/Government.

26



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)

Minutes of 56th Meeting

September 22, 2014

7.4 IMPLEMENTATION OF DEARNESS ALLOWANCE FOR THE NON-TEACHING EMPLOYEES UNDER STATE SCALES OF PAY

The Board approved the implementation of Dearness Allowance to the non-teaching staff members (both aided and Management) in the revised pay scales 2012 (State Scale of Pay) from the existing 15% to 21% of the basic pay w.e.f. 01.01.2014 as per GO No.FD 5 SRP 2014 dated 08.04.2014. The Board also noted the total DA arrears of Rs.7,05,166/- (as noted below) disbursed.

SNo	Account Head	Number of Employee	Difference Per Month	Arrears of DA Period from Jan. to March 2014
1	Grant-in-Aid	81	90,816	2,95,448
2	Management	123	1,08,906	3,51,718
3	P.G.	20	18,777	58,000
TOTAL		224	2,18,499	7,05,166

7.5 IMPLEMENTATION OF DEARNESS ALLOWANCE FOR FACULTY UNDER AICTE SCALES OF PAY

The Board approved the implementation of Dearness Allowance to the Teaching Staff members (both aided and Management) who are on AICTE Scales of pay from the existing 90% to 100% of the basic pay w.e.f. 01.01.2014 as per GO No.FD 7 SRP 2014 dated 11.04.2014. The Board also noted the total DA arrears of Rs.36,50,000/- disbursed in this regard as detailed below:

SNo	Account Head	Number of Employee	Difference Per Month	Arrears of DA Period from Jan. to March 2014
1	Grant-in-Aid (15%)	73	56,311	12,00,000
2	Management	178	6,31,800	19,00,000
3	P.G.	40	1,67,258	5,50,000
TOTAL		291	8,55,369	36,50,000



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)
Minutes of 56th Meeting

September 22, 2014

7.6 APPOINTMENTS MADE TO TEACHING POSITIONS

The Board ratified the appointments made to teaching positions (Professor/Associate Professor/Assistant Professor - listed at *Annexure-VIII*) as recommended by the Board of Appointments (BOA).

7.7 APPOINTMENTS MADE TO NON-TEACHING POSITIONS

The Board ratified the appointments made to various non-teaching positions (listed at *Annexure-IX*) as recommended by the Board of Appointments (BOA).

7.8 NO OBJECTION CERTIFICATE (NOC) FOR FACULTY MEMBERS TO PURSUE PHD UNDER QIP

The Board ratified the deputation of the following faculty members to pursue PhD under Quality Improvement Programme (QIP) for the year 2014-15:

SNo	Name of the faculty / Designation	Department	Institution	Deputation for three years from
1	Smt H.N.Latha, Asst.Prof.	Electronics	IIT, Kharagpur	08.07.2014
2	Smt.M.Umavathi, Asst.Prof.	Electrical	Anna University, Chennai	04.07.2014

7.9 REPRESENTATION FROM SRI.K.RAMESH, ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING REQUESTING FOR PURSUING PhD UNDER EXTERNAL REGISTRATION AT IISc., BANGALORE

The Board noted that No Objection Certificate (NOC) has been granted to Sri.K.Ramesh, Assistant Professor, Department of Mechanical Engineering, permitting him to pursue/register for PhD under External Registration at Indian Institute of Science, Bangalore, pending ratification of the BOG.

The Board ratified & approved the same.



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)

Minutes of 56th Meeting

September 22, 2014

7.10 REPRESENTATION FROM Dr.S.M.SURESH (ON DEPUTATION) SEEKING NOC TO APPLY FOR THE POST OF JOINT SECRETARY, UGC

The Board noted that No Objection Certificate (NOC) has been granted to Dr.S.M.Suresh (GIA Employee), who is currently on deputation at AICTE, New Delhi, (extended for the fifth year from 27.01.2014 up to 26.01.2015) permitting him to apply for the post of Joint Secretary, UGC.

The Board ratified & approved the same.

7.11 REPRESENTATION FROM DR.S.M.SURESH (ON DEPUTATION) SEEKING NOC TO APPLY FOR THE POST OF REGISTRAR, INSTITUTE FOR SOCIAL & ECONOMIC CHANGE, BANGALORE

The Board noted that No Objection Certificate (NOC) has been granted to Dr.S.M.Suresh (GIA Employee), who is currently on deputation at AICTE, New Delhi, (extended for the fifth year from 27.01.2014 up to 26.01.2015) permitting him to apply for the post of Registrar, Institute for Social and Economic Change, Bangalore.

The Board ratified & approved the same.

7.12 REPRESENTATION FROM DR.S.M.SURESH (ON DEPUTATION) SEEKING NOC TO APPLY FOR THE POST OF DIRECTOR, NATIONAL E- GOVERNANCE DIVISION-MEDIA ASIA LAB, DEPARTMENT OF ELECTRONICS & INFORMATION TECHNOLOGY, GOI, NEW DELHI

The Board noted that No Objection Certificate (NOC) has been issued to Dr.S.M.Suresh (GIA Employee), who is currently on deputation at AICTE, New Delhi, (extended for the fifth year from 27.01.2014 up to 26.01.2015) permitting him to apply for the post of Director, National E Governance Division-Media Asia Lab, Department of Electronics & Information Technology, Government of India, New Delhi.

The Board ratified & approved the same.



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)

Minutes of 56th Meeting

September 22, 2014

7.13 REPRESENTATION FROM TEACHING AND NON-TEACHING STAFF MEMBERS SEEKING NO OBJECTION CERTIFICATE (NOC) TO APPLY FOR THE POSTS IN VTU CONSTITUENT COLLEGES

The Board noted that No Objection Certificate (NOC) has been granted to the following staff members to apply and attend the interview for the posts (relevant to the individual) in VTU constituent Colleges.

SNo	Name	Designation	Dept.	Post Applied in VTU constituent Colleges
Teaching Staff:				
1	Sri.Selva Kumar	Asst. Professor	CS	Asst. Professor
2	Dr.G.R.Prasad	Associate Prof.	CS	Professor
3	Smt.R.Divya	Asst. Professor	CS	Asst. Professor
4	Sri.J.J.Lohith	Asst. Professor	CS	Asst. Professor
Non-Teaching Staff:				
1	Sri.T.S.Suresh	Mechanic	IM	Foreman / Instructor / Asst. Instructor
2	Sri.N.Ramanjinappa	Attender	Library	SDC/FDC/Registrar/AAO

The Board ratified & approved the same.

7.14 GRANT OF TIME BOUND PROMOTIONS TO NON-TEACHING STAFF WORKING UNDER GRANT-IN-AID

The Board took note of the proposal sent to DTE for approval in respect of the following eligible non-teaching staff members for time bound promotions pending approval/ratification of the BOG.

SNo	Name	Department	Designation	Entry into present cadre	COMPLETION OF	
					YEARS	DATE
1	Sri.B.C.Harisha	Civil	Helper	05.01.99	15	04.01.14
2	Sri.S.Chitti Babu	Mechanical	Helper	05.01.99	15	04.01.14
3	Sri.R.C.Puttaswamy	Mechanical	Instructor	01.03.99	15	28.02.14
4	Sri.R.Naveen Kumar	Mechanical	Helper	05.04.99	15	04.04.14
5	Sri.M.Arun Kumar Singh	Electrical	Helper	09.04.99	15	08.04.14
6	Smt.Shantha Kumari	Office	Peon	05.04.99	15	04.04.14

The Board ratified & approved the same.

22.09.2014 | 5.30 PM | COLLEGE BOARD ROOM



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)
Minutes of 56th Meeting

September 22, 2014

Section 8: ANY OTHER ITEMS

8.0 ANY OTHER SUBJECT/S WITH THE PERMISSION OF THE CHAIR.

8.1 MINUTES OF THE MEETING OF THE SUB-COMMITTEE OF BOG OF TEQIP PHASE-II AND THE REPORT ON THE ACTIVITIES OF TEQIP PHASE II

The Vice-Principal presented a brief report on various activities of TEQIP Phase II and component wise details of expenditure incurred under the Project. Prof. D.Thukaram, Chairman of the BOG Sub Committee for TEQIP Phase II informed that in addition to the above said meetings, a good number of meetings have been conducted for the period from the previous BOG meeting and appreciable progress has been achieved by the Institution under TEQIP Phase II (minutes enclosed at *Annexure-X*).

After deliberations, the BOG ratified the minutes of the tenth & eleventh meetings of the subcommittee of BOG of TEQIP Phase-II held on 26.05.2014 and 10.09.2014.

8.2 REPORT REGARDING CREATION OF ENDOWMENT FUND

The Board welcomed and appreciated the innovative course design and curriculum for (First Year Curriculum in the academic year 2014) and the positive feedback it was able to generate from media and academic peers.

The Board welcomed the proposal submitted by Dr.S.Ananda Kumar, Retired Scientist and Formerly a Professor of Biomedical Sciences, State University of New York Graduate School of Public Health to institute an endowment fund of Rs.1,00,000/- (Rupees one lakh only) to encourage undergraduate students in pursuit of Bio-logy inspired engineering research. The proceeds of which could be given as an annual award to a student who shows promise of pursuing biology inspired research in engineering. The Board took note of the decision of the Chairman for having provided the matching grants from the Management to support the designated purpose.



BMS COLLEGE OF ENGINEERING, BANGALORE-19
BOARD OF GOVERNORS (BOG)
Minutes of 56th Meeting
September 22, 2014

8.3 REPORT REGARDING ON GOING FUNDED RESEARCH PROJECTS

The Board took note of the ongoing projects and noted satisfaction on its progress. The details are shown at *Annexure-XI*.

8.4 REPORT REGARDING PROJECT PROPOSAL SUBMITTED TO VARIOUS FUNDING AGENCIES

The Board took note of the Research Project proposals submitted to various funding agencies by the faculty members. The details are shown at *Annexure-XII*.

8.5 REPORT REGARDING ADMISSIONS TO M.TECH. PROGRAMMES AND PhD FOR THE ACADEMIC YEAR 2014-15

The Member-Secretary appraised the admission status for M.Tech./M.Arch. and PhD programmes for the Academic Year 2014-15. The details are shown at *Annexure-XIII*.

The meeting concluded with vote of thanks to the Chair.


MEMBER-SECRETARY


CHAIRMAN



BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - April 2014

April 01: Meeting of the 9th BOG Sub-Committee for TEQIP Phase II activities

April 02: BMSCE Aero Space Club participated in the SAE AERO DESIGN WEST 2014 held at Fort Worth Texas. BMSCE Aero Space is ranked 15th out of 75 teams participated in the world in SAE AERO DESIGN WEST 2014



April 02: Few Faculty members participated in the e-Yantra Symposium organized by IIT, Bombay

April 04: Department of Medical Electronics organized extension Lecture for the students of Medical Electronics and

Computer Science on “Healthcare based projects” proposed by Mr Muralidhar, B S Narayan Memorial Trust Hospital. Three projects were finalized: Android based patient data acquisition system, Hospital management system and Student health card application.



April 04: Department of Mechanical Engineering organized Industrial visit to Ashok Leyland, Hosur

April 04: Department of Management Studies organized Intercollegiate



BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - April 2014

Management Fest “QUEST 2014” from April 04–05, 2014



Healthcare based projects with Mr Navin Govind, founder and CEO of Aventyn, Inc., an award winning Carlsbad, CA based health technology company



April 10: BMSCE students (Mr.Arvind of Chemical & Mr.Sonal of Electronics) won the Karnataka State level TCE TECH BITES Quiz Competition 2014 for the third consecutive time. **BMSCE won this event for four times out of five (2009, 2011, 2012, 2013 & 2014).** The Executive Director, BITES, congratulated and sent a mail that BMS proved to be the best from among 1800 students who took part in the competition from 100 engineering colleges across the state



April 05: Department of Mechanical Engineering organized Industrial visit to Wipro Fluid Power, Bangalore

April 07: Meeting of the 55th BOG

April 10: Department of Medical Electronics organized Video-conferencing for students of Medical Electronics and Computer Science on implementation of



Report by Dr. K. Mallikharjuna Babu, Principal, BMSCE 30.04.2014



BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - April 2014

April 11: Meeting of all M.Tech students, Research Scholars, PG Faculty, TEQIP Nodal Officers/Co-ordinators and Heads of the Department to discuss about the activities initiated under TEQIP II, their progress and any other related issues. Sri.Sharan Padashetty, Officer on Special Duty (OSD) & State Project Co-ordinator, SPFU addressed the meeting

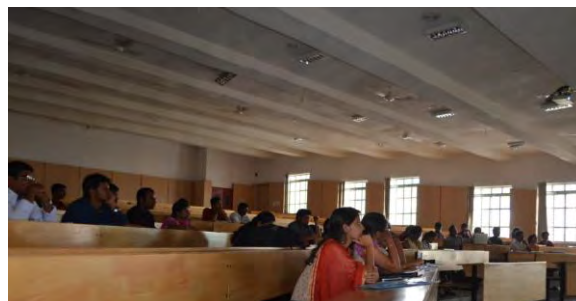


April 11: Department of Management Studies organized Industrial visit to BHEL, Bangalore, for 2nd Semester students

April 12: Department of Chemical Engineering organized a Guest Lecture on “Laser Induced Foaming”. The lecture was delivered by Ms.Poorna Srinath, Technical University of Munich, Germany

April 12: Department of Medical Electronics organized one day Workshop on “Medical

Signal & Image Processing” in “KARMIC-2014” an International Conference of Undergraduate Medical Students held at Kempegowda Institute of Medical Sciences



April 21: Department of Mechanical Engineering organized Guest Lecture on “Thinking Like an Engineer, Problem solving & Creativity”. The lecture was delivered by Prof. Victor Goldschmidt, Emeritus Mech Engg., Purdue University (1964-2000) Distinguished ASHRAE Award Recipient, Hon. Member of IIR, ACAIRE, ASURVAC & AAF

April 21: Department of Mechanical Engineering organized three day Workshop on “Gas Turbine Technology and Current Challenges” from April 21-23, 2014 under TEQIP II



BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - April 2014

April 21: The Department of Medical Electronics signed a MOU with “M/s Indian Institute of Innovation & Research (IIIR)



April 21: Submission of R&D Project proposal on “Optically Active Hybrid Nanomaterial formed by Dyes for the Application in Energy Harvesting Devices” for financial grant from Board of Research in Nuclear Sciences (BRNS). The estimated cost of the project is Rs.25.00 lakhs

April 22: Meeting of the Heads of the Departments to discuss framing of First Year Scheme for the academic year 2014-15

April 22: The proposal titled “Flash Translation Layer” submitted by Mr.B.S.Sachin student of Electronics Engineering to The Wiselab has been accepted for Google Summer of Code 2014. He will be added to the private Google Summer of Code Student Discussion List

April 23: First Meeting of the Internal Quality Assurance Cell (IQAC)

April 23: Department of Mechanical Engineering organized Industrial visit to GTRE, Bangalore

April 24: Meeting of the Heads of the Departments to discuss Curriculum Design & Innovation (first year & higher semesters)

April 24: Second meeting of the Science Forum. Dr.Manjunath Rama Rao, Director and Head, Applied Bio-Technology, Bristol Myers Squibb, Biocon, delivered lecture on "Emerging technologies in drug discovery"

April 24: 123rd birthday celebration of Bhart Ratna Baba Saheb Dr.B.R.Ambedkar

April 25: Department of Medical Electronics organized two day Workshop on “Design of Soft Computing Models using Artificial Neural Networks (ANN) – HANDS on SESSIONS” from April 25-26, 2014 under TEQIP II



April 25: Department of Management Studies organized Guest Lecture on “Environment Concerns and Corporations” for 2nd Semester students. The lecture was delivered by Mr.V.C.Mohan, Deputy General Manager (Environment), Bosch India Pvt., Ltd



BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - April 2014



April 25: Department of Management Studies organized Industrial visit to Reliance Mart, Bangalore



April 26: Department of Management Studies organized one day Workshop on “Recent Trends in HRM” for 2nd semester students. The resource persons were Mr. Manjunath, HR Manager, Shimizu Corporation India Pvt. Ltd., Bangalore, Mr. Renuka Murthy, Manager - HR, Robert Bosch, Bangalore, Ms. Nandita Chatterjee, NLP Coach and Consultant, Bangalore and Mr. P Ramesh Kumar, HR Consultant, Ex Chief General Manager, BMM Group



April 26: Mr.H.R.Sridhar and Mr.Tejaswi Patil, faculty members, Department of MBA won the first place in the “Corporate Campus Connect B-Quiz” conducted by Reva Institute of Science & Management. About 20 teams participated in the event who were from Corporate & Colleges. Prize consisted of a trophy, certificates and a cash prize of Rs.10,000



BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - April 2014



April 28: Department of Civil Engineering in association with NORSAR, Department of Earthquakes and the Environment, NORSAR, Norway organized Indo-Norwegian Training Programme on “Structural Modeling and Non-Linear Analysis for Seismic Vulnerability Assessment of RC Frame Buildings using the Software SAP2000” from April 02 – May 02, 2014 under TEQIP II

April 28: Department of Medical Electronics organized Industry/Hospital visit to NEUROBIOLOGY RESEARCH CENTRE NIMHANS, Bangalore



April 29: The Department of Mechanical Engineering signed a MOU with “M/s Sical Abrasives



April 29: Department of Management Studies & Research Centre, All India Management Schools, Karnataka & Kerala Chapter, Bangalore and Higher Education Forum, Mumbai, jointly organized a Programme on the topic, “Stakeholders Debate – Towards Building Better Higher Education Institution”



BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - April 2014



April 30: Department of MCA organized a lecture on “Essentials of Software Testing”. The lecture was delivered by Mr. Srinivas M, Test Evangelist and Freelance Consultant



April 29: Department of Mathematics & Humanities organized a Guest Lecture on “Professional Ethics and Human Values”. Dr. Rajeedp Manwani, Department of Commerce, Jain University, Bangalore delivered the lecture

April 30: Local Inquiry Committee of VTU visited BMSCE for inspection in connection with granting of affiliation to UG/PG courses for the year 2014-15

April 30: Civil engineering students of 4th and 6th semester have won overall championship shield in 'SAMEEKSHA 2014' held at MSRIT from 28th to 29th April 2014



BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - May 2014

May 03: Department of Industrial Engineering & Management organized a lecture on Machine Tools. The lecture was delivered by Mr.A.Kumar, Avasarala Technologies Ltd., Bangalore.



May 03: Department of Industrial Engineering & Management organized Industrial Visit to Rail Wheel Factory, Bangalore for VI Semester students



May 03: Department of Bio-Technology organized a guest lecture on Renewable Energy Sources. The lecture was delivered by Dr.H.Nagana Gowda, Director, National Centre for Solar Technology, Karnataka Power Corporation Ltd., Bangalore





BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - May 2014

May 03: Felicitation to the employees who superannuated on 30.04.2014

May 04: Eye Camp under National Service Scheme

May 05: Mr.Ajay Gopal, student of VI Semester IM has been shortlisted for the finals of the “Present Around the World (PATW) 2014” contest which is scheduled shortly in New Delhi



May 08: Department of Management Studies organized Faculty Development Programme on “Detailed Statistics for Researchers” from May 08-10, 2014



May 08: Sri.Abhishek Appaji, Faculty, Department of Medical Electronics was

invited as one of the judge for 8th semester project exhibition by the HOD of Electronics Communication Engineering, BNMIT, Bangalore

May 08: Department of Computer Applications organized Industrial Visit to IBM, Bangalore for IV Semester students



May 09: Principal and a team of senior faculty members met Bharath Ratna Prof.Dr.C.N.R.Rao at Jawaharlal Nehru Centre for Advance Scientific Research (JNCASR), Bangalore



BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - May 2014



May 09: Department of Civil Engineering organized Workshop on “Drought Assessment using Advanced Scientific Tools”. Key note address was delivered by Dr.Prakash, Special Director for Karnataka State Drought Monitoring Cell



May 09: Department of Civil Engineering organized a Guest Lecture on “Performance based design of RC structures to achieve

sustainability”. The lecture was delivered by Dr.K.Balaji Rao, Chief Scientist, SERC, Chennai



May 09: Department of Management Studies organized Guest Lecture on “Business Law”. Mr.Anil Kumar, Advocate delivered the lecture

May 09: Department of Computer Applications organized one day Workshop on “Reality of Web Technologies”. The speakers were Mr.Anirban Chatterjee and Mr.Ravi Macha, Team Lead – Qualcomm Account, Telecom Business Unit, TCS, Bangalore





BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - May 2014



May 09: Meeting of the Heads of the Departments to discuss regarding First Year Curriculum

May 10: Department of Computer Science & Engineering organized ACM learning webinar on "The online revaluation: Education for every one" to HODs and Deans

May 12: The Department of Electronics Engineering signed a MOU with Nuvoton



May 12: Department of Industrial Engineering & Management organized Industrial Visit to Scania Commercial Vehicles India Private Ltd., Bangalore for VIII Semester students



May 13: Group picture of the College Council



BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - May 2014



May 13: Group picture of the HODs Council



May 14: Meeting of the Heads of the Departments to discuss regarding organizing of student project exhibition



May 13: Group picture of the Deans Council



May 15: Meeting with the Faculty/Staff of the Department of Medical Electronics



May 13: Group picture of the TEQIP-II Team



May 16: Meeting with Prof.D.H.Rao, Dean (Engg.), VTU, Chief Guest for the Farewell



BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - May 2014

Function for outgoing students of 2013-14 batch



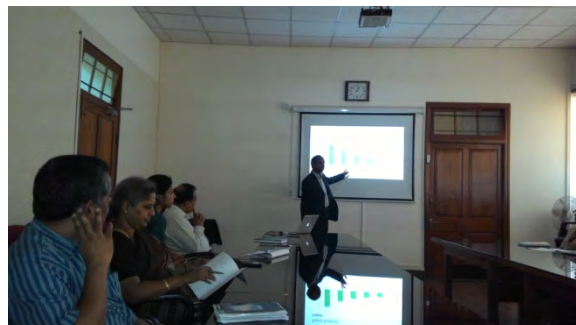
May 16: Farewell Function for outgoing students of 2013-14 batch



May 17: Department of Telecommunication Engineering hosted IET Competition – Project Competition of Electrical Cluster Students



May 17: Wiksate – Review of the Betal report by the HODs Council



May 18: Hostel Day



May 18: Group Picture of Hostel Team



May 21: Department of Electronics Engineering organized one day symposium on “Embedded Systems” under TEQIP II



BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - May 2014



May 21: Final Year Student Project Exhibition was organized in the Campus

May 21: Inauguration of Nuvoton Lab at EC department



May 21: Inauguration of Embedded Systems & Robotics Lab

May 21: Inauguration of Nanopix Lab & signing MOU with Nanopix

May 21: Discussions with Melange Systems for entering into collaboration in the area of wireless communication



May 22: Departments of Electrical & Telecommunication Engineering organized Two day Refresher Course on “Classical Control Theory & Design using Matlab/Simulink” from May 22-23, 2014 under TEQIP-II

May 22: Dr.Jayanthi K Murthy, Associate Professor, Department of Electronics Engineering completed her PhD

May 23: Meeting with India Platform members at Leela Palace



May 23: Meeting with Prof.Bala Gangadhara, Ghent University, Belgium (India Platform)

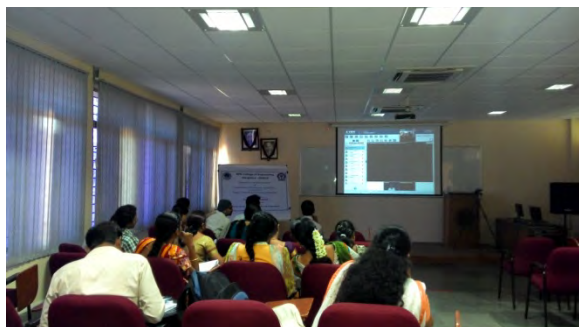


BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - May 2014



May 24: Blended Learning – Online Workshop (with IITB) on Fluid



May 24: Department of Instrumentation Technology organized one day Workshop on “Effective Communication Skills”. Key note address was delivered by Dr.Natarajan, visiting faculty of Harvard University.

May 25: IIIC – ChipEdge valedictory for the second batch of industry professionals in the domain of VLSI



May 26: Meeting of the BOG Sub-Committee for TEQIP-II Phase activities



May 26: Meeting with the faculty of the Departments of CS/IS on enhancing quality in engineering education



May 26: Meeting with IQAC – Faculty for enhancing quality in engineering education (FG136)



BMS COLLEGE OF ENGINEERING BANGALORE
Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - May 2014



Sports Achievements:

May 6: Winners of VTU Bangalore Zone Tennis Tournament

May 27: Meeting of the Dean's Council to discuss various academic matters

May 27: Meeting of the Sub-Committee on the publication of a Coffee Table Book on BMS Institutions to commemorate the completion of 70th year of Glorious Existence of BMS College of Engineering



May 27: Meeting with IQAC – Faculty for enhancing quality in engineering education (FG240)





BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - June 2014

June 05: One Day workshop on “Bloom’s Taxonomy”. The resource persons was Prof.Rajanikanth from MSRIT.

June 05: Sri.Abhishek Appaji, Faculty, Department of Medical Electronics participated in the IEEE EMBS International Conference in Malaysia. His paper has been awarded as Best Paper with 1500RM Voucher

June 10: Inauguration of 3D Printer Lab (Propel Lab-2)



June 16: Department of Mechanical Engineering organized One Week Faculty Development Program on “Theoretical Computational and Applied Mechanics TCAM-2014” from June 16-20, 2014 under TEQIP II



June 16: Department of Chemical Engineering in association with Honey Well, Bangalore organized Two Days Faculty Development Program on “Advanced Training on UniSim Software” from June 16-17, 2014 under TEQIP II



BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - June 2014

June 16: Department of MCA organized Two week ISTE Workshop on Computer Programming (mixed mode) online activities from May 15-June 15, 2014 and face to face interaction from June 16-21, 2014 under the National Mission on Education through ICT (MHRD, Government of India). The Workshop was inaugurated by Prof. Deepak Phatak by introducing the workshop plan and the role of effective communication at IIT, Bombay



June 16: Department of Mathematics organized One Week Faculty Development Program on “Linear Algebra and its applications” from June 16-20, 2014 under TEQIP II



June 18: Department of Chemical Engineering in association with Yokogawa India Limited, Bangalore organized Five Days Training Program on “Process Instrumentation with Distributed Control Systems Concepts” from June 18-24, 2014 under TEQIP II





BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - June 2014



June 18: The Department of Chemical Engineering signed a MOU with Yokogawa India Limited

June 18: Dr.B.Kanmani, Professor & Head, Department of Telecommunication Engineering delivered a webinar on “Introducing Lab VIEW in Engineering Curriculum through the IUCEE Platform. The recording to the webinar is available on: <http://youtu.be/N4LX6F3Ees0>

June 21: The Department of Electronics Engineering organized One Day Workshop – “IESA 2nd Industry-Academia. The lecture was delivered by Mr.Vivek Pawar, CEO, Sankalp Semiconductors India Ltd.

June 21: World Yoga Day was conducted in the Campus. The programme was organized by Swami Vivekananda Yoga Anusandhana Samsthana and co-hosted by the College



June 23: Department of Mathematics organized Two Week International Workshop on “Computational Fluid Dynamics” from June 23-July 05, 2014 under TEQIP II

June 23: Department of Mathematics organized Two Week International Workshop on “Computational Fluid



BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - June 2014

Dynamics” from June 23-July 05, 2014 under TEQIP II

June 23: Department of Mathematics organized Two Week International Workshop on “Computational Fluid Dynamics” from June 23-July 05, 2014 under TEQIP II

June 26: Department of Electrical Engineering & Instrumentation Technology organized One Week Workshop on “Industrial Automation & Control” from June 26-July 02, 2014 under TEQIP II

June 28: Industry-Institute-Interaction was organized in the Campus by Prof. Krishna Vedula, Professor and Dean Emeritus, University of Massachusetts Lowell, USA. The meeting was focused on: Building Industry Academy Collaborations for improving Quality of Engineering Education



June 28: Alumni-Institute-Interaction was organized in the Campus by Prof. Krishna Vedula, Professor and Dean Emeritus, University of Massachusetts Lowell, USA. The meeting was focused on: Building Alumni Academy Collaborations for improving Quality of Engineering Education



June 30: Department of Chemical Engineering organized Three Days Faculty Development Program on “Classical Modeling Concepts & Hands on Training



BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - June 2014

using UniSim Simulation Software” from
June 30-July 02, 2014 under TEQIP II



BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - July 2014

June 30: Department of Electrical & Electronics Engineering organized One Week Workshop on “Industrial Automation and Controls” from June 26 – July 02, 2014 under TEQIP II



June 30: Department of Electrical & Electronics Engineering organized Two Week Workshop on “Analog Circuits for Electronic System Design” from June 30 – July 09, 2014 under TEQIP II. The Workshop was conducted by Texas Instruments India University



July 04: Department of Civil Engineering organized Two Day Workshop on “Application of Modeling Techniques in Environmental Engineering” from July 04 – 05, 2014





BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - July 2014



July 05: Department of MCA organized Two Week ISTE Workshop on “Computer Networking (mixed mode) online activities” from May 22 – June 29, 2014 and face to face interaction from June 30 – July 05, 2014 under the National Mission on Education through ICT (MHRD, Govt. of India)



July 05: Second Graduation Day





BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - July 2014



July 05: Mr.B.S.Sachin, Mr.Vishnu Swaroop, Mr.G.H.Akshay, Mr.N.Kashyap and Mr.J.Dinesh Reddy won the Cadence Design Contest 2014

July 10: Department of Computer Science and MCA organized Two Week ISTE Workshop on “Cyber Security” from July 10-20, 2014. The Workshop was conducted by IIT Bombay under National Mission on Education through ICT (MHRD, Govt. of India)

July 11: Seventh Meeting of the Academic Council



July 14: Department of Telecommunication organized One Day training on the NI-USRP. The training was given by National Instruments



July 14: PENTAGRAM – Mathematical Society of BMSCE, Department of Mathematics organized a value added program on SCILAB for all the Engineering Students from July 14-16, 2014. SCILAB is an open source equivalent of Matlab – a package for numerical computations and simulations

July 16: Meeting of the Heads of the Departments to discuss Academic matters

July 21: Department of Chemical Engineering organized One Week Workshop on “Modeling using MS Office Excel” from July 21-25, 2014 under TEQIP II



BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - July 2014



July 21: Department of MCA organized Two Week MS-Excel Workshop for Office Assistants of the College from July 21 – August 01, 2014

July 22: Department of Bio-Technology organized One Week Faculty Development Programme on “Proteomics & Drug Design” from July 22-26, 2014 under TEQIP II



July 25: BOA- Recruitment of faculty for EE/EC/CS/IS Departments

July 26: BOA- Recruitment of faculty for CH/CHE Departments

July 28: BOA- Recruitment of faculty for CV/AT Departments

July 28: IUCEE Conference Meeting



July 30: Demonstration / training on the “usage of fire extinguishers” was organized in the Campus by M/s Safex Fire Services Pvt., Ltd., for the benefit of the staff members of the College

July 30: BOA- Recruitment of faculty for Mechanical Engineering Department



BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - August 2014

August 01: Installation & Introduction to Multisim in the Department of Telecommunication Engineering

August 04: Meeting of the College Council to discuss regarding First Year Inaugural Function and Orientation Programme

August 04: Installation & Introduction of LabVIEW Software in the Department of Telecommunication Engineering

August 05: Training on QNET DC motor Board for NI Elvis in the Department of Telecommunication Engineering

August 06: Inaugural Function of First Year Classes of B.E./B.Arch – 2014 batch



August 07: Orientation Programme for First Year Students

August 08: Orientation Programme for First Year Students

August 09: Orientation Programme for First Year Students

August 15: Celebration of Independence Day



BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - August 2014



August 16: Department of MCA organized a lecture on "**Preparation & Readiness for Placements**". The lecture was delivered by Mr. Ashvin Bharadwaj, Senior Trainer, Mind Institute

August 18: Department of Civil Engineering organized one week Faculty Development Programme on "Competent Engineering Teaching – Challenges and

Solutions (CETCE 2014) from August 18-22, 2014 under TEQIP II





BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - August 2014



August 18: Inaugural Function of MBA/MCA Classes of – 2014 batch



August 20: Inauguration of Air Quality Monitoring System Lab, Polymer Composites Research Lab & Automotive Engineering Lab (Propel Lab – IV)

August 21: Department of Bio-Technology organized Industry Interaction with GE Health Care and the students of Bio-Technology





BMS COLLEGE OF ENGINEERING BANGALORE

Autonomous College under VTU

REPORT ON COLLEGE ACTIVITIES - August 2014



August 23: Prayer meeting in remembrance of Late Sri.B.S.Narayan

August 26: Department of Medical Electronics organized Texas Instruments Analog Maker Contest 2014

August 27: Department of Mechanical Engineering organized a Guest Lecture on “Basics of Refrigeration and Heat Exchanger (PHE)”. The lecture was delivered by Sri.Razween, HVAC Engineer, Alfa Level Company



REPORT ON FEEDBACK FOR THE YEAR 2013-14

The BMSCE has a well-established feedback system which is operative for last five years. M/s Sunplus Solutions are the service providers.

- a. This online process of feedback on all the teachers on all subjects handled is captured 3 times in a semester.
- b. The feedback on the institution is obtained both from students and faculty once in every semester.
- c. The feedback on HODs and Principal is obtained from the faculty once in a semester.
- d. The feedback from Alumni, Parents and Industries are obtained once in a year.

Report on Feedback – Odd Semester 2013-14

The feedback on faculty performance for the Odd Semester 2013-14 was captured 3 times. The details are provided in the following table:

Feedback	Dates	Hit Ratio	No. of Faculty scored less than 60% (threshold rating)
FB 1	21 st - 24 th Oct 2103	78%	9
FB 2	25 th - 27 th Nov 2013	67%	11
FB 3	16 th -18 th Dec 2013	52%	3

The faculties rated below the threshold rating were counseled on 20.12.13, 24.02.14 & 28.02.14 by the committee constituted for the purpose.

Report on Feedback – Even Semester 2013-14

The feedback on faculty performance for the Even Semester 2013-14 was captured 3 times. The details are provided in the following table:

Feedback	Dates	Hit Ratio	No. of Faculty scored less than 60% (threshold rating)
FB 1	3rd -9th Mar 2014	72%	9
FB 2	7th-11th Apr 2014	71%	4
FB 3	5th -9th May 2014	51%	3

The faculties were counseled on 18.08.14, 20.08.14 by the committee constituted for the purpose.

During the counseling, the faculties were advised to improve their performance in the areas rated below threshold. They were also asked to attend FDPs, STTPs and enhance the domain knowledge by taking up specified courses including MOOCs.

Report on Institutional Feedback - The institutional feedback on all the 22 parameters is above the threshold level of 60%.

**BMS COLLEGE OF ENGINEERING, BANGALORE-19**

(Autonomous College under VTU)

STAFF PATTERN – TEACHING

(As per AICTE norms for Engg. Programmes & COA norms for Architecture)

Civil Engineering

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Civil Engineering	UG	120	2	6	16	24
2	First Year Course	UG	-	0	0	02	02
3	Construction Technology	PG	18	1	1	1	3
4	Environmental Engg.	PG	18	1	1	1	3
5	Transportation Engg.	PG	18	1	1	1	3
6	Total		174	5	9	21	35

Mechanical Engineering

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Mechanical Engineering	UG	180	3	9	24	36
2	First Year Course	UG	-	0	0	12	12
3	Machine Design	PG	18	1	1	1	3
4	Manufacturing Science & Engg.	PG	24	1	1	2	4
5	Total		222	5	11	39	55

Electrical Engineering

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Electrical Engineering	UG	60	1	3	8	12
2	First Year Course	UG	-	0	0	2	2
3	Power Electronics	PG	18	1	1	1	3
4	Total		78	2	4	11	17

Electronics & Communication Engineering

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Electronics Engineering	UG	120	2	6	16	24
2	First Year Course	UG	-	0	0	2	2
3	Electronics Engg.	PG	18	1	1	1	3
4	Digital Communication	PG	18	1	1	1	3
5	VLSI & Embedded Systems (2014)	PG	24	1	1	2	4
6	Total		180	7	9	22	36

Industrial Engineering

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Industrial Engineering	UG	60	1	3	8	12
2	Total		60	1	3	8	12



BMS COLLEGE OF ENGINEERING, BANGALORE-19

(Autonomous College under VTU)

Computer Science

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Computer Science	UG	120	2	6	16	24
2	Computer Science	PG	18	1	1	1	3
3	Total		138	3	7	17	27

Information Science

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Information Science	UG	90	2	5	12	19
2	First Year Course	UG	-	0	0	4	4
3	Networking Engg.	PG	18	1	1	1	3
4	Total		108	3	6	17	26

Telecommunication

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Telecommunication	UG	60	1	3	8	12
2	Total		60	1	3	8	12

Instrumentation

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Instrumentation	UG	30	1	2	5	8
2	Total		30	1	2	5	8

Medical Electronics

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Medical Electronics	UG	30	1	2	5	8
2	Bio-Medical Signal Processing	PG	24	1	1	1	3
2	Total		54	2	3	6	11

Chemical Engineering

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Chemical Engineering	UG	60	1	3	8	12
2	Bio-Chemical Engineering	PG	24	1	1	1	3
2	Total		54	2	4	9	15

Bio-Technology

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Bio-Technology	UG	40	1	2	5	8
2	Total		40	1	2	5	8



BMS COLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous College under VTU)

Architecture

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Architecture	UG	120	6	12	24	42
2	M.Arch. – Habitat Design	PG	20	1	1	1	3
3	Total		140	7	13	25	45

MCA

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Computer Application	UG	60	1	3	8	12
2	Total		60	1	3	8	12

MBA

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Business Administration	UG	120	2	4	12	18
2	Total		120	2	4	12	18

Basic Sciences

SNo	Programme	Level	Intake	Staffing Pattern			TOT
				P	AsP	AP	
1	Physics	UG	NA	1	2	5	8
2	Chemistry	UG	NA	1	2	5	8
3	Mathematics	UG	NA	1	3	10	14
4	Adv. Mathematics	PG	NA	0	1	1	2
5	Humanities (Eng/Kan/Mgt/CIPE)	UG	NA	0	0	5	5
6	Total			3	8	26	37



BMS COLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous College under VTU)

ANNEXURE-IV

Faculty identified for Post Graduate Programmes

SNO	Programme	Total Intake		Prof	AsP	Asst.Prof	Asst.Prof
1	Construction Technology [CV]	18	Dr.Muralidhara	Dr.R.V.Ranganath	Dr.Mangala Keshava	Dr.A.S.Arun Kumar	NA
2	Transportation Engineering [CV]	18		Dr.H.S.Jagadeesh	Vinay Kumar	H.S.Satish	NA
3	Environmental Engineering [CV]	18		Dr.L.Udaya Simha	Dr.C.R.Ramakrishnaiah	Prathima B	NA
4	Machine Design [ME]	18	Dr.K.Guruprasad	Dr.B.S.Suresh	Dr.J.Sharanabasavaraja	Shivashankar Srivatsa	NA
5	Manufacturing Science & Engg [ME]	24		Dr.M.Ramachandra	Dr.S.Srinivas	Dr.B.N.Saradha	Vacant
6	Electronics [EC]	18	Dr.Seshachalam	Dr.B.S.Nagabhushan	Dr.Jayanthi K Murthy & Dr.Veena H.S.	NA	NA
7	Digital Communication [EC]	18		Vacant	Dr.Akhila, Arathi R Shankar & Dr.Prerana Gupta	-	-
8	VLSI & Embedded Systems [EC]	24		Vacant	Dr.Vasundhara Patil & Dr.Jayagowri R.	Jiru Dinesh Reddy	NA
9	Power Electronics [EE]	18	Dr.Deekshit	Vacant	A.Usha, R.S.Geetha	-	-
10	Computer Science [CSE]	18	Dr.H.S.Guruprasad	Dr.M.Indiramma	Dr.G.Varaprasad	Vacant	-
11	Computer Network Engineering [IS]	18	Dr.Gowrishankar	Dr.M.Dakshayini	Dr.R.Ashok Kumar	Sandeep Varma N	NA
12	Bio-Chemical Engineering [CH]	24	Dr.Samita	Vacant	Dr.G.N.Rameshaiah	Dr.Chetan Nayak	Soumen Panda
13	Bio-Medical Signal Processing & Intn [ML]	24	Dr.Suma	Dr.Ram Bhatt	Tushar Kanti & K.Vijayalakshmi	Appaji K Abhishek	NA
14	Habitat Design (M.Arch.)	20	Prof.Madhuchand				
15	Master of Computer Application [MCA]	60	Dr.D.N.Sujatha				
16	Master of Business Administration [MBA]	120	Dr.Satyanandini				



BMS COLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous College under VTU)

MINUTES | ACADEMIC COUNCIL MEETING # 07 | 11.07.2014

MINUTES OF THE SEVENTH MEETING OF THE ACADEMIC COUNCIL HELD ON 11.07.2014 AT 3.00 PM IN THE TRAINING HALL OF THE PLACEMENT CENTER, SPORTS COMPLEX, BMSCE

Members Present:

1	Dr.K.Mallikharjuna Babu	Chairman
2	Dr.K.Rajanikanth	Member
3	Dr.Ajit Kalgahatgi	Member
4	Dr.M.H.Kori	Member
5	Sri.C.P.Ravikumar	Member
6	Sri.Aravind Srinivas	Member
7	Dr.Vinod C. Aralimatti	Member
8	Dr.S.Muralidhara	Member
9	Dr.K.Guruprasad	Member
10	Dr.DSeshachalam	Member
11	Dr.K.J.Rathan Raj	Member
12	Prof. K.R.Madhu Chand	Member
13	Dr.H.S. Guruprasad	Member
14	Dr.B. Kanmani	Member
15	Dr. Narasimha Rao K.	Member
16	Dr.H.N.Suma	Member
17	Dr.SamitaMaitra	Member
18	Dr.SavithriBhat	Rep Member
19	Dr.T.S.Pranesha	Member
20	Dr.Y. Chandrasekhar Reddy	Member
21	Dr.S.Jayanthi	Member
22	Dr.L. Venkatesha	Member
23	Sri.C.K.ChandraBabu	Member
24	Dr.RavishankarDeekshit	Member-Secretary

Leave of Absence granted to:

1	Dr.NavakanthaBhat	Member
2	Dr.T. Srinivas	Member
3	Dr.Gopal Mugeraya	Member
4	Sri.Shivakumar	Member
5	Dr.Vijaya Kumar	Member
6	Dr.Gowrishankar	Member
7	Dr.G.N.Sekhar	Invitee
8	Dr.R.V.Ranganath	Invitee
9	Dr.B.V.Ravishankar	Invitee
10	Sri. Bhagawan Singh	Member

At the outset, the Principal extended a hearty welcome to all the members/invitees to the seventh meeting of the Academic Council. The Principal requested the members to join for a group picture.

MS



BMS COLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous College under VTU)

MINUTES | ACADEMIC COUNCIL MEETING # 07 | 11.07.2014

The Principal then brought the following information to the attention of the members:

1. Dr.RavishankarDeekshit, Professor &Head, Department of Electrical & Electronics Engineering has assumed charge as Dean, Academics in place of Dr.R.V.Ranganath, Professor & Head, Department of Civil Engineering who has been working on deputation as Principal of BMS Institute of Technology, Yelahanka, Bangalore.
2. The following change of Headship were prescribed due to administrative reasons:
 - Dr.S.Muralidhara has assumed charge as Head of the Department of Civil Engineering since January 2014in place of Dr.R.V.Ranganath
 - Dr.S.Jayanthi has assumed charge as Head of the Department of Mathematics since January 2014in place of Dr.G.N.Sekhar.
 - Dr.K.J.Rathan Raj has assumed charge as Head of the Department of Industrial Engineering & Management since March 2014in place of Dr.B.Ravishankar.
 - Dr.S.Gowrishankar was placed of Head of the Department of Information Science & Engineering and Dr.H.S.Guruprasad was placed as Head of the Department of Computer Science & Engineering during May 2014

The council welcomed the new members and placed on record its appreciation for the service rendered by the outgoing members.

Agenda Item No.1: Confirmation of the Minutes of the Sixth AC Meeting held on 24.05.2013

The minutes of the Sixthmeeting of the Academic Council held on 24.05.2013 were confirmed.

Agenda Item No.2: Action taken report on the decisions in Sixth AC meeting held on 24.05.2013

The Council noted the Action taken report on its decision in the previous meeting held on 24.05.2013.

1. The Dean-Academic informed that during the alumni meet the feedback of alumni on curriculum is gathered. The feedback is duly considered for appropriate inclusions in the curriculum.



BMS COLLEGE OF ENGINEERING, BANGALORE-19

(Autonomous College under VTU)

MINUTES | ACADEMIC COUNCIL MEETING # 07 | 11.07.2014

2. The Principal brought to the notice of the members that the Management has been stressing the need to develop a strong alumni network and hence established an exclusive BMSCE Alumni Association. The Association is making efforts to create a corpus fund to the tune of rupees ten crores in the near future.

Suggestion:Sri.Arvind Srinivas opined that alumni relations could be further strengthened with the usage of communication modes such as Twitter, Linkedin etc. The Principal informed online network medium including Twitter and Linkedin and others are being extensively used to connect BMSCE alumni with their alma-mater.

3. The Principal informed the council that an Internal Quality Assurance Cell (IQAC) has been created to meet the following objectives:
 - a) To develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution.
 - b) To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

Dr.K.R.Suresh, Professor, Dept of Civil Engineering has been nominated as its Director.

4. The Principal informed the members regarding the proposal to have an Alumni and Industry Advisory Board for each department to provide input on academic matters.
5. The Principal appraised the Council on his visit to Indianapolis, USA (15-18 June, 2014) to attend the Annual Conference ASEE (American Society for Engineering Education) and other meetings had on the sidelines of the visit.

The Council appreciated the initiatives taken.

Agenda Item No.3: A brief report on the Academic Activities for the Period from May 2013 – June 2014

The report on the academic activities of the Institution for the period from May 2013 – June 2014 presented by the Principal was well received and appreciated by the Council (**Annexure I**). While on the subject, the Principal informed the members for the period from previous AC meeting a total of 55 research scholars have registered for the PHD in various BMS research centres.



BMS COLLEGE OF ENGINEERING, BANGALORE-19

(Autonomous College under VTU)

MINUTES | ACADEMIC COUNCIL MEETING # 07 | 11.07.2014

While on the subject, the following opinions were shared:

1. The Council was highly appreciative of the unique distinction achieved by BMSCE in being one the first Institutions in India identified by National Board of Accreditation for evaluation under Tier-I NBA Accreditation Washington accord. The Council also acknowledged the contribution of all the stakeholders in this regard.
2. The Heads of the Departments presented a brief report of their respective departments highlighting the achievements of the faculty and students in academic and research activities for the period subsequent to the previous academic council meeting.
3. The Council suggested inviting the student representatives to the Meetings of the Academic Council with a view to seek their views on related issues.
4. Dr.Kori suggested having more number of joint collaborative projects in select areas of mutual interest involving the Basic Science Departments.
5. The Principal informed the members that the following International conferences are proposed to be conducted during 2015 to commemorate seven decades of Journey of BMSCE:
 - a) International Conference on Transformations in Engineering Education (ICTIEE) - Indo US Collaboration for Engineering Education (IUCEE).
 - b) India Platform
 - c) Micro-perspectives for Decentralized Energy Supply in association with Technische Universitat Berlin (Centre of Technology and Society)
 - d) IACC 2015 in association with IEEE, Bangalore
 - e) Telecommunication Engineering Education
 - f) Technologies for preventive health care
 - g) Business Ecosystem – Issues, Challenges and Opportunities

The Principal personally extended invitation to the Members of the Council to provide advice/necessary support to make the event successful.

Agenda Item No.4: Details of the BOS Meetings held as on Date

The details of BOS meetings held as on date were noted **(Annexure II)**



BMS COLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous College under VTU)

MINUTES | ACADEMIC COUNCIL MEETING # 07 | 11.07.2014

Agenda Item No.5: Details of the BOE Meetings held as on Date

The details of BOE meetings held as on date were noted (**Annexure III**)

Agenda Item No.6: Curriculum - Overview and Innovations

The Council noted the guidelines adopted for framing /revision of curriculum (Academic Year 2014-15 onwards). While on the subject, Dr.Rajinikanth suggested to explore the possibility of students gaining extra credits for undertaking innovative projects during vacation either in the college or in leading institutions both in India and even abroad. This, he hoped would encourage bright students to take up research endeavors/projects during vacation. This would also help the students to develop high final quality projects.

Agenda Item No.7: Approval of First Year Curriculum

The Dean, Academics briefed the members regarding some of the important changes that have been proposed in the first year Curriculum (2014-15).

The Council after detailed discussions, approved the revision with specific reference to the following points:

1. The Question paper pattern need not be provided in the syllabus.
2. Uniformity in terms of units (five units) to be maintained in all first year courses. All Courses should have LTPS format.
3. The co-labs to be brought down to 2 or 3 creative experiments which would be value add to the classroom delivery.
4. The evaluation pattern for all the courses shall be decided/worked out through the respective BOS/BOE.
5. For the course titled "Biology for Engineers", the Council was appraised of the relevance of the various curricular components of the syllabus to the different branches as shown below.
 - a. Unit I - Electrical Cluster, Chemical & Biotechnology
 - b. Unit II - CS , IS and Biotechnology
 - c. Unity III - All branches of Engg.
 - d. Unit IV - ME, IM and Civil
 - e. Unit V - All branches of Engg.

The council noted and appreciated the same.

The approved First Year Curriculum for the Academic Year 2014-15 is provided **in Annexure IV**



BMS COLLEGE OF ENGINEERING, BANGALORE-19

(Autonomous College under VTU)

MINUTES | ACADEMIC COUNCIL MEETING # 07 | 11.07.2014

Agenda Item No.8: Rules & Regulations for B.E. & B.Arch. programmes (Amended | August 2014)

The Council approved the draft Rules and Regulations for B.E. and B.Arch programmes (Amended | August 2014) with modifications as provided in **Annexure V**

The approved Rules and Regulations for B.E. and B.Arch programmes (Amended | August 2014) is provided in **Annexure VI**

Agenda Item No.9: Result Analysis (2009-2013 batch)

The Council suggested making analysis of the total number of students admitted (2009) against the number of student passed out in each of the programmes (2013). A similar exercise was suggested for the students directly admitted to their third semester under lateral entry scheme.

Agenda Item No.10: Academic Calendar for the year 2014-15

The academic calendar for the year 2014-15 was approved by the Council. The Council authorized the Principal to make necessary changes in the calendar if need be. The approved Calendar of Events for the Academic Year 2014-15 is provided in **Annexure VII**.

Agenda Item No.11: Ratification of academic/administrative issues

The academic issues requiring review and ratification by the Council were placed before the Council. The subject matter and decision of the Council are provided in the form of a table at **Annexure VIII**.

The meeting ended with thanks to the Chair.

Dean(Academic) &
Member Secretary of AC

PRINCIPAL &
Chairman of AC



BMS COLLEGE OF ENGINEERING

Autonomous College under VTU | Aided by GOK | Approved by AICTE | Accredited by NBA

Phone : +91-80-2662 2130-35
Fax : +91-80-2661 4357
e-mail : principal@bmsce.ac.in
URL : www.bmsce.ac.in

ESTD. 1946

Date: 08.08.2014

To
The Director
National Assessment and Accreditation Council [NAAC]
PO Box No.1075, Nagarabhavi
Bangalore 560 072

Dear Sir,

Sub: Submission of Annual Quality Assurance Report
(AQAR) 2013-14 in respect of BMS College of
Engineering, Bangalore 560 019
Ref: This office letter dated 16.04.2014 regarding
constitution of BMSCE-IQAC

Greetings from BMS College of Engineering, Bangalore 560 019.

Preamble

BMSCE has been accredited by National Assessment & Accreditation Council [NAAC] with CGPA of 3.41 on four point scale at 'A' grade valid from 05.01.2013 and upto 04.01.2018.

I take this opportunity to once again sincerely thank your goodself and all the officials of NAAC for their excellent co-operation and support extended to the Institution during the entire process.

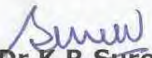
BMSCE – IQAC

As per the guidelines of NAAC, an Internal Quality Assurance Cell [IQAC] has been constituted under the Chairmanship of Principal, BMSCE as a post-accreditation quality sustenance and enhancement measure. Dr.K.R.Suresh, Professor, Department of Civil Engineering has been nominated as Director of IQAC.

The Institution has prepared the first Annual Quality Assurance Report [AQAR-2013-14] as per prescribed guidelines. The AQAR report alongwith necessary enclosures is submitted herewith for kind information.

Kindly acknowledge the same and oblige.

With warm regards,


Dr.K.R.Suresh
Director, IQAC


Dr.K.Mallikharjuna Babu
Principal & Chairperson, IQAC



BMS COLLEGE OF ENGINEERING, BANGALORE 560 019
(Autonomous College under VTU)

ANNUAL QUALITY ASSURANCE REPORT [AQAR] 2014-15

CONTENTS

Part - A	
Details of the Institution	01
IQAC Composition & Activities	05
Part – B	
Criterion I – Curricular Aspects	10
Criterion II – Teaching, Learning & Evaluation	12
Criterion III – Research, Consultancy and Extension	17
Criterion IV – Infrastructure & Learning Resources	25
Criterion V – Student Support & Progression	27
Criterion VI – Governance, Leadership & Management	33
Criterion VII – Innovations & Best Practice	41
Annexures	
Details of faculty publications with impact factor 2013-14	44
Details of ongoing (external) Research projects	46



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



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

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>



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

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 ☐



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

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)



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

2. IQAC Composition and Activities

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



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

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
------------	-----	---------------	----	----------	----	-------	----	-------------------	----

(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.



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

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



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

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.



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

Plan of Action	Achievements
Further strengthen the campus Facility / Support System	<p>The Institution is augmented with</p> <ul style="list-style-type: none">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. <p>Details are provided at 6.3.5</p>

2.15 Whether the AQAR was placed in statutory body Yes

Management ☒

Syndicate ☐

Any other body ☐



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

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*
(On all aspects)

Feedback from stakeholders* <i>all aspects</i>)	Alumni	<input checked="" type="checkbox"/>	Parents	<input checked="" type="checkbox"/>	Employers	<input checked="" type="checkbox"/>	Students	<input checked="" type="checkbox"/>
Mode of feedback :	Online	<input checked="" type="checkbox"/>	Manual	<input type="checkbox"/>	Co-operating schools (for PEI)		<input type="checkbox"/>	



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

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



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

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		Professors		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



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

- 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
---	---	---

2.10 Average percentage of attendance of students

85%



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

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



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

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.



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

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	-



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

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



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

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



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

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**



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

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



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

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



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

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



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

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



BMS COLLEGE OF ENGINEERING, BANGALORE-19

(Autonomous College under VTU)

The Annual Quality Assurance Report (AQAR) of the IQAC 2013-14

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 of 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



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

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 (≥ 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

- Central Library is equipped with latest reading resources with both print and electronic forms.
- The Library is computerised using LIBSYS software with all house-keeping modules.
- All the reading resources are bar coded
- Complete resources have been kept on open access system
- 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.
- The Centre has created good ambience for accommodating to around 500 users at a time.
- 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



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

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



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

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.



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

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

No	%
3241	71

Men

Women

No	%
1323	29



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

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].



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

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.

- a) Mr. Paritosh J of III Sem Telecom attended one day successful leadership workshop on 30th September 2013 at Dayanada Sagar Institute.
- b) Dr. Shubha B.N was invited by NEN to attend the Master trainer programme on 30th & 31st October 2013 at NEN, Bangalore.
- c) There was an Idea Boom Box Competition held on 25th November 2013 at BMSCE.
- d) 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/-
- e) Two students visited the Kanara small scale industries association on 8th Feb 2014 as a part of ideation trip
- f) 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



BMS COLLEGE OF ENGINEERING, BANGALORE-19

(Autonomous College under VTU)

The Annual Quality Assurance Report (AQAR) of the IQAC 2013-14

Details of Training Provided to Students

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

5.8 Details of gender sensitization programmes

- a) 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"
- b) 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
- c) 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
----------------------------------	----	----------------	--	---------------------	----

Cultural: State/ University level	13	National level		International level	
-----------------------------------	----	----------------	--	---------------------	--



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

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
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



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

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

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



BMS COLLEGE OF ENGINEERING, BANGALORE-19

(Autonomous College under VTU)

The Annual Quality Assurance Report (AQAR) of the IQAC 2013-14

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];



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

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



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

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



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

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



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

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.



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

6.4 Welfare schemes for

Staff Members	20
Students	12

6.5 Total corpus fund generated

145 Lakhs

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

Yes

For PG Programmes

As per VTU

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.



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

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.



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

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



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

- 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

No

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)



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

Important Student Achievement

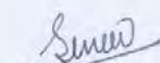
- In the Boeing IIT National Aero-modelling Competition held at Delhi during June 2014, BMSCE Aero Space Club emerged 2nd out of 170 teams across India including IITs & NITs
- BMSCE Aero Space participated and secured 15th position in SAE AERO DESIGN WEST 2014 held at Fort Worth Texas. BMSCE Aero Space 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
PRINCIPAL
B.M.S. COLLEGE OF ENGINEERING
BANGALORE-560 019.



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

SNo	Name of the Faculty	Dept	Name of the Journal	Type of Journal	Title of the Paper published	Impact Factor
1	Dr.K.Vijaya Kumar	MCA	Pattern Recognition Journal (Elsevier Science Journal)	INT	Computational and Space Complexity Analysis of SubXPCA January 2013	2.292
2	Dr.S.Muralidhar & Others	CV	Engineering Fracture Mechanics (Elsevier Publishers)	INT	Fracture Studies on 3D geometrically similar beams 2012	1.353
3	Dr.S.Muralidhar & Others	CV	Engineering Fracture Mechanics (Elsevier Publishers)	INT	Size independent fracture energy from fracture energy release rate in plain concrete beams 2012	1.353
4	Dr.G.Varaprasad	CV	International Journal of Communication and Distributed Systems (Inderscience)	INT	Network Lifetime Analytical Model for Node Disjoint Multipath Routing in Wireless Sensor Networks	1.02
5	Dr.K.Narasimha Rao	CV	CIIT International Journal of Artificial Intelligent Systems and Machine Learning	INT	Implementation of input parallel output series QRC fed DC servo drive January 2013	0.763
6	Dr.G.Varaprasad and others	CS	IEEE Sensor Journal	INT	High Stable Power Aware Multicast Algorithm for Mobile Adhoc Networks	1.58
7	Dr.M.N.Mamatha and others	IT	CIIT International Journal of Artificial Intelligent Systems and Machine Learning	INT	Voice Operated Wheelchair for the Disabled	0.763
8	Smt.Dakshayini R Patil and Dr.Mamatha P Raj	AT	Urban India, a Journal of the National Institute of Urban Affairs	NAT	Urban Public Space: Exploring the semantics – Brief over-view of models, theories, interpretations and experiential exponents	-
9	Dr.N.M.Srivatsa Bettahalli and others	CH	ACTA BIOMATERIALIA	INT	Corrugated round fibers to improve cell adhesion and proliferation in tissue engineering scaffolds	5



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

SNo	Name of the Faculty	Dept	Name of the Journal	Type of Journal	Title of the Paper published	Impact Factor
10	Dr.G.Varaprasad Associate Professor	CS	International Journal of Communication Systems (Wiley)	INT	Stable Routing algorithm for Mobile Ad Hoc Networks using Mobile Agent	0.72
11	Smt.Veena N Hegde	IT	Journal of Medical Imaging and Health Informatics (JMIHI) Publisher	INT	A Review on ECG Signal Processing and HRV Analysis. June 2013	0.642
12	Dr.Chandasree Das	EE	Materials Research Bulletin (Elsevier)	INT	Electrical Switching behavior of amorphous Ge ₁₅ Te _{85-x} thin films with phase change memory applications. September 2013	1.913.
12	Dr.Chandasree Das	EE	Solid State Commn (Elsevier)	INT	Evidence of an intermediate phase in a quaternary Ag bearing telluride glass system using alternating DSC. October 2013	1.534
13	Dr.K.Narasimha Rao	IT	CIIT International Journal of ARTIFICIAL INTELLIGENT SYSTEMS AND MACHINE LEARNING. (Thomson Reutor)	INT	Modeling and simulation of closed loop controlled interleaved three switch buck converter Fed DC servo Drive. November 2013	1.261
14	Dr.S.Muralidhara	CV	Current Science (Indian Academy of Sciences)	INT	Analysis of Acoustic Emission Data to estimate true fracture energy of plain concrete. November 2013.	0.935
15	Dr.G.Varaprasad	CS	IET Microwaves, Antennas and Propagation (IET Publications)	INT	Importance of On-Demand Modified Power Aware DSR Protocol in MANETs. January 2014.	0.836
16	Dr.G.Varaprasad	CS	IET Intelligent Transport System. (IET Publications)	INT	Detection of Potholes in Autonomous Vehicle. January 2014.	0.959
17	Dr.G.Shanker	R&D Chemis try	Liq. Cryst (Liquid Crystals Publisher: Taylor & Francis)	INT	Self-Organization Properties of Homomeric Dipeptides Derived from Valine	1.959



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

Details of On-Going Projects [External]

SNo	DEPT	Name of the Faculty	PROJECT TITLE	DETAILS		
				Agency	Date of Sanction	Amt in Lakhs
1	MCA	Dr.K.Vijay Kumar	Teacher Recruitment Modelling using Partitioned Based Data Mining Techniques	UGS	March 2014	5.49
2	EE	Dr.Chandasree Das	Investigation on materials dependence of electrical switching phenomenon memory applications"	SETB	03.09.13	18.90
3	PHY	Dr.T.S.Pranesha	Modelling Atmospheric Pollution and Networking (MAPAN)	IITM, Pune	30.08.13	20.32
4	CS	Dr.Uma Devi	Trends and Challenges of Android Computing	AICTE	29.07.13	0.50
5	ME	Dr.M.Ramachandra Dr.S.Srinivas	Evaluation of Machining Characteristics of Squezy Cast Aluminum Matrix Composite Modernization of Digital Communication Lab	AICTE RPS	15.07.13	10.75
6	ME	Dr.M.Ramachandra Dr.S.Srinivas	Establishing Centre of Excellence in Advanced Materials Research	TEQIP	12.07.13	500.00
7	TCE	Dr.B.Kanmani	Modernisation of Digital Communication Lab	AICTE	12.07.13	9.17
8	TCE	Dr.B.Kanmani	Study Design Implementation and performance Analysis of Wireless Communication Concepts	AICTE	04.06.13	100.00
9	CH	Dr.Chetan A Nayak	Seed Money for Young Scientist for Research	VGST	19.03.13	5.00
10	CS	Dr.G.Varaprasad	Wireless Communication Lab	AICTE	04.02.13	8.30



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

11	ME	Sri.C.K.Chandrababu Dr.G.Varaprasad Dr.H.B.Nagaraj	"Instrumentation and Field Studies on In-situ Extraction of Tender Coconut Water from Coconut Tree	DST	30.10.12	20.00
12	CV	Dr.K.R.Suresh	Advanced Irrigation Scheduling for Sustainable Development	VTU	05.05.12	10.00
13	BT	Dr.M.Rajyalakshmi Dr.Savithri Bhat	A Study on the expression of Sum0 (Small Ubiquitin like Modifiers) and SUMoylation Pathway genes	VTU	05.05.12	5.00
14	ME	Sri.C.K.Chandrababu Dr.G.Varaprasad Dr.H.B.Nagaraj	Instrumentation and Field Studies on Extraction of Tender Coconut water from Coconut Trees	AICTE	15.05.12	7.30
15	CS	Dr.G.Varaprasad	"Violation Detection Method for Vehicular Ad Hoc Networking"	VGST, GOK	14.02.12	04.00
16	ME	Dr.K.Guruprasad	Modernization of Machine Shop	AICTE	03.11.11	8.00
17	IM	Dr B Ravishankar	Benchmark and Critical Analysis of Noise to design comfortable work zones	AICTE	22.11.11	9.50
18	ME	Dr L Ravi Kumar	Damping and Stiffness Characteristics of Non-Newtonian Fluids in Squeeze Film Dampers used as External Medium	AICTE	24.11.11	10.75
19	TC	Dr B Kanmani	Signal Processing in Engineering Education	AICTE	31.03.11	9.00
20	IM	Dr.K.J.Rathanraj	CAS Grants Research promotion	AICTE	31.03.10	12.00
21	CV	Dr H S Jagadeesh Sri.H.S.Satish	Comprehensive Transportation Planning For the Selected Zones in Bangalore City Development of Pavement Deterioration Models for Urban Roads	MOUD	29.11.10	25.00
22	ME	Dr L Ravi Kumar	Effects of Temperature & Damping	AICTE	23.12.10	16.94
23	CV	Dr.R.V.Ranganath	Rheology of Self Compacting Concrete	AICTE	26.02.07	5.50
Total Amount in Lakhs						821.42



BMS COLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous College under VTU)

Annexure-VII

DETAILS OF CANDIDATES SELECTED AGAINST BACKLOG

SNo	Name of Candidate	Designation & Department	Report from District Supdt. of Police	Report from District caste verification officer
1	Srinivasamurthy A	Asst. Professor, Civil	Yes	Yes
2	Sadashiva M	Asst. Professor, Mech	No	Yes
3	Ramesh Mallappa Chalakapore	Asst. Professor, Mech	Yes	Yes
4	N Kavitharani	Asst. Professor, IEM	Yes	Yes
5	Venkatesh	F.D.A, Office	No	Yes
6	Srinivasa C V	Group-D, Office	No	Yes
7	Sanjeev Kumar	Group-D, Office	No	Yes
8	Boraiah B	Group-D, Office	No	No
9	Nayaka T V	Helper, Civil Engg.	Yes	Yes
10	Lakshman	Helper, Mech. Engg.	No	No
11	Srinath N	Helper, Mech. Engg.	Yes	Yes

(The Board also noted that there were no eligible applicants in respect of two Associate Professor Posts (Civil and Electrical))

LIST OF CANDIDATES SELECTED & APPOINTED TEACHING

DEPARTMENT OF CIVIL ENGINEERING

SNo	Name	Post	Remarks
1	Dr.Sutapa Hazra	Assistant Professor	Will be reporting on 08.09.2014

DEPARTMENT OF MECHANICAL ENGINEERING

SNo	Name	Post	Remarks
1	Dr.J.Sharanabasavaraj	Associate Professor	Reported
2	Sri.Shivashankar R Srivatsa	Assistant Professor	Reported
3	Sri.Shashiraj	Assistant Professor	Reported
4	Sri.Shravan Kumar	Assistant Professor	Reported
5	Sri.SharanbasappaC S	Assistant Professor	Yet to Report

DEPARTMENT OF ELECTRICAL ENGINEERING

SNo	Name	Post	Remarks
1	Dr.Chandasree Das	Associate Professor	Reported
2	Smt.Sharmila N	Assistant Professor	Yet to Report
3	Sri.Harisha	Assistant Professor	Yet to Report
4	Smt.Chaitanya L	Academic Intern	Reported

DEPARTMENT OF ELECTRONICS ENGINEERING

SNo	Name	Post	Remarks
1	Dr.Vasundara Patel	Associate Professor	Reported
2	Dr.K.R.Sudhindra	Associate Professor	Reported
3	Dr.R.Jayagowri	Associate Professor	Reported
4	Dr.Veena M.B.	Associate Professor	Reported
5	Smt.Archana H.R.	Assistant Professor	Reported
6	Smt.Bhavana H T	Academic Intern	Reported
7	Smt.Sanjana T	Academic Intern	Reported
8	Smt.Akkamahadevi M.B.	Academic Intern	Reported

DEPARTMENT OF INDUSTRIAL ENGGT. & MANAGEMENT

SNo	Name	Post	Remarks
1	Smt.Disha M Nayak	Assistant Professor	Reported
2	Sri.Mayur Appaiah	Assistant Professor	Reported

DEPARTMENT OF COMPUTER SCIENCE

SNo	Name	Post	Remarks
1	Sri.Pani Mozhi	Assistant Professor	Offer letter issued
2	Sri.Kayavizhy N	Assistant Professor	Offer letter issued
3	Smt.Harshitha R	Assistant Professor	Offer letter issued
4	Smt.Rekha G. S.	Assistant Professor	Offer letter issued

DEPARTMENT OF INFORMATION SCIENCE

SNo	Name	Post	Remarks
1	Dr.Gowrishankar S	Associate Professor	Offer letter issued
2	Smt.Shwetha K	Assistant Professor	Reported
3	Dr.Sandeep Verma N	Assistant Professor	Reported
4	Smt.Indra R	Academic Intern	Reported

DEPARTMENT OF TELECOMMUNICATION ENGINEERING

SNo	Name	Post	Remarks
1	Smt.Archana K.	Assistant Professor	Reported
2	Sri.Prasanna Kumar M.K.	Assistant Professor	Reported

DEPARTMENT OF MEDICAL ELECTRONICS

SNo	Name	Post	Remarks
1	Dr.Tushar Kanti Bera	Associate Professor	Reported
2	Prof.Gundu H.R.Rao	Adjunt Professor	Reported

DEPARTMENT OF ARCHITECTURE

SNo	Name	Post	Remarks
1	Sri.Shantesh Kelveker	Assistant Professor	Reported
2	Smt.Sowmya Muralidhar	Assistant Professor	Reported
3	Smt.Deepti Gupta	Assistant Professor	Reported
4	Smt.Yogeshwari K	Assistant Professor	Reported
5	Smt.Mithila Manolkar	Assistant Professor	Yet to report
6	Sri.Virendra Kumar K.N.	Assistant Professor	Yet to report

DEPARTMENT OF CHEMICAL ENGINEERING

SNo	Name	Post	Remarks
1	Sri.Sirisha Nallakukkalu	Assistant Professor	Reported
2	Sri.Ravi Kumar	Assistant Professor	Offer letter issued
3	Sri.Soumen Panda	Assistant Professor	Offer letter issued

DEPARTMENT OF PHYSICS

SNo	Name	Post	Remarks
1	Dr.Latha Kumari	Assistant Professor	Reported

DEPARTMENT OF CHEMISTRY

SNo	Name	Post	Remarks
1	Dr.Vijayendra Shetti	Assistant Professor	Reported

DEPARTMENT OF MATHEMATICS

SNo	Name	Post	Remarks
1	Dr.Sujatha N	Assistant Professor	Reported
2	Sri.B.Mallikarjuna	Assistant Professor	Reported

R&D CENTRE

SNo	Name	Post	Remarks
1	Dr.Gurumurthy Hegde	Associate Professor	Offer letter issued

LIST OF CANDIDATES (NON-TEACHING) SELECTED & APPOINTED

SNo	Name	Post	Dept	Remarks
1	Sri.Upendra Bhide	H R Manager	Office	Reported
2	Sri.Krishna Murthy K.T.	Research Asst.	R&D	Reported
3	Sri.Satyanarayana Reddy	Technical Asst.		Reported
4	Sri.Anil Kumar S.V.	Attender		Reported
5	Sri.Chittappa	Site Engineer	Building Section	Reported
6	Sri.Sudheer Shenoy	Instructor	EC	Reported
7	Sri.Suresh M	Peon		Reported
8	Sri.Manjunath L	Asst. Instructor	MCA	Reported
9	Sri.Narasimha Murthy D.N.	Attender	MBA	Reported
10	Sri.Anil Venkatesh	A/V Technician	College	Reported
11	Sri.Krishna Murthy H.K.	Office Asst.	EST	Reported
12	Smt.Shobha R	Office Asst.	Accounts	Reported
13	Smt.Roopa H	Office Asst.		Reported
14	Smt.Jayashree Kumari	Office Asst.	IS	Reported
15	Smt.Lakshmi P	Office Asst.	COE	Reported
16	Smt.Anushree R.K.	Office Asst.	Academic	Reported
17	Smt.Preethi N	Office Asst.	Dean (First Year) Office	Reported
18	Sri.Manjunath H.M.	Electrician	Building Section	Reported
19	Smt.Hazel Mary John	APED	Sports	Reported
20	Sri.Roopesh A.K.	Helper		Reported
21	Sri.Suresh B	Driver	Office	Reported

B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II

TENTH MEETING OF THE SUB-COMMITTEE OF BOG



MINUTES

DATE : 26.05.2014

VENUE: BOARD ROOM

B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II

TENTH MEETING |26.5.2014|SUB-COMMITTEE OF BOG|MINUTES

MEMBERS PRESENT:

1. Prof. D. Thukaram, Chairman
2. Sri. M. Krishnaswamy, Member
3. Dr. K. Mallikharjuna Babu, Principal & Convenor

NODAL OFFICERS/CO-ORDINATORS/PRINCIPAL INVESTIGATORS PRESENT:

1. Dr. G. N. Sekhar, TEQIP Co-ordinator I
2. Dr. L. Ravikumar, TEQIP Co-ordinator-II
3. Dr. K. R. Suresh, Nodal Officer – Financial Aspect
4. Dr. H. S. Guruprasad, Nodal Officer - Academic Activities
5. Dr. S. Gowrishankar, Nodal Officer - Academic Activities
6. Dr.M.S.Dharmaprakash, Nodal Officer-Procurement
7. Dr. K. Guruprasad , Nodal Officer - Equity Assurance Plan Implementation
8. Dr. C. Lakshminarayana, Nodal Officer - Equity Assurance Plan Implementation
9. Dr.M.Indiramma, Co-ordinator-IIIC
10. Dr.M.C.Sampath Kumar, Nodal Officer- CVEM
11. Dr. M. Ramachandra, Principal Investigator & Co-ordinator, CoE
12. Dr.S.Srinivas, Principal Investigator, CoE
13. Dr. Chandashree Das, Principal Investigator, CoE
14. Dr.M.Murugendrappa, Principal Investigator, CoE

MEMBER PRESENT ON INVITATION:

1. Dr.Martin Jebaraj, Director-R&D

The Principal and the convenor of the sub-committee of BOG welcomed the members for the meeting.



1. Ratification of Minutes of 9th Meeting of BOG sub-committee by the BOG

The convenor of the sub-committee informed the members that the Minutes of the 9th Meeting of BOG sub-committee are ratified and approved by the BOG in its 55th meeting held on 7.4.2014.

2. Appointment of staff to TEQIP Office

The committee approved the appointment of Smt. H. Roopa as office assistant to look after the accounts of TEQIP II & COE with a consolidated salary of Rs.10,000/- pm with applicable PF and ratified the OM [Annexure-1]. The committee also noted that she has reported to duty on 16.4.2014.

The committee approved the appointment of Smt. S. Rekha as office assistant for COE with a consolidated salary of Rs.10,000/- pm with applicable PF and ratified the OM [Annexure-2]. The committee also noted that she has reported to duty on 19.5.2014.

3. Approval to the faculty/staff attending programs.

- a) The committee took a note of the consolidated list of approvals of the sub-committee obtained by circulation for deputing faculty/students and for conducting workshop/symposium/training programs under TEQIP II/COE and approved the same [Annexure-3].
- b) The committee took a note of the details of faculty/staff members seeking approval for attending various programs under TEQIP II/COE and approved the same. [Annexure-4], While on the subject, the Chairman of the committee opined that the theme of conference/workshop/training program shall be relevant to the participating faculty's domain (area of specialization) to achieve better outcomes.
- c) The committee took a note of the representation of Sri. Abhishek M.Appaji seeking financial assistance to present his paper in the 2014 IEEE EMBS International Student Conference to be held at Malaysia on 5.6.2014 and informed to process the same as per norms under college account since the same is not permissible under TEQIP-II as per the earlier SPFU's Communication received.

4. NPIU Initiative for Academic collaboration between TEQIP institutions and IITs:

The committee noted the communication from the Professor-In-Charge, KIC, IIT-H regarding the NPIU's initiative for Knowledge Incubation under TEQIP [KIT] and the letter of intent for academic collaboration for quality enhancement sent by the TEQIP Co-ordinator- I vide Mail dated 29.4.2014[Annexure- 5] was approved and ratified.

5. 3rd edition of survey on Industry – Academia collaboration in Technical institutes:

The committee noted that the College is participating in the 3rd edition of mandatory survey on Industry – Academia collaboration in Technical institutes in collaboration with Confederation of Indian Industries (CII) by filling the necessary entries online through AICTE web portal and the last date for submitting entries is 30th June 2014.

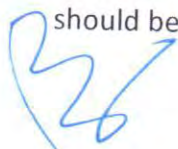
The committee further noted that the TEQIP Co-ordinator-II, Dr.L.Ravikumar and Dr.Indiramma, Co-ordinator, IIIC are entrusted with the responsibility of facilitating and completing the online entries.

6. Institutional Performance Assessment

The committee noted that as per the details available on NPIU website, the college has complied all the 10 performance indicators set for TEQIP II institutions and further the institutions are asked to meet another set of 10 additional indicators latest by 31st October 2014[Annexure-6].

7. Exhibition of projects of eighth semester BE students under TEQIP II activities

The committee noted that an exhibition of final year student projects was conducted in respective departments of the college on 21.5.2014 and the departments have invited one professional from the industry and one from academia as judges. The TEQIP Co-ordinator-I informed the committee that the three best projects from each department identified by the judges would be invited to compete at the institution level and three best projects among them would be felicitated. The committee appreciated and ratified the actions initiated and further expressed that the conduction of project exhibition should be a regular feature.



The Principal informed the committee that henceforth, the conduction of student project exhibition for two days [second day as open house to the public] would be included in the 'Calendar of events' of the academic year.

8. Procurement:

Permission for change of items in the approved list and cost escalation from the initially estimated costs:

After detailed deliberations, the committee accorded approval to the change of items in the approved list and the cost escalation from the initial estimate as mentioned below:

Sl. No.	Item	Current Estimated Cost (Rs.)	Approved Mode of Procurement	Permission sought for	Justification
1	PMSM Drive (Department of Electrical & Electronics Department)	5,10,000/-	Shopping	Inclusion of the item in place of the cancelled package [Package Ref: BM/EE/G/13 P-Spice Software & BM/EE/G/14 and AC & DC Programmable Electronic load with the total estimated cost of Rs.5,05,000/-]	The current priority of PMSM Drive over the cancelled packages and departmental budgetary status
2	Package Ref: BM/EE/G/8 - Oscilloscopes, Probes and Application module (Department of Electrical & Electronics Department)	8,15,575/-	Shopping	Cost escalation of 17% on the estimated cost of Rs.6,98,000/- ascertained	Due to technological improvements and general price rise since the initial proposal

Sl. No.	Item	Current Estimated Cost (Rs.)	Approved Mode of Procurement	Permission sought for	Justification
3	License of Up-gradation of LIBSYS7 Software (Department of Library & Information Centre)	6,61,000/-	Direct Contracting	Inclusion of the item in place of the cancelled package [Package Ref:BM/LIB/G/6 Library Software, BM/LIB/G/7 Library Resources and BM/LIB/G/3 & 4 for E-Journals with the total estimated cost of Rs.5,91,000/-]	The release of enhanced versions of Software LIBSYS Software and general price rise from since the initial proposal
4	Solid Works Software (Department of Mechanical Engineering)	9,91,000/-	Direct Contracting	Inclusion of the item in place of the cancelled package [Package Ref: BM/ME/G 18 Scanning electron microscope with the estimated cost of Rs.15,00,000/-]	Need for state-of-art Design & Analysis software for PG Students and Proposed procurement of SEM under Centre of Excellence (COE) has facilitated the change in proposal
5	TEQIP-II/2013/KA/KA2G0 4/197 Solar Irrigation System (Department of Civil Engineering)	4,96,500/-	Shopping	Cost escalation of 24% on the estimated cost of Rs.4,00,000/-	Due to technological improvements and general price rise since submission of the initial proposal

B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II

TENTH MEETING |26.5.2014|SUB-COMMITTEE OF BOG|MINUTES

Permission to cancel the NCB process and reinitiate retendering process:

The committee accorded approval for cancelling the previously called NCBs for the following packages and to reinitiate a fresh NCB process for the same with necessary modification in the specification [Annexure 7].

Sl. No.	Item	Estimated cost (Rs.)
1	VIBRATION LAB EQUIPMENT [Ref: BM/ME/G/1 Department of Mechanical Engineering]	Rs.32,41,000/-
2	Workstations [Ref:BM/CS/G/1- Workstation] Department of Computer Science]	Rs.24,00,000/-

Status of procurement:

The committee took a note of the status of procurement as mentioned below.

Description	Value (Rs)
Total Allotment under Procurement	Rs.560 Lakhs
Procurement completed	Rs.224 Lakhs
Purchase orders released & waiting for delivery	Rs.128 Lakhs
Initiated and In process (Pre Order level)	Rs.79 Lakhs
Initiated and In process (Quotation Receiving Level)	Rs.21 Lakhs
Packages to be initiated	Rs.108 Lakhs

9. Status of Expenditure incurred under TEQIP II as on 30.4.2014

The committee took a note of the expenditure incurred noted below, under TEQIP II as on 30.4.2014 out of the grants of Rs.700 Lakhs received so far. The committee noted the gap between the allocation and expenditure made under the heads of 'R&D, Reforms and student Support' and informed the Nodal officers concerned to initiate more

concrete proposals under these heads.

Head of Expenditure	Allocation (Rs. In lakhs)	Amount spent (Rs. In lakhs)
Procurement	562.5	223.78
Assistantships	250	105.48
R&D	62.5	5.27
Faculty & Staff Development	125	78.18
III Cells	62.5	28
Capacity Development	25	17.62
Reforms	12.5	2
Student Support	25	3.42
Incremental Operating Cost	125	28.08
TOTAL	1250	491.83

10. CENTER OF EXCELLENCE IN ADVANCED MATERIALS RESEARCH

a) Status of Expenditure incurred under COE as on 30.4.2014

The committee noted that first instalment grants of Rs.333.33 lakhs has been received by the college on 7.5.2014 and the expenditure incurred under COE as on 30.4.2014 is as below:

Head of Expenditure	Allocation (Rs. In lakhs)	Amount spent (Rs. In lakhs)
Procurement	275	0
Assistantships	50	0
R&D	50	3.94
Faculty & Staff Development	50	0
III Cells	25	0
Incremental Operating Cost	50	2.31
TOTAL	500	6.25

b) Review meeting at NPIU on 30.5.2014:

The committee noted that Dr.Rita Goyal, Sr. Consultant[Academics] has convened a meeting to review the activities of COE under the Chairpersonship of Additional secretary (T), MHRD and in the august presence of experts from IITs on 30th May 2014 at New Delhi.

The committee accorded approval for deputing Prof.Martin Jebaraj, Director-R&D, Dr.M.Ramachandra, Co-ordinator-COE and Dr.S.Srinivas, Principal Investigator to the said review meeting.

c) Procurement for the Centre of Excellence in Advanced Materials Research

i) Award of contracts for successful bidders of the NCBs :

The committee accorded approval for placing the purchase orders for procuring the following equipment after noting the recommendations of the Procurement Committee for COE that (a) the NCB processes to procure the following four packages are in line with TEQIP II norms (b) the technical evaluation has been carried as per the standard norms (c) Technical Experts advices are affirmative about the technical evaluation carried out and short listing of the successful bidders and (d) successful bids are well within the budget allocated[Annexure 8] .

Sl. No	Item	Contract Value (Rs.)
1	Abrasive Water Jet Cutting Machine	Rs.89,51,570/-
2	Dual Sputtering Equipment	Rs.15,61,000/-
3	FTIR Spectroscopy Equipment	Rs.11,25,000/-
4	Precision Impedance Analyser	Rs.12,15,000/-



ii)Permission to change the mode of procurement:

The committee discussed in detail the minutes of the Procurement Committee for COE held on 19.5.2014[Annexure-9] and noted the observations that (a) the NCB process to procure the following two packages did not result in commercially viable bids (b) the equipment are technologically complex (c) only few manufacturers are available (d) all the manufacturers are out of India and (e) the possibility of the customs duty exemption on imported goods for the institution.

The committee accorded approval to re-initiate the process of procurement for the following equipment through LIB (Limited International Bidding)

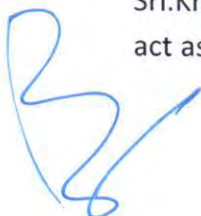
Sl.No	Item	Estimated Cost (Rs.)
1	Scanning Electron Microscope	1,00,00,000/-
2	XRD Equipment	80,00,000/-

11. Any other items

- a) The TEQIP Co-ordinator-I submitted the copies of the observations and remarks of Dr.Martin Jebaraj, Director-R&D, while evaluating the sole bid received towards the NCB called for procurement of 3D Printer based on the proposal submitted by Dr.Rathan Raj .


As per the directions of the committee, Dr.K.J.Rathanraj was invited to the meeting and heard his presentation on the justification for seeking such a high end 3D printer. The committee also perused his earlier submission on the remarks of Dr.Martin Jebaraj[Annexure-10]

After detailed deliberations, the BOG sub-committee constituted an expert committee consisting of Dr.U.Chandrashekar, Scientist-G[Former], DRDO & Sri.Krishna Swamy, Member, Sub-committee of BOG and authorised the Principal to act as per the directions of the said committee.



- b) The committee considered a few requests of the faculty members seeking permission to procure consumables for their R&D work both under TEQIP 1.2 and 1.2.1 and permitted the TEQIP Co-ordinator-I for payment towards the expenses incurred in this regard[Annexure-11].
- c) The TEQIP Co-ordinator- I informed the committee that data regarding the names, mobile No., email ID of all the staff members and students have been provided to M/s Infova Consultancy Services Ltd identified by NPIU for conducting web-based student & faculty satisfaction survey.
- d) The BOG sub-committee noted the proposal of the Director-R&D and accorded permission for initiating the activities under the heads, 'Collaboration with industries for applicable research and product development' and 'national/international collaboration for research and development activities with academic institutions and R&D organisations'.


Dr. K. Mallikharjuna Babu
Principal & Convenor


Prof. D. Thukaram
CHAIRMAN

B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II

TENTH MEETING | 26.5.2014 |SUB-COMMITTEE OF BOG | MINUTES

ANNEXURES

S.No.	Particulars	Page No.
1	Annexure-1	1
2	Annexure-2	2
3	Annexure-3	3-5
4	Annexure-4	6
5	Annexure-5	7-10
6	Annexure-6	11
7	Annexure-7	12
8	Annexure-8	13-20
9	Annexure-9	21-22
10	Annexure-10	23-26
11	Annexure-11	27



BMS COLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous College under VTU)

No: BMS TEQIP 2013-14

Date: 15.04.2014

OFFICIAL MEMORANDUM

Sub: Appointment of Smt.H.Roopa as Office Asst under TEQIP-II .
Ref : Orders of the Chairman, BOG dated 15.04.2014.

In accordance with the orders dated 15.04.2014 referred above, Smt.H.Roopa residing at Vasanthapura, B'lore is appointed as Office Assistant under TEQIP - II , on a consolidated salary of Rs.10,000/-PM (Rupees Ten Thousand only) with applicable PF subject to the following conditions.

1. In case the offer is accepted she is required to report to the undersigned on or before 21.4.2014 and submit proformas A & B enclosed, failing which the appointment order will be cancelled without any further notice.
2. The order will take effect from the actual date of reporting to duty.
3. The appointment is on contract basis till the end of TEQIP-II Project period, with one month's notice period on either side. Her salary shall be met out of TEQIP-II funds.
4. In addition to assigned duties, she has to attend to any other work assigned to her by TEQIP Coordinator/Principal/Management without prejudice to her normal assigned duties.
5. The candidate is eligible for one day casual leave on completion of every month.
6. The appointment may however be terminated with a month's notice any time, without assigning any reason, depending on the exigencies of service.
7. The candidate appointed shall abide by the rules and norms of the college.

Looking forward to your positive contribution towards professional as well as institutional growth.

Distribution:

- ✓ 1. Smt.H.Roopa
2. Vice Principal
3. Teqip Office
4. EST Section
5. Office Copy.


PRINCIPAL
B.M.S. College of Engineering
Bangalore - 19.



BMS COLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous College under VTU)

No: BMS/TEQIP/COE/ 2014-15

Date: 15.05.2014

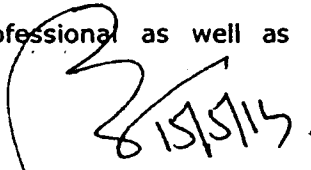
OFFICIAL MEMORANDUM

Sub: Appointment of Smt.S.Rekha as Office Asst under TEQIP-II-COE.
Ref : Orders of the Chairman, BOG dated 14.05.2014.

In accordance with the orders dated 14.05.2014 referred above, Smt.S.Rekha residing at No.141/3, II Cross, 24th Main, J.P.Nagar, II Phase, B'lore is appointed as Office Assistant under TEQIP - II-COE, on a consolidated salary of Rs.10,000/-PM (Rupees Ten Thousand only) with applicable PF subject to the following conditions.

1. In case the offer is accepted she is required to report to the undersigned on or before 22.5.2014 and submit proformas A & B enclosed, failing which the appointment order will be cancelled without any further notice.
2. The order will take effect from the actual date of reporting to duty.
3. The appointment is on contract basis till the end of TEQIP-II(COE) Project period, with one month's notice period on either side. Her salary shall be met out of TEQIP-II-COE funds.
4. In addition to assigned duties, she has to attend to any other work assigned to her by TEQIP Coordinator/Principal/Management without prejudice to her normal assigned duties.
5. The candidate is eligible for one day casual leave on completion of every month.
6. The appointment may however be terminated with a month's notice any time, without assigning any reason, depending on the exigencies of service.
7. The candidate appointed shall abide by the rules and norms of the college.

Looking forward to your positive contribution towards professional as well as institutional growth.


PRINCIPAL

Distribution:

1. Smt.S.Rekha
2. Vice Principal
3. Teqip Office
4. EST Section
5. Office Copy.

THE DETAILS OF FACULTY MEMBERS WHO HAVE ATTENDED/PROPOSED TO ATTEND THE PROGRAMS OUTSIDE THE COLLEGE UNDER TEQIP- II/ COE WHICH WERE APPROVED BY THE SUB-COMMITTEE BY CIRCULATION

Sl. No.	Name of the Faculty, Designation & Dept.	Details of Program	Place	Workshop/Conf. Dates
01.	Dr. Maya Naik Professor Civil Engg	" Low Carbon Materials & Building Systems"	IISC, Bangalore	March17-22, 2014 (Postponed dates are yet to be announced)
02.	Dr.C.R. Ramakrishnaiah Assoc Professor Civil Engg			
03.	Dr. G. Varaprasad Assoc Professor Computer Science & Engg	" IEEE International Conference on Communication and Signal Processing "	Melmavathur	April 03-05, 2014
04.	Dr. P. Meena Assoc Professor Electrical & Electronics Engg	Workshop on" Short Term Course on Control of Magnet AC Machines"	IIT, Madras	April03-05, 2014
05.	Dr K.Narasimha Rao Professor & HOD Instrumentation Engg	SARC International conference	New Delhi	April 08-12, 2014
06.	Sri Santhosh R Desai Asst Professor Instrumentation Engg			
07.	Sri V.S. Muddukapanavar Asst Professor Mechanical Engg	Workshop on " Advances in Composite & Nano Materials"	BVBCE, Hubli	April 10-12, 2014
08.	Dr. G.N. Rameshaiah Assoc Professor Chemical Engg	" International Conference on Textile Technology"	NIT, Jalandhar	April 11-12, 2014
09.	Dr. K.R. Suresh Professor Civil Engg	"Further Education Leadership Development Programme"	NITTR, Chennai & Chandigarh	April 28-30, June 02-04, December 01-02, 2014 & March 05-06, 2015
10.	Sri.Harsha R Gudi Asst Professor Mechanical Engg	"International Mechanical Engineering Congress"	NIT, Tiruchirappalli	June 13-15, 2014
11.	Smt Nirupama Mohan Asst Professor Mechanical Engg			
12.	Smt Anusha Lalitha.T Asst Professor, Tele Communication Engg	"IETE Conference on RF & Wireless & Microwave"	H.K.B.KCollege of Engg Bangalore	May 09-10, 2014
13.	Sri Manjunatha.P.S. Asst Professor Telecommunication Engg			
14.	Sri E.Suresh Asst Professor Mechanical Engineering	"International Conference on Advances in Engineering & Technology"	Rorkee Institute of Technology	May 24-25, 2014
15.	Sri R.Shivakumar Asst Professor Chemical Engg	Workshop on " Nano fabrication technologies"	IIT, Bombay	May 24-28, 2014

**THE DETAILS OF STUDENTS WHO HAVE ATTENDED THE TRAINING/WORKSHOP THAT
WERE APPROVED BY THE SUB-COMMITTEE BY CIRCULATION**

Sl. No.	Name of the Student, Designation & Dept.	Details of Program	Place	Workshop/Conf. Dates
01.	Sri Hariharan.R Electrical & Electronics Engineering	"International Workshop on Emerging Trends in Energy Systems management"	Chidamabaram	March 15, 2014
02.	Sri Ajay.R. Electrical & Electronics Engineering			
03.	Smt Anusha. S.B. Civil Engg	"National Conference on Recent Research and Development in Civil Engineering"	Dr AIT, Bangalore	March 27-28, 2014
04.	Smt Deepa M Naik Civil Engg			
05.	Sri G. Niranjan Reddy Civil Engg			
06.	Smt Jhansi Rama Priya. G. Civil Engg			
07.	Sri Niranjan .N. Civil Engg			
08.	Sri Pavan .J. Civil Engg			
09.	Sri Pramod B.V Civil Engg			
10.	Sri Praveen Gongachi Civil Engg			
11.	Sri Rajesh. A. Civil Engg			
12.	Sri Salman Pasha Civil Engg			
13.	Sri Sharath.R. Civil Engg			
14.	Sri Shrinath Hogade Civil Engg			
15.	Smt Sowmya H.V. Civil Engg			
16.	Sri Sunil Kumara B.M Civil Engg			
17.	Sri Vikram C.G. Civil Engg			
18.	Sri Vilar Kumar S Lorinath Civil Engg			
19.	Sri Vikas P. Attigeri Civil Engg			
20.	Smt Ashwini.v. Civil Engg	"Transportation Young Researchers"	NIT, Warangal	March 27-29, 2014
21.	Smt Shubhashree Harista Medical Electronics	International Conference on "Communication and Signal Processing"	Melamavathur	April 03-05, 2014
22.	Sri B.J. Sreeneidhi Medical Electronics			
23.	Smt Vidhya. Y.J Biotechnology	Conference on "Symbiot 14, The National Technical Symposium of I.E. Biotechnology"	MIT, Mani pal University	April 11-12, 2014

24.	Sri Shivaraj Ashok Pattar Information Science & Engg	Workshop on "National Network Security "	IIT, Delhi	April 27, 2014
25.	Smt Sowmyashree.T Civil Engg	"Innovations & Developments in civil Engineering"	NITK, Surathkal	May 19-20, 2014
26.	Smt Rohinikrishna Civil Engg			
27.	Smt Jitha.P.T Civil Engg			

DETAILS OF INHOUSE PROGRAMS CONDUCTED/TO BE CONDUCTED WHICH WERE APPROVED BY THE SUB-COMMITTEE BY CIRCULATION

Sl. No.	Name of the Department	Title of the Program	Program Dates	Approx. Expenditure (Rs.)
01.	Civil Engineering	One day workshop on "Drought Assessment using Scientific and advance Tools"	May 09, 2014	47,000/-
02.	Chemical Engineering	"Finishing School on Safe Industrial Practices"	May 05-07, 2014	45,625/-
03.	Electrical & Electronics Engineering	Two days' Workshop on "Classical Control Theory & Design Using Matlab Simulink"	May 22-25, 2014	69,800/-
04.	Chemical Engineering	Three Days Workshop on "Hands on workshop on Modelling and UNISIM Design Simulation Software"	June 30-July 02, 2014	92,000/-
05.	Civil Engineering	Two days' Workshop on "Application of Modelling Techniques in Environmental Engineering"	July 04-05, 2014	1,13,500/-
06.	TEQIP	One day Training Program on "Communication Skills"	May 10, 2014	10,000/-
07.	Electronics & Communication Engineering	One day Symposium on "Embedded Systems"	May 21, 2014	1,55,000/-
08.	TEQIP	"Training Programme on Communication skills for Engineering faculty"	May 24, 2014	10,000/-

**THE DETAILS OF FACULTY MEMBERS WHO HAVE PROPOSED TO ATTEND
PROGRAMS OUTSIDE THE COLLEGE UNDER TEQIP- II/ COE**

Sl. No.	Name of the Faculty, Designation & Dept.	Details of Program	Place	Workshop/Conf. Dates
01.	Smt Tripti Pachori Asst Professor Mechanical Engg	"Formulation of Research & Development Initiatives for Women Scientist and Technologies"	Engineering staff college of India, Hyderabad	May 29-June 01, 2014
02.	Sri Harsha R Gudi Asst Professor Mechanical Engg	"Single point diamond turning"	CMTI, Bangalore	May 30 th 2014
03.	Smt Nirupama Mohan Asst Professor Mechanical Engg			
04.	Dr Rathan Raj.K.J Professor & HOD Industrial Engg	" Stress & Time Management"	Mussoorie	June 02-06, 2014
05.	Sri RamRohit.V Asst Professor Mechanical Engg	"International Mechanical Engineering Congress"	NIT, Tiruchinapalli	June 13-15, 2014
06.	Sri Narendra Babu Asst Professor Mechanical Engg			
07.	Sri RamRohit.V Asst Professor Mechanical Engg	"Research Methodology in fluid mechanics and fluid power"	NITK , Suratkal	July 10-12, 2014
08.	Sri N. Jayanth Assoc Professor Mechanical Engg			
09.	Dr .V. Uma Devi Assoc Professor Computer Science & Engg	"International Conference on ERCICA-2014"	NMIT Bangalore	August 01-02, 2014
10.	Smt K.P .Lakshmi Assoc Professor, Electronics & Communication Engg			

STAFF MEMBER WHO HAVE PROPOSED TO ATTEND PROGRAMS OUTSIDE THE COLLEGE

Sl. No	Name of the Staff & Dept	Workshop / Conference Details		
		Name	Place	Workshop/Conf. Dates
01.	Sri .P.Bhaktavatsala Instructor, Datacenter	"Effective System Administration in Engineering"	ESCI, Hyderabad	June 16-18, 2014

From: **Teqip IIT Hyderabad** <teqip@iith.ac.in>

Date: Mon, Apr 21, 2014 at 4:03 PM

Subject: TEQIP-II - **Letter of** Indent for Academic Collaboration towards Quality Enhancement

To:

To

All TEQIP-II Institutions in AP & Karnataka

Dear Professors,

As you are aware, under the MHRD's Knowledge Incubation under TEQIP (KIT) Programme, all Project institutions under TEQIP-II have been mapped with different IITs for holistic institutional quality enhancement through activities such as faculty development, virtual training sessions, student and faculty research mobility, among others. The MHRD now wishes to formalize this initiative through a **Letter of Intent** between each of the IITs involved in KIT and the Project institutions in the respective Quality Circles (QCs). Enclosed for your perusal is a **Draft Letter of Intent** (LoI) proposed to sign by IIT Hyderabad and its QC institutions that outlines the areas of quality enhancement to be covered and activities the Programme should entail, namely:

- i. Faculty Development
- ii. Curriculum enhancement
- iii. Student Development through internships, semester exchange programmes and joint research
- iv. International student and faculty research mobility with MITACS Canada
- v. Development of Industry-Academia Collaboration strategy

In addition to the above, the LoI may also include specific details regarding the term of the Programme, the stakeholders involved, roles and responsibilities and the financial model, among others. Please note that the enclosed draft is only indicative and is open to customization as per the specific requirements of your institute.

As directed by NPIU/MHRD/GOI, Signing of **Letter of** Indent is a mandatory and we therefore request you to send us your consensus on the specific terms and conditions of the agreement you proposed, a formal MoU will be signed by IIT Hyderabad & Your Institution. The last date for receipt of your consent is **April 30, 2014**.

Please note that we are sending this email as per the contacts available with us, if you have received inadvertently, we request you to forward to your Principal or TEQIP Coordinator for further course of action by the Institute.

With regards,

Yours sincerely,

Professor-In-Charge
TEQIP KIC
IIT Hyderabad

LETTER OF INTENT (LoI) FOR ACADEMIC COLLABORATION

Between
TEQIP Knowledge Incubation Centre, INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD
And
Technical Institutions in the Quality Circle of IIT Hyderabad

Whereas the above named institutions recognize that academic collaboration would be of mutual benefit and would provide strength in research and education and their mutual interest in engaging themselves in academic cooperation with the TKIC, Indian Institute of Technology Hyderabad and the Institutions in the Quality Circle of IIT Hyderabad (as identified by the NPIU or MHRD), it is agreed that:

Faculty

- 1.01 Each institution will promote the exchange of faculty for teaching and/or for collaborative research program in the areas of Science and Engineering.
- 1.02 The institutions agree to allow their faculty to participate in quality enhancement through participation in quality improvement activities organized by TKIC, post-doctoral and other short-term and long-term research engagements at IITs, which are promoted by the TKIC.
- 1.03 The institutions agree to encourage the non-doctoral degree holder faculty to pursue a PhD program at a participating IIT, as sponsored candidates.
- 1.04 Leave (short term, long term or study leave) to the faculty participating in any of these programs will be provided by these institutions. The institutions will allow upto 2 of the faculty strength in each department to be on leave for these activities. The TEQIP cell of the host institute will provide for travel. TKIC will take care of study and local hospitalities.
- 1.05 The interested faculty will make an application the TEQIP Cell of the host institute with a copy to the coordinator or faculty-in-charge of TKIC. Applications could be made against announcements made by TKIC. Denial of permission to the recommended applicant has to be explained by the host institute.

Students

- 2.01 The institutions will promote internship or/and semester exchange of qualified undergraduate and/or graduate students to the academic programs of IIT Hyderabad.
 - a. **Internship:** Students will participate in summer internship activities at IIT Hyderabad, with support from TKIC, IIT Hyderabad. Application for the internship, against an announcement made by TKIC, should be submitted to the faculty-in-charge of TKIC, IIT Hyderabad, through the TEQIP Coordinator of the respective institution.
 - b. **Credit transfer:** TKIC will facilitate offering of e-courses (e.g. MOOCs based interactive course-ware), and limited enrollment in specific courses at IIT Hyderabad, for good students from the Quality Circle institutions. Credits earned through these courses will be recognized by the institutions. Appropriate changes in the local academic rules and regulations will be made to enable earning of credits from outside.
 - c. **Joint research:** The institutions will encourage their faculty and graduate students to participate in joint research with IIT Hyderabad, or within the Quality Circle, as initiated by the TKIC. Possibility of joint supervision of doctoral thesis will also be encouraged. Towards this, the coordinators of the TEQIP cells will interact closely with the professor-in-charge of TKIC.
- 2.02 Students will be provided leave and support for travel from the parent institution.

Curriculum

- 3.01 The institutions agree to share with TKIC, the details of implementation of their academic curriculum. This is required to evolve a uniform curriculum for all the institutions in the Quality Circle.
- 3.02 The institutions agree to participate in periodic reviews of their academic curriculum, by a team of evaluators chosen by the TKIC, in consultation with NPIU, towards effective implementation of the uniform curriculum.
- 3.03 The TKIC, in collaboration with the institutions in the Quality Circle, will evolve changes to the curriculum at the undergraduate and graduate levels. The institutions agree to incorporate these changes in their curriculum, following sanctioned local processes.
- 3.04 The institutions agree to allow their faculty to participate in the process of new content development, resource generation and other knowledge repository creation activities initiated by TKIC. For this, faculty member from these institutions will be deputed for the period of the activity. The institutions will grant timely leave for such activities and the cell coordinators of the host institutions will interact closely with TKIC.

Term

- 4.01 This will become effective on the final date of signing and will have a duration of five years, or the period of funding under TEQIP grant – whichever is the shortest.
- 4.02 This Letter of Intent may be terminated by TKIC, MHRD or individual Quality Circle institutions by providing 180 days written notice to coordinator / in-charge of NPIU, TKIC and the respective institution.

Designation of Coordinators

- 5.01 Each party designates the following officials to serve as Coordinators under this Letter of Intent. Individuals designated as Coordinators may be revised by either party by providing written notice to the current Coordinators.

General

- 6.01 The TKIC, Indian Institute of Technology Hyderabad and the Quality Circle institutions may work to develop a viable and sustainable model for the financing of this collaboration.
- 6.02 All activities conducted under this Letter of Intent will be in accordance with all applicable rules, as outlined under the TEQIP grant clauses.

The parties have executed this Letter of Intent on the date, month and year last specified below.

National Project Implementation Unit

**TEQIP Knowledge Incubation Cell,
Indian Institute of Technology Hyderabad**

Dr. A. U. Digraskar

Professor-in-Charge, TKIC

Date:_____

Date:_____

**Director/TEQIP Coordinator of the
Quality Circle Institution**

**State Project Advisor/Project Coordinator
State of Andhra Pradesh**

Date:_____

Date:_____

Dear Sir,

In response to your mail, we express our consent for signing the letter of intent more or less in its current form.

We may seek your opinion for customization of the following:

i) Clause 1.04 with reference to number of faculty to be deputed for the activities

ii) Clause 2.01b, the college intends to use the e-courses and implement blended learning for the students in the curriculum to be implemented during the academic year 2014-15.

With best wishes...

Dr. G. N. SEKHAR, PhD

Vice Principal & TEQIP Co-ordinator-I
BMS College of Engineering,
Bangalore - 560 019.

Phone/Fax: +91 080 26603963

Mobile: +91 98451 84215

Mail dated 16.5.2014

Dear Sir/Madam,

The **3rd Review Mission** was held on 28th April – 2nd May 2014 for assessing the institutions' performance. The institutions were required to meet a set of 10 performance indicators by 31st March 2014 to benchmark themselves. However, only 94 institutions were able to comply with the requirement.

2. The updated details of Institutional Performance Assessment are available at the NPIU website (www.npiu.nic.in).

3. As per the decisions of the 3rd Review Mission, all institutions are required to essentially meet all 10 indicators as early as possible latest by 30th June 2014. Please note that further release of funds will only be made after all 10 indicators are achieved.

4. A further set of following additional indicators is required to be met latest **by 31st October 2014:**

(i) *Minutes of Board of Governors (BoG) meetings taking place in the last four months published on the Institution's website. The BoG meetings are required to be held after every quarter with minutes published on the Institution's website.*

(ii) *Statutory Audit completed (2013-14)*

(iii) *Completion of a 2nd Performance Audit along with Data Audit*

(iv) *Completion of an initial Governance Development Plan*

(v) *Commitment of 100% of total funds received by the institution*

(vi) *Expenditure of atleast 50% of the total funds received*

(vii) *Procurement plan to cover 100% of the procurement expenditures*

(viii) *Completion of all data input into the MIS for 2013-14 (Data entry for the previous 3 years i.e. 2010-11, 2011-12 & 2012-13 has to be completed by 30th June 2014).*

(ix) *Mandatory Participation in CII-AICTE survey*

(x) *Participation in TEQIP Faculty, Staff and Students Satisfaction Survey*

Implementation of the above will be closely monitored by NPIU.

5. It may kindly be noted that the **4th JRM** is tentatively scheduled in December 2014. **SPFU** is requested to undertake follow-up actions for the institutions so that all the above indicators are achieved.

Yours faithfully,

Dr Rita Goyal

Senior Consultant (Academic)

National Project Implementation Unit (NPIU)

EDCIL House, 4th Floor, Plot No. 18-A, Sector 16-A

NOIDA-201 301, Uttar Pradesh

Phone: 0120-2513928,

EPABX No. 0120-2513921, 2513946

Fax Nos. 0120-2513926, 2512485

Email : npiuwb@hotmail.com



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Minutes of Bid Opening Meeting of Package TEQIP II/KA/KA2G04/140 (Vibration Lab Equipment) held on 10 April 2014 at 10.30 AM at TEQIP Seminar Hall, BMSCE

Dr M S Dharmaprakash, Professor- Department of Chemistry & Nodal Officer – Procurement welcomed the DPC Members of Department of Mechanical Engineering and Bidders. The Committee considered the sole Bid submitted and noted the following:

M/s. Aimil Limited., the sole bidder has not complied with technical specification as well as the commercial terms of the bid document and is considered to be technically and commercially non-responsive. Hence kind permission is sought from the Central Procurement Committee to cancel the bid process and initiate the retendering process.

Sl.	Name of the Member	Designation	Signature
1	Dr.M.S.Dharmaprakash Nodal Officer -Procurement	Chairman	
2	Dr K Guruprasad Member	HOD-Mechanical Engineering	
3	Prof. H K Rangavittal Member	Asso. Professor – Mechanical Engineering	
4	Prof. V S Mudakappanavar Member	Asso. Professor – Mechanical Engineering	
5	Prof. G Saravanakumar Member	Asso. Professor – Mechanical Engineering	
6	Dr. B S Suresh Member	Professor – Mechanical Engineering	

Submitted to the Central Procurement Committee]



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Center of Excellence

Minutes of CPC Meeting for procurement of Package TEQIP-II/KA/KA2G04/189
Precision Impedance Analyser held on 24 May 2014
at 12:30 PM in TEQIP Seminar Hall, BMSCE

Dr. K. Mallikharjuna Babu, Principal & Chairman of the Committee welcomed the CPC Members of Centre of Excellence. The Committee reviewed the recommendations of the DPC held on 15-04-2014 and recommendations of the technical evaluation by the experts held on 20-05-2014. The following are the observations made by the committee:

SI No	Date	Particulars	Recommendation/Approval
1	18-02-2014	Approval for Procurement	Approved by BOG
2	10-03-2014	PMSS upload	Uploaded digitally generated bid document to SPFU/NPIU
3	10-03-2014	Invitation of Bids	NA
4	26-03-2014	Pre-Bid Meeting	Provided clarification
5	15-04-2014	Bid opening & Technical Evaluation	Bid opening meeting held and bids opened Nos. of bids received: 03 Bidders: 1. M/s. Sartech Intl 2. M/s. Sourcetronics India Pvt Ltd 3. M/s. Wayne Kerr Electronics Pvt Ltd Minutes: Bid Opening & Bid Evaluation Forms filled-in, Prices read out to bidders who were present and evaluation process initiated
6	20-05-2014	Meeting of Technical Expert committee	Review of technical evaluation carried out and recommendation provided.

Observations:

1. The recommendations by the technical committee comprising of an external technical expert Dr. Angadi Basavaraj, Professor, Department of Physics, Bangalore University, Bangalore, Dr. M V Murugendrappa, Proposer, and DPC members, is that the bid submitted by M/s. Sartech Intl and M/s. Sourcetronics India Pvt Ltd are technically non-responsive and the bid submitted by M/s. Wayne Kerr Electronics Pvt Ltd is technically responsive.

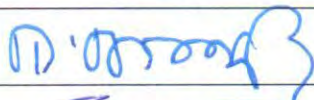





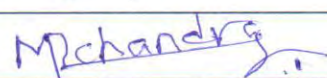
Recommendations:



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Considering the above fact that M/s. Wayne Kerr Electronics Pvt Ltd is the technically and commercially responsive bidder, the Central Procurement Committee recommends to place order with the responsive bidder, M/s. Wayne Kerr Electronics Pvt. Ltd, for Rs.12,15,100/- (Rupees Twelve lakhs fifteen thousand and one hundred only) exclusive of sales taxes for 1 Nos. of (Precision Impedance Analyser) as per the terms and conditions of the bid document.

The meeting concluded with thanks to the chair.

Sl.	Name of the Member & Role	Designation	Signature
1	Dr. K. Mallikharjuna Babu, Chairman	Principal, BMSCE	
2	Dr Martin Jebaraj, Member	Director – R & D, BMSCE	
3	Dr L Ravikumar, Member	TEQIP Coordinator II	
4	Dr.M.S.Dharmaprakash, Member	TEQIP Nodal Officer - Procurement	
5	Dr K R Suresh, Member	TEQIP Nodal Officer - Finance	
6	Dr. Murugendrappa M V Invitee (Proposer)	Principal Investigator – COE	
7	Dr. M Ramachandra, Member Convenor	Coordinator – COE	



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Center of Excellence

Minutes of CPC Meeting for procurement of Package TEQIP-II/KA/KA2G04/174
FTIR Spectroscope held on 24 May 2014 at 12:00 PM in TEQIP Seminar Hall, BMSCE

Dr. K. Mallikharjuna Babu, Principal & Chairman of the Committee welcomed the CPC Members of Centre of Excellence. The Committee reviewed the recommendations of the DPC held on 15-04-2014 and recommendations of the technical evaluation by the experts held on 20-05-2014. The following are the observations made by the committee:

Sl No	Date	Particulars	Recommendation/Approval
1	18-02-2014	Approval for Procurement	Approved by BOG
2	10-03-2014	PMSS upload	Uploaded digitally generated bid document to SPFU/NPIU
3	10-03-2014	Invitation of Bids	NA
4	26-03-2014	Pre-Bid Meeting	Provided clarification
5	15-04-2014	Bid opening & Technical Evaluation	Bid opening meeting held and bids opened Nos. of bids received: 02 Bidders: 1. M/s. Analytical Technologies Limited; 2. M/s. PerkinElmer India Pvt Ltd Minutes: Bid Opening & Bid Evaluation Forms filled-in, Prices read out to bidders who were present and evaluation process initiated
6	20-05-2014	Meeting of Technical Expert committee	Review of technical evaluation carried out and recommendation provided.

Observations:

1. The recommendations by the technical committee comprising of an external technical expert Dr. Angadi Basavaraj, Professor, Department of Physics, Bangalore University, Bangalore, Dr. M V Murugendrappa, Proposer, and DPC members, is that the bid submitted by M/s. Analytical Technologies Limited is technically non-responsive and the bid submitted by M/s. PerkinElmer India Pvt Ltd is technically responsive.



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Recommendations:

Considering the above fact that M/s. PerkinElmer India Pvt Ltd is the technically and commercially responsive bidder, the Central Procurement Committee recommends to place order with M/s. PerkinElmer India Pvt Ltd for Rs.11,25,000/- (Rupees Eleven lakhs twenty five thousand only) exclusive of 14.5% VAT on basic equipment for FTIR Spectroscope – 1 Nos. as per the terms and conditions of the bid document.

The meeting concluded with thanks to the chair.

Sl.	Name of the Member & Role	Designation	Signature
1	Dr. K. Mallikharjuna Babu, Chairman	Principal, BMSCE	
2	Dr Martin Jebaraj, Member	Director – R & D, BMSCE	
3	Dr L Ravikumar, Member	TEQIP Coordinator II	
4	Dr.M.S.Dharmaprakash, Member	TEQIP Nodal Officer -Procurement	
5	Dr K R Suresh, Member	TEQIP Nodal Officer - Finance	
6	Dr. Murugendrappa M V Invitee (Proposer)	Principal Investigator – COE	
7	Dr. M Ramachandra, Member Convenor	Coordinator – COE	



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Center of Excellence

Minutes of CPC Meeting for procurement of Package TEQIP-II/KA/KA2G04/194
[Abrasive H₂O Jet Cutting Machine] held on 24 May 2014
at 11:00 AM in TEQIP Seminar Hall, BMSCE

Dr. K. Mallikharjuna Babu, Principal & Chairman of the Committee welcomed the CPC Members of Centre of Excellence. The Committee reviewed the recommendations of the DPC held on 12-04-2014 and recommendations of the technical evaluation by the experts held on 22-05-2014. The following are the observations made by the committee:

Sl No	Date	Particulars	Recommendation/Approval
1	18-02-2014	Approval for Procurement	Approved by BOG
2	10-03-2014	PMSS upload	Uploaded digitally generated bid document to SPFU/NPIU
3	10-03-2014	Invitation of Bids	NA
4	26-03-2014	Pre-Bid Meeting	Provided clarification
5	12-04-2014	Bid opening & Technical Evaluation	Bid opening meeting held and bids opened Nos. of bids received: 02 Bidders: 1. Ainnovative International Ltd, Ahmedabad; 2. MD Corporation, New Delhi Minutes: Bid Opening & Bid Evaluation Forms filled-in, Prices read out to bidders who were present and evaluation process initiated
6	16-04-2014	Clarifications sought from the bidder 1, over phone	No clear response
7	16-05-2014	Clarifications sought from the bidder 1 by emails regarding the compliance of eligibility conditions stipulated in the bid document	Clarifications received were not satisfactory with reference to 5 axis cutting head and the terms to meet the requirement of supply of 80% of similar equipment.
8	17-05-2014	Clarification sought from end user BARC, Mumbai regarding 5 axis cutting head	Received reply through e-mail indicating the bidder 1 has not supplied a 5 axis machine
9	17-05-2014	Meeting of Industry Experts Committee	Evaluation of technical specifications of the bids carried out
10	22-05-2014	Meeting of Technical Expert committee	Review of technical evaluation carried out and recommendation provided.



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

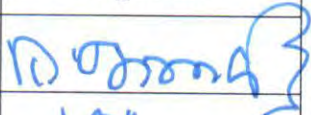

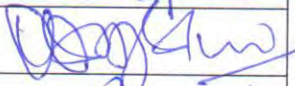
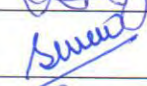

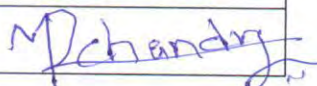
Observations:

1. The recommendations by the technical committee comprising Dr. M. Ramachandra, COE Coordinator, Dr. S. Srinivas, Proposer, Industry experts Shri Halaswamy Magod, and Shri Aza Mohanty indicates that M/s. Ainnovative International Ltd is technically non-responsive and M/s. MD Corporation is technically responsive.
2. The recommendation of the Technical Committee comprising the CPC members and technical expert, Dr.M.Subba Rao, Scientist (Retd) National Aerospace Laboratories, Bangalore, M/s. Ainnovative International Ltd is technically non-responsive and M/s. MD Corporation is technically responsive.

Recommendations:

Considering the above facts that M/s. MD Corporation is the technically and commercially responsive bidder, the Central Procurement Committee recommends to place order with the responsive bidder, M/s. MD Corporation, for Rs.89,51,570/- (Rupees Eighty nine lakhs fifty one thousand five hundred and seventy only) all inclusive for 1 Nos. of Abrasive Water Jet Cutting Machine as per the terms and conditions of the bid document.

The meeting concluded with thanks to the chair.

Sl.	Name of the Member & Role	Designation	Signature
1	Dr. K. Mallikharjuna Babu, Chairman	Principal, BMSCE	
2	Dr Martin Jebaraj, Member	Director – R & D, BMSCE	LOA
3	Dr L Ravikumar, Member	TEQIP Coordinator II	
4	Dr.M.S.Dharmaprakash, Member	TEQIP Nodal Officer -Procurement	
5	Dr K R Suresh, Member	TEQIP Nodal Officer - Finance	
6	Dr. S Srinivas, Invitee (Proposer)	Principal Investigator – COE	
7	Dr. M Ramachandra, Member Convenor	Coordinator – COE	



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Center of Excellence

Minutes of CPC Meeting for procurement of Package TEQIP II/KA/KA2G04/193 (Dual Sputtering Equipment) held on 24 May 2014 by 1:00 PM at TEQIP Seminar Hall, BMSCE

Dr. K. Mallikharjuna Babu, Principal & Chairman of the Committee welcomed the Members of Procurement Committee for Centre of Excellence.

Sl No	Date	Particulars	Recommendation/Approval
1	18-02-2014	Approval for Procurement	Approved by BOG
2	10-03-2014	PMSS upload	Uploaded digitally generated bid document to SPFU/NPIU
3	10-03-2014	Invitation of Bids	NA
4	27-03-2014	Pre-Bid Meeting	Provided clarification
5	11-04-2014	Bid opening & Technical Evaluation	<p>Bid opening meeting held and bids opened Nos. of bids received: 04 Bidders:</p> <ol style="list-style-type: none"> 1. M/s. Indian High Vacuum Pumps 2. M/s. Advanced Process Tech Pvt Ltd 3. M/s. VR Technologies 4. M/s. Mansha Equipment Pvt Ltd <p>Minutes: Bid Opening & Bid Evaluation Forms filled-in, Prices read out to bidders who were present and evaluation process initiated</p>
6	21-05-2014	Meeting of Technical Expert committee	Review of technical evaluation carried out and recommendation provided.

Observations:

1. The recommendations by the DPC is that the bid submitted by M/s. Indian High Vacuum Pumps is commercially non-responsive for further consideration as the bidder had not submitted the bid security along with bid document.
2. The recommendations by the DPC indicates that the bid submitted by M/s. Advanced Process Tech Pvt Ltd is commercially non-responsive for further consideration as the bidder has not submitted the cost of the bid document and bid security along with bid document.
3. The recommendation by the DPC is that the bid submitted by M/s. Mansha Equipment Pvt Ltd has been considered for evaluation as the bid security and cost of



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

the bid document has been submitted. But bid submitted by M/s.Mansha Equipment Pvt Ltd is technically and commercially non-responsive due to non-compliance with the specification and stipulated commercial terms of the bid document.

4. The recommendation by the DPC is that the bid submitted by M/s. VR Technologies is commercially and technically responsive as the bid is in compliance with stipulated commercial terms of the bid document.
5. The recommendations of the DPC and the technical expert, Prof.S.Asokan, Department of Instrumentation & Applied Physics, Indian Institute of Science, Bangalore clearly is that the bid submitted by M/s. VR Technologies is technically and commercially responsive to place order with.

Considering the above facts that M/s. VR Technologies is the technically and commercially responsive bidder and the recommendation of technical expert, the Procurement Committee recommends to place order with the responsive bidder, M/s. M/s. VR Technologies, for Rs.15,61,000/- (Rupees Fifteen lakhs and sixty one thousand only) exclusive of 14.5% VAT for 1 Nos. of Dual Sputtering Equipment as per the terms and conditions of the bid document.

The meeting concluded with thanks to the chair.

Sl.	Name of the Member & Role	Designation	Signature
1	Dr. K. Mallikharjuna Babu, Chairman	Principal, BMSCE	
2	Dr Martin Jebaraj, Member	Director – R & D, BMSCE	
3	Dr L Ravikumar, Member	TEQIP Coordinator II	
4	Dr.M.S.Dharmaprakash, Member	TEQIP Nodal Officer - Procurement	
5	Dr K R Suresh, Member	TEQIP Nodal Officer - Finance	
6	Dr Chandasree Das, Invitee (Proposer)	Principal Investigator – COE	
7	Dr. M Ramachandra, Member Convenor	Coordinator – COE	

BMS COLLEGE OF ENGINEERING,BANGALORE**Technical Education Quality improvement Programme-II[TEQIP]****Centre of Excellence****Minutes of meeting held on 19th May 2014 at 3:30 PM at TEQIP SeminarHall, BMSCE****NODAL OFFICERS/CO-ORDINATORS PRESENT:**

Sl.	Name of the Member & Role	Designation	Signature
1	Dr.K.Mallikharjuna Babu,Chairman	Principal, BMSCE	
2	Dr Martin jebaraj,Member	Director-R & D,BMSCE	
3	Dr L Ravikumar,Member	TEQIP Coordinator II	
4	Dr.K R Suresh, Member	TEQIP Nodal officer-Finance	
5	Dr.M.S.Dharmaprakash,Member	TEQIP Nodal officer-Procurement	
6	Dr.S Srinivas, Invitee(Proposer)	Principal Investigator-COE	
7	Dr Chandasree Das, Invitee (Proposer)	Principal Investigator-COE	
8	Dr.M Ramachandra, Member Convenor	Coordinator-COE	

NODAL OFFICERS/CO-ORDINATORS ABSENT:

Sl.	Name of the Member & Role	Designation	Signature
1	Dr.Murugendrappa M V, Invitee (Proposer)	Principal Investigator-COE	

Dr.K.Mallikharjuna Babu, Principal, BMSCE & Chairman of the Committee Welcomed the Procurement committee Member of Centre of Excellence. The committee noted the following:

1. Review the status of procurement of the following packages:

S.L no	Package
1	TEQIP II/KA/KA2GO4/194 Water Jet Cutting Machine
2	TEQIP II/KA/KA2GO4/193 Dual Sputtering Equipment
3	TEQIP II/KA/KA2GO4/189 Precision impedance Analyzer
4	TEQIP II/KA/KA2GO4/174 FTIR Spectroscope

The Committee decided to convene along with the external technical experts to review and recommend.

2. To Change the mode of procurement from I C B (International Competitive Bidding) to L I B (Limited International Bidding) in respect of the following packages:

Sl no	Package
1	BM/COE/Scanning Electron Microscope
2	BM/COE/XRD/5-XRD Equipment

The Committee reviewed the mode and recommended the change in the mode of procurement to be placed for the approval of sub-committee of BOG (Board of Governor).

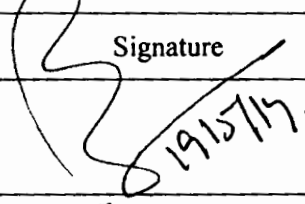
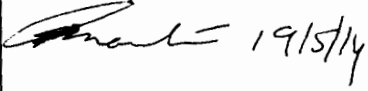
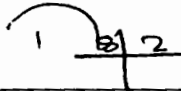
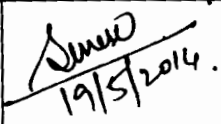
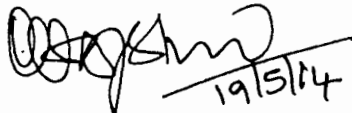

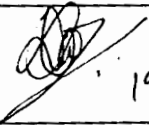
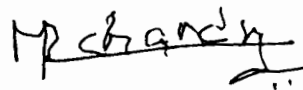
The same will be placed before the next meeting of B O G which is scheduled on 26th May.



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Center of Excellence

Meeting of Procurement Committee for Centre of Excellence (COE)
held on 19 May 2014 by 3:30 PM at TEQIP Seminar Hall, BMSCE

Sl.	Name of the Member & Role	Designation	Signature
1	Dr. K. Mallikharjuna Babu, Chairman	Principal, BMSCE	 19/5/14.
2	Dr Martin Jebaraj, Member	Director – R & D, BMSCE	 19/5/14
3	Dr L Ravikumar, Member	TEQIP Coordinator II	 19/5/14
4	Dr K R Suresh, Member	TEQIP Nodal Officer – Finance	 19/5/2014.
5	Dr.M.S.Dharmaprakash, Member	TEQIP Nodal Officer – Procurement	 19/5/14
6	Dr. S Srinivas, Invitee (Proposer)	Principal Investigator – COE	 19/5/14
7	Dr. Murugendrappa M V Invitee (Proposer)	Principal Investigator – COE	
8	Dr Chandasree Das, Invitee (Proposer)	Principal Investigator – COE	 19/5/14.
9	Dr. M Ramachandra, Member Convenor	Coordinator – COE	 M Ramachandra

B.M.S. College of Engineering, Bangalore-19
Research and Development Centre

BMS/R&D/Gen/307/ 2014

25th April 2014.

To
The Vice Principal, and TEQIP Coordinator 1
BMSCE.

Sub: Procuring Rapid Prototyping 3D Printing Machine.
Ref: BID Reference No. TEQIP/KA/KA2G04/26.

I would like to bring the following observations and recommendations regarding purchase finalisation of 3D Printing Machine. For clarity I bring to focus discussion had with the supplier, M/s. SARTO Electro Equipment's Private Limited, during the pre-bid meeting which was held on 8.4.14.

1. The supplier representative was asked about the technical details of the equipment. He mentioned that the sintering process adopted in this machine is patented process and hence it is proprietary. The size of the table is 10.5'X7'X7.6' (266X177.8X193).
2. The resolution in X and Y direction is 0.004' (100 μ m)
3. The Z axis resolution is 0.001' to 0.004' (25 to 100 μ m).
4. Data handling is by STL.
5. For ABS Plastic white the cost per kg of coated ABS material is Rs.50,000/-
6. Minimum quantity of ABS is 23 kgs to operate the machine. In other words the total cost of ABS Plastic required to operate the machine at any given point of time is $50,000 \times 23 = 11,50,000/-$
7. Shelf life of UV synerable ABS Powder material is one year. Hence every year (even if the machine is not at all used) one has to buy 23 kgs of raw material which will cost annually a minimum of Rs.11,50,000/-.
8. Transparent material printing capability: the manufacturer sent one sample which was very flexible and not transparent.

From the above discussions it is clear that in this 3D Printing Machine the recurring expenditure (resin coated ABS Plastic) will cost annually a minimum amount of Rs.11, 50,000/-. Further the table size is also normal and is not big.

The same functionality is possible to obtain from the ABS wire type 3D Printing Machine whose material cost is 18 times cheaper than the above machine. Further the shelf life of the wire is almost infinite. There is no need for stocking 23 kgs of ABS Plastic for machine operation.

To have a comparison with a another 3D Machine that may give better understanding the following table is presented.

TABLE – COMPARISON OF UV CURABLE MACHINE WITH THERMAL WIRE DEPOSITION 3D PRINTER.

Sl.No	Specification	ULTRA 3SP	AHA 3D
1	Table size	10.5'X7'X7.5'	9'X9'X9'
2	Material	ABS Plastic	ABS Plastic
3	Resolution X Direction	100 μ m	100 μ m
4	Resolution Y Direction	100 μ m	100 μ m
5	Resolution Z Direction	40-100 μ m	100 μ m
6	Minimum stock of raw material required to operate the machine	23 kgs	No minimum quantity requirement

P.T.O.

7	Bench life of raw material	1 year	Infinite
8	Cost of raw material	50,000 per kg	2800 per kg
9	Minimum annual recurring cost	11,50,000	NIL
10	Cost of consumables	UV bulb	NIL
11	Machine cost	65,14,470	1,80,000

Recommendations:

From the above observations it is clear that there is no difference between these two machines. But the ULTRA 3SP has the disadvantage of minimum quantity of raw material, cost of raw material and cost of machine which are a disadvantage. Hence I strongly feel that ^{there is} no need to procure this machine (which exactly performs like some of the low cost machines).

 26/4/14
Director, BMS R&D Centre

BMS R & D Centre
BMS College of Engineering
BANGALORE - 560 019

I would like to bring to your kind notice the following clarifications/ justifications why our institute need to go for Envisiontec 3D printer. Reply to R&D- Director's query submitting this for your kind perusal.

Technical clarification:

Point No. 1 to 4 is as per our tender specifications and according to product catalog.

Point No. 5 – according to the Company, cost of import of ABS Flexible (AB10) or ABS Stiff (AB20) will be around euros 410 i.e. around Rs. 34,000/- inclusive of duty Custom duty, freight and Insurance. They have not quoted Rs. 50,000/- per Kg in their tender.

Point No. 6. Please note initial fill of 23 Kg resin is part of Machine cost. We have to top up 1 kg resin, after we make our parts weighing 1 Kg. This means the operating cost of resin is not 11,50,000/- but weight of the part in grams multiplied by Rs. 34/- only. Calculation shown by Director, BMS R & D centre is misleading.

Point No. 7. The company has liquid resin and not synterable powder. The respected director has not seen the machine working. If we are not using machine then we have to store the resin in it's original container and keep it in cool dry place away from sunlight. This will extend the resin life much beyond it's expiry period. And if we are using this machine regularly to provide services to the industry around Bengaluru, then this question will not arise at all. We have planned to use the machine to full capacity and run it for 365 days.

Point No.8 In our tender specifications we have not asked for any specific resin. Company submitted a sample, which we thought, will be useful to us.

As mentioned in point no. 5 – they do have transparent stiff resin.

General: According the Mr. Rohil Mehta, recurring cost per year is not Rs. 11,55,000/- at all. Comparing the 3 SP machine with AHA 3 D - is like comparing apple to pineapple. Accuracy of the parts produced is 18 times better. Resolution in Z axis is selectable from 25 to 100 microns – again 4 times better. Minimum quantity of resin to be stocked is as per our consumption and not 23 Kgs. The Machine cost is Rs. 44.25,000/- as per the tender document (latest version machine) and not Rs.65,14,470/-

The director should have commented at the stage when the tender documents were being prepared - which took 3 months. Even at the pre tender meet, these points were not spelled out.

It is really surprising to look at the letter tendered by the R&D Director as a comparison of 3D printer. It is like comparing to nano car to a high end car. I would like to bring to his notice that, Bangalore based entrepreneurs, Nikhil Velapur and Arvind nadig built

their own cost effective 3D printer, Brahma 3, which has a large build volume (240*240*240 mm), resolution of 50 microns per layer costing around 1 lakh only.

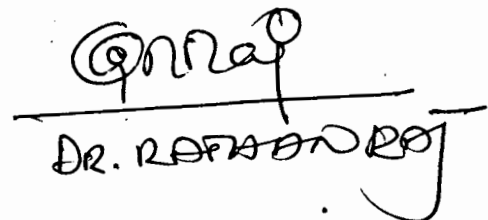
Sir, as I remember our beloved donour trustee late Sri. B.S.Narayan always wanted to have the best, reliable and durable product to be purchased by the institute. As an example, institute has purchased FUNAC CNC machine and DELL computers during 90's which are considered the best on those days. We are still proud of having these machines in our campus.

Before deciding on this 3D printing machine, I and Prof. Chandra babu, Associate Professor had visited RV College of Engineering (TEQIP partner) and seen the strasys product which is working on principle of Fusion Deposition Methods(FDM). After having the discussion with Dr. Krupashankar M S, Professor and the research assistant working, detailed us about the maintenance problems like cleaning the jet, clogging and other issues. The professor suggested this machine which works under different working principle (UV light) so that we can have collaborative activity with them. The students will have the opportunity to see both the machines.

After having through thinking and reasoning we had arrived at this machine which is maintenance free and suggested to procure.

Our effort is to move towards and trying to be in par with premier institutes like IISc, IIT.

Dr. Chandra Babu


DR. RAMESH BABU

B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019

THE LIST OF CONSUMABLES APPROVED BY THE SUB-COMMITTEE OF BOG FOR
PROCURING UNDER TEQIP-II & COE FOR RESEARCH ACTIVITIES BASED ON THE
REQUISITION BY THE FACULTY MEMBERS

SI No	Items	Estimated Total Cost (Rs.)	Approved Mode of Procurement	Requisitioned by the faculty of the department of
Sub-component 1.2				
1.	Xylan from Beech wood, D-Xylose, D-Galactose, D Arabinose, D-Mannose, D-Glucose	40,000/-	Shopping	Chemical Engg
2.	RNA isolation Kit, DNase and RNase free water, First strand cDNA synthesis kit, PCR primers for mouse SFRP 5, PCR primers for mouse PPAR-gamma:mouse, Beta actin Primers, PCR primers for mouse adiponectin, Trizol reagent, free glycerol reagent, Real time RT PCR kit	1,00,000/-	Shopping	Biotechnology

Sub-component 1.2.1				
SI No	Items	Estimated Total Cost (Rs.)	Approved Mode of Procurement	
1.	Al6061, SiC particles, Al6061 slabs, stainless steel slabs	1,40,000/-	Shopping	
2.	Die to manufacture MMC	60,000/-	Shopping	
3.	Germanium, Silicon, Aluminium, Acetone, Tellurium, silicon wafers and other consumables	1,50,000/-	Shopping	
4	Magneto Rheological Fluid, Basonetic 2040 MR Fluid from Basf, Simarubha oil, Carbonyl iron particles, Mahaue oil & Surfactant, Glassware, Burette and utensils	3,00,000/-	Shopping	

MEMBERS PRESENT:

1. Prof. D. Thukaram, Chairman
2. Sri. M. Krishnaswamy, Member
3. Dr. K. Mallikharjuna Babu, Principal & Convenor

NODAL OFFICERS/CO-ORDINATORS PRESENT:

1. Dr. G. N. Sekhar, TEQIP Co-ordinator I
2. Dr. L. Ravikumar, TEQIP Co-ordinator-II
3. Dr. K. R. Suresh, Nodal Officer – Financial Aspect
4. Dr. H. S. Guruprasad, Nodal Officer - Academic Activities
5. Dr. S. Gowrishankar, Nodal Officer - Academic Activities
6. Dr.M.S.Dharmaprakash, Nodal Officer-Procurement
7. Dr. K. Guruprasad , Nodal Officer - Equity Assurance Plan Implementation
8. Dr. C. Lakshminarayana, Nodal Officer - Equity Assurance Plan Implementation
9. Dr.M.Indiramma, Co-ordinator-IIIC
10. Dr.M.C.Sampath Kumar, Nodal Officer- CVEM
11. Sri.C.T.Puttaswamy, Nodal Officer- CVEM
12. Dr. M. Ramachandra, Principal Investigator & Co-ordinator, CoE

MEMBER PRESENT ON INVITATION:

1. Dr.Martin Jebaraj, Director-R&D

The Principal and the convenor of the sub-committee of BOG extended a cordial welcome to the members for the meeting.

1. Minutes of the tenth meeting of the BOG sub-committee held on 26.5.14.

The minutes of the tenth meeting of the BOG sub-committee held on 26.5.14 was read and recorded [Annexure-1].

2. Students Project Exhibition:

The TEQIP Co-ordinator-I informed the members that BOG has ratified the approval of the sub-committee for conduction of two day interdisciplinary technical symposium during Jan/Feb 2014 with an expenditure up to Rs.5 lakhs as an activity under IIIC of TEQIP II. He also informed that due to unavoidable circumstances, the college could not take up the activity during Jan/Feb 2014 and the said activity has been taken up in phases i.e., Student project presentations during May 2014, the final evaluation of the best projects at the institutional level during July 2014 & National Technical symposium during Sept.2014.

Further, the TEQIP Co-ordinator-I informed the members that Student project presentations were held on 21.5.14 and the distinguished personalities from industry/academia were invited as judges. Three projects from each department were selected and out of them, the following three projects are adjudged as best at the institution level for the academic year 2013-14 in the final evaluation conducted on 3.7.2014.

Sl. No.	Department	Title of the project	Name of the students	Guide's Name
1	Electrical and Electronics Engineering	Comparative study of the performance of a Novel Bifurcated Stator Winding and an Existing TSCAOI configuration of a Grid connected wind turbine generator	Vijay M N, Ashik Bopanna, Anish Rao, Gautham Tantry H	Dr.P.Meena
2	Instrumentation Technology	Communication Aid for Paralyzed Patients	Pooja BR , Varsha Bindu B.S, Yashashwini HN, Akshata Anand	Prof.Veena N. Hegde
3	Mechanical Engg	Compliant Bi-Modal Bi-Stable Easy Chair	Akshay Varik, Amit Kumar Singh, Anirudh N.Katti, Rahul R.Kamath, S.Darshan	Prof.H.K. Rangavittal

Further, the TEQIP Co-ordinator-I brought to the notice of the committee that the students namely Mr. Akshay Varik, Anirudh N. Katti and S.Darshan of the project titled 'Compliant Bi-Stable Easy Chair' had submitted their proposal during May 2014 seeking permission and financial assistance to compete in the 'American Society of Mechanical Engineers(ASME) Innovative Design Simulation Challenge 2014' scheduled to be held in

the ASME international Design and Engineering Technical Conference and computers and information in Engineering Conference[IDETC/CIE] at Buffalo, New York from August 17-20, 2014 and the said team was selected for finals and was invited through the communication dated 15.7.2014. Further, he informed the committee that the college accepted to reimburse the registration fee of Rs.32,550/- from TEQIP funds and provide financial assistance of Rs.1,39,342/- towards 50% of Air fare from the college funds. Also, brought to the notice of the committee that the said group of students have informed the college that they won in the 'commercial simulation software category of the event'

The committee took a note of the above and approved and ratified the reimbursement of the college to reimburse the registration fee of Rs.32,550/- to the students for the said event from TEQIP funds as an encouragement towards R&D activities.

National Technical Symposium- Phase Shift 2014

The Principal informed the members that the college has conducted National Technical symposium [PHASE SHIFT 2014] during September 6-8, 2014 with focus on enhancing industry institution interaction.

He informed the members that the PHASE SHIFT 2014 created a unique platform for the panel discussion on Industry-Institute Interaction, presentation of student projects, technical paper presentations by students, product presentations by the industry, interaction among the faculty and experts from the industry, workshops/seminars to the students from experienced resource persons from the industry, student competitions on various technical skill sets, interactions with Alumni having successful entrepreneurship background.

The Principal has made a brief presentation on the conduction of the PHASE SHIFT 2014 and its outcomes [Annexure-2]. He further informed the members that the event paved way for active participation of all the stakeholders in enhancing the industry-institute interaction, harnessing the graduate attributes of budding engineers as recognised, exposing the students' talent by encouraging them to participate in various technical competitions and promoting the need to innovate in the technical field through talks by eminent resource persons.

Further, the Principal informed the members that PHASE SHIFT 2014 was the brain child of Dr. G. N. Sekhar, Vice Principal & TEQIP Co-ordinator-I and thanked him for introducing a novel event and also expressed that the PHASE SHIFT would be conducted as an annual event henceforth.

The committee members appreciated the conduction of the event and accorded approval for the expenditure incurred from TEQIP-II Funds.

3. Action Plan for the period July 2014 to December 2016

The committee noted the communication from NPIU dated 25.6.2014 informing the project institutions to submit a work plan with targets and funds required till December 2016 as the project is likely to get extended by 2 years.

The committee also took a note of the action plan sent to SPFU & NPIU and approved the same [Annexure-3].

4. Audit of Accounts of TEQIP II & COE

The Committee perused the audited financial statements & audit report of TEQIP II & COE for the year 2013-14 submitted by the internal auditor, Sri. BN Jayaram [Annexure-4]. The committee also noted that the said accounts were audited by M/s GRSM Associates, appointed by SPFU.

It is further noted that the auditors [3 members] from CAG's Office audited the TEQIP – II accounts for the year 2013-14 on 21.8.2014 [Annexure-5].

5. Expenditure Status

The committee took a note of the Status of expenditure (Rupees in lakhs) under TEQIP–II as on 31.8.14 as mentioned below against the total release of Rs.700 lakhs from the SPFU till date.

Head of Expenditure	Total Allocation (Rs in lakhs)	Amount spent Out of Rs.700 lakhs received
Procurement	562.5	303.89
Assistantships	250	139.79
R&D	62.5	11.58
Faculty & Staff Development	125	88.72
III Cells	62.5	32.08
Capacity Development	25	18.71
Reforms	12.5	4.15
Student Support	25	3.62
Incremental Operating Cost	125	42.81
TOTAL	1250	645.35

The committee advised to initiate steps to enhance the number of activities under the heads of R&D and Student support[EAP].

6. Review of Diagnostic tests conducted to diagnose academically weak students

The committee noted that the NPIU sought information about the diagnostic tests conducted in the college to identify academically weak students through their communications dated 25.6.14 & 4.8.14. The committee noted the details forwarded to NPIU and informed the Concerned Nodal Officers, Dr.K.Guruprasad and Dr.C.Lakshminarayana to once again check the number of students with economical weak background [Annexure-6].

7. Submission of records & documents for inspection to SPFU Staff

The committee took a note of the SPFU's communication dated 3.7.2014, informing the colleges to maintain the documents & records in specified formats and make them available to the officials of SPFU if need be. Further, it is also noted SPFU sought information on category wise [Gen/SC & ST] expenditure incurred.

8. Pedagogical Training

The committee took a note of the communication of NPIU dated 4th July 2014 permitting the institutions for the conduction of pedagogical training for the faculty members of the college [Annexure-7] and for deputing the faculty to undertake pedagogical training at IITs, IIMs, IISC and the IISERs or other institutions that are commensurate in reputation and quality with the above said institutions.

The committee also noted that in a meeting of the Principals, programme co-ordinators and Training Nodal officers of TEQIP institutions of the state, the SPFU had informed about the Mission 100% pedagogy and it was resolved to permit the institutions to conduct pedagogical training at the college by following a specified Module drawn in the said meeting. The committee also noted that the SPFU requested all the colleges to draw a road map for covering 100% faculty for the pedagogy training by making them groups with varied experience.

The TEQIP Co-ordinator-I appraised the members that one such training program was conducted for thirty faculty members as per the specified module during August 2014. The committee took a note of the same and informed to conduct these trainings to cover 100% faculty members.

9. QEEE Committee Meeting

The committee noted that the NPIU convened a meeting of the Principals on 16.7.2014 at New Delhi and appraised them about the Direct-to-student module of the QEEE committee set up by the MHRD.

The Principal informed the committee that the meeting was conducted for collecting feedback from various institutions regarding effective implementation of the Direct-to student module.

10. Disclosure Management Framework

The committee took a note of the report submitted to NPIU on the Disclosure Management Framework in the prescribed format [Annexure-8].

11. Change of State Project Co-ordinator, SPFU :

The committee noted that Sri. Manohar G. Naik has assumed the charges of Officer on Special Duty [OSD] & State Project Coordinator from Sri. Sharan C. Padashetty on 31.7.14.

12. Good Governance Website:

The committee noted that the NPIU has updated the website maintained by them regarding Good Governance extensively and sought suggestions for improvement.

The committee took a note of NPIU's directions dated June 26, 2014 for submission of a Good Governance Plan from all the institutions on or before 31.10.14. The Principal informed the committee that he had prepared a draft 'Good Governance Plan' and would be sending it to the committee members shortly.

The Principal informed the committee about the NPIU & SPFU's communication received regarding the conduction of 'Good Governance, Leadership & Management workshop' by NPIU at Metropolitan Hotel, New Delhi scheduled on 16th & 17th October 2014 and requested Prof.Thukaram, Chairman, BOG-Sub committee to participate in the said workshop on behalf of the BOG along with the Principal. Prof. Thukaram agreed to confirm after verifying his schedule.

13. Schedule of Mentoring, Performance Auditing, Data auditing

The committee took a note of NPIU's communication informing the institutions to adhere to the stipulated schedule for completion of second round of mentoring, Performance audit and data audits. The committee also took a note that 2nd Round of Mentoring, Performance Auditing & Data Auditing are to be completed by 30th July 2014 and reports of the same be submitted by 15th August 2014.

The TEQIP Co-ordinator-I informed the members that the second mentoring was conducted during 28th- 29th November 2013 and the college is awaiting for the confirmation of dates by the performance auditor.

14. Release of 3rd instalment of Fund

The committee noted the communication of NPIU dated 11.8.2014 about the release of Rs.150 lakhs as 3rd instalment of grants for the year 2014-15 towards central share. The committee also noted that including the State's share, the third instalment of grants would be Rs.200 lakhs. The institution is awaiting the release of third instalment of grants from SPFU.

15. Transfer of staff to TEQIP Office

The committee noted that Smt.S.Veena, Accounts Clerk working in the Accounts Section is transferred to TEQIP office in place of Smt.H.Roopa [Memo dated 1.8.14-Annexure-9]. The committee also noted that the salary of Smt.H.Roopa is being met from college funds and salary of Smt. Veena S i.e., consolidated salary of Rs.12,000/- per month is being met from TEQIP funds from 1.8.2014 onwards. The committee approved the same.

16. Contribution to ESI from the salary of office staff

The committee consented for implementation of the prevailing norms of ESI to the staff appointed at the office of TEQIP-II & COE [1.75% on gross salary of employee to be deducted from the employees' salary plus 4.75% of gross salary of individuals being Employer's share] with effect from July 2014.

17. Approval to the faculty/staff attending programs.

- a) The committee took a note of the consolidated list of the approvals of the sub-committee obtained by circulation for deputing faculty/staff members to attend various programs & conducting programs under TEQIP II/COE [Annexure-10].
- b) The committee also took a note of the details of faculty/staff members seeking approval for conducting/attending various programs under TEQIP II/COE [Annexure- 11] and approved the same.
- c) The committee also took a note of the consolidated list of approvals of the sub-committee obtained by circulation for deputing students/research scholars to attend various programs under TEQIP II/COE [Annexure-12].

- d) The committee took a note of the representation of Dr.Varaprasad seeking financial assistance to present his paper in the IEEE-ICT Innovations conference 2014 to be held at Ohrid, Republic of Macedonia from 9th- 12th Sept.2014. The committee approved reimbursement of only registration fee to him from TEQIP funds.
- e) The committee noted that the papers submitted by Dr.K.Mallikharjuna Babu, Dr. B. Kanmani, Dr. Rajeshwari Hegde, Sri. Manjunath P S, Dr. Nagabhushana & Dr. P. Meena are accepted for presentation at WEEF 2014 conference to be held at Dubai from 3rd-6th December 2014. The Principal informed the committee that four papers authored by seven faculty members have been accepted for presentation in the said conference and Dr.B.Kanmani, Dr.P.Meena and himself are the organisers of the first international conference scheduled to be held in the college during January 2015. The committee approved the payment of registration fee of 1,560 USD through wire transfer under TEQIP II.

18. Conduction of International Conference

The Committee took a note that BMSCE is conducting the second international conference on **Transformations in Engineering Education [ICTIEE- 2015]** during January 5-8, 2015. This conference is conducted by BMSCE as a consortium member of Indo-US collaboration for Engineering Education [IUCEE]. The committee perused the proposal of Dr.B.Kanmani, HOD-TCE for conducting the said conference under TEQIP-II & request for financial assistance to the extent of Rs.27 lakhs out of the estimated expenditure of Rs.45 lakhs. The Principal also briefed the committee on the activities initiated towards the conduction of the said conference along with a presentation of the conference website, the sponsors from industries.

The Principal informed the committee that to commemorate the 70th year of commencement of the institution, it is proposed to conduct 7 international conferences during the year 2015 and called upon Dr.K.R.Suresh and Dr.S.Gowrishankar to present the details of the conferences proposed by them.

Dr.K.R.Suresh, Professor, Civil Engineering made a brief presentation of the proposed international conference on 'Micro perspectives for decentralised energy supply' scheduled to be held during April 21-25, 2015 and requested for a financial assistance of Rs.10 lakhs towards the same.

Dr.S.Gowrishankar, HOD-ISE made a brief presentation of the proposed international conference on '2015 IEEE International Advance Computing Conference' scheduled to be held during June 12-13, 2015 with a budget of Rs.60 Lakhs and requested for financial assistance from TEQIP.

After detailed deliberations, the committee accepted for the release of Rs.7 lakhs for each of the 7 proposed international conferences scheduled to be held during 2015 in the college from TEQIP II funds.

19. Review of progress of procurement:

- a) The committee took a noted the revised procurement guidelines, changes of threshold for various modes of procurement, issued by the NPIU [Annexure-13].

b) Information regarding Post Procurement Audit reports of NPIU

The committee noted the NPIU has conducted the post procurement audit on selected two procurement packages, observation of the said audit about a delay of 6 days in delivery completion period and delay of payment to vendor and NPIU's instructions to the institution to avoid such delay in future procurements [Annexure-14]. The committee also perused the report submitted by the college in the prescribed format, on post review actions and the steps being initiated to provide realistic delivery period.

c) Expert committee meeting on 3D printer machine

The members took a note of the minutes of meeting of the committee constituted to evaluate the requirement and the bid received for procuring Rapid proto typing system-3D printer that met on 10th June 2014 [Annexure-15].

d) TEQIP II Procurement Status as on 31st August 2014

The committee took a note of the status of procurement under TEQIP II till the end of August 2014 as mentioned below:

Description	Value
Total Allotment under Procurement	Rs.562 Lakhs
Procurement completed	Rs.304 Lakhs
Packaged delivered and installation in process	Rs. 13 Lakhs
Purchase orders released & waiting for delivery	Rs. 86 Lakhs
Initiated and In process (Quotation Receiving Level)	Rs. 47 Lakhs
Packages to be initiated	Rs.112 Lakhs

e) Permission to make changes in the approved procurement plan:

The committee took a note of the changes proposed as mentioned below in the approved procurement plan and approved the following changes in the previously approved procurement plan.

Sl No	Item	Current Estimated Cost (Rs.)	Approved Mode of Procurement	Permission sought for	Justification
1	Workstations	27,00,000/-	NCB	Cost escalation of 12.5% on the estimated cost from 24 Lakhs to 27 Lakhs.	Change in specification in line with the technology change.
2	Link Load Balancer	4,00,000/-	Shopping	Inclusion of item in place of two cancelled packages of Multi-Protocol Wireless Router & Network Simulator estimated at Rs.3,70,000/-	Change of item in line with the technology change.

f) The committee also noted the consolidated list of changes as mentioned below approved by the committee by circulation.

Sl. No.	Item	Current Estimated Cost	Approved Mode of Procurement	Permission sought for	Justification
1	Digital Repository	Rs.46,00,000/-	NCB	Inclusion of new item in place of the cancelled package – 3D printing machine	The package as a central facility augments the IT enabled Teaching Learning Process
2	Automations Studio V 5.7 Software	Rs.9,90,000/-	Direct Contracting	Inclusion of the item in the procurement plan	The package is required for PG Computational Lab of Department of Mechanical Engg
3	Canon EOS 5 D Mark III Kit(EF 24-105 mm f/4L IS USM)SLR	Rs.2,35,000/-	Shopping	Inclusion of new item in place of the cancelled package – PMSM Drive & Slip Ring Induction Motor drive	For research purpose
	Konica Minolta 3D laser scanner/ digitizer VIVID 910/VI-910	Rs.6,00,000/-	Shopping		

20. Fiscal incentive to UG Projects

The TEQIP Co-ordinator-I brought to the notice of the members that a few faculty members are seeking for increasing the maximum limit for fiscal incentive being awarded to UG students for their research project from Rs.10,000/- per team to Rs.20,000/-. The committee accorded approval for the award of Rs.20,000/-[maximum] as fiscal incentive to UG students for their Research project for each batch with due recommendation of the committee & HOD for the students starting from the academic year 2013-14.

21. Review of activities of Centre of Excellence on Advanced Materials

(a) New M.Tech. Program entitled 'Manufacturing Science & Engineering'

Dr. M. Ramachandra, Principal Coordinator of the COE, informed the committee that admissions to the said program for the academic year 2014-15 are in progress.

(b) Review of the activities of the COE organised by NPIU

The committee took a note about the presentation made by the members of the COE on 'progress in the activities of COE' before the Review Committee as per the NPIU instructions. The committee also took a note of the NPIU's communication on the observations of the review committee and the action plan submitted by the college in this regard [Annexure-16].

(c) Status of procurement under the COE in Advanced Materials Research

The committee took a note of the following status of procurement under COE and also noted the change in the mode of procurement from LIB to NCB in case of XRD Equipment and Scanning Electron Microscope as per the instructions of SPFU & NPIU and approved the same.

Item	Estimated Cost (Rs.)	Approved Mode of Procurement	Status
Abrasive Water Jet Cutting Machine	89,51,570/-	NCB	Purchase Orders issued and VTU Customs Duty Exemption Certificates have been secured. Delivery and Installation of equipment is expected to complete during September.
Dual Sputtering Equipment	17,87,345/-	NCB	
FTIR Spectroscopy Equipment	9,75,000/-	NCB	
Precision Impedance Analyser	12,42,637/-	NCB	
XRD Equipment	70,00,000/-	NCB	SPFU and NPIU have advised to process the procurement through NCB and NCB process has been initiated
Scanning Electron Microscope	1,00,00,000/-	NCB	

d) Expenditure Status

The committee took a note of the Status of expenditure (Rupees in lakhs) under Centre of excellence as on 31.8.14 as mentioned below against the total release of Rs.333.33 lakhs from the SPFU till date.

Head of Expenditure	Allocation	Amount spent	Committed expenditure as on 31.8.2014	Expenditure in Pipeline as on 31.8.2014
Procurement	275	0	129	170
Assistantships	50	0	0	0
R&D	50	3.94	0	0
Faculty & Staff Development	50	0	0.59	0
III Cells	25	0	0	0
Incremental Operating Cost	50	3.87	0.20	2.85
TOTAL	500	7.81	129.79	172.85

The committee expressed its concern on the nil expenditure made under the heads of R&D, FSD and IIIC and advised the Coordinator & other investigators of COE to initiate steps to enhance the number of activities under these heads.

22. Any other items with the permission of the Chair

a) Procurement of consumables under TEQIP II & COE:

The TEQIP Co-ordinator-II briefed the members about the discussions held in the 'workshop on procurement' organised by NPIU at PSG College of Tech, Coimbatore on 22.8.2014. He informed the members that the consultants from NPIU have opined that the purchase of consumables could be allowed for research activities under IOC or R&D by following the college norms with due approval of BOG.

After detailed deliberations, the committee approved the purchase of consumables required for the R&D activities through shopping following the college norms. The committee further advised that if a set of consumables are being sold directly by the sole manufacturer, procurement be permitted on single quote.

- b)** The committee perused the research proposal submitted by Dr.V.Saisha, Faculty of Bio Technology and Dr.M.Rajyalakshmi, HOD-Bio Technology titled “Development of DNA based targeted drug delivery system” and approved the procurement of following consumables.

Particulars of consumables	Estimated cost (Rs)
DNA origami structure (20 pm)	3.6 Lakhs
Fusion protein (Tag free protein + Orexin) – to be imported	
Cell penetrating protein Orexin A - to be imported	
Scanning Electron Microscopy (SEM) or Transmission Electron Microscopy (TEM) to obtain DNA origami images analysis	

The meeting concluded with a vote of thanks to the chair.

Sd/-

Dr. K. Mallikharjuna Babu
Principal & Convenor

sd/-

Prof. D. Thukaram
CHAIRMAN



BMS COLLEGE OF ENGINEERING, BANGALORE - 560 019

[Autonomous College under VTU]

Details of Project [On-Going and Completed]

Details of On-Going Projects [External]

SNo	DEPT	Name of the Faculty	PROJECT TITLE	DETAILS		
				Agency	Date of Sanction	Amt in Lakhs
1	MCA	Dr.K.Vijay Kumar	Teacher Recruitment Modelling using Partitioned Based Data Mining Techniques	UGS	March 2014	5.86
2	EE	Dr.Chandasree Das	Investigation on materials dependence of electrical switching phenomenon memory applications"	SETB	03.09.13	18.90
3	PHY	Dr.T.S.Pranesha	Modelling Atmospheric Pollution and Networking (MAPAN)	IITM, Pune	30.08.13	20.32
4	CS	Dr.Uma Devi	Trends and Challenges of Android Computing	AICTE	29.07.13	0.50
5	ME	Dr.M.Ramachandra Dr.S.Srinivas	Evaluation of Machining Characteristics of Squezy Cast Aluminum Matrix Composite Modernization of Digital Communication Lab	AICTE RPS	15.07.13	10.75
6	ME	Dr.M.Ramachandra Dr.S.Srinivas	Establishing Centre of Excellence in Advanced Materials Research	TEQIP	12.07.13	500.00
7	TCE	Dr.B.Kanmani	Modernisation of Digital Communication Lab	AICTE	12.07.13	9.17
8	TCE	Dr.B.Kanmani	Study Design Implementation and performance Analysis of Wireless Communication Concepts	AICTE	04.06.13	100.00
9	CH	Dr.Chetan A Nayak	Seed Money for Young Scientist for Research	VGST	19.03.13	5.00
10	CS	Dr.G.Varaprasad	Wireless Communication Lab	AICTE	04.02.13	8.30

SNo	DEPT	Name of the Faculty	PROJECT TITLE	DETAILS		
				Agency	Date of Sanction	Amt in Lakhs
11	ME	Sri.C.K.Chandrababu Dr.G.Varaprasad Dr.H.B.Nagaraj	"Instrumentation and Field Studies on In-situ Extraction of Tender Coconut Water from Coconut Tree	DST	30.10.12	20.00
12	CV	Dr.K.R.Suresh	Advanced Irrigation Scheduling for Sustainable Development	VTU	05.05.12	10.00
13	BT	Dr.M.Rajyalakshmi Dr.Savithri Bhat	A Study on the expression of Sum0 (Small Ubiquitin like Modifiers) and SUMoylation Pathway genes	VTU	05.05.12	5.00
14	ME	Sri.C.K.Chandrababu Dr.G.Varaprasad Dr.H.B.Nagaraj	Instrumentation and Field Studies on Extraction of Tender Coconut water from Coconut Trees	AICTE	15.05.12	7.30
15	CS	Dr.G.Varaprasad	"Violation Detection Method for Vehicular Ad Hoc Networking"	VGST, GOK	14.02.12	04.00
16	ME	Dr.K.Guruprasad	Modernization of Machine Shop	AICTE	03.11.11	8.00
17	IM	Dr B Ravishankar	Benchmark and Critical Analysis of Noise to design comfortable work zones	AICTE	22.11.11	9.50
18	ME	Dr L Ravi Kumar	Damping and Stiffness Characteristics of Non-Newtonian Fluids in Squeeze Film Dampers used as External Medium	AICTE	24.11.11	10.75
19	TC	Dr B Kanmani	Signal Processing in Engineering Education	AICTE	31.03.11	9.00
20	IM	Dr.K.J.Rathanraj	CAS Grants Research promotion	AICTE	31.03.10	12.00
21	CV	Dr H S Jagadeesh Sri.H.S.Satish	Comprehensive Transportation Planning For the Selected Zones in Bangalore City Development of Pavement Deterioration Models for Urban Roads	MOUD	29.11.10	25.00
22	ME	Dr L Ravi Kumar	Effects of Temperature & Damping	AICTE	23.12.10	16.94
Total Amount in Lakhs						816.29 Lakhs



BMS COLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous College under VTU)

List of Project proposal submitted to various funding agencies by our faculties

Sl.No	Name of the Faculty	Dept	Date Applied	Title of Project	Agency to which Applied	Amount
1	Dr.S.Srinivas	Mechanica	31.1.14	Development of Forged Aluminum Metal Matrix composites over Al-Si	AICTE	2400000
2	Dr.K.R.Suresh	CV	31.1.14	Smart Irrigation for Sustainable Development	AICTE	2535000
3	Dr.K.Mallikharjuna Bab	Mechanica	7.1.14	Indegenous Development of Magneto Rheological Fluid	AICTE	2437000
4	Dr.Rajeshwari Hegde	TCE	9.1.14	Modernization of RF Communication Lab	AICTE	1966000
5	Dr.G.Varaprasad	CSE	28.1.14	IEEE Conference on Network and Computer Science (IEEE ICNCS 2014), Manila Philippines	AICTE	171000
6	Dr.G.Varaprasad	CSE	28.1.14	Analysis of Network partition problem in Mobile Ad Hoc Network	AICTE	1166000
7	Dr.H.S.Jagadeesh	CV	25.5.14	Development of simulation model for level of service for urban streets under	AICTE	1700000
8	Vijayalakshmi	ML	30.7.14	Infrastructure enhancement of biomedical wireless data acquisition facilities in biomedical signal process	K-FIST	900000
9	Abhisek Appaji	ML	30.7.14	Retinal screening for systemic disease	SYMSR	258199
10	Sujatha D N	MCA	31.7.14	Development of Social Mobile Analytics Cloud (SMAC) Lab	K-FIST	900000
11	Meena	EEE	31.7.14	Design and development of a smart integrted power grid test bed	K-FIST	2000000
12	Suma M N, Sudhindra,	ECE	21.7.14	Enhancement of Testing and measurement facilities in wireless communication lab	K-FIST	100000
13	Sudhindra	ECE	21.7.14	Monitoring of concrete structures using wireless sensor network for surveillance	SYMSR	400000
14	Harish Mekali	ECE	31.7.14	Solar power smart irrigation for sustainable development using IoT (Internet of Things)	CISEE	850000
15	Nagasree	Chy	24.7.14	Mixed metal oxide based electrode materials for electrochemical sensing and electrocatalysis	SYMSR	360000
16	Nagasree, Dharmaprak	Chy	26.7.14	Hybrid Nanomaterials for application in energy devices in green environment	CESEM	2000000
17	Prapulla Rao	BT	31.7.14	Treatment of high strength waste water using Anaerobix moving bed digester	SYMSR	360000
18	Savithri Bhat	BT	29.7.14	Protein profiling of mammalian cells treated with withanolides to relieve oxidative stress	K-FIST	100000
19	Rajeswari Hegde	TCE	31.7.14	Centre for non-conventional energy for automotive applications	CENTRE FOR NON-CONVENTIONAL ENERGY FOR AUTOMOTIVE APPLICATIONS	2000000
20	Ashok Kumar	TCE	31.7.14	Cloning, over expression, purification and Biochemical and Biophysical Studies on Human Phospholipid Sc	K-FIST	
21	Sambhavi	ISE	28.7.14	A novel framework for Lingual information retrieval in Indian Languages	SYMSR	360000
22	Reshmidevi	CV	30.7.14	Detection and attribution of the streme flow variability in purview of climate change in the Tungabadra ca	SYMSR	276000
23	Dr.Madhu	Chy	18.7.14	Stereoselective Synthesis of Substituted Cyclic Amino Acid Derivatives	VGST	400000
24	Dr.Madhu	Chy	4.7.14	Catalytic Asymmetric Reactions Involving Schiff's Base and Their Application to the Synthesis of Chloramp	CSIR	1450000
25	Dr.Ganesh	Phy		Total Column ozone measurement in and around Bangalore and validating with satellite data	MOES	1600000
26	Dr.Shanker	R&D Chy	21.4.14	Optically Active Hybrid Nano material formed by Dyes for the application	BRNS	2495520

B.M.S. COLLEGE OF ENGINEERING - BENGALURU -560 019									
DETAILS OF ADMISSION MADE TO FIRST SEMESTER M.TECH/M.ARCH /PDM AS ON 30.09.2014									
SL. NO.	Branch	CODE	Intake	CET	MGT	ADMITTED		VACANCY	EXCESS
						CET	MGT		
1	Transportation Engineering & Management	CTM	18	15	3	15	4	-	1
2	Environmental Engineering	CEE	18	18	0	18	0	-	-
3	Construction Technology	CCT	18	18	0	18	1	-	1
4	Machine Design	MMD	18	18	0	18	-	-	-
5	Manufacturing Science and Engineering		24	19	5	19	2	3	-
6	Power Electroics	EPE	18	18	0	18	-	-	-
7	Digital Communication	LDC	18	18	0	17	-	1	-
8	Electronics	LEL	18	18	0	18	-	-	-
9	VLSI and Embedded Systems	LVZ	24	19	5	19	5	-	-
10	Computer Science & Engineering	SCS	18	18	0	18	-	-	-
11	Computer Net Working and Engineering	SCN	18	15	3	15	3	-	-
12	Habitat Design [M. ARCH]	AHD	18	15	3	9	3	6	-
13	Bio Chemical Engineering	BCE	24	19	5	17	-	7	-
14	Bio Medical Signal Processing & Instrumentation	LBI	24	19	5	16	4	4	-
15	Product Design and Management	MDZ	25	25		25	-	-	
	Total		301	272	29	260	22	21	2

m
30/9/14.

Registration)

Principal)

30/9/14

Kep
30/09/14

Annexure - XIII



BMS College of Engineering
List of Research Scholars admitted during 2013

SIn	Name of the Research Scholars	Department	Guide	Ph.D/ M.Sc(Engg)
01	Ms. D.V. Rajeshwari Devi	Electronics	Dr. K. Narasimha Rao	Ph.D
02	Ms. Anitha S Shastry	Electronics	Dr. Akhila S	Ph.D
03	Ms. Hemavathi	Electronics	Dr. S. Akhila	Ph.D
04	Ms. Pushpavathi K P	Electronics	Dr. B Kanmani	Ph.D
05	Mr. Manohara S R	Electronics	Dr. B. Kanmani	Ph.D
06	Ms. Preethi K Mane	Electronics	Dr. K Narasimha Rao	Ph.D
07	Mr. M.N.Satish	Electronics	Dr. Vasundara Patel	Ph.D
08	Ms. Asha K.S	Electronics	Dr. B.Kanmani	Ph.D
09	Ms. Archana H R	Electronics	Dr. Vasundara Patel	Ph.D
10	Mr. T N Venkataramana	Electronics	Dr. B.S. Nagabhushana	Ph.D
11	Ms. M Vasantha Lakhmi	Electronics	Dr. B. Kanmani	Ph.D
12	Ms. Vani A	Electronics	Dr. Mamatha M N	Ph.D
13	Ms. D.R. Sasirekha	Mathematics	Dr. Veena Jawali	Ph.D
14	Anthony Christy Melson	Mathematics	Dr. G.N.Sekhar	Ph.D
15	Mr. Prashanth N	Civil	Dr. C.R. Ramakrishnaiah	Ph.D
16	Ms. Varsha B N	Civil	Dr. S. Raghunath	Ph.D
17	Mr. Nitin Prakash	Civil	Dr. S. Muralidhara	Ph.D
18	Mr. Manish S	Civil	Dr. S. Raghunath	Ph.D
19	Mr. K.P Pradeep Raja	Civil	Dr. K R Suresh	Ph.D
20	Mr. M B Ujjwal	Civil	Dr. M.C. Sampath Kumar	Ph.D
21	Mr. Dheeraj N Kumar	Civil	Dr. H.S. Jagadeesh	Ph.D
22	Mr. Vinay Kumar S Mathad	Civil	Dr. H.S. Jagadeesh	Ph.D
23	Mr. Venugopal G	Civil	Dr. Sureka Nagesh	Ph.D
24	Mr. Ashwin M Joshi	Civil	Dr. S. Raghunath	Ph.D
25	Mr. Saravan A Kanalli	Civil	Dr. Sureka Nagesh	Ph.D
26	Mr. Selva Kumar S	Comp Science	Dr. Gowrishankar	Ph.D
27	Ms. Jagadishwari V	Comp Science	Dr. V. Uma Devi	Ph.D
28	Mr. Prakash	Comp Science	Dr. Gowrishankar	Ph.D
29	Ms. Ambika K	Infm. Science	Dr. Radhika K R	Ph.D
30	Ms. Mahalakshmi B.S	Infm. Science	Dr. Sheela S V	Ph.D
31	Ms. Nalini M K	Infm. Science	Dr. Radhika K R	Ph.D
32	Ms. M.V. Sireesha	Infm Science	Dr. Sheela S V	Ph.D
33	Mr. Chethan Venkatesh	Infm Science	Dr. Shiva Murthy G	Ph.D



Sln	Name of the Research Scholars	Department	Guide	Ph.D/ M.Sc(Engg)
34	Mr. P. Suresh	Inf. Science	Dr. Radhika K R	Ph.D
35	Ms. Sreelatha R	Inf. Science	Dr. P Jayarekha	Ph.D
36	Ms. Anitha H M	Inf. Science	Dr. P Jayarekha	Ph.D
37	Ms. Sindhu K	Inf. Science	Dr. H.S. Guruprasad	Ph.D
38	Mr. H.M Shivaprasad	Mechanical	Dr. Giridhar	Ph.D
39	Mr. Ram Rohit V	Mechanical	Dr. K. Mallikarjuna Babu & Dr. Martin Jebraj	Ph.D
40	Mr. Krishnakanth Puttagunta	Mechanical	Dr. Ravikumar L & Dr. H.P. Jagadish	Ph.D
41	Mr. Madav Murthy	Mechanical	Dr. K. Mallikarjuna Babu & Dr. P Martin Jebbaraj	Ph.D
42	Mr. Venkatesh R	Mechanical	Dr. S.Srinivas	Ph.D
43	Mr. B.S. Sreekanth	Mechanical	Dr. P Martin Jebbaraj	Ph.D
44	Mr. Shivakumar R	Chemical	Dr. Samita Maitra	Ph.D
45	Mr. N Suresha	Chemistry	Dr. Kalyan Raj	Ph.D
46	Mr. Shivakumar M	Chemistry	Dr. Dharmaprakash M.S	Ph.D
47	Mr. Md. Shaheriaz	Electrical	Dr. C. Lakshminarayana	Ph.D
48	Ms. Shefali Jagwani	Electrical	Dr. L Venkatesha	Ph.D
49	Mr. Prakash D B	Electrical	Dr. Lakshmi Narayana C	Ph.D
50	Ms. Madhumathi P	Architecture	Dr. Lekha Hegde	Ph.D
51	Mr. Anup Naik	Architecture	Dr. Mamatha P Raj	Ph.D
52	Ms. Mamatha Kulkarni	MBA	Dr. S. Nagendra	Ph.D
53	Ms. Bendigeri Shailaja	MBA	Dr. S. Nagendra	Ph.D
54	Mr. Yathiraju K	MBA	Dr. B.N.Shubha	Ph.D
55	Ms. Nandini M	MBA	Dr. Shubha B.N	Ph.D
56	Ms. Suhasini A V	IEM	Dr. B.R. Ramji	Ph.D
57	Mr. Raja G	Mechanical	DR. Giridhar G	M.Sc(Engg.)
58	Mr. Balaji Rahavendra.S	Mechanical	Dr. K Guruprasad	M.Sc(Engg)
59	Mr. Partha Pratim Nandy	Civil	Dr. S. Muralidhara	M.Sc (Engg.)
60	Ms. Namratha Bharadwaj	Civil	Dr. H.B. Nagaraj	M.Sc(Engg.)
61	Ms. Ashwini B V	Civil	Dr. S Muralidhara	M.Sc(Engg.,)
62	Mr. Keerthan U S	Mechanical	Dr. H.P. Jagadish	M.Sc(Engg.,)
63	Ms. Teesta V Katte	Bio-Tech	Dr. M Rajyalakshmi	M.Sc (Engg.)