# BMS COLLEGE OF ENGINERING, BENGALURU-19
# BOARD OF GOVERNORS (BOG)
## Minutes of 64th Meeting
## January 11, 2017

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# BMS COLLEGE OF ENGINERING, BENGALURU-19
## BOARD OF GOVERNORS (BOG)
### Minutes of 64th Meeting

### January 11, 2017

MEMBERS PRESENT:

| | | |
|---|---|---|
| 1. | Dr.P.Dayananda Pai | Chairman |
| 2. | Dr.B.S.Ragini Narayan | Member |
| 3. | Sri.K.Jairaj, IAS (Retd) | Member |
| 4. | Dr.D.Thukaram | Member |
| 5. | Sri.M.Krishnaswamy | Member |
| 6. | Col. (Retd.,) H.S.Shankar | Member |
| 7. | Dr.H.N.Suma | Member |
| 8. | Dr.K.Mallikharjuna Babu | Member-Secretary |

LEAVE OF ABSENCE:

| | | |
|---|---|---|
| 1. | Dr.B.V.Ravishankar | Member |
| 2. | Sri.H.U.Talawar | Member |
| 3. | Prof.Nirmal Singh Sehra | Member |

INVITEES:

1. Col.(Retd.) Arun Bhandarkar
2. Dr.H.S.Jagadeesh
3. Sri.Panchakshari
4. Dr.K.Guruprasad
5. Sri.Gautham Kalathur

The Chairman, BOG, extended a cordial welcome to all the Members & Invitees to the meeting. The Chairman and Member-Secretary extended New Year wishes to all the members.

*With the permission of the Chairman, the Member-Secretary informed the change of members in BOG, which are as follows:*

***Welcoming the newly inducted Members:***

The Member-Secretary apprised the Board that the Council of Trustees, BMSET has nominated Col. (Retd.,) H.S.Shankar, Chairman & Managing Director, Alpha Design Technologies Pvt., Ltd., as Member of the BOG of BMSCE. The Member-Secretary also apprised that Col. (Retd.,) H.S.Shankar is alumni of our College (1964 Electrical Engineering).

Further, the Member-Secretary apprised that the Council of Trustees, BMSET has nominated Dr.B.V.Ravishankar, Vice Principal and Dr.H.N.Suma, Professor, Department of Medical Electronics as Members of the BOG.

The BOG took note of the same and welcomed the newly inducted members on the Board. Further the Board placed on record its appreciation to Dr.G.N.Sekhar and Dr.Ravishankar Deekshit for the valuable services rendered.

The Member-Secretary informed the Board that the Indo Universal Collaboration for Engineering Education (IUCEE) has recognized our institution as "Excellent Institutional Transformations in Engineering Education" and the award was presented to the institution in the Fourth International Conference on Transformations in Engineering Education (ICTIEE 2017) held during January 6-8, 2017 at Hyderabad. The Board placed on record its appreciation to the efforts put in by the Principal, Staff and all the Stakeholders.

## Section 1: ITEMS FOR CONFIRMATION

### 1.1 CONFIRMATION OF THE MINUTES OF THE 63RD BOG MEETING HELD ON 4TH AUGUST 2016

The minutes of the 63rd meeting of the Board of Governors (BOG) held on 4th August 2016 were confirmed.

## Section 2: ACTION TAKEN REPORT

### 2.1 TO NOTE THE ACTION TAKEN ON THE DECISIONS / RESOLUTIONS OF THE 63RD BOG MEETING HELD ON 4TH AUGUST 2016

The BOG noted the Action Taken Report of the 63rd meeting of the BOG held on August 4, 2016 and approved.

**Section 3: COLLEGE REPORT**

### 3.1 REPORT OF THE ACADEMIC ACTIVITIES OF THE COLLEGE

The Member-Secretary informed that the monthly activity report of the college is being sent by email (during the second week of every month) and the hard copies of the Annual Activity Report (January to December 2016) were placed on the table. The Member-Secretary also presented some of the important activities held from August 2016 to December 2016 and its outcomes. The Board noted and appreciated the report.

While on the subject, the Member-Secretary informed the Members that Sri.Harish V Mekali, faculty, Department of Electronics and Communication Engineering has developed a product on Remote Monitoring System for R.O. Water Purification Plant. He then requested Sri.Harish V Mekali to make a brief presentation on the product.

He presented that as a part of Shuddha Neeru Project, the Government of Karnataka has initiated the installation of 11,163 R.O. water purification plants across the state to provide the potable drinking water to the people at 10 Paisa per litre. The individual status and cumulative status of all the R.O. plants is very much essential to measure the impact of the project and maintenance. To monitor the above said water purification plants, a cloud server and a wireless Internet of Things (IoT) is required. A cloud server (www.sensorsmonitor.com) and a wireless BMS-IoT has been developed by him and his team from scratch. The product Wireless BMS-IoT module is used to communicate R.O. water purification plant status (quality and quantity of the water purified) to the cloud server using GSM/GPRS infrastructure. The Data on the cloud server can be viewed from anywhere across the world using Internet Protocol (IP) enabled devices like mobile phone, tablets and computers. The PPT is enclosed at Annexure-I.

The Board noted the efforts of Sri.Harish V Mekali in bringing out a product using technology transfer with social relevance.

## Section 4: INFORMATION ITEMS

### 4.1 REPORT REGARDING EXTENSION OF AUTONOMOUS STATUS

The Member-Secretary apprised the Board that the UGC expert committee visited the institution on 26.08.2016 and 27.08.2016 and conducted evaluation towards Extension/Conferment of AUTS – UG & PG programmes for the period 2016-17 to 2021-22.

The Joint Secretary, UGC through his communication dated 24.11.2016 has conveyed that the UGC is of the opinion that Extension of Autonomy be granted for the period 2016-17 to 2021-22 (six years) subject to submission of the compliance report to the UGC. Accordingly a report has already been submitted.

The Board noted the submission of the compliance report to the UGC.

### 4.2 ANNUAL QUALITY ASSURANCE REPORT (AQAR) SUBMITTED TO NAAC

The Member-Secretary apprised the Board that BMSCE is accredited by National Assessment & Accreditation Council [NAAC] with CGPA of 3.41 on four point scale at 'A' grade valid from January 03, 2013 to January 04, 2018.

The Member-Secretary also apprised that the Third Annual Quality Assurance Report (AQAR) for the period 2015-16 has been submitted to NAAC on 28.09.2016 and presented the hard copy of the same to the Board. Dr.Mangala Keshav, Director, IQAC presented a brief report on the activities of Internal Quality Assurance Cell (IQAC). The PPT is enclosed at Annexure-II.

The Board noted the activities of IQAC and the submission of third Annual Quality Assurance Report (AQAR) for the period 2015-16 to NAAC. The Board opined that the College should make efforts to get a good grade in the Cycle-II accreditation by NAAC.

**4.3 REPORT REGARDING GLOBAL INITIATIVE FOR ACADEMIC NETWORKS (GIAN) SCHEME UNDER MHRD**

The Member-Secretary apprised the Board that the College had submitted five proposals (various departments) under the Global Initiative for Academic Networks (GIAN) Scheme under MHRD. Two proposals titled "Study of various effects of heavy metals present in bore well water on human system" submitted by the Department of Chemical Engineering and "Electric and Hybrid Vehicles" submitted by the Department of Electrical Engineering have been approved and funds of Rs.8.16 lakhs per proposal have been sanctioned.

The Member-Secretary also apprised the Board that the first programme "Study of various effects of heavy metals present in bore well water on human system" was conducted by the Department of Chemical Engineering organized under Global Initiative for Academic Network (GIAN) of MHRD from November 14-22, 2016. The program had resource persons from Chemical Engineering, BMSCE and Dillard University, New Orleans, USA.

Dr.Samita Maitra, Professor, Department of Chemical Engineering presented a brief report on the outcome and future activities which is proposed to be conducted under the aegis of this programme. Dr.Samitha informed that the association of BMSCE and Dillard University in the areas of joint research in the field of social and environmental challenges would continue. The PPT is enclosed at Annexure-III.

The Board noted and appreciated the efforts of the institution/Department.

**4.4 REPORT REGARDING NATIONAL INSTITUTIONAL RANKING FRAMEWORK (NIRF)**

The Member-Secretary apprised the Board that the institution has successfully uploaded the information/data towards National Institutional Ranking Framework (NIRF) (Methodology for Ranking of academic institutions in India) 2017 on 30.11.2016. The college has registered in the following different ranking categories.

1. Discipline specific ranking (Engineering Discipline)
2. Common Overall Ranking

The rankings are expected to be published during the first week of April 2017.

The Board took note of the same.

### 4.5 COMPLIANCE TO THE STRATEGIC PLANNING (JULY 2015 – JUNE 2016)

The Member Secretary apprised the Board that long term goals and short term goals were adopted in the Strategic Planning both at the department and institute levels. The Member-Secretary presented the Compliance to the Strategic Planning for the period from July 2015-July 2016 (shown at Annexure-IV).

The Board noted the progress towards the implementation of Strategic plan and expressed its satisfaction.

## Section 5: ITEMS FOR RATIFICATION

### 5.1 REPORT ON ADMINISTRATIVE REFORMS

The Member-Secretary apprised the Board that as per the directions of the Council of Trustees, BMSET, the placement for the positions of Vice-Principal, Dean (Academic), Dean (Student Affairs), Dean (First Year B.E.) and HODs on rotation basis have been implemented.

The Board noted the decision of the Trustees, BMSET with regard to placements made for the positions (listed at Annexure-V) on rotation basis and approved the same.

### 5.2 REVISION IN REMUNERATION TO INTERNAL AND EXTERNAL FACULTY

The BOG took note of the approval of the Chairman, BOG dated 01.09.2016 and ratified the enhancement of remuneration by 40% to internal and external faculty w.e.f. 14.09.2016. The rates of existing and revised remuneration is shown below:

| Faculty | Existing Remuneration | Revised Remuneration |
|---|---|---|
| Internal | Rs.500/- per hour | Rs.700/- per hour |
| External | Rs.800/- per hour | Rs.1100/- per hour |

### 5.3 IMPLEMENTATION OF DEARNESS ALLOWANCE FOR FACULTY UNDER AICTE SCALES OF PAY

The Board noted and 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 125% to 132%** of the basic pay w.e.f. 01.07.2016 (GO No.FD 34 SRP 2016 dated 28.10.2016).

| SNo | Account Head | Number of Employees | Difference Per Month | Arrears of DA Period from July 2016 to October 2016 |
|---|---|---|---|---|
| 1 | Grant-in-Aid (15% Mgmt. Share) | 72 | 42,915 | 11,54,321 |
| 2 | Management | 221 | 5,42,094 | 23,05,000 |
| 3 | PG | 44 | 1,29,801 | 5,50,000 |
| TOTAL | | 337 | 7,14,810 | 40,09,321 |

The BOG also noted the total DA arrears of Rs.40,09,321/- was disbursed.

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

The Board noted & approved the implementation of Dearness Allowance to the non-teaching staff members (both Aided and Management) who are on State Scale of Pay in the revised pay scales 2012 **from the existing 36% to 40.25%** of the basic pay w.e.f. 01.07.2016 (GO No.FD 33 SRP 2016 dated 21.10.2016).

| SNo | Account Head | Number of Employees | Difference Per Month | Arrears of DA Period from July 2016 to October 2016 |
|---|---|---|---|---|
| 1 | Grant-in-Aid (15% Mgt. Share) | 78 | 8,508 | 2,30,000 |
| 2 | Management | 151 | 97,500 | 4,00,000 |
| 3 | PG | 18 | 12,011 | 50,000 |
| TOTAL | | 247 | 1,18,019 | 6,80,000 |

The Board also noted the total DA arrears of Rs.6,80,000/-was disbursed.

### 5.5 APPOINTMENTS MADE TO TEACHING & NON-TEACHING POSITIONS

The Board ratified the appointments made to various teaching and Non-teaching positions (listed at Annexure-VI) on consolidated pay for a period of one year based on the recommendations of the sub-committee of BOA. The Board also suggested that the services of the said staff members be extended from time to time based on their performance and subject to review. The Board resolved to recruit faculty possessing PhD qualification in engineering and science disciplines.

### 5.6 CONSIDERATION OF PROMOTIONS FOR THE NON-TEACHING TECHNICAL & MINISTERIAL POSTS UNDER GRANT-IN-AID

The Board took note that the following Non-teaching staff members - Technical and Ministerial (working under GIA) are eligible for promotion.

| SNo | Name | Present Post | Promotion Eligible |
|---|---|---|---|
| **Technical** | | | |
| 1 | Sri.K.N.Radhakrishna | Instructor | Foreman |
| **Ministerial** | | | |
| 2 | Sri.H.Venkatesh | First Division Asst. | Superintendent |
| 3 | Smt.S.Bhagyalakshmi | First Division Asst. | Superintendent |
| 4 | Sri.Rudrappa | Second Division Asst. | First Division Asst. |
| 5 | Smt.M.Leelavathi | Second Division Asst. | First Division Asst. |
| 6 | Sri N.Ramanjinappa | Attender | Second Division Asst. |

The Board also noted that proposal in respect of the above said staff members are sent to the DTE for approval. The Board ratified the same.

## Section 6: ITEMS FOR APPROVAL

### 6.1 PROPOSAL TO AUTHORIZE PRINCIPAL (EX-OFFICIO) OF THE COLLEGE AS AN AUTHORIZED REPRESENTATIVE FOR NETRA

The Member-Secretary apprised that "NETRA" or the "National ESDM Technology Research Academy" or such other name as may be approved by the Registrar of Societies, Bangalore District, Karnataka (hereinafter called the "Proposed Society"), to promote and enable Electronic Design & Manufacturing (EDSM) innovation and capabilities in India by building an EDSM entrepreneurial ecosystem in engineering institutions.

The Member-Secretary also apprised that the Principal (ex-officio) of the College (hereinafter referred to as an "authorized representative), be and is hereby authorized to act as representative of the Company and to execute the Memorandum of Association, Rules and Regulations of the proposed Society and also to execute necessary forms, documents, deeds, declarations, affidavits and other papers required to be filed with the said Registrar of Societies or any other

regulatory authorities in connection with registration of the proposed Society and to take all necessary steps as may be required for the said purpose.

The Board took note of the above. The Board approved to be the academic partners of the above said Society registered under the Karnataka Societies Registration Act, 1969 by authorizing the Principal (ex-officio) of the College as an "authorized representative".

### 6.2 PROPOSAL TO ESTABLISH CENTRE FOR INNOVATION INCUBATION AND ENTREPRENEURSHIP (CIIE)

The Member-Secretary apprised that it is proposed to establish Centre for Innovation Incubation and Entrepreneurship (CIIE) so as to enable the faculty and students to participate and provide professional services to the start-up and also to raise consultancy. The CIIE shall be an independent entity at the institute level and the department(s) who wish to carry out activities relating to innovation, incubating and entrepreneurship shall do so as sub-centers/units which will enhance the culture of innovation and to promote technology transfer among the stake holders.

Dr.H.N.Suma, Professor, Department of Medical Electronics presented the proposed activities of the CIIE and its outcome. The PPT is enclosed at Annexure-VII.

The Board approved the proposal to establish Centre for Innovation Incubation and Entrepreneurship (CIIE). The Board also directed Dr.H.N.Suma to initiate necessary action in this regard in consultation with the Principal.

### 6.3 REPORT REGARDING VACANT GRANT-IN-AID POSTS IN TEACHING AND NON-TEACHING STAFF IN BMS COLLEGE OF ENGINEERING

The Board noted that the Council of Trustees in the meeting held on 06.10.2016 had resolved not to request the Government to fill the vacant Teaching and Non-Teaching positions under Grant-in-Aid.

The Board also noted that vacant Teaching and Non-Teaching positions under Grant-in-Aid have not been filled by the Government for last couple of years and

consequent to this several appointments (teaching and non-teaching) were made under Management to meet the requirement.

The summary of vacant posts under Grant-in-Aid required and not required to be filled are shown below:

| Mode of filling up of vacant posts | Teaching | | Non-teaching (Technical) | | Non-teaching (Administrative) | |
|---|---|---|---|---|---|---|
| | DR* | PVP** | DR* | PVP** | DR* | PVP** |
| Total Vacant Posts | 24 | - | 27 | 14 | 17 | 11 |
| Posts required to be filled | 04 | - | 04 | 04 | 04 | 10 |
| Posts not required to be filled | 20 | - | 23 | 10 | 13 | 01 |
| Total posts not required to be filled | 20 | | 33 | | 14 | |

*Direct Recruitment** Promotional Vacant Posts

The Board directed the Member-Secretary to send a proposal to the DTE requesting not to fill the Direct Recruitment and Promotional (where there are no eligible candidates in feeding cadre) vacant posts under Grant-in-Aid, permanently, since Management has recruited (both teaching & non-teaching) to make good off the work load. All these staff are regularized by the Management.

The statement showing the reasons for filling and not filling the vacant posts under Grant-in-Aid are enclosed at Annexure-VIII.

### 6.4 DECLARATION OF PROBATIONARY PERIOD WHO HAVE COMPLETED TWO YEARS OF SATISFACTORY SERVICE

The Board noted that Teaching and Non-Teaching staff were appointed against back-log vacancies in various departments during the year 2014 on two years period of probation from the date of their reporting to duty with the approval accorded by the Government and DTE vide letters dated 07.07.2014 & 08.07.2014.

The Board also noted the following that:

- the said Teaching & Non-Teaching staff have completed two years of probation period (excluding the period of EOL) on the dates indicated against their names;
- the performance reports of the staff members for the year 2015-16 have been verified and found satisfactory;
- there is no disciplinary proceedings pending against them

The Board approved to declare the probationary period in respect of the Teaching and Non-Teaching staff appointed against back-log vacancies in various departments during the year 2014 as satisfactory.

While on the subject, the Member-Secretary apprised that declaration of probation period was not in practice earlier and hence the probation period of Non-Teaching staff appointed from 1982 to 2007 have not been declared. Now the DTE Auditors are insisting the declaration of probation.

The Board noted the same and approved to declare the probationary period as satisfactory in respect of Non-Teaching staff appointed from 1982 to 2007. The list of staff members appointed during 2014 and from 1982 to 2007 are shown at Annexure-IX.

**6.5 PROPOSAL FOR RECRUITMENT OF ADJUNCT FACULTY AND FIXING UP OF REMUNERATION TO ADJUNCT FACULTY**

The Board noted that as per AICTE guidelines (Approval Process Hand Book 2016-17), there is a provision of having 20% of Adjunct Faculty/Resource Persons from industry.

The Board approved the proposal to appoint Adjunct Faculty for a period of 2-3 years in order to meet the faculty requirements arising out of additional intake subject to the following guidelines:

a) Temporary, part-time or other auxiliary faculty of a school or college, usually with limited duties and benefits and often primarily employed outside of academia
b) Adjunct faculty members are not necessarily employees. It is a person that has a regular full-time job but will come to your place to give a seminar or step in as a student teacher. They are not regular salaried employees
c) Retired employees (industry/academic) up to an age limit of 65 years are also eligible for this position

The Board also approved the proposed remuneration of Rs.6,000/- per credit / week / month.

| SNo | Credit | Hours/Week | | Total Hours/Month | | Amount |
|---|---|---|---|---|---|---|
| | | Theory | Practical | Theory | Practical | |
| 1 | 4 | 4 | 8 | 16 | 32 | 30,000/- |
| 16 Hrs x Rs.1100 = 17,600/- Plus Rs.6,400/- Conveyance Allowance, Plus Rs.6,000/- Evaluation – Total Rs.30,000/- | | | | | | |

**6.6 PROPOSAL TO INTRODUCE INCENTIVE FOR WRITING TECHNICAL BOOKS**

The Member-Secretary apprised that faculty members are being extended cash incentive for publications in refereed journals, for getting external research grants Annual Book Allowance and Annual Membership Fee for Professional Body in their respective domain.

The Member-Secretary apprised that it is proposed to extend cash incentive for writing technical books, English & Kannada literature books and publishing the same by leading publishers at State/National level.

The Board approved the proposal and resolved to extend cash incentive of Rs.5,000/- to the faculty for writing technical books, English & Kannada literature books and publishing the same by leading publishers at State/National level. This benefit shall be extended to all those faculties who have satisfactorily completed their two year probationary period.

### 6.7 APPLICATION OF FACULTY MEMBERS FOR PURSUING PhD UNDER QIP

The Board ratified the issue of No Objection Certificate (NOC) to the following faculty members working under Management Cadre to pursue PhD under QIP.

| SNo | Name of the faculty | Designation | Department |
|---|---|---|---|
| 1 | Smt.B.Prathima | Asst. Prof. | Civil Engg. (PG) |
| 2 | Smt.Nirupama Mohan | | Mechanical Engg. |
| 3 | Sri.B.Venkatesh | | Electrical Engg. |
| 4 | Sri.B.Shreenivas | | Telecommunication |
| 5 | Sri.K.Sainath | | Chemical Engg. |
| 6 | Smt.Praphulla | | Biotechnology |
| 7 | Sri.Tejaswi Patil | | MBA |

The Board took note that currently five faculty members (one each from ME/EE/EC (2)/MAT) are under deputation.

The Board also noted that the following faculty member has acquired PhD:

| SNo | Name of the Faculty / Designation | Department | Institution | PhD Awarded |
|---|---|---|---|---|
| 1 | Dr.K.Vijayalakshmi Asst. Professor | Medical Electronics | Vinayaka Missions University | 21.06.2016 |

**6.8 PROPOSAL TO CONSTITUTE BMSCE-RESEARCH FELLOWSHIP TO RESEARCH FELLOWS**

The Member-Secretary apprised that the following fellowships are offered to research scholars working under various schemes of Government of India.

| SNo | Research Scheme | Duration | Designation | Fellowship Amount per month in Rupees | Eligibility |
|---|---|---|---|---|---|
| 1 | CSIR Junior Research Fellowship (JRF) | 2 Years | Junior Research Fellow | 25,000/- | M.Sc. with NET/GATE |
| 2 | CSIR Senior Research Fellowship(SRF) | 2- 3 Years | Senior Research Fellow | 28,000/- | M.Sc., with two years research experience and one publication |
| 3 | DST-SERB (JRF) | Not specified | Junior Research Fellow | 25,000/- | M.Sc. with NET/GATE |
| 4 | DST-SERB (SRF) | Not specified | Senior Research Fellow | 28,000/- | JRF qualification with two years Research experience |
| **TEQIP PHASE II, BMSCE** | | | | | |
| 1 | Research Assistantship | 3 Years | Research Scholar | 18,000/- | - |

With a view to encourage higher education in engineering, Assistantships have been provided Under TEQIP Phase II. Since the TEQIP Phase II will be closing by March 2017, it is proposed to constitute BMSCE Research Fellowship (BMSCE-RF) for a period of 3 years through College funds.

The Board opined to review the number of awardees currently & the proposed numbers and approved the proposal authorizing the Chairman to decide.

**6.9 REPORT REGARDING APPROVAL OBTAINED IN RESPECT OF SRI.C.V.RAJAPPAJI AND SRI.A.DURGOJI APPOINTED THROUGH DIRECT RECRUITMENT UNDER GRANT-IN-AID**

The Board noted that Sri.C.V.Rajappaji and Sri.A.Durgoji were appointed as Instructor and Helper respectively through direct recruitment under Grant-in-Aid for PHE Lab (sanctioned vide GO No. ED 60 MTE 79 dated 25.04.1980) in the Department of Civil Engineering. The DTE withheld their salaries temporarily from 2011 in view of audit observation made during the year 2008-09 due to non-approval of their appointments and 90% of their pay being disbursed by the Management on humanitarian grounds subject to adjustment on receipt of grants from the DTE after obtaining the approval.

The Board also noted that the DTE in their endorsement dated 06.01.2017 has forwarded the Government letter No.ED 98 TEC 2012 dated 27.12.2016 wherein the Government has accorded approval for the appointments of Sri.C.V.Rajappaji and Sri.A.Durgoji as Instructor & Helper for PHE lab in the Department of Civil Engineering as a special case (one time exemption) subject to the condition that this incidence should not be considered as precedence in future.

After detailed deliberations, the Board approved the following:

- To send the bill to the DTE to release the Government Share (85%) of salary in respect of Sri.C.V.Rajappaji and Sri.A.Durgoji for the period from 2011 to till date;
- To send pension proposal to the DTE in respect of Sri.C.V.Rajappaji who superannuated on 30.09.2016 for sanction of his terminal benefits;
- To pay terminal encashment of Earned Leave at his credit at the time of retirement of Sri.C.V.Rajappaji

**6.10 REPORT REGARDING WITHHELD INCREMENTS IN RESPECT OF SRI.N.NAGARAJU, HELPER, DEPARTMENT OF MECHANICAL ENGINEERING**

The Member-Secretary apprised that Sri.N.Nagaraju, Helper, Department of Mechanical Engineering, was kept under suspension with effect from 12.03.2005 vide Office Memo No.P.137/2004-05 dated 12.03.2005 and disciplinary proceedings were initiated. The oral and documentary evidence recorded in the enquiry proved the charges levelled against Sri.N.Nagaraju and he was guilty in the acts of indiscipline and misconduct and have caused dislocation and hampering of normal work of the institution. As per the orders of the Chairman, BOG, Sri.N.Nagaraju has been imposed penalty of reducing his salary by two increments with cumulative effect and reinstated to duty in the position of Helper held by him prior to his suspension on 12.03.2005 vide this Office Order No.EST/P.137/ENQ/2011-12 dated 31.01.2012. The orders of the Chairman, BOG has been ratified by the BOG in its meeting held on 16.03.2012.

Further, the Member-Secretary also apprised that as per KCSRs, reduction of salary cannot be imposed as a permanent measure and needs to be set right as per sub rule (1) (a) of rule 59 of KCSRs. In view of this a committee was constituted to look into the matter.

The Committee examined the provisions of KCSRs and also took note of the statement submitted by the Workshop Superintendent regarding Sri.Nagaraju's improvement in behaviour. Based on the above, the Committee recommended the following:

i) The penalty will be effective from the date of the order 31.01.2012
ii) The penalty shall be operative for a period of one year
iii) His basic pay shall be reduced by two increments from Rs.6000/- to 5800/- w.e.f. 02.02.2012
iv) He will earn the increment during the period referred at (ii) above
v) On the expiry of the period referred at (ii) above, the reduction will not operate to postpone his future increments

The Board noted the provisions of KCSRs and also the statement submitted by the Workshop Superintendent regarding Sri.Nagaraju's improvement in behaviour. After detailed deliberations, the Board approved the above mentioned recommendations of the Committee and resolved to release the increments due to him.

**6.11 REPORT ON TEQIP PHASE II**

The Member-Secretary apprised the Board that the 19th meeting of the sub-committee of BOG of TEQIP Phase-II was held on 10.01.2017. The draft minutes has been approved by the Chairman of the sub-committee of BOG of TEQIP Phase-II. The Member-Secretary also apprised that presentation was made on the BMSCE TEQIP II Status before the State Level Expert Committee Members (Mentors) / Principals of TEQIP Institutions organized by SPFU Karnataka on 29.01.2017. The TEQIP Coordinator-II then gave a brief presentation on the status of various activities under TEQIP Phase II.

The Member-Secretary further apprised that the TEQIP Phase-II will be closing by March 2017 and BMSCE is eligible for TEQIP Phase-III since the institution has been recognized as best Performance Institution in India. The Board congratulated the entire TEQIP team for their efforts and all those who contributed to the success of the project.

The Board noted all the activities conducted/approved by the sub-committee and approved the minutes (Annexure–X) of the 19th meeting of the sub-committee of BOG for TEQIP held on 10.01.2017.

The Member-Secretary made a submission to consider the continuation of the services of administrative staff working in the Office of the TEQIP from 01.04.2017 since the sanction of TEQIP Phase-III will take 4-5 months' time.

The Board resolved to continue the services of administrative staff working in the Office of the TEQIP for a period of six months from 01.04.2017 or the sanction of TEQIP Phase-III, whichever is earlier.

**6.12 PROPOSED VARIATION IN INTAKE FOR THE ACADEMIC YEAR 2017-18**

The Member-Secretary apprised the Board that due to demand for B.E. Programme in Civil Engineering, Computer Science & Engineering and Information Science & Engineering, it is proposed to increase in intake from the Academic Year 2017-18 as shown below. The Member-Secretary also apprised that it is proposed not to introduce any new programme.

| SNo | Programme | Present Intake | Proposed Intake | Total Intake |
|---|---|---|---|---|
| 1 | Civil Engineering | 120 | 60 | 180 |
| 2 | Computer Science & Engineering | 120 | 60 | 180 |
| 3 | Information Science & Engineering | 90 | 90 | 180 |

The Board noted and approved the proposal to increase in intake from the Academic Year 2017-18. The Board decided not to introduce any new programmes both at UG/PG level.

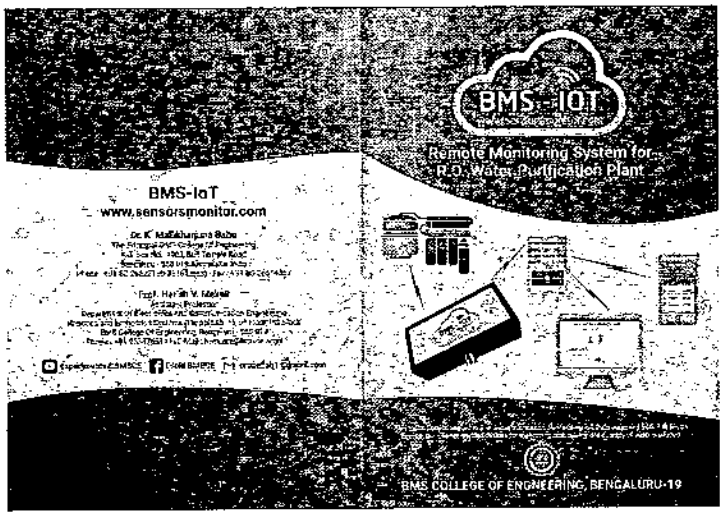
**Section 7: ANY OTHER ITEMS**

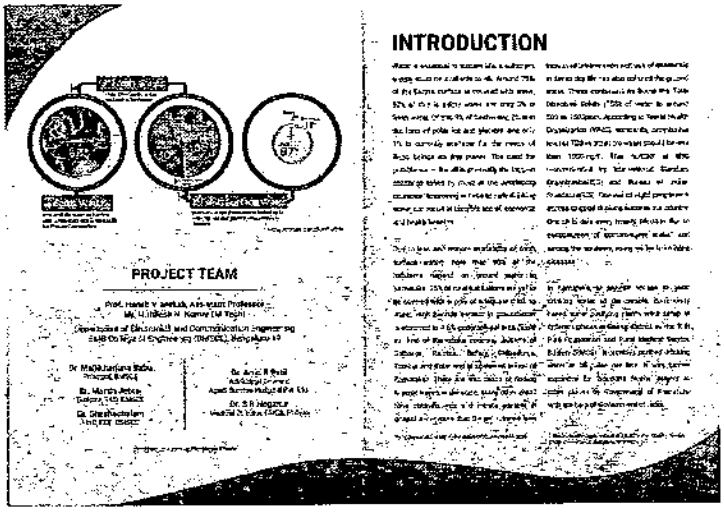
The meeting concluded with a vote of thanks to the Chair.

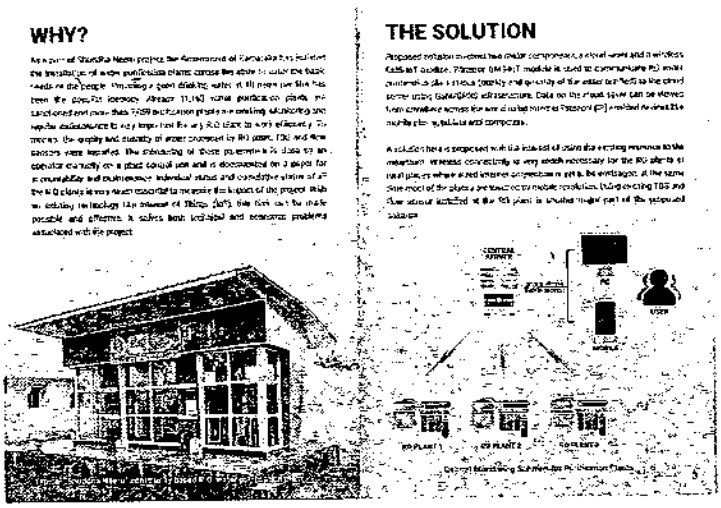
MEMBER-SECRETARY

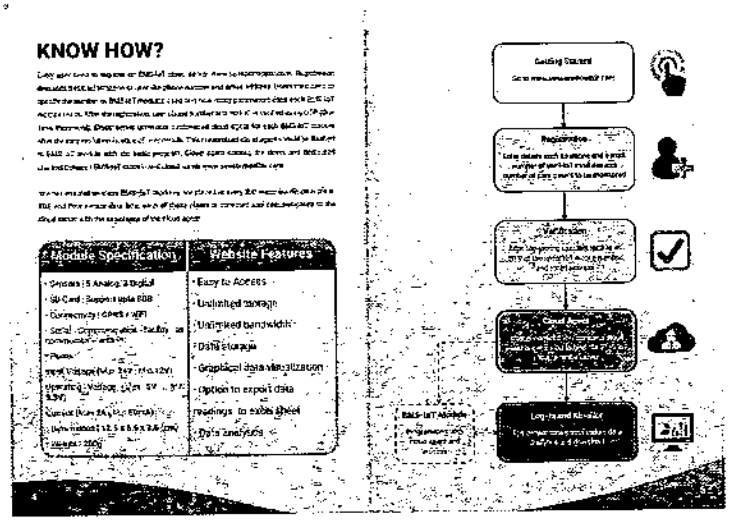
CHAIRMAN

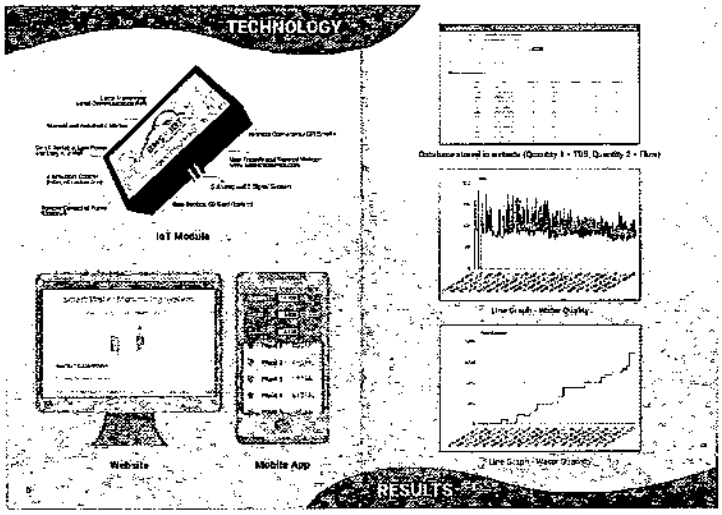
Annexure - I

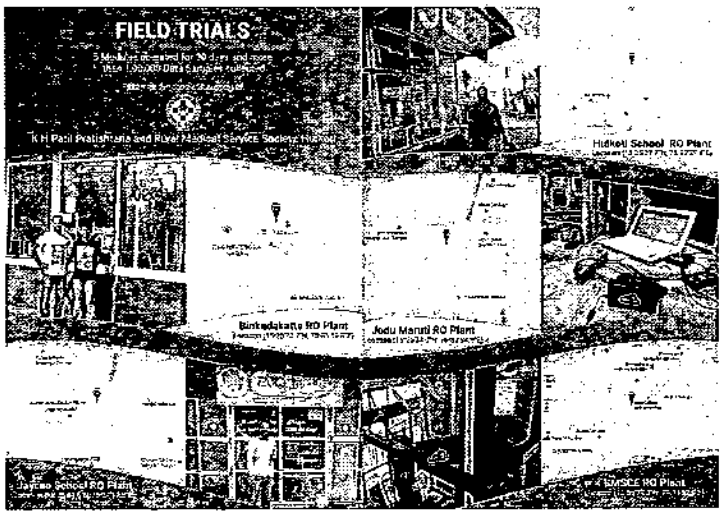

BMS-IOT
Remote Monitoring System for R.O. Water Purification Plant
BMS-IoT
www.sensorsmonitor.com
BMS COLLEGE OF ENGINEERING, BENGALURU-19


PROJECT TEAM
INTRODUCTION


WHY?
THE SOLUTION


KNOW HOW?
Module Specification
Website Features
Easy to Access
Unlimited storage
Unlimited bandwidth
Data storage
Graphical data visualization
Option to export data readings to excel sheet
Data analysis


TECHNOLOGY
IoT Module
Website
Mobile App
RESULTS


FIELD TRIALS
Hidkoli School RO Plant
Binkadakatte RO Plant
Jodu Maruti RO Plant

Annexure - II

21-02-2017

# Activities of IQAC

Prepared and Presented by Dr. Mangala Keshava,
Director IQAC, BMSCE

## IQAC MEMBERS

As per the guidelines of NAAC, an Internal Quality Assurance Cell [IQAC] has been constituted (March 2014) as a post-accreditation quality sustenance and enhancement measure with the following composition:

a) Principal - Chairperson
b) Five senior teachers and one senior administrative official
c) Two external experts on Quality Management/ Industry/Local Community
d) Director / Coordinator – Member Secretary

IQAC comprises of 21 core committee members and 18 Department Coordinators.

# IQAC ACTIVITIES

**The IQAC is making significant and meaningful contribution in the post accreditation phase of the Institution. IQAC oversees activities of the institution to enhance quality through;**

i. Accreditation Processes,
ii. Conduction of conferences, seminars, workshops, lecture series, FDPs etc.
iii. Academic Audits
iv. Collaboration with foreign universities
v. Preparation of Annual Quality Assurance Report

**Annual Report submitted to NAAC based on quality parameters.**
a) The First AQAR 2013-14 was submitted to NAAC on 08.08.2014
b) The Second AQAR 2014-15 was submitted to NAAC on 04.10.2015
c) The Third AQAR 2014-15 was submitted to NAAC on 28.09.2016

# NAAC CYCLE

BMSCE Accredited by National Assessment & Accreditation Council [NAAC] with CGPA of 3.41 on four point scale (A grade) valid from 05.01.2013 up to 04.01.2018.

When the institution undergoes the NAAC accreditation process, it is referred as Cycle 1 and the consecutive five year periods as Cycle 2, 3, etc.

For Cycle 2 (re-accreditation) the following are essential:
- IQAC to be functional
- Timely submission of AQARs annually
- Institutions to submit Letter of Intent and self-study report (SSR), six months before the expiry of the accreditation status

## IQAC ACTION PLAN

**IQAC has chalked out the following Plan of Action for the next academic year;**

- Introduction of Academic autonomy in PG courses
- To subject eligible PG programmes for Accreditation
- To increase alumni network
- To organize more community service activities
- To facilitate external review of the academic quality
- To implement Academic Auditing (Internal/External)
- To initiate the process of upgrading infrastructure and enhance R & D facilities

## IQAC (Internal Quality Assurance Cell)

Together we assure quality education at BMSCE

Thank You !

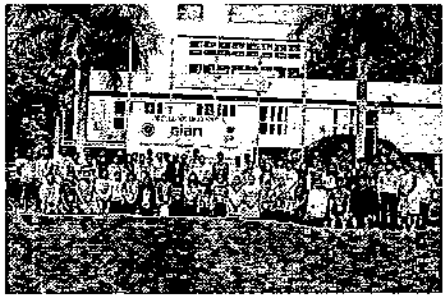
Annexure - III

16-02-2017

Ministry of Human Resource Development (MHRD)
Government of India
Sponsored course
On

*"Study of various effects of heavy metals present in bore well water on human system"*

Presented by: Dr. Samita Maitra, Professor
Course Coordinator, GIAN-MHRD
Department of Chemical Engineering
BMS College of Engineering
Bengaluru



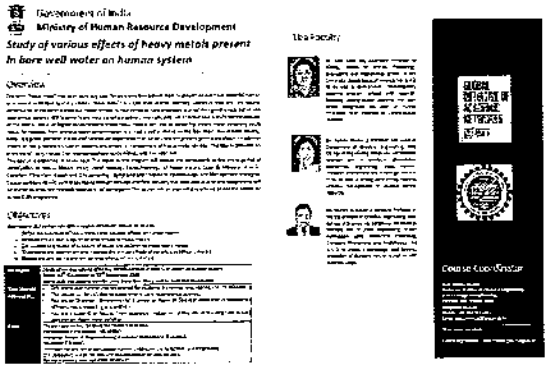
Local coordinator: Dr. R S Deekshit, Dean(SA), BMSCE
Course coordinator: Dr. Samita Maitra, Professor, Dept. of Chemical Engineering, BMSCE

## Ministry of Human Resource Development (MHRD)
## Government of India

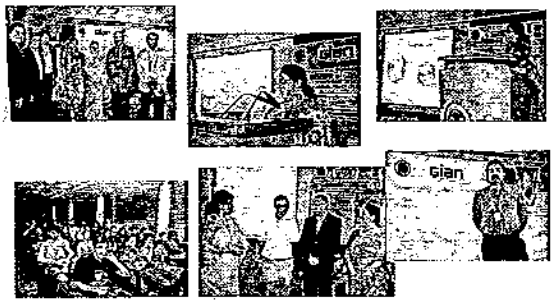
**Goals of GIAN Program**

a. To increase the footfalls of reputed international faculty in the Indian academic institutes.
b. Provide opportunity to our faculty and students to learn and share knowledge and teaching skills in cutting edge areas.
c. To create avenue for possible collaborative research.
d. To increase participation and presence of international students in the academic Institutes.
e. Opportunity for the students of different Institutes/Universities to interact and learn subjects in niche areas through collaborative learning process.
f. Motivate the international experts in the world to work on problems related to India.

## Brochure

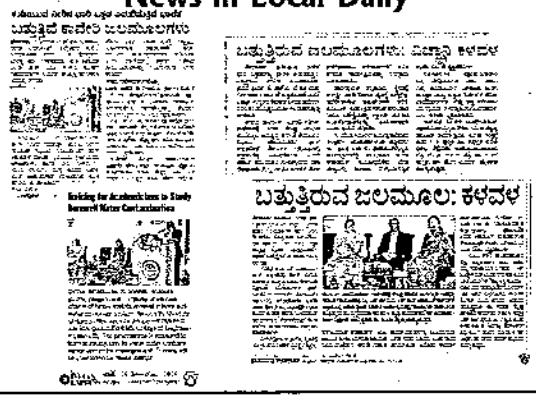


## GIAN Events

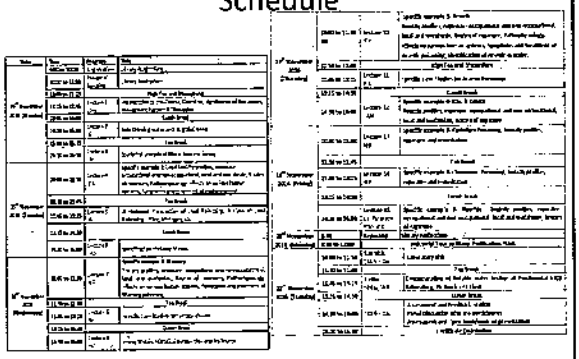



https://youtu.be/qgNajm3MAhs

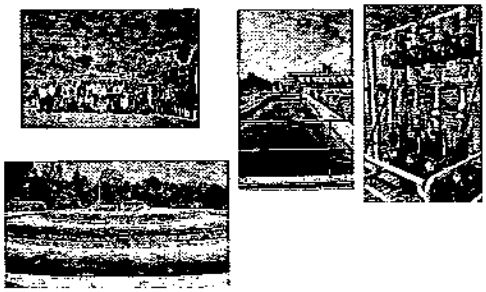
## News in Local Daily




## Schedule



## BWSSB Industrial trip



## Collaborative Learning with Dillard University, USA

- https://www.wikispaces.com/content/class+gqm
- https://www.youtube.com/playlist?list=PLv1qbuH67vTRkAehQ9SkBVOofrB3g1pt8

## Thank You for your kind attention

Annexure - IV

# B M S COLLEGE OF ENGINEERING, BENGALURU

STRATEGIC PLANNING: COMPLIANCE TO THE STG (JULY 2015-JUNE 2016)

## 1. NBA ACCREDITATION

Out of 12 UG Programmes, 11 Programmes are Accredited (5 of them are accredited for 6 years & 6 of them are for 3 years; Application for 1 UG programme Electronics & Communication is under process)

During 2015-16, the institution has submitted online application to NBA seeking accreditation to PG Programmes of Construction Technology (CV), Environmental Engineering (CV), Transportation Engineering (CV), Machine Design (ME), Power Electronics (EE), Electronics (EC), Digital Communication (EC), Computer Science (CS), Computer Network Engineering (IS)

## 2. ACADEMIC AUTONOMY FOR PG PROGRAMS

*The University (VTU) through its notification dated 22.08.2016 conveyed grant of institutional autonomy as per XII plan of University grants Commission (UGC) from the academic year 2016-17.*

The Institution submitted application for Extension of Autonomy for UG & PG Programmes for the period 2014-15 to 2019-20.

The UGC Expert Committee visited the College and conducted evaluation in December 2015 and granted Extension of post-facto approval for the period 2014-15 and 2015-16.

The UGC expert committee again visited the institution in August 2016 towards Extension/Conferment of AUTS - UG & PG programmes for the period 2016-2017 to 2021-2022.

The UGC through communication dated 24.11.2016 sought compliance on fulfilment of few shortcomings cited by the expert committee. Accordingly the Institution submitted the compliance report on 07.01.2017.

Accordingly the institution is offering all the UG & PG programmes under autonomous stream commencing from the academic 2016-17 onwards.

## 3. STRENGTHENING CAMPUS FACILITIES AND SUPPORT SYSTEMS

The institution is augmenting the campus facilities and support systems from time to time to stay updated and relevant.

**LIBRARY**

Augmented with 3559 books, 179 journals, 07 e-journals & also strengthened the Digital Repository, TECHFOCUZ digital Library software, Libsys software, Ernet Link Line, Link Road Balancer, Turnitin Software for plagiarism worth Rs.105.05 Lakhs.

**IT- INFRASTRUCTURE**

- Comprehensive e-Learning solution procured for lecture capturing. This facility is established in one class room in every department and also the auditoriums.
- Procured 110 computers to Placement & Training Centre: Internet Bandwidth enhanced.

**Wi-Fi Speed:**

- The Wi-Fi speed at the college is full-fledged and more than the specified requirement. Presently the campus has an internet band width of 650 Mbps internet connection which caters to both college and hostels.
- The Institution has also added another 35 wireless access points in the campus for additional Wi-Fi coverage.
- The details of Internet bandwidth at the College and Hostels are noted below:

| SNo | Mbps | PO Number | Date of issue | SNo | Mbps | PO Number | Date of issue |
|---|---|---|---|---|---|---|---|
| 1 | 350 | 2016-17/ | 19.12.2016 | 4 | 50 | 2016-17/89A | 15.09.2016 |
| 2 | 100 | 2016-17/97 | 21.09.2016 | 5 | 50 | 2016-17/89B | 15.09.2016 |
| 3 | 50 | 2016-17/89C | 15.09.2016 | 6 | 50 | 2016-17/89D | 15.09.2016 |

## 4. IMPROVE TEACHING LEARNING PROCESS

- The Classrooms, seminar halls, conference halls, Auditoriums were equipped with LCD.

- One class room in each department is equipped with lecture capture system.

**CENTRES OF EXCELLENCE/INNOVATIVE LABS ESTABLISHED:**

| Dept | Laboratory Established |
|---|---|
| EC | Established Centre of Excellence on VLSI & Embedded Systems |
| | ESSCI (Electronics Skill Sector Council of India) |
| CS | Established COE on "Internet of Things and Big data |
| IM | Procurement of Robot for CIM Lab – Training on Robot and CNC Machine |
| TE | Control systems laboratory in association with NI and Quanser |
| PHY | Centre of Excellence in Advanced Materials has been established |
| MCA | Strengthening the Existing Centre of Excellence in Internet of Things |

**PEDAGOGICAL INNOVATIONS:**

**OBE, Active Learning, Project Based Learning, Open ended Experiments, Alternate assessment tools**

**CV:** AAT implemented for course in IV sem,

**ME:** Literature Survey, Poster Presentation, Project Based Learning, Open Ended Experiments, Community Projects, TPS, Reciprocal Learning, Seminars, Survey Simulation etc.,

**EE:** Basic Electrical Engineering, Active Learning Methods like think pair share, videos animation, open ended experiment, Project Based Learning: **EC:** Students are attending QEEE course on Fields and Waves from IIT Mumbai which will also have assessment weightage in Quiz.

**AT :** Live Site visits for Architectural Design Projects, Hands on experience to Construction project sites, National and International Study Tours to understand Historical and Contemporary Trends, Evolved design tested on software for lighting standards and conditions, Alternate building materials study through collection of samples and seminars, Industry simulations, Making of Physical & Virtual Models to understand real life situations, Group dynamics as part of pedagogical innovations, Supportive Electives like Photography, Videography and movie making.

**CS:** OBE is Practiced project base learning is implementation the courses with self-study component, Rubrics base assessment followed to assist the project work and project base learning TE: Introduced Open Ended Experiments, Introduced Course Seminars, Introduced mini-project in some course, Introduced Group Activities.

**ML:** AATs, Device bases learning, Mathematical Modelling etc.

**CH:** OBE, Active Learning, Project Based Learning, Open ended Experiments, Alternate Assessment Tools.

**BT:** Virtual labs as AAT in Genomics and proteomics, NPTEL course offered by IIT Bombay on 'Proteomics' structural models of the biomolecules, Presentations: Project planning in PMT course. Presentations on various immunological aspects of diseases and defence of infections were taken as AAT in immunotechnology. UO1 course- topics from applications of fluid flow and mechanical operations in bioprocess/ biotechnology was allotted to each student. Students then did Literature survey, prepared report and ppt presentation was given.

**CHE:** Using power point, Bridge Course for III sem Technical Chemistry.

**MCA:** Quiz, seminars, presentations, Open ended Experiments, Alternate Assessment Tools.

**MBA:** Active learning was introduced in Marketing Management, Managerial Communication and Strategic Management, Extended Class Rooms (virtual class rooms); Impartus Lecture Capturing, Virtual Classrooms, One class room in each department is equipped with lecture capture system.

**Blended Learning:** e-learning, QEEE, Virtual Labs, MOOCs, Social Learning, Social Networks, Wiki Space, Architecture Way, Piazza and EDMODO WIKSATE, "ACCESS AUDIT "in association with SAMA foundation and CBM NGO, Rejuvenation of Puttenahalli Lake, Bengaluru, Outreach programme on "Geospatial Technologies for urban planning: WIKSATE, EDMODO, QEEE, Virtual Labs, FDP on MOOCs, e-learning, Social Learning

**COMPREHENSIVE COURSE IMPLEMENTATION**

**CV:** Self-study for courses in 3rd and 4th Semester

**ME:** Strength of Materials, Fluid Mechanics, Machine Tools and Machining, Mechanical Measurements & Metrology, Kinematics of Machines, Fundamentals of Heat Transfer, Computer Aided Machine Drawing

**EC:** Two courses per semester from III-VII Semesters:

**IM:** Self-study course implemented for III & IV Semesters

**CS:** Two Comprehensive courses with project base learning and Rubrics base assessment system

**ML:** Mini project for two comprehensive courses

**MCA:** Comprehensive Course from II Semester

## 5. ENHANCE THE OUTPUT IN RESEARCH AND CONSULTANCY

Centre of Excellence / Innovative Labs are established

Number of initiatives employed in sensitizing / promoting research climate in the institution.

The departments have also initiated various measures to promote research culture which have resulted in increasing research proposals and publications.

The Institution provides cash incentives for research publication in Refereed journals having impact factor between 0.5 to 1.0. So far, 33 faculty members have been cash incentives under this scheme. For the year 2015-16 Thirteen Faculty members were provided cash incentives.

An exclusive budgetary allocation of 129.92 Lakhs have been made for R&D (2015-16)

To recognize inspirational thinking of students Best Students Projects are awarded

The Laboratories were augmented by procurement of sophisticated equipment /LRs

**THE OUTCOMES ARE AS FOLLOWS:**

**83** External Research Projects, in total, worth Rs.1274.32 Lakhs are currently on-going;

**39** External Research Projects have been obtained during 2015-16, worth Rs.341.96;

**05** patents have been granted; a total of 10 patents have been applied during 2015-16;

**23** Research Award / Recognitions have been received by faculty and Research Fellows during 2015-16;

**289** Research Scholars are currently registered/pursuing their doctoral degree at fifteen Research Centers of the college;

**12** faculty members acquired their doctoral degree during 2015-16;

**07** PhDs have been produced through college Research Centers during 2015-16;

**358** papers were published / presented by faculty in various National/International/Seminars/ Conferences/Journals during 2015-16;

**42.00** Lakhs generated by the faculty under IRG through consultancy (29 Projects);

## 6. ENHANCE THE INDUSTRY-INSTITUTE COLLABORATIONS

### A) ADJUNCT FACULTY:

**INDUSTRY EXPERTS DELIVERING PART OF SYLLABUS IN VARIOUS COURSES**

**CV:** Dr. M S Sudarshan from Torsteel Research Foundation, India handled classes for PG, Construction Technology

**ME:** Industry experts delivered part of syllabus in Solar Energy

**EC**: ECE department has recruited TWO adjunct Faculty mentoring student projects and handling a PG course (Advanced Embedded system design)

**AT:** Visiting faculty from the Industry in all Studio courses. 25% of the subject content is delivered by the visiting faculty from the profession and the Industry

**CS:** Activities are organized through SAP

a) Code Jam focused on Java based development on SAP HANA Cloud Platform using Eclipse IDE-21st August 2015 b) Design Thinking Phase shift 2015-20th September 2015 c) Build the Talent of the Future for the Digital Enterprise-25th November 2015 d)Visit to SAP campus-10th March 2016

**CH:** Dr. Janhavi Raut, Director, Health Care, Unilever, Bengaluru, TOPIC: RHEOLOGY in FMCG - Part 1

**BT:** Equipped labs with exhaust hood, Established Basics of Computer applications Lab (Mr.S.Pradeep), Dr. Jayshree

**MCA:** One Adjunct/Visiting Faculty is recruited to teach Professional Communication for I semester.

**B) COLLABORATION WITH INDUSTRIES**

**RESEARCH AND INNOVATION PROJECTS-PRODUCT & PROCESS DEVELOPMENT**

**ME:**3D PLM Product Innovation Lab: Innovative Projects such as Robotic Arm, Automatic Wiper systems, Auto simulator, Humanoid Robot, Digital Manufacturing (Self learning). : i)Innovative Virtual Product Development leading to Entrepreneurship, ii) Addresses Environmental & Societal issues by Virtually Simulating the actual conditions.

**EC:** Prof. B S Nagabhushana from ECE has successfully completed one consultancy project from ABBGISL on Protocols for Industry automation and shorting completing second consultancy from ABBGISL on HETNETS.

**AT:** Monsoon Studio was conducted in collaboration with Department of Urban Land Transport (DULT), won the International Competition for the study and Rejuvenation of Badami Old Town, Karnataka, Live projects taken up as Joint ventures with Government bodies, NGO s and Industry.
**CS:** Students completed projects at CDAC and EMC Corporation, At CDAC project on Big Data and its application, At EMC project on COPRHD framework (open source)

**CH:** HIKAL Private Limited

**BT:** Submitted proposal to MEOF in collaboration with CLEANERGIS BIOSCIENCES Pvt Ltd, i) Collaborated with Vital Bioscientific Solutions Pvt Ltd, Incubation Centre, IITM, for the development of miniature version of portable TEER instrument, ii) Have collaborated with NRPL, Bangalore for Research projects, They have given one proposal (proof of concept) which could lead to process development.

**MCA:** Collaboration with Altimetrik and Johndeere , Ms.Enterprise Atlas have been done to carry out Research and innovation projects

**C) ENHANCING VARIOUS ACTIVITS WITH INDUSTRY LEVERAGING ON THE EXISTING MOUs**

**ME** Internships to the students by 3D PLM Product Innovation Lab: Procured two licenses of "Calypso" software in Measurements and Metrology applications. MoU with M/s, Carl Zeiss has been instrumental in development of industry specific curriculum, site visits to students, internship opportunities and training for faculty in the field of industrial metrology.

**EE** Joint publication on work carried out through SAPPDS by BOSCH submitted to IndiconIISc, results awaited, PG projects executed and PG students recruited in Alpha Design Technologies, Centum Electronics, Robert BOSCH, Fluxgen Technologies Pvt.Ltd etc.

**EC** Electronic Skill sector council (ESSCI) has set up a skill training center in VLSI and embedded system domain for both faculty and students, Robert Bosch (RBEI) has setup an Embedded system Lab for Automotive system development in the department as a part of MOU, India Electronics Semiconductors Association (IESA) has connected various professionals in associating with the department, IOT course in introduced as a Electrical cluster elective (VII semester)with Lab component as a credited course taught by NOKIA,

**IM** Department is having an MOU with CIM Tools Pvt. Ltd. Bengaluru for educating students by fetching them Internships and scholarships, and also sponsoring for phase-shift event.

**CS** At EMC Students Completed a project on COPRHD frame work(Open Source

**TE** Last year we had 50 students (from TE and CS), training on various CISCO certification programs through their partner, This time there is a plan to repeat the training for students from ES and CS cluster, through a suitable MOU

**CH** M/s Yokogawa India Ltd., conducted value added on for carrying out value added course on *"Field Instrumentation and PLC"* 10-09-2015 to 15-09-015

**BT** Live projects, internships, collaborative projects, Module teaching, Curriculum development and Outcome based education

**MCA** Department is conducting various activities such as Seminars, Workshops, Industrial visits and projects with industry leveraging on the existing MOUs

**MBA** The students attended MANTHAN – a business level competition at FKCCI. Conducted Management clinic in association with FKCCI and consultancy projects are being tried.

**D) INTRODUCE INDUSTRY DRIVEN/OFFERED COURSES (ONE CREDIT COURSE IN HIGHER SEMESTERS)**

**EC:** NOKIA resource persons have delivered 10Hr as a part of NOKIA lecture series on LTE, 5G etc.

**AT:** Students undergo 32 weeks of Professional Training for 24+24 credits in 9th and 10th semester, Electives of 2 credits are offered by the Industry specialists in Photography, Product Design, Film making, Presentation Techniques and Urban Design.

**TE:** The revised curriculum has opportunity to include industry supported 1-credit elective courses, It is proposed to interact with the industries towards offering the following courses: i) System Design by National Instruments ii) Optimization by Math works iii) Switching by BSNL iv) Networking by CISCO v) Communication by ISRO

**CH:** SKDA & PLC, ABB India Ltd.,

**MCA:** A two credit course - Innovation and Entrepreneurship has been introduced in II Semester.

## 7. INTRODUCE NEW PG PROGRAMS

The Management has decided not to seek any new programmes until 2017-18. It is also proposed to seek variation of intake for the UG programme of CSE from 120 to 180 in the academic year 2017-18.

## 8. FOSTER CREATIVITY AND INNOVATION

**A) FINISHING SCHOOL FOR STUDENTS**

**EC:** The department conducted a course on physical design for the benefit of outgoing students of 2015-16 batches.

**IM:** Department is providing the training on CNC and Robot

**CH:** Conducted Value Added course on "Field Instrumentation and PLC" in Association with M/s Yokogawa India Ltd.

**MBA:** Outbound training programme was conducted by Pegasus a well renowned brand in the training industry in India. The aim of the programme is to equip the students regarding industry and employment opportunities.

**B) ESTABLISHING CENTRE OF EXCELLENCE IN BIG DATA AND SENSOR NETWORKS**

**MCA:** Data Analytics Research Laboratory and Innovation Cluster Lab is established as Centre of Excellence through Big Data and IoT respectively.

**C) ESTABLISH INCUBATION CENTERS**

**EC:** The department is in the processes of starting CIIR (Center for Innovation and Industry relations) with Alumni support.

**IM:** M.S.M.E., Govt. of India,

**BT:** CLEANERGIS BIOSCIENCES Pvt, Ltd,

**MCA:** One of the vision of Innovation Cluster Lab includes Guided Entrepreneurship.

**D) APPLY FOR MORE PATENTS TO PROTECT IP**

**PATENTS/COPYRIGHT OBTAINED**

1. Implementing Mobile ZigBee Module in Traffic Control System to Clear Way for Ambulance",India 2015 - Santhosh Hebbar, Praveenraj P., Varaprasad G (Diary Number: L-61923/2015.)
2. Android Based Mobile Phones for Submersible Pumps to Supply Drinking Water in Remote Areas, India , 2015-Santhosh Hebbar, Varaprasad G (Diary Number: L-61922/2015).
3. Sandalwood Tree Protection Using Bluetooth Version 4.0", India, 2015-Santhosh Hebbar, Praveenraj P., Rajeshwari Madli, Varaprasad G. ( Diary Number: L-62831/2015.)
4. Automatic Detection and Notification of Potholes and Humps on Roads to Aid Drivers India, 2015- Santhosh Hebbar, Rajeshwarli Madli, Praveenraj Pattar, Varaprasad G. ( Diary Number: L.409/2015-CO/)
5. Analysis on Water Quality Monitoring Tools", India, 2016- Varaprasad G, Divya MN, Vagdevi, Shruthi K N (10485/2015-CO/L)

# B M S COLLEGE OF ENGINEERING, BENGALURU

STRATEGIC PLANNING: COMPLIANCE TO THE STG (JULY 2015-JUNE 2016)

**PATENTS FILED**

1. An Improved Faucet with Automatic Flow Control using proximity sensorp-Dr.D.Seshachalam and Gautam Gare (201641006819/2016).
2. Title: Green Synthesis of Highly Porous Carbon Nano spheres from Arecanut- Prof.Gurumurthy Prof.Martin Jebraj Prof. Mallikharjuna Babu (4029/CHE/2015).
3. Reversibly Photolcokable Azobenzene Derivatives- Prof.Gurumurthy (TEMP/E-1/23849/2015/CHE).
4. A process to extract liquid dielectric coolant from the Sesame oil- Prof V.Champa, Prof.A.N.Nagashree, Prof.S.Vasudevamurthy, Dr.G.R.Nagabhushana, Dr.B.V.Sumangala (4250/CHE/2015).
5. A process to extract liquid dielectric coolant from the Ricebran oil - Prof V.Champa, Prof.A.N.Nagashree, Prof.S.Vasudevamurthy, Dr. G.R.Nagabhushana, Dr.B.V.Sumangala (4251/CHE/2015).
6. Magnetic Coupling for improved Torque Transmission Using Pivoted Magnets- Dr.G.Giridhar, Dr.V.Arun Kumar (Filed Application No. 2807/CHE/ 2015 Dated 04/06/2015).
7. Bump Foil Squeeze Film Dampers With Floating Shims In A Constrained Space - Dr.L.Ravikumar, G.Sarvanakumar, Dr.V.Arunkumar (Dr.Ambedkar Institute of Technology) (2451/CHE/2015,15/05/2015).
8. Bifurcated Stator Winding Configuration For Three Phase Induction Generators - Dr P.Meena, Gautham Tantry H, Anish Rao, Ashik Bopanna, Vijay M N (3311/CHE/2015 29/06/2015)
9. Compositions Comprising Terrazyme For Compressed Stabilized Earth Blocks (Csebs), Methods Therefore - Sravan M V, Prof H B Nagraj (3403/CHE/2015,03/07/2015)
10. Cascaded Air Foil Thrust Bearing- Ravikumar R N, Rathanraj Kj, Arunkumar V (Dr Ambedkar Institute Of Technology) (3663/CHE/2015107/07/2015)

**E) CONDUCT VARIOUS CREATIVE AND INNOVATIVE COMPETITIONS**

**CV:** Nirmaan ICESS-2015

**ME:** SAE – Aerospace, SAE – Automotive, Phase Shift

**EE:** ABB-BMSCE Makeathon, competition conducted for students, Circuit Challenge in association with Ametek Pvt. Ltd.

**IM:** Phase shift 2016,

**AT:** a)Inter-collegiate competitions in collaboration with the IIA, IIID, Archumen, Saint Gobain, Birla White, and Furniture Design, Regional ZONASA competitions and National NASA competitions.

**MCA:** Two Hackathons in association with Lumisoft India Pvt. Ltd. and Johndeere have been organized by Innovation Cluster Lab.

**9. DEVELOP NEW CURRICULAM FOR 2016-18**

**A) DESIGN & DEVELOPING CURRICULUM FOR PG PROGRAMMES UNDER AUTONOMOUS STREAM**

**CV** Curriculum for PG programmes developed for autonomous stream with courses having self-study component

**ME** M.Tech. in Machine Design, M.Tech in Manufacturing Science & Engineering

**EE** Curriculum revised for UG autonomous stream with several new core courses introduced such as Electrical Energy systems, C++ Programming for Engineering Applications, Power Electronics I and Power Electronics II, revised syllabus od Digital Signal Processing. Curriculum revised for PG courses with several new courses introduced such as Research methodology, Digital measurements, Renewable energy and Photovoltaic, Micro and Smart systems, Real time DSP, Modeling and analysis of Electrical Machines. Introduced self-study component courses, integrated labs for core courses in the revised PG syllabus, Introduced Technical seminar in 4$^{th}$sem for PG course.

# B M S COLLEGE OF ENGINEERING, BENGALURU

STRATEGIC PLANNING: COMPLIANCE TO THE STG (JULY 2015-JUNE 2016)

**EC** With autonomy for PG programs, Curriculum design for PG programs is done working with Industry closely

**IM** Preparing for post-Graduation course for Industrial Engineering

**AT** Syllabi restructured for PG after discussions and deliberations taking current global best practices into account

**CS** PG curriculum framed with effect from with effect from 2016-2017

**TE** Plan to introduce PG programs in the following domain: Signal Processing, Telecommunications System Management, Networking

**MCA** Academic Autonomy for MCA program is granted from 2016 and Syllabus for I year MCA is framed

**MBA** The MBA program consists of 4 semesters and 100 credits. First and second semesters will have core courses, zero credit mandatory courses and one seminar each. The core courses are designed to address the basic concepts in the functional and cross functional areas of management. Seminar topics are identified in such ways that they will make the students learn and understand the contemporary issues in the field of management. Third and fourth semesters along with the core courses will introduce the students to their choice of specialization. Students can choose either a functional discipline or a combination of functional and cross functional disciplines as their specialization. The courses will be offered in 4 areas of specialization viz., Financial Management, Marketing Management, Human Resources Management and General Management. In each specialization there are 6 courses offered as functional and 2 courses offered as cross functional disciplines. The cross functional discipline will help students to learn and acquire inter disciplinary knowledge. Apart from this, the student will have an opportunity to do an internship for 4 weeks between second and third semester in an organization which gives them corporate exposure and a learning experience. During the fourth semester, the student will take up a final project for 6 weeks in their area of specialization. Here the student can affiliate with an organization or do an independent research in any area of interest and submit a report.

STRATEGIC PLANNING: COMPLIANCE TO THE STG (JULY 2015-JUNE 2016)

**B) INTRODUCE MID-COURSE SURVEY AND COURSE END SURVEY. INTRODUCE INDUSTRY RELEVANT COURSES, ENCOURAGING INTER-DISCIPLINARY PROJECTS**

**CV**: Course end survey is being done.
**ME:** Course End Survey introduced in few courses.
**EE:** Interdisciplinary project executed in association with CSE and TCE departments. Course end surveys conducted for courses offered.
**EC**: NOKIA resource persons have delivered 10Hr as a part of NOKIA lecture series on LTE, 5G etc.
**IM**: feedback from students, and from the teachers.
**AT:** Inter-disciplinary Projects involving: a) Art and Architecture b) Digital Media & Architecture c) Building Services & Architecture d) NOKIA resource persons have delivered.
**CS:** A course software project management and finance is introduced in its start by industry expert.
**CH:** The PG Biochemical Engineering is now autonomous. The curriculum helps in developing both fundamental and design skill of the students. In 3rd and 4rd Semester students will undertake industrial training and project. In 1st & 2nd semester they will learn all the core and electives so that they are ready with all the required Program Outcomes by the end of first year.
**BT**: Genome informatics, Biotechnology for Society.
**MCA**: Course End Survey has been already adopted in the Department and an Industry relevant course is introduced during Autonomous batch of 2016.

## ACADEMIC AUDIT

i. Academic audit was conducted at department level comprising of senior faculty members during **08.06.2015 to 10.06.2015** to verify the following:

1. Course Files (updated)
2. Attendance Registers
3. Documents related to Quiz/AAT
4. CIE - Question papers & Answer booklets
5. Project related documents
6. Proctor dairies
7. Achievement of Course outcomes

ii. Audit on Comprehensive Course conducted by prof. K. Rajanikanth, academic expert. The audit was carried out holding interactions with various stake holders as follows:

| | |
|---|---|
| 19.10.2015 & 20.10.2015 | Presentation by faculty handling comprehensive courses & discussions |
| 03.11.2015 | Focused Group Discussion with third semester students |
| 03.11.2015 | Closing remarks By Dr. K. Rajanikanth based on Faculty Presentations and Students' Feedback. |

**10. LAB ACCREDITATION**

Accreditation of laboratories is one of the major priorities. Detailed NABL accreditation programme plan has been chalked out. Initially accreditation of one lab each in Mechanical, Civil & Medical Electronics is being taken up. Application in this regard is proposed to be made during April-May 2017.

**11. EVENTS**

Awareness of sustainable technologies and their implementation at the grass root level has been attempted through 30 numbers of Workshops / Seminars / Guest lectures / Installations / Exhibitions to augment current professional industry trends.

| | |
|---|---|
| **AT** | Awareness of sustainable technologies and their implementation at the grass root level has been attempted through 30 numbers of Workshops /Seminars/ Guest lectures/ Installations / Exhibitions to augment current professional industry trends |
| **ME** | Assessment of quality of Teaching Learning Process, Automobile Mechanics and IC Engine, MSME activities and Technology Incubation Non Destructive Testing, Machining and Material characterization', Advanced Materials and Applications |
| **EC** | Conduct events (Workshops and conference) in the cutting edge technologies like High Speed computing, health care, Biotechnology, Renewable energy resources and Sustainable technologies, National conference on Network Embedded and Wireless Systems(NEWS 2016) during Aug 2016 |

**EE** One Week Faculty Development Program on Design, Analysis and implementation of Power Electronic Circuits, Workshop on Industry – Academia Interaction, Microgrids – Classification, Implementation, and Recent Trends, TEQIP II sponsored One week workshop on Principles, Practices and Applications of Computer Vision, PRAKALPA: Regional level project competition based on UTLP, A Workshop on Internet of things and home automation, Two - Day workshop on Solar Photovoltaics and Microgrid Applications, Technical training program for technical staff of Electrical and Electronics Department on "Switch Gear and Protection" at Universal Power Controls Training Centre, Satyamangala Industrial Area, Smart College Sphere –Neighbour hood Innovation Eco system, A value added course on UTLP (Unified Technology Learning Platform) through Project based learning, MATLAB training (for 2016a version) programme, Workshop on Go to UVM by Mr.Gurubasappa from CVC Pvt. Ltd., Workshop on Technical Write-up by Dr.T.Srinivas and Mr. Javed from IISc, Bangalore

**TE** Sustainable Telecommunication Technology, Telecommunication for Society, Telecommunication Engineering Education

**BT** Fundamentals of Drug Discovery Process: Industrial Perspective (FUNDIP-2016), Innovations and Entrepreneurship opportunities in Biotechnology, AICTE approved FDP by IIT Bombay on "Use of ICT in Education for Online and Blended

ANNEXURE- V

| SNo | Name | Present Position | New Position wef December 2016 |
|---|---|---|---|
| 1 | Dr.B.V.Ravishankar | Professor Dept. of CV | Vice-Principal |
| 2 | Dr.Ravishankar Deekshit | Dean (Student Affairs) & HOD EE | Dean (Student Affairs) |
| 3 | Dr.B.Kanmani | Professor & HOD TE | Dean (Academic) |
| 4 | Dr.S.Muralidhara | Professor & HOD CV | Dean (First Year B.E.) |
| 5 | Dr.R.V.Ranganath | Dean (Academic) | Professor, Dept. of CV |
| 6 | Dr.Vinod C.Aralimatti | Dean (PG Studies) | Professor, Dept. of ME |
| 7 | Dr.K.Guruprasad | Dean (First Year B.E.) | Principal, BMSECE |
| 8 | Dr.Maya Naik | Professor Dept. of CV | Professor & HOD CV |
| 9 | Dr.L.Ravi Kumar | Professor & HOD of ME | Professor & HOD of ME |
| 10 | Dr.C.Lakshminarayana | Professor Dept. of EE | Professor & HOD EE |
| 11 | Dr.G.Poornima | Associate Professor Dept. of E&C | Associate Professor & HOD E&C |
| 12 | Dr.K.J.Rathan Raj | Professor & HOD Dept. of IM | Professor & HOD Dept. of IM |
| 13 | Dr.B.G.Prasad | Professor Dept. of CS | Professor & HOD CS |
| 14 | Dr.Rajeshwari M. Hegde | Associate Professor Dept. of TE | Associate Professor & HOD TE |
| 15 | Dr.K.R.Radhika | Professor Dept. of IS | Professor & HOD IS |
| 16 | Dr.M.NMamatha | Associate Professor Dept. of E&I | Associate Professor & HOD E&I |
| 17 | Dr.S.B.Bhanu Prashanth | Professor Dept. of ML | Professor & HOD ML |
| 18 | Dr.G.N.Rameshaih | Associate Professor Dept. of CH | Associate Professor & HOD CH |
| 19 | Dr.Savithri Bhat | Associate Professor Dept. of BT | Associate Professor & HOD BT |
| 20 | Dr.M.V.Murugendrappa | Associate Professor Dept. of PHY | Associate Professor & HOD PHY |
| 21 | Dr.M.S.Dharmaprakash | Professor & HOD Dept. of CHE | Professor & HOD Dept. of CHE |
| 22 | Dr.Potluri Geethavani | Professor Dept. of MAT | Professor & HOD MAT |
| 23 | Dr.D.N.Sujatha | Professor & HOD Dept. of MCA | Professor & HOD Dept. of MCA |
| 24 | Dr.S.John Manohar | Professor of Dept. of MBA | Professor & HOD MBA |

ANNEXURE-VI

## LIST OF CANDIDATES SELECTED & APPOINTED - TEACHING

### DEPARTMENT OF ARCHITECTURE

| SNo | Name | Post | Remarks |
|---|---|---|---|
| 1 | Dr.M.N.Shobha | Professor | Reported |
| 2 | Smt.M.Bhagyalaxmi | Associate Professor | Reported |
| 3 | Smt.Dakshayini R Patil | Associate Professor | Reported |
| 4 | Smt.V.Shantala | Associate Professor | Reported |
| 5 | Smt.Triveni Amarnath | Associate Professor | Reported |
| 6 | Smt.Laxmi Nagaraj | Associate Professor | Reported |
| 7 | Smt.Shanu Raina | Assistant Professor | Reported |
| 8 | Smt.Maithily Velagi | Assistant Professor | Reported |
| 9 | Sri.Surbahon Rajkumar | Assistant Professor | Reported |
| 10 | Smt.Namratha Bharadwaj | Assistant Professor | Reported |
| 11 | Sri.Tejus R Meda | Assistant Professor | Reported |
| 12 | Sri.K.Dhinakaran | Assistant Professor | Reported |
| 13 | Smt.Rachana Suraj | Assistant Professor | Reported |
| 14 | Smt.Shilpa Shirish | Assistant Professor | Reported |
| 15 | Smt.Vandana Prakash | Assistant Professor | Reported |
| 16 | Smt.Shanu Raina | Assistant Professor | Reported |
| 17 | Smt.Rohini Iyengar | Assistant Professor | Reported |
| 18 | Smt.Nivedita Tambad | Assistant Professor | Reported |
| 19 | Smt.Maheshwari Gupta | Assistant Professor | Reported |
| 20 | Smt.Sushma Madhusudhan Betgeri | Assistant Professor | Reported |
| 21 | Smt.Girija Umashankar | Assistant Professor | Reported |
| 22 | Smt.R.Shibina | Assistant Professor | Not Reported |
| 23 | Smt.Jambavathi | Assistant Professor | Not Reported |
| 24 | Sri.Chandan Kumar Rajak | Assistant Professor | Not Reported |

### DEPARTMENT OF CIVIL ENGINEERING

| SNo | Name | Post | Remarks |
|---|---|---|---|
| 1 | Sri.K.Parthan | Assistant Professor | Reported |

**DEPARTMENT OF MECHANICAL ENGINEERING**

| SNo | Name | Post | Remarks |
|---|---|---|---|
| 1 | Sri.L.Ravi | Assistant Professor | Reported |

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

| SNo | Name | Post | Remarks |
|---|---|---|---|
| 1 | Smt.Kavitha Sooda | Associate Professor | Reported |
| 2 | Sri.B.J.Manjunath | Assistant Professor | Reported |

**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

| SNo | Name | Post | Remarks |
|---|---|---|---|
| 1 | Sri.H.V.Abhijith | Assistant Professor | Reported |
| 2 | Smt.K.B.Rashmi | Academic Intern | Reported |
| 3 | Smt.B.Y.Vineetha | Academic Intern | Reported |
| 4 | Smt.Surabhi Kakade | Academic Intern | Reported |

**DEPARTMENT OF MEDICAL ELECTRONICS**

| SNo | Name | Post | Remarks |
|---|---|---|---|
| 1 | Dr.M.S.Suma | Professor | Reported |

**DEPARTMENT OF CHEMICAL ENGINEERING**

| SNo | Name | Post | Remarks |
|---|---|---|---|
| 1 | Dr.Vijay M Shinde | Assistant Professor | Reported |

**R & D CENTRE**

| SNo | Name | Post | Remarks |
|---|---|---|---|
| 1 | Dr.K.Srinivasan | Associate Professor | Reported |

## LIST OF CANDIDATES SELECTED & APPOINTED – NON-TEACHING

| SNo | Name | Post | Dept. | Remarks |
|---|---|---|---|---|
| 1 | Smt.B.Shruthi | Office Assistant | MBA | Reported |
| 2 | Sri.H.R.Shama Sundar | Driver cum Attender | Dean (PG) | Reported |
| 3 | Smt.B.N.Lakshmi | Office Assistant | COE | Reported |
| 4 | Sri.Harish Betageri | Technical Assistant | R&D | Reported |
| 5 | Sri.H.M.Manjunath | Electrician | BLD | Reported |
| 6 | Smt.Maheshwari | Office Assistant | COE | Reported |
| 7 | Smt.S.R.Bindu Bharathi | Office Assistant | EC | Reported |
| 8 | Sri.K.Chetan Kumar | Assistant Instructor | CV | Not Reported |
| 9 | Smt..SM.Gajalakshmi | Assistant Instructor | CV | Not Reported |

Annexure - VII

# CENTRE FOR INNOVATION INCUBATION AND ENTREPRENURSHIP (CIIE)

by,
Dr H N Suma
Professor,
Department of Medical Electronics,
BMSCE, BANGALORE-19

## THE PROPOSAL

CIIE is to facilitate Innovation through Research and collaboration for translating domain expertise into products or technologies.

The Centre aims at fostering entrepreneurial spirit, promote start-ups by providing appropriate incubation facilities, offer consultancy services and improve industry institute interaction.

## VISION

To create products and technologies that address the societal needs and also nurture the innovative minds to emerge as job providers.

## MISSION

Create an ecosystem to nurture innovation and entrepreneurship through incubation support, facilitation of technology transfer for commercialization by multidisciplinary approach.

# OBJECTIVES

- Promote culture of entrepreneurship through various activities - Entrepreneurship Awareness Camps (EAC), Entrepreneurship Development Programmes (EDPs), education, training, Summit, FDP. MDP, Discussion Forums) that facilitate creativity and innovation.
- Build strong network of Mentors/Advisors across the verticals.
- Provide necessary infrastructure support to incubates to progress in their ideas.
- Facilitate interaction between industry, institution and funding agencies to transform concept to commercialization
- Leverage schemes of the Government bodies towards promoting entrepreneurship.
- Foster and sensitize family business through education, awareness and mentoring and also encourage social entrepreneurship.

# OUTCOMES

- Achieve 2 % start-ups/Entrepreneurs on campus during the first two years.
- Transform at least 10% of prototypes and proof of concepts into Product/Technology/Service across the campus every year.
- Become a hub for entrepreneurial activities across the state.

Acknowledgments

- Prof. Dr. H P Khincha, Chariman, Karnataka State Innovation Council
- Dr. Shyam Vasudev Rao, Technical Director, Masstrichi University Education and Research Center

# THANK YOU

Annexure - VIII

BMS COLLEGE OF ENGINEERING, BANGALORE 560019

STATEMENT SHOWING THE DETAILS OF TEACHING VACANT POSTS TO BE FILLED BY DIRECT RECRUITMENT

| | Professor | | Asso Prof | | Asst Prof | | Total | | |
|---|---|---|---|---|---|---|---|---|---|
| Dept | DR Vacancy | B/L Advertised not filled | DR Vacancy | B/L Advertised not filled | DR Vacancy | B/L selected not reported | DR Vacancy | B/L posts Adverti sed & not filled | Remarks |
| Civil | 0 | 0 | 1 | 1 | 2 | 0 | 3 | 1 | 1 B/L Asso Prof to be readvertised. Hence this post has to be retained. |
| Mech | 2 | 0 | 4 | 0 | 1 | 1 | 7 | 1 | Sadashiva M. ltr put up to DTE and reply is awaited as to whether to appoint or proposal to be sent next candidate in the selected lsit. Hence this post has to be retained |
| Elect | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 B/L Asso Prof to be readvertised. Hence this post has to be retained. |
| Elns | 2 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | |
| IEM | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | Court case is pending in respect of 01 Asso.Prof. Hence this post has to be retained. |
| Phy | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | |
| Chem | 1 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | |
| Maths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 7 | 0 | 9 | 2 | 5 | 1 | 21 | 3 | |

Total Direct Recruitment Vacant Posts : 24
Posts to be retained : 4
Posts to be abolished : 20

BMS COLLEGE OF ENGINEERING, BANGALORE 560019

STATEMETN SHOWING DETAILS OF TECHNICAL VACANT POSTS TO BE FILLED BY DIRECT RECRUITMENT PROPOSED FOR ABOLITION

| SN | Dept | Instructor | Draftsman | Mechanic | Helper | Total | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | Civil | 0 | 0 | 1 | 3 | 4 | |
| 2 | Mech | 2 | 1 | 2 | 7 | 12 | **Helper**: Proposal has been sent to DTE to appoint 02 candidates on compassionate grounds. Hence retaining 02 posts, 05 posts may be abolished |
| 3 | Elect | 1 | 0 | 0 | 0 | 1 | |
| 4 | Elns | 1 | 0 | 1 | 1 | 3 | |
| 5 | IEM | 1 | 0 | 1 | 1 | 3 | **Helper**: Proposal has been sent to Dte to appoint 01 candidate on compassionate grounds. Hence Ithis post has to be retained |
| 6 | Phy | 0 | 0 | 0 | 2 | 2 | Helper: Proposal has been sent to DTE to appoint 01 candidate on compassionate grounds. Hence 01 post has to be retained and 01 may be abolished. |
| 7 | Chem | 0 | 0 | 1 | 0 | 1 | |
| 8 | Geo | 0 | 0 | 0 | 1 | 1 | |
| | Total: | 5 | 1 | 6 | 15 | 27 | |

Total Direct Recruitment Vacant Post 27
Posts to be retained : 4
Posts to be abolished : 23

BMS COLLEGE OF ENGINEERING, BANGALORE 560019

**STATEMENT SHOWING THE DETAILS OF PROMOTION VACANCIES OF TECHNICAL NON TEACHING STAFF**

| SN | Dept | Foreman | Asst Instructor | Mechanic | Total | Remarks on promotion vacancies |
|---|---|---|---|---|---|---|
| 1 | Civil | 1 | 3 | 0 | 4 | **Foreman** - Proposal for promotion has to be sent to DTE **Asst Instr** - At present no Elgible candidates in feeding cadre. There is 01 SC backlog & 01 ST backlog. As there is 01 SC candidate in feeding cadre, 01 post has to be retained and the remaining 02 posts may be abolished. |
| 2 | Mech | 1 | 0 | 2 | 3 | **Foreman:** As there is no candidate eligible for promotion in feeding cadre, DTE has already been requested to accord approval to fill this post by DR. Hence this post may be abolished.<br><br>**Mechanic** - There is 02 SC promotion backlogs. There are 02 SC candidates in feeding cadre of Helper. Hence 02 post have to be retained. |
| 3 | Elect | 0 | 1 | 1 | 2 | **Asst Instructor:** This is a single post cadre. As there is no candidate eligible for promotion in feeding cadre, DTE has already been requested to accord approval to fill this post by DR. Hence this post may be abolished.<br><br>**Mechanic:** This is a single post cadre There is no possibility of filling up of this post by promotion as all the candidates in the feeding cadre have not passed SSLC. Hence this post may be abolished. |
| 4 | Elns | 1 | 1 | 0 | 2 | **Foreman & Asst Instr:** As there is no candidate eligible for promotion in feeding cadres of these posts , DTE has already been requested to accord approval to fill these 02 post by DR. Hence these posts may be abolished. |
| 5 | IEM | 1 | 0 | 0 | 1 | **Foreman:** As there is no candidate eligible for promotion in feeding cadre, DTE has already been requested to accord approval to fill this post by DR. Hence this post may be abolished. |
| 6 | Phy | 0 | 0 | 1 | 1 | **Mechanic:** This is a single post cadre. There is no possibility of filling up of this post by promotion as the candidate in the feeding cadre has not passed SSLC. Hence this post may be abolished. |
| 7 | Chem | 0 | 1 | 0 | 1 | **Asst.Instr:** This is a single post cadre. There is no possibility of filling up of this post by promotion as the candidate in the feeding cadre has not passed SSLC. Hence this post may be abolished |
| | **Total:** | **4** | **6** | **4** | **14** | |

Total Promotion Vacant Posts : 14
Posts to be retained 4
Posts to be abolished 10

BMS COLLEGE OF ENGINEERING, BANGALORE 560019

**STATEMETN SHOWING DETAILS OF ADMINISTRATIVE VACNAT POSTS TO BE FILLED BY DIRECT RECRUITMENT PROPOSED FOR ABOLITION**

| SN | Cadre | No. of Direct Recruitment | Remarks |
|---|---|---|---|
| 1 | FDA | 4 | Proposal has been sent to DTE to appoint 01 candidate on compassionate grounds. Hence leaving 01 post remaining 03 posts have to be abolished. |
| 2 | SDA | 1 | Proposal has been sent to DTE for change of cadre from typist to SDA . Hence this post has to be retained. |
| 3 | Typist | 1 | |
| 4 | Peons | 11 | Proposal has been sent to DTE to appoint 01 candidate on compassionate grounds. 01 backlog post to be filled . Hence leaving 02 post remaining 09 posts have to be abolished. |
| | Total: | **17** | |

Total Direct Recruitment Vacant Posts : 17
Posts to be retained : 4
Posts to be abolished : 13

**STATEMETN SHOWING DETAILS OF ADMINISTRATIVE VACNAT POSTS TO BE FILLED BY PROMOTION**

| SN | Cadre | Promotion | Remarks |
|---|---|---|---|
| 1 | AAO | 1 | At present there is no eligible candidate in feeder cadre. However as this is a highest post in administrative cadre, this post has to be retained. |
| 2 | PRO | 1 | As there is no necessity of fillig up of this post , this may be abolished |
| 3 | Suptd | 3 | Proposal for promotion to 01 post has been sent to DTE and proposal for promotion to second post has to be placed before DPC . There is no eligibile candidate for third vacant post. Hence These 03 posts have to be retained. |
| 4 | FDA | 2 | proposal for promotion to these 02 posts has to be placed before DPC . Hence These 02 posts have to be retained |
| 5 | SDA | 1 | proposal for promotion to this post has to be placed before DPC . Hence This post has to be retained |
| 6 | Attenders | 3 | Proposal has been sent to DTE to appoint 01 candidate on compassionate grounds against this promotion vacancy. Proposal for promotion to 02 posts has been sent to DTE |
| | Total: | **11** | |

Total Promotion Vacant Posts : 11
Posts to be retained : 10
Posts to be abolished : 1

Annexure-IX

# BMS COLLEGE OF ENGINERING, BENGALURU-19
## BOARD OF GOVERNORS (BOG)
## Minutes of 64th Meeting
## January 11, 2017

| SNo | Name and Designation at the time of appointment | Dept | D.O.E.R.S | Date of Completion of two years of service | Date of declaration of Probation period | Remarks |
|---|---|---|---|---|---|---|
| **TEACHING STAFF** | | | | | | |
| 1 | Sri.Srinivasamurthy A Asst. Prof. | Civil | 27.09.2014 | 26.09.2016 | 26.09.2016 | |
| 2 | Sri.Ramesh Mallappa Chalakapure Asst. Prof. | Mech | 29.09.2014 | 28.09.2016 | 28.09.2016 | |
| 3 | Smt.Kavitha Rani Asst. Prof. | IEM | 09.10.2014 | 08.10.2016 | 08.10.2016 | |
| **NON-TEACHING STAFF** | | | | | | |
| 1 | Sri.T.V.Nayaka Helper | Civil | 29.09.2014 | 28.09.2016 | 28.09.2016 | |
| 2 | Sri.Srinath N. Helper | ME | 09.10.2014 | 08.10.2016 | 08.10.2016 | |
| 3 | Sri.Lakshmana Helper | ME | 05.11.2014 | 04.11.2016 | 04.11.2016 | |
| 4 | Sri.Venkatesh FDA | Office | 08.12.2014 | 07.01.2017 | 07.01.2017 | As he was sanctioned 31 days of LWP during 2015, his probation period has been postponed |
| 5 | Sri.Boraiah Peon | Phy | 31.10.2014 | 30.10.2016 | 30.10.2016 | |
| 6 | Sri.Sanjeev Kumar Peon | Office | 02.12.2014 | 01.12.2016 | 01.12.2016 | |

B.M.S. COLLEGE OF ENGINEERING, BANGALORE 560019

STATEMENT SHOWING THE LIST OF EMPLOYEESAPPOINTED FROM 1982 TO 2007 WHOSE PROBATION PERIOD HAS TO BE DECLARED

| SNo. | Name and Designation at the time of appointment | Dept | D.OE.R.S | Date of completion of two years of service | Date of declaration of Probation Period | Remarks |
|---|---|---|---|---|---|---|
| | **ADMINISTRATIVE STAFF** | | | | | |
| 1 | Sri Kristappa Koliwad FDA (now Suptd) | Office | 08.05.1992 | 07.05.1994 | 07.05.1994 | |
| 2 | Smt S.Bhagyalakshmi SDA (now FDA) | Office | 07.05.1985 | 06.05.1987 | 06.05.1987 | |
| 3 | Sri B.P.Partha SDA (now FDA) | Office | 06.05.1985 | 05.05.1987 | 05.05.1987 | |
| 4 | Sri Rudrappa SDA | Office | 07.02.1987 | 06.02.1989 | 06.02.1989 | |
| 5 | Smt M.Leelavathi SDA | Office | 21.05.1987 | 20.05.1989 | 20.05.1989 | |
| 6 | Smt S.V.Nalini SDA | Office | 30.03.1995 | 29.03.1997 | 29.03.1997 | |
| 7 | Sri C.Raju SDA | Office | 30.03.1995 | 29.03.1997 | 29.03.1997 | |
| 8 | Smt A.N.Shubha SDA | Office | 30.03.1995 | 29.03.1997 | 29.03.1997 | |
| 9 | Smt M.Shobha, Stenographer | Office | 31.10.1988 | 30.10.1990 | 30.10.1990 | |
| 10 | Smt G.Shubhavathi, Typist (now Suptd) | Office | 28.10.1988 | 27.10.1990 | 27.10.1990 | |
| 11 | Sri K.S.Chandrappa, Typist (now SDA) | Office | 24.03.1992 | 23.03.1994 | 23.03.1994 | |
| 12 | Smt G.Geethalakshmi Typist | Office | 30.03.1995 | 29.03.1997 | 29.03.1997 | |
| 13 | Smt K.V.Jogeshwari Typist | Office | 30.03.1995 | 29.03.1997 | 29.03.1997 | |
| 14 | Sri N.Chowdappa Librarian | Library | 16.05.1985 | 15.05.1987 | 15.05.1987 | |
| 15 | Smt N.Bharathi Asst.Librarian | Civl | 22.05.1985 | 21.05.1987 | 21.05.1987 | |
| 16 | Smt P.Uma Attender (now SDA) | Office | 24.01.1992 | 23.01.1994 | 23.01.1994 | |
| 17 | Sri R.Srinivasa Peon (now Attender) | Office | 06.05.1985 | 05.05.1987 | 05.05.1987 | |
| 18 | Sri S.K.Ramesh Babu Peon | Office | 07.05.1985 | 06.05.1987 | 06.05.1987 | |

| SNo. | Name and Designation at the time of appointment | Dept | D.OE.R.S | Date of completion of two years of service | Date of declaration of Probation Period | Remarks |
|---|---|---|---|---|---|---|
| 19 | Sri T.M.Narayana Peon (now SDA) | Office | 07.05.1985 | 06.05.1987 | 06.05.1987 | |
| 20 | Sri A.Varadaraju Peon (now FDA) | Office | 07.05.1985 | 06.05.1987 | 06.05.1987 | |
| 21 | Sri Kumara Peon (now Attender) | Office | 17.05.1985 | 16.05.1987 | 16.05.1987 | |
| 22 | Sri S.J.Jayashankar Peon | Office | 24.01.1992 | 23.01.1994 | 23.01.1994 | |
| 23 | Sri J.Srinivasa Peon | Office | 20.10.1994 | 19.10.1996 | 19.10.1996 | |
| 24 | Sri T.Ramakrishna Peon | Office | 30.03.1995 | 29.03.1997 | 29.03.1997 | |
| 25 | Sri P.Ramaiah Peon | Office | 30.03.1995 | 29.03.1997 | 29.03.1997 | |
| 26 | Smt M.Shanthakumari Peon | Office | 05.04.1999 | 04.04.2001 | 04.04.2001 | |
| 27 | Sri Fairoz Khan Peon | Office | 13.10.1999 | 12.10.2001 | 12.10.2001 | |
| 28 | Sri C.V.Parthasarathy Draftsman | Civl | 04.08.1982 | 03.08.1984 | 03.08.1984 | |
| 29 | Sri K.N.Radhakrishna, Asst.Instructor (now Instructor) | Civl | 31.01.1983 | 30.01.1985 | 30.01.1985 | |
| 30 | Sri B.Prakash, Asst.Instructor (now Instructor) | Civl | 12.02.1983 | 11.02.1985 | 11.02.1985 | |
| 31 | Sri N.Ramesh Mechanic (now Asst.Instr.) | Civl | 27.08.2007 | 26.08.2009 | 26.08.2009 | |
| 32 | Sri A.Durgoji Helper | Civl | 04.02.1983 | 03.02.1985 | 03.02.1985 | |
| 33 | Sri B.Nagaraja Helper | Civl | 07.02.1987 | 06.02.1989 | 06.02.1989 | |
| 34 | Sri B.Ramakrishna, Helper | Civl | 07.02.1987 | 06.02.1989 | 06.02.1989 | |
| 35 | Sri B.C.Harisha, Helper (Geology) | Civl | 05.01.1999 | 04.01.2001 | 04.01.2001 | |
| 36 | Sri R.C.Puttaswamy Mechanic (now Instructor) | Mech | 06.04.1992 | 05.04.1994 | 05.04.1994 | |
| 37 | Sri V.Vijayakumar Mechanic | Mech | 01.09.2007 | 31.08.2009 | 31.08.2009 | |
| 38 | Sri R.Lokesh, Mechanic (now Asst.Instr.) | Mech | 03.09.2007 | 02.09.2009 | 02.09.2009 | |

| SNo. | Name and Designation at the time of appointment | Dept | D.OE.R.S | Date of completion of two years of service | Date of declaration of Probation Period | Remarks |
|---|---|---|---|---|---|---|
| 39 | Sri Kalandar Saheb<br>Mechanic<br>(now Asst.Instr.) | Mech | 25.08.2007 | 24.08.2009 | 24.08.2009 | |
| 40 | Sri R.Mallesh<br>Mechanic<br>(now Asst.Instr.) | Mech | 27.08.2007 | 26.08.2009 | 26.08.2009 | |
| 41 | Sri N.Nagaraju<br>Helper | Mech | 24.01.1992 | 23.01.1994 | 23.01.1994 | |
| 42 | Sri V.Magendra<br>Helper | Mech | 07.02.1987 | 06.02.1989 | 06.02.1989 | |
| 43 | Sri S.Chittibabu<br>Helper | Mech | 05.01.1999 | 04.01.2001 | 04.01.2001 | |
| 44 | Sri R.Naveen Kumar<br>Helper | Mech | 05.04.1999 | 04.04.2001 | 04.04.2001 | |
| 45 | Sri G.Krishnamurthy<br>Helper<br>Mechanic<br>(now Asst.Instr.) | Mech | 13.10.1999<br>25.08.2007 | 12.10.2001<br>24.08.2009 | 12.10.2001<br>24.08.2009 | |
| 46 | Sri B.C.Narayana<br>Helper | Elect | 31.01.1983 | 30.01.1985 | 30.01.1985 | |
| 47 | Sri S. Venkatesh<br>Helper | Elect | 26.09.1995 | 25.09.1997 | 25.09.1997 | |
| 48 | Sri M. Arunkumar<br>Singh | Elect | 09.04.1999 | 08.04.2001 | 08.04.2001 | |
| 49 | Sri H.C.Yagnesh,<br>Helper | Elns | 30.03.1995 | 29.03.1997 | 29.03.1997 | |
| 50 | Sri T.S.Suresh<br>Mechanic<br>(now Asst.Instr.) | IEM | 31.08.2007 | 30.08.2009 | 30.08.2009 | |
| 51 | Sri N.Prathap<br>Mechanic | IEM | 31.08.2007 | 30.08.2009 | 30.08.2009 | |
| 52 | Sri H.V.Chethankumar<br>Mechanic<br>(now Asst.Instr.) | Phy | 30.08.2007 | 29.08.2009 | 29.08.2009 | |
| 53 | Sri V.Venkatesh<br>Helper | Phy | 24.01.1992 | 23.01.1994 | 23.01.1994 | |
| 54 | Sri J.Girigowda<br>Helper | Chem | 09.12.1987 | 08.12.1989 | 08.12.1989 | |
| 55 | Sri Thimmappa<br>Helper | Chem | 01.10.1992 | 30.09.1994 | 30.09.1994 | |

Annexure - X

# B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019

## TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II

## NINETEENTH MEETING OF THE SUB-COMMITTEE OF BOG

# MINUTES

**DATE : 10.01.2017**

**VENUE : BOARD ROOM**

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# B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II

**NINETEENTH MEETING | 10.01.2017 |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 PRESENT:**

1. Dr.B.V. Ravishankar , TEQIP Co-ordinator-I
2. Dr. L. Ravi Kumar, TEQIP Co-ordinator-II
3. Dr. Suresh Ramaswwamyreddy, Nodal Officer – Finance Aspects
4. Dr. Gowrishankar, Nodal Officer - Academic Activities
5. Dr. H.S.Guruprasad, Nodal Officer- Academic Activities
6. Dr. K. Guruprasad , Nodal Officer - Equity Assurance Plan Implementation
7. Dr. C. Lakshminarayana, Nodal Officer - Equity Assurance Plan Implementation
8. Dr. M. Ramachandra, Principal Investigator & Co-ordinator, CoE

**Invitee**

1. Dr. G. N. Sekhar, Professor of Mathematics

The Principal extended a cordial welcome to the members for the meeting.

1. **Ratification of Minutes of 18th meeting of BOG sub-committee by the BOG**
   The committee noted that BOG has approved and ratified the minutes of the eighteenth meeting of Sub-committee of BOG in the 63rd Meeting of BOG held on 4.8.16 [Annexure-1].

2. **Change of charge of TEQIP Coordinator-I**
   The Principal informed the members that on request by Dr.G.N.Sekhar, Professor-Mathematics to relieve him from the duties of TEQIP Coordinator-I, Dr.B.V.Ravishankar, Vice Principal is entrusted with the responsibility of TEQIP Coordinator- I with due approval by the Chairman-BOG. The Principal further informed the members that the college TEQIP Team under the able leadership of Dr.G.N.Sekhar as TEQIP Coordinator-I could perform well and achieve laurels in implementation of TEQIP II project in the college. The Principal thanked Dr.G.N.Sekhar for all his support during his tenure as TEQIP Coordinator-I.

Dr. L.Ravikumar, TEQIP Co-ordinator-II expressed thanks to Dr.G.N.Sekhar for guiding the TEQIP team in timely achievement of the targets. Dr. G.N.Sekhar thanked the members of the sub-committee of BOG for their able guidance and mentoring throughout the project period that led the institution towards the sanction of additional TEQIP grants of Rs.5 crores for being one among the well performing TEQIP institutions in the country. Further, Dr.G.N.Sekhar extended sincere thanks to all the members of the TEQIP Team for their support and dedication in TEQIP activities of the college.

**3. Extension of TEQIP II Project Period**

The committee noted that NPIU through its communication dated 26.10.16, informed that the Project, TEQIP – II has been extended till 31st March 2017 and to plan the activities accordingly [Annexure-2].

**4. Extension of period of Procurement activities :**

The committee noted that NPIU/SPFU in their communication dated 29.6.2016 informed that the procurement completion date has been extended upto 31st July 2016. Later, on 29.7.2016, NPIU through its mail informed that the procurement completion date has been extended upto 30th September, 2016. Further, the committee noted that NPIU/SPFU through its communication dated 3.11.16 informed that the procurement completion date has been extended to 31st January, 2017 owing to the extension of date of completion of TEQIP II Project period [Annexure- 3].

**5. Performance and Data Audit**

The committee noted that Prof.J.Srihari Rao, former Professor & Dean, NIT-Warangal & performance auditor[nominated by NPIU] and Prof. B.M.Rudresh, Faculty in Government Engineering College, K.R.Pet & data auditor[nominated by NPIU] conducted the third and final round of Performance Audit & Data Audit of TEQIP II activities of the college respectively during August 22-24, 2016. The committee further noted that Performance auditor has adjudged the overall performance of TEQIP II activities as 'quite impressive' in his audit report with the Grade of '1'[grade allotted for substantial evidence of good practice in the quality and standards achieved] for all the parameters of institutional performance [Annexure-4]. The committee appreciated the achievement in performance of TEQIP activities in the college.

6. **Audit of TEQIP-II & COE accounts by the auditors appointed by SPFU and college:**
The committee noted that internal auditor for TEQIP-II funds nominated by the college, Sri.B.N.Jayaram, CA & his team have audited the TEQIP II & COE accounts for the year 2015-16 and have certified the financial statements. The committee took a note of the certified statements at Annexure-5.

The committee took a note of the report of M/s Agarwal A. Kumar & Associates, Chandigarh, Chartered Accountants nominated by SPFU for the audit of TEQIP II & COE Accounts for the period 1.10.15 to 31.3.16. The committee noted that the auditors have stated in their report that there are 'no key areas of weaknesses regarding procedural lapse' [Annexure-6].

Further, the committee noted that on 2.12.2016, a representative from M/s Agarwal A. Kumar & Associates, Chandigarh, Chartered Accountants nominated by SPFU has conducted the internal audit of TEQIP II and COE accounts for the period from 1st April 2016 to 30th September 2016 and the report on the current audit is awaited.

7. **Sponsorship to international travel of faculty members:**
The committee noted that NPIU through its communication dated 6th June 2016 has informed that only two categories as given below are eligible for availing International Travel under the Project, TEQIP-II and also informed to seek prior approval of SPFU/NPIU for extending such sponsorship:

**(i)Presentation of papers limited to:**
(a) Plenary session
(b) Invited lecture

**(ii)Research collaboration only if there is a Joint Research Project.**

Further, the committee noted that NPIU through its communication dated 15.7.2016 informed that 101 institutions reaching all 8 indicators were rated as best performers and for these 101 institutions, it has been decided that the Boards of Governors of the respective institutions are empowered enough to accord approval for undertaking International Travel without any deviation of the objectives of the revised guidelines (applicable till the next Review Mission). The committee also noted that since, our institution is one among the aforesaid 101 institutions, BOG is empowered to accord approval for such sponsorship without deviation of the revised guidelines.

**8. Sanction of final instalment of TEQIP II grants :**

The committee noted that NPIU through its mail dated 9.12.16 has informed about the release of final instalment of TEQIP II grants of Rs. 125 lakhs to the state government with a direction to release the same to the college by providing matching grant of equal magnitude. Further, the committee also noted that the said grants are yet to be released to the college by SPFU-Karnataka [Annexure-7].

**9. Action plan for utilization of the grants received under TEQIP-II (1.2) & Re-appropriation of funds:**

The committee noted that as per the directions of the NPIU/SPFU, an action plan for unspent grants considering additional grants amounting to a total project outlay of Rs.1750 lakhs with proposed utilization from October 2016 till March 2017 was sent to SPFU on 18.10.16. The committee perused the action plan at Annexure-8 and ratified the same.

Further, the committee noted that the college has received a communication from NPIU/SPFU on 16.12.16, stating that the institution may utilize interest amount accrued under TEQIP-II for the Project activities in the same ratio as indicated in PIP. The committee also noted that an action plan was presented at review meeting held on 29.12.16 before NPIU/SPFU Officials.

The committee noted the status of TEQIP II funds as mentioned below and after detailed deliberations, ratified the expenses incurred so far and accorded approval for re-appropriation as below:

| Sl. No. | Head of expenditure | Initial Project allocation (as per PIP) | Re-appropriation approved on 23.2.2016 | Expenditure incurred upto 31.12.16 | Re-appropriation approved |
|---|---|---|---|---|---|
| 1 | Procurement | 562.50 | 562.5 | 676.62 | 788.69 |
| 2 | Assistantship | 250.00 | 279.33 | 347.55 | 869.11 |
| 3 | Research Development | 62.50 | 64.56 | 79.60 | |
| 4 | FSD | 125.00 | 138.97 | 162.51 | |
| 5 | III Cell | 62.50 | 64.01 | 77.08 | |
| 6 | Capacity Development | 25.00 | 24.35 | 24.55 | |
| 7 | Reforms | 12.50 | 10.37 | 42.48 | |
| 8 | Student Support | 25.00 | 17.18 | 22.91 | |
| 9 | IOC | 125.00 | 104.61 | 107.73 | 114.00 |
| TOTAL | | 1250.00 | 1265.88* | 1541.03 | 1771.80* |

*Interest earned on grants.

The Committee also noted that payment for a few bills are kept pending owing to the lack of funds and that a request for the release of Rs.100 lakhs as advance from the management has been sought for continuance of the TEQIP activities till the release of grants from SPFU.

Further, the committee authorized the Principal to re-appropriate the funds as and when required based on the activities if any and to place before the sub-committee for ratification.

**10. Conduction of PHASE SHIFT 2016**

The TEQIP Coordinator-II informed the committee that a National level Annual Tech Symposium, 'PHASE SHIFT-2016' with the theme of "Internet of Things (IOT) was conducted in the college under Industry-Institute-Interaction activity of TEQIP during September 23-24, 2016 with a financial assistance of Rs.8, 67,941/-, from TEQIP II funds. He also informed the committee that PHASE SHIFT-2016 proved a huge success with conduction of 93 technical events such as workshops on various novel technologies, technical writing, panel discussion, hackathons, makeathons, ideathons, paper presentations, treasure hunts using IOT, technical quiz etc., with the active participation of 72 collaborating companies and 53 stalls exhibiting technical developments by the departments, various student societies on campus and industries. The committee appreciated the successful conduction of the event involving all departments of the college and ratified the financial assistance extended for the event.

**11. Award/Renewal of Teaching Assistantship & Research Assistantship under TEQIP –II**

The committee noted that presently, the assistantship to M.Tech/Scholars are withheld temporarily till the receipt of grants. The committee accorded approval for the continuance of teaching assistantship to final year M.Tech students & Research Assistantship to research scholars till the month of February 2017.

Further, the committee noted that applications for the award of teaching assistantships [TA] have been called from students admitted to M.Tech programs during 2016-17 and 124 students have submitted the applications seeking teaching assistantship. After deliberations, the committee accorded approval for the award of teaching assistantship of Rs.5,000/- per month to 124 M.Tech students with effect from 1st October 2016 till the end of February 2017.

**12. Progress Review meeting of TEQIP-II institutions:**

The committee took a note that the Principal and Dr. L. Ravikumar, TEQIP Coordinator-II attended the review meeting of TEQIP II institutions held on 29th December 2016 at SPFU, Karnataka. The committee also noted that Principal & TEQIP Coordinator-II made a presentation on the progress achieved so far under TEQIP-II & COE before the NPIU & SPFU officials. Further, the committee noted that NPIU officials had appreciated the performance of TEQIP activities in the college during the review meeting.

**13. Review of COE:**

The committee noted that Dr. Chandra Shekar Upadhyaya from the department of Aerospace Engineering, IIT-Kanpur nominated by NPIU visited the college on 22.7.16 for review of the progress of COE in the college. Also, the committee noted that the reviewer has stated in his review report that the progress has been excellent and the COE is on-track to achieve its stated goals and appreciated the same.

Further, the committee noted that the NPIU in its communication dated 20.12.2016 [Annexure- 9]has sent the Review report as obtained from the Peer Reviewer and has requested the institution to provide comments on the Review sheet, if any. Further, the committee perused the review sheet and noted that the institution is required to draft an Action Plan based upon peer evaluation comments with concrete and time bound initiatives to implement the recommendations including plans for sustainability of equipment – their use/maintenance etc. and research fellowships indicating concrete suggestions (that can be shared by NPIU with our Mentor, SPFU and the peer reviewer for review). Also, the committee noted that the COE- coordinator has sought ten days time for submitting the said plan.

**14. COE review meeting**

The committee noted that Dr.Chandasree Das, Principal Investigator of COE attended the review meeting organized by NPIU on 19th October 2016 at New Delhi to assess the progress made by each CoE. The committee also noted that during the meeting, Dr.C.S.Upadhyay, IIT-Kanpur nominated by NPIU as reviewer for COE activities of the college expressed satisfaction about the progress made under COE.

**15. Workshop on Good Governance:**

The committee noted that Principal, Dr.K.Mallikharjuna Babu and Dr.Ravishankar Deekshit, Dean[Student Affairs] & member of BOG attended the workshop on Good Governance organized by NPIU on 30thAugust 2016 at India Habitat Centre, New Delhi.

**16. Request seeking for continuance of the services of Dr. Arun Kumar as adviser**

The committee noted that the department of Mechanical Engineering has sought for continuation of the services of Dr. Arun Kumar, former scientist, Dy. Director, NAL as an expert advisor for R & D activities of the department till the end of February 2017. After deliberations, the committee ratified & accorded approval for the same with financial assistance from TEQIP II on the terms as approved earlier.

**17. Online web based satisfaction survey for Students, Faculty & Staff:**

The committee took a note that NPIU through its communication dated 23.8.2016 informed that online web based satisfaction survey for Students, Faculty & Staff is a mandatory activity under TEQIP-II for assessing the performance of the institutions. The committee also noted that all the students and staff members were informed to participate in the said survey and was completed on 19.9.2016. Further, the committee also noted that the 2nd round of web based student, faculty and staff satisfaction survey has commenced on 16th December, 2016 and scheduled to be completed by 9th January, 2017.

**18. Procurement under COE :**

The committee took a note of the status of expenditure under Centre of Excellence as mentioned below.

| Sl. No. | Head of expenditure | Amount spent as on 31.12.16 |
|---|---|---|
| 1 | Procurement | 310.21 |
| 2 | Assistantships | 51.94 |
| 3 | R&D | 8.29 |
| 4 | Faculty & Staff Development | 26.05 |
| 5 | III Cells | 0.96 |
| 6 | IOC | 35.80 |
| | **TOTAL** | 433.25 |

The committee also noted that as per Project Implementation Plan[PIP], the institutions can re-appropriate the funds based on requirement upto a maximum of 35% of total allocation i.e., Rs.175 lakhs amount for the head of expenditure cited under at Sl. Nos. 2-5 and accorded approval for re-allocation of funds based on requirement and ratified the expenditure incurred so far. Further, the committee authorized the Principal to re-appropriate the funds as and when required based on the activities if any and to place before the sub-committee for ratification.

The committee also noted that NPIU & SPFU had communicated wide their mail dated 22.9.15 that if the institutions want to utilize 100% of fund allocation for procurement, they may add extra few packages limiting to 20% over and above maximum allocated fund for procurement. The committee took a note that owing to the aforesaid communication, approval for re-appropriation of funds under procurement head upto a total of Rs.320 Lakhs was accorded and procurement process was initiated accordingly. The committee also noted that as on date, Rs.310.21 lakhs have been spent on procurement.

Further, the committee noted that during the review meeting held on 29.12.16 at SPFU, NPIU officials have informed that the institutions were supposed to plan for 20% procurement in addition to the allocated funds and was not supposed to go ahead with the plan. In view of the above, the committee informed the Principal to stop the further procurement processes and request the concerned officials at NPIU/SPFU for their kind consideration to allow the procurement already made to the extent of Rs.310.21 and for permission to allocate the interest earned on grants to the full extent for procurement.

During deliberations, the committee noted that as per the minutes of the COE review meeting conducted at New Delhi on 19th October 2016, it has stated that 'where required, some portion of the grant could be transferred from sub-component 1.2 to 1.2.1 and vice versa'. The committee informed the TEQIP team to seek extension of period for COE activities and if the COE is to be closed by 31.3.17, to seek permission for transfer of unspent fund under COE to TEQIP II activities owing to the closure of the project period.

19. **Award of Teaching Assistantship under Centre of Excellence[ COE]**

The committee noted that applications for the award of teaching assistantships [TA] under COE were called from students admitted to M. Tech [Manufacturing Science] during 2016-17 and 15 students have submitted the applications. The committee

accorded approval for the award of teaching assistantship of Rs.8,000/- to all the 15 eligible students with effect from 1st October 2016 till the closure of the project and also ratified the continuance of teaching assistantship for the final year M.Tech students and research assistantships to research scholars till the end of the project period.

**20. Faculty visit abroad:**

The committee noted that Dr. M. Ramachandra, Professor of Mechanical Engineering and Coordinator & Principal Investigator, COE in Advanced Materials Research and Dr. S.Srinivas, Associate Professor in the department of Mechanical Engineering and Principal Investigator, COE in Advanced Materials Research were specially invited to chair a session at the high-impact ICCM 2016 - international conference on Composite Materials organized by the World Academy of Science, Engineering & Technology at London, UK during October 17-18, 2016. The committee noted that the said faculty members have chaired the sessions and also have presented their research papers titled "Evaluation of corrosion property of Aluminum-Zirconium dioxide(AlZrO2) Nano composites" and "A model for predicting depth of penetration in abrasive waterjet cutting of polycrystalline ceramics" respectively. Further, the committee noted that Dr. M.V.Murugendrappa, Associate Professor in the department of Physics and Principal Investigator, COE in Advanced Materials Research presented his research paper titled "Structural and Electrical characterization of polypyrrole and cobalt aluminum oxide nano composites" through Skype owing to visa issues. The committee took a note of the reimbursement of expenses made to the aforesaid members and ratified the same.

**21. TEQIP III Participation:**

The committee noted that NPIU in their communication dated 6th January 2017 has informed that the Third Phase of Technical Education Quality Improvement Programme (TEQIP-III) has been approved by the Govt. of India to be implemented as a 'Central Sector Scheme' with total project outlay of Rs.3600 crore. The committee also noted that however, the Project is being initiated with an initial cost of Rs 2660 Cr; the initiation and implementation of the project TEQIP-III will bridge the gap for the institutions in the central, eastern and north-eastern region and hill states with specific interventions. The committee further noted that well performing institutions of TEQIP-I & II will be considered for participation under Sub- Component 1.3: Twinning Arrangements to Build Capacity and Improve Performance of Participating Institutions and ATUs in the Focus States. Further, the committee noted that for this purpose, for ranking of the institutions, the details of performance indicators have been asked [Annexure-10].

In this context, the Principal opined to constitute a committee for drawing proposal for TEQIP III with the following members:

a) Dr. B.V.Ravishankar, Vice Principal
b) Dr.L.Ravikumar, Professor of Mechanical Engineering
c) Dr.H.S.Guruprasad, Professor of Information Science
d) Dr.C.Lakshminarayana, Professor of Electrical & Electronics
e) Dr.Dharmaprakash, Professor of Chemistry
f) Dr.M.C.Sampath Kumar, Associate Professor of Civil Engg
g) Sri.C.T.Puttaswamy, Associate Professor of Chemical Engg

After due deliberations, the committee accorded approval for the constitution of aforesaid committee for preparing the TEQIP III proposal. The Principal further requested Prof. Thukaram to be the mentor and advisor for drawing proposal for TEQIP III. Prof.Thukaram agreed for the same.

**22. Revision of pay of TEQIP office staff & Continuation of services:**

The committee took a note that the yearly enhancement of salary to TEQIP office staff is due and accorded approval as below

a) The committee accorded approval for enhancing the consolidated salary of Smt.S.S.Meenakshi, office assistant at TEQIP section by Rs.1,600/-, [10% hike on Rs.16,000/- as per college norms] per month with effect from 1st May 2016.
b) The committee accorded approval for enhancing the consolidated salary of Sri.Suresh D., office assistant at TEQIP section by Rs.2,200/-,[10% hike on Rs.22,000/- as per college norms] per month with effect from 1st April 2016.
c) The committee accorded approval for enhancing consolidated salary of Smt. M.K.Shilpa, office assistant at TEQIP section to Rs.15,000/-, with effect from 1st July 2016.

During deliberations, the committee noted that Smt. P.V. Padmini, office staff at TEQIP Office has requested for the sanction of maternity leave and accorded approval for the same as per college norms.

After detailed deliberations, the committee recommended for the continuation of the services of Office Assistants working at TEQIP Office in the college under college management owing to closure of TEQIP II project and the requirement of the said staff members for settlement of TEQIP II issues like audit, reporting etc., and also in view of the college proposing to participate in TEQIP III. The committee further noted that there is a need for continuance of services of operators recruited for 'SEM & XRD' and 'Waterjet cutting machine' under COE namely, Sri.K.Rajesh & Sri.G.Shivanna in the college and recommended for the continuation of the services

of the said operators under college management owing to closure of TEQIP II-COE project.

23. **Approval to the faculty/staff attending programs.**

a) The committee took a note of the consolidated list of the approvals of the sub-committee received by circulation for deputing faculty/staff members to attend various programs & conducting programs under TEQIP II/COE [Annexure-11] .

b) The committee took a note of details of faculty/staff members & students seeking approval for conducting/attending various programs under TEQIP II/COE and approved the same [Annexure- 12].

c) The committee noted the consolidated list of the approvals of the sub-committee received by circulation for deputing students/research scholars to attend various programs under TEQIP II/COE [Annexure-13].

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

PRINCIPAL & CONVENOR

CHAIRMAN
BOG SUB-COMMITTEE

# ANNEXURES

Annexure - 1

# BMS COLLEGE OF ENGINEERING, BENGALURU-19
Autonomous College under VTU

## EXTRACT OF THE MINUTES OF THE 63RD MEETING OF THE BOARD OF GOVERNORS HELD ON 4TH AUGUST 2016

### 6.2 MINUTES OF THE 18th MEETING OF THE SUB-COMMITTEE OF BOG OF TEQIP PHASE-II HELD ON 06.06.2016

The Vice-Principal and the TEQIP Coordinator-I apprised the Board that the 18th meeting of the sub-committee of BOG of TEQIP Phase-II was held on 06.06.2016 and the minutes has been circulated to all the members by email.

The Board noted the following points:

- Release of first installment of additional grants of Rs.250 lakhs by GOK;
- Release of second and final installment of COE grants of Rs.166.67 lakhs by GOK;
- Approval accorded by the sub-committee for the release of Research Assistantship and Teaching Assistantships;
- Approval accorded by the sub-committee for various procurement and academic activities;
- Approval accorded by the sub-committee for conduction of 3rd version of PhaseShift2016 as part of the activities of IIIC

The Board noted all the activities conducted/approved by the sub-committee and approved the minutes (Annexure–VIII) of the 18th meeting of the sub-committee of BOG for TEQIP.

**6.2.1. Financial Assistance to Dr.Gurumurthy Hegde:**

Dr.Gurumurthy Hegde, Associate Professor, BMS R&D Centre has been invited to deliver a Keynote speech in the 2nd International conference on Science, Technology and interdisciplinary research being organized by the University of Lampung, Indonesia at Bandar Lampung, Indonesia during August 22-25, 2016. The BOG perused the recommendations of the internal and external screening committees and accorded approval for sponsoring Dr.Gurumurthy Hegde's visit to Indonesia, by providing financial assistance of about Rs.42,000/- from the funds of Centre of Excellence under component 1.2.1 of TEQIP Phase-II.

...2)

**6.2.2. Proposal for implementation of reduction of grants under GIA by the DTE**

The Vice-Principal & TEQIP Coordinator-I informed the Board that the college received an amount of Rs.9.254 crores under TEQIP Phase-I during 2005 to 2009. All the participating institutions of TEQIP Phase-I have signed an MOU with the state government on 26th August 2005. As per the MOU, it has been agreed for the reduction of grant-in-aid from 85% to 50% over a period of 20 years @ 2.5% per annum commencing after the completion of moratorium period of five years. The DTE informed the college through the letter dated 21.6.2016 that the reduction of grant-in-aid shall commence during the current financial year. The Vice Principal informed the Board that the institution submitted a request to the DTE/SPFU to consider the amount released under TEQIP I as grant and not as loan.

The Board took a note of the same.

**6.2.3. Procurement of Solar PV Wind Hybrid with micro grid under TEQIP II**

The Board took a note of the approval accorded by the sub-committee *by circulation* for procurement of 'Solar PV Wind Hybrid with micro grid for R&D activities of Department of Electrical & Electronics Engineering' at an estimated price of Rs.16 lakhs and accorded approval for the said procurement.

MEMBER-SECRETARY

Annexure-2

---------- Forwarded message ----------
From: **National Project Implementation Unit** <teqip.npiu@gmail.com>
Date: Wed, Oct 26, 2016 at 11:39 AM
Subject: TEQIP – II - Extension till 31st March 2017
To: drkmbabu@bmsce.ac.in, Mallikharjuna Babu Kayala <drkmbabu@gmail.com>, viceprincipal@bmsce.ac.in, Ravikumar L <ravibmsce@yahoo.com>, ravi.mech@bmsce.ac.in,

Dear All,

This is to inform you that the Project, TEQIP – II has been extended till 31st March 2017. The activities may be planned accordingly.

Regards

**(Dr. Rita Goyal)**
**Sr. 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
Web : www.npiu.nic.in

Annexure - 3

From: **National Project Implementation Unit** <teqip.npiu@gmail.com>
Date: Thu, Nov 3, 2016 at 2:21 PM

Subject: Fwd: TEQIP-II – Completion date of Procurement activities under TEQIP-II reg.....

To: drkmbabu@bmsce.ac.in, Mallikharjuna Babu Kayala <drkmbabu@gmail.com>, viceprincipal@bmsce.ac.in, Ravikumar L ravibmsce@yahoo.com>, ravi.mech@bmsce.ac.in,

Sir,

As you all are aware that TEQIP- II project got extended till 31st March, 2017.

In this connection, it is to inform that the procurement completion date has been extended to **31st January, 2017** by competent authority.

The procurement activities should be completed latest by **31st January, 2017** and are to be carried out through PMSS only. The procurement data as entered in the PMSS should tally with the financial figures of procurement reported into the FMR (Financial Management Report). In case of any variation, reasons may kindly be stated.

The necessary guidelines on procurement activities are already updated/uploaded & available at PMSS website/NPIU website. All SPFUs & Project Institutions are requested to kindly adhere the above time lines and ensure strict compliance on completion of entire procurement activities within the stipulated deadline period i.e. **31st January, 2017.**

It is also requested to all SPFUs & Project Institutions to ensure that the expenditure on procurement of Goods & Civil Works should not exceed than the maximum percentage allowed for procurement activities as mentioned in the PIP.

With regards,

Yours faithfully,

**(Rupali Jha)**

**Associate Consultant**

**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
Web: www.npiu.nic.in

---------- Forwarded message ----------
From: **Dharmaprakash M.S** <msdharmaprakash@gmail.com>
Date: Fri, Jul 29, 2016 at 6:00 PM
Subject: Fwd: TEQIP II – Extension of Period of Procurement activities under TEQIP-II reg.....

---------- Forwarded message ----------
From: **spfu karnataka** <spfukarnataka@gmail.com>
Date: Fri, Jul 29, 2016 at 4:48 PM
Subject: Fwd: TEQIP II – Extension of Period of Procurement activities under TEQIP-II reg.....

From: **National Project Implementation Unit** <npiuwb@hotmail.com>
Date: Fri, Jul 29, 2016 at 4:33 PM
Subject: TEQIP II – Extension of Period of Procurement activities under TEQIP-II reg.....
To: **spfu karnataka** <spfukarnataka@gmail.com>

No.Proc./TQII/SPFU/2016/ 29th July, 2016

To,
All Project Institutions & SPFUs
Sub: TEQIP II – Extension of Period of Procurement activities under TEQIP-II reg.....

Sir,
This is in continuation to this office letter dated 30th June, 2016 regarding completion of procurement activities under this project.

In this connection, it is to inform that the procurement completion date has been extended up to 30th September, 2016 by competent authority, on the request of various institutions and recommendation of the SPFUs.

The procurement activities should be completed upto final payment and are to be carried out through PMSS only. The procurement data as entered in the PMSS should tally with the financial figures reported into the FMR (Financial Management Report). In case of any variation, reasons may kindly be stated.

The necessary guidelines on procurement activities are already updated/uploaded & available at PMSS website/NPIU website. All SPFUs & Project Institutions are requested to kindly adhere the above time lines and ensure strict compliance on completion of entire procurement activities within the stipulated deadline period i.e 30th September, 2016.

It is also requested to all SPFUs & Project Institutions to ensure that the expenditure on procurement of Goods & Civil Works should not exceed than the maximum percentage allowed for procurement activities as mentioned in the PIP.

With regards
Yours faithfully,
(Rupali Jha) Associate Consultant
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,Web : www.npiu.nic.in

Annexure-3

--------- Forwarded message ----------
From: **N P I U** <npiuqt@yahoo.co.in>
Date: Wed, Jun 29, 2016 at 5:41 PM
Subject: TEQIP II - Extension of Period of Procurement activities under TEQIP-II reg.
To: atul_verma1234@rediffmail.com, drpranayjain@gmail.com, kashyapdubey@yahoo.com, irrana2000@yahoo.co.in, nagraj-ssamandi@rediffmail.com, spfu_jharkhand123@yahoo.com, vsrathore@bitmesra.ac.in, skp737@sify.com, raghu.spfu@hotmail.com, jangam@rocketmail.com, msdharmaprakash@gmail.com, tqnodproc@bvb.edu, siddaraju_b@yahoo.co.in, kiran_kumarbv@yahoo.com, hodmech@pdaengg.com, nsj@mcehassan.ac.in, yagprash@hotmail.com, kumar_nie@yahoo.co.in, hmrgama@india.com, yogeshhedge@yahoo.com, a.vinay@pes.edu, principal@rvce.edu.in, eashan123@gmail.com, sksittum@yahoo.com, sjceteqip2pmss@gmail.com, trcshekar_ssit@rediffmail.com, thrivenjigowda@yahoo.co.in, santhi41@gmail.com, ceadoorpc@gmail.com, manilaldl@gmail.com, manojray@yahoo.com, satheeshmarnadian@yahoo.com, shyleshpayyanur@gmail.com, sudheeshhari@yahoo.co.in, sajijustus@gmail.com, dayathanal@gmail.com, shahinmtly@gmail.com, balujohn@gmail.com, sangeethajosem@gmail.com, ikbiju@gmail.com, kvm.kumar@yahoo.com, vipinatgec@gmail.com, pc@gecwyd.ac.in, shreelekshmir@gmail.com, aaskk20@yahoo.com, nnamboothiri@rediffmail.com, reebukoshy@yahoo.com, asttdir@spfump.com, wadhwani_arun@rediffmail.com, aseemctiwari@yahoo.com, procurement_teqip@sirtbhopal.ac.in, addatar@yahoo.com, drmishra@sgsits.ac.in, maharashtra.spfu.procurement@gmail.com, mrgidde@bvucoep.edu.in

No.
II/SPFU/2016/
29th June, 2016

P/TQ

To,

All Project Institutions & SPFUs

**Sub: TEQIP II – Extension of Period of Procurement activities under TEQIP-II reg...**

Sir,
This is in continuation to this office letter dated 29th April, 2016 regarding completion of procurement activities under this project. In this connection, it is to inform that the procurement completion date has been extended up to **31st July 2016** by competent authority, on the request of various institutions and recommendation of the SPFUs.

The procurement activities are to be carried out through PMSS only (the necessary guidelines on procurement activities are already updated/uploaded & available at PMSS website/NPIU website).

All Project Institutions are requested to kindly adhere the above time lines and ensure strict compliance on completion of entire procurement activities within the stipulated deadline period (31st July 2016).

Yours faithfully,

(Rajiv K. Mishra)
Consultant
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
Web : www.npiu.nic.in

Annex 4 (1)

# PERFORMANCE AUDIT FORMS (FINAL ROUND under TEQIP-II)

## INSTITUTIONALPERFORMANCE PROFILE

NAME OF PERFORMANCE AUDITOR: **Prof. J. Srihari Rao**

DATES OF PERFORMANCE AUDIT: 22-24, August 2016

NAME OF INSTITUTION WITH LOCATION: BMS College of Engineering, Bull Temple Rd, Bangalore 560019

| PIP REF | INSTITUTIONAL PERFORMANCE PROFILE | OVERALL EVALUATION GRADES |
|---|---|---|
| | COMPONENT 1: IMPROVING THE QUALITY OF EDUCATION IN SELECTED INSTITUTIONS | |
| 1.1 | STRENGTHENING INSTITUTIONS TO IMPROVE LEARNING OUTCOMES AND EMPLOYABILITY OF GRADUATES | 1(one) |
| 1.2 | SCALING-UP POSTGRADUATE EDUCATION AND DEMAND-DRIVEN RESEARCH AND DEVELOPMENT AND INNOVATION | 1(one) |
| 1.2.1 | ESTABLISHING CENTRES OF EXCELLENCE | 1(one) |
| 1.3 | FACULTY DEVELOPMENT FOR EFFECTIVE TEACHING (PEDAGOGICAL TRAINING) | 1(one) |
| | COMPONENT 2: IMPROVING SYSTEM MANAGEMENT | |
| 2.1 | CAPACITY BUILDING TO STRENGTHEN MANAGEMENT | 1(one) |
| 2.1.1 | IMPLEMENTATION OF GOOD GOVERNANCE | 1(one) |
| 2.2 | PROJECT MANAGEMENT, MONITORING AND EVALUATION | 1(one) |

| | INSTITUTIONAL PERFORMANCE PROFILE GRADES AND GRADE DESCRIPTORS |
|---|---|
| 1. | Substantial evidence of good practice in the quality and standards achieved (Assessment identifies clear supporting evidence for at least 75% of the relevant practices.) |
| 2. | Some evidence of good practice in the quality and standards achieved (Assessment identifies clear supporting evidence for at least 50% of the relevant practices.) |
| 3. | Not in place(there may be one of the three primary reasons for this: a) no evidence can be found, b) there is evidence, but it is not of acceptable quality, or c) that there are plans for development but these have not yet taken place – in which case the auditor can indicate the expected date of completion/implementation but the grade should remain 3.) |

NOTE: Supporting evidence: The grade descriptors have two elements: one relating to the amount of the evidence (none, some or substantial); and one relating to the quality of the practice about which the evidence is gathered (is it good quality, or not?). So, for example, a grade of 1 means both that the evidence is good quality and that there is a substantial amount to demonstrate that it is of good quality (75% or more for the practices found).

J Srihari

Annexure-4

# PERFORMANCE AUDIT FORM (1.1)

## COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

NAME OF PERFORMANCE AUDITOR: **Prof.J.Srihari Rao**

DATES OF PERFORMANCE AUDIT: 22-24, August 2016

NAME OF INSTITUTION WITH LOCATION: BMS College of Engineering, Bull Temple Rd, Bangalore 560019

### 1.1: STRENGTHENING INSTITUTIONS TO IMPROVE LEARNING OUTCOMES AND EMPLOYABILITY OF GRADUATES

| MONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS | SUPPORTING EVIDENCE (NOTED GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSALS/GOALS/OBJECTIVES) |
|---|---|
| **A. Effectiveness of funds utilized for the teaching, training, learning and research equipment, library, computers, etc. by Institutions, including:**<br>• Increase in the satisfaction index of student and faculty | Efforts were made to augment various resources for providing quality higher education. Addition of sophisticated equipment and important Learning Resources and Software has augmented various Laboratories.<br>The campus wide networking facility enabled the institution ubiquitous network connectivity through WIFI. The centralized data/computer centre has enhanced optimum utilization of the resources by the faculty and students thereby providing:<br>• Research facilities through high end work station<br>• Campus-wide access to online International journals<br>• Enabling the available Software through single source<br>• Anti-Virus & Email Spam Control using Symantec bright mail<br>• Hosting of college website & official mailing and messaging<br>• 24x7 Internet facility<br>• Intrusion Prevention through Firewalls & Virus wall<br>• Content filtering through Fortigate<br>• Internet and Intranet facility at hostels<br>Many new laboratories such as GIS Laboratory, Networking and Applications Laboratory, Vibration Measurement System Lab, Structural Loading Frame Facility etc were established and many more were strengthened. Implementation of TEQIP-II augmented the activities initiated during TEQIP-I resulted in<br>• Giving impetus to research activities by faculty and students.<br>• Increased professional publications<br>• Increased quality projects<br>• Improved Interface with Industry<br>• Participation of Staff and Students in Community service<br>• Supplemented the student's projects, research and developmental activity. |
| **B. Obtaining Academic Autonomy status, including:**<br>• **Number of institutions that have obtained *'Autonomous Institution status'* as per University Grants Commission process within 2 years of joining the Project, or** | Participation of the Institution in TEQIP Phase-I has paved for the Institution to become Autonomous institution at the end of Phase-I.<br>The UG Programs of the Institution became autonomous from the academic year 2008-09. |
| • Effectiveness of utilization of academic autonomy possessed/ obtained (*See Table-26 in PIP*) | Central facilities and departmental clusters were formed to ensure optimum utilization and devoid of duplication of resources in all the programme components of the project.<br>Implementation of Autonomy helped the institution in developing the curriculum by including the topics that are more relevant to the industry and also to implement alternate assessment methods for evaluation as part of the continuous internal evaluation. |

| | |
|---|---|
| **C. Effort made by Institutions for upgrading qualifications of faculty members, including:**<br>• Percentage of faculty enrolled in M Tech and PhD | The institution continued its efforts in upgrading qualifications of faculty that resulted in, all the faculty with minimum M. Tech. qualification.<br>Considerable improvement can be seen in the number of faculty with Ph. D. |
| **D. Existing teaching and staff vacancies and effort made by Institutions for filling the vacancies, including:**<br>• Percentage of faculty and staff positions filled and vacant | The institution has filled all the vacancies and is maintaining teacher student ratio of 1:14 |
| • Increase in faculty appointed on regular basis | All the faculty are appointed on regular basis |
| **E. Effectiveness of equity at Institutional level, including:**<br>• Transition rate of students from the First to the Second year in Undergraduate programmes | The transition rate from first year to second year without any failures, is improved from 71% to 75% |
| Evidence: Visits to the laboratories, interaction with students and faculty, data audit reports and the institutional response. | |
| **OVERALL EVALUATION GRADE FOR 1.1**<br>USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1) | **1(one)** |

J Sinha

608

# PERFORMANCE AUDIT FORM (1.2)

**COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS**

NAME OF PERFORMANCE AUDITOR: **Prof. J. Srihari Rao**

DATES OF PERFORMANCE AUDIT: **22-24, August 2016**

NAME OF INSTITUTION WITH LOCATION: **BMS College of Engineering, Bull Temple Rd, Bangalore 560019**

## 1.2: SCALING-UP POSTGRADUATE EDUCATION AND DEMAND-DRIVEN RESEARCH & DEVELOPMENT AND INNOVATION

| MONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS | SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS) |
|---|---|
| **A. Effectiveness of funds utilised for the teaching, training, learning and research equipment, library, computers, etc. by the institutions, including:**<br>▪ Increase in the satisfaction index of student and faculty | • New Equipment, Software, Workstations and Netbooks have been procured. **(Annexure I)**<br>• Thrust is given for procurement of equipment for PG Labs and R & D activities<br>• Out of seven new laboratories two are established during 2015-16,Other 5 were established earlier.<br>• 18 existing laboratories are modernized by the addition of new equipment<br>• ANSYS 16.2 Academic Multi Physics Campus Solution, LIBSYS Library Software and Turnitin Anti-plagiarism Software have been added to the Library,<br>• Campus license with unlimited number of users for MATLAB<br>• Modernized Audio Visual Classroom has been setup under QEEE.<br>• Significant number of in-house FDPs, Workshops and Seminars have been conducted<br>• Faculty members have been sponsored for participating in various academic programs.<br>• PG Students/Ph.D. scholars are encouraged to present research papers in conferences in addition to providing Assistantships<br>• Students and faculty members expressed satisfaction with facilities provided and the activities of TEQIP-II<br>Evidence: Personal interaction |
| **B. Effectiveness of scaling-up Postgraduate Technical Education, including:**<br>▪ Increased enrolment for M.Tech. and PhD | College offers 13 PG (M. Tech.) Programmes with an annual intake of 258 seats.<br>Admissions to these Programmes are through KEA-PGET based on either GATE scores or the rank obtained at the PGET conducted by the Govt. of Karnataka.<br>College has been attracting good number of (about 60%) GATE scholars and 91% of seats are filled-up in the current year.<br>210 scholars have registered for Ph.D. (Including 26 full time research scholars) during TEQIP-II. |
| ▪ Establishment of proposed laboratories | Seven new laboratories are established for PG programs |
| ▪ Cumulative number of assistantships granted | Teaching Assistantships are awarded to 310 non-Gate students under TEQIP II. |

08 81 16

**C. Progress/achievement in <u>starting new Postgraduate</u> programmes, including:**

- Securing AICTE approval

Five Post Graduate (M.Tech) Programmes have been started during the project period with the approval of AICTE enhancing the total intake by 114 seats (from 144 to 258). The details are provided hereunder:

| SNo | Name of the M.Tech. Program | Year of Commencement | Intake |
|---|---|---|---|
| 1 | Computer Network Engineering [IS] | 2011-12 | 18 |
| 2 | Bio-Chemical Engineering[CH] | 2013-14 | 24 |
| 3 | Bio-medical Signal processing & instrumentation [ML] | 2013-14 | 24 |
| 4 | VLSI & Embedded Systems [EC] | 2014-15 | 24 |
| 5 | Manufacturing Science & engineering [ME] | 2014-15 | 24 |

- Establishment of laboratories

Established 4 new laboratories for new PG Programmes, 3 new laboratories for existing PG Programmes and strengthened 18 existing laboratories as detailed in the **Annexure-II**

- Adequacy of student enrolments

Adequate number (234/258) of students are enrolled in the PG Programmes including those newly started.

| S.No. | Name of the new M. Tech. Program | Intake | Enrolment 2015-16 |
|---|---|---|---|
| 1 | Computer Network Engineering [IS] | 18 | 18 |
| 2 | Bio-Chemical Engineering [CH] | 24 | 11 |
| 3 | Bio-medical Signal processing & instrumentation [ML] | 24 | 18 |
| 4 | VLSI & Embedded Systems [EC] | 24 | 22 |
| 5 | Manufacturing Science & engineering [ME] | 24 | 23 |

**D. Effectiveness of collaborations made with other Institutions in India and abroad, including**

- Increase in number of co-authored publications in refereed journals

College has forged collaborations with institutions like Maastricht University, Netherlands, GENT University, Belgium, Entrepreneurship Development Institute [EDI], Allahabad and through Projects under Council of Scientific Research [CSIR]. Actively participating in Quality Enhancement in Engineering Education [QEEE], an MHRD initiative wherein live classes, Programmes on MOOCs are conducted by Professors from IITB, IITM, IITK and IITD. A report on QEEE activities is at **Annexure III**

**E. Increased collaboration with industry in research and development, including:**

- Increase in number of joint and industry sponsored research and development work undertaken

- Industry sponsored R&D projects are in vogue [ABB, Forus, Nanopix, DUCOM & NI] **Annexure-IV**
- Academic linkages (13) through MOUs have been executed for Joint Research and Development. Details are provided in **Annexure-V**

| 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|
| 02 | 02 | 02 | 05 | 02 |

- Increase in financial contribution by industry for R & D

Department of Medical Electronics has set up 'Digital X-Ray Machine facility' at a cost of Rs.6 lakhs sponsored by M/s. EHE Pvt. Ltd, Bangalore.

Department of ECE has established "Keysight-BMSCE Advanced Communication Lab" in collaboration with M/s. Keysight Technologies.

Department of TCE is working towards establishment of NI Lab with contribution from M/s National Instruments

- Increase in industry personnel registered for Masters and Doctoral programmes

PG Programmes in Power Electronics, Machine Design, Environmental Engineering have admitted students based on sponsorship from employers during the academic years 2013-14 and 2014-15 **[Annexure-VI]**

- Increase in industry personnel trained by the institution in knowledge and/or skill areas

The college has conducted a six weeks skill enhancement/training programme for the employees of SCANIA during 10th June 2013 to 2nd August 2013. The training featured lectures and hands on training sessions. It focused on aspects related to machine drawing, metrology, thermal and managerial aspects.

National/international conferences conducted by the college has resulted in presentation of research papers co-authored by the faculty with the industry personnel.

- Increase in the number of consultancy assignments secured

The number of consultancy assignments received by the college is as under

| Year | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|---|---|---|---|---|---|---|
| Number of consultancy assignments | 43 | 57 | 85 | 82 | 85 | 88 |
| Evidence: Audited statements dated 31 March 2015 | | | | | | |

- Increase in the number of students' and faculty visits to and/or training in industry

The details of industrial visits organised : **[Annexure-VII]**

| Period | 2010 | 2011 | 2012 | 2013-2014 | Sep 2014 to July 2016 |
|---|---|---|---|---|---|
| Number of industrial visits | 32 | 52 | 45 | 57 | 72 |

**34% of students have taken up Industrial internship**

- Improvements in graduate placement rate

Placement details

| | 2012 | 2013 | 2014 | 2015-16 |
|---|---|---|---|---|
| UG | 83% | 75% | 77% | 88% |
| PG | 48% | 38% | 44% | 58% |
| Evidence: MIS and Data Auditor's Report | | | | |

- Increase in involvement of industry experts in curricula & syllabi improvements, laboratory improvements, evaluation of students and delivering expert lectures

(i) Experts from Industries are inducted in the Board of Studies [BOS] of the departments and Academic Council [AC]. Meetings of BOS and Academic Council are held regularly to discuss the updating of curricula & Syllabi.

(ii) BOS &AC are constituted as per V T U regulations.

(iii) More than 300 guest lectures by industry experts have been organized.

(iv) On recommendations by the industry personnel [members of BOS & AC], the syllabus of the following courses have been updated.

| Name of the Department | Name of the course | Industry that recommended the course |
|---|---|---|
| Industrial Engineering & Management | Statistical Quality Control | SAP |
| Computer Science & Engineering | Building Enterprise Applications | Infosys |
| Electronics & Communications Engineering | Embedded System & Micro controllers | ARM |
| Mechanical Engineering | Mechatronics | BOSCH |
| Medical Electronics | Medtech Invention & Medical Device Development | InnAceel (2015) |

| | |
|---|---|
| | (v) Experts are drawn from the industry to evaluate the final year UG student projects, since 2014. Institute is adjudicating the best projects at both department and institute level and honoring the winners in collaboration with the industry. This is to be seen from the minutes of the BOG displayed on the college website.<br><br>(vi) College is conducting an annual Technical Symposium in collaboration with the personnel from the Industry. The event is named as PHASE SHIFT. The PHASE SHIFT has its focus on enhancing industry institution interaction, associating the industry personnel in the co-curricular activities of the institution. It 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. PHASE SHIFT 2016 is scheduled during September 23-25, 2016.<br>**[Annexure-VIII]**<br><br>The presentation by the TEQIP Coordinator included the outcomes of PHASE SHIFT 2014 & 2015 i.e., the enhanced industry-institute interaction by active participation of all the stakeholders, creating a stage for show-casing the students' talent by various technical competitions, organizing talks by eminent resource persons focused on the necessity of innovation in the technical field. |
| • Increase in the number of sandwich programmes between industries and the institution. | ○ Year 2011-12- ZTE, Robert Bosch, NI(Total 3)<br>○ Year 2012-13- ZTE, Robert Bosch, NI, BSNL, Infosys & EMC² (Total 6)<br>○ Year 2013-14- ZTE, Robert Bosch, NI, Infosys, EMC², SAP (Total 6)<br>○ Industry driven Institutional electives are being offered since 2014. |
| F. Increase in percentage of revenue from externally funded research and development projects and consultancies as a percentage of the total revenue of the institution from all sources | The details of percentage of revenue from externally funded R&D projects & Consultancies as a percentage of total revenue of the institution are as mentioned below : |

| 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|---|---|---|---|---|
| 2% | 2% | 2% | 2.26 | 2.30 |

The external funded R& D projects' details are as mentioned below:

| Year | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|---|---|---|---|---|---|
| Amount received | Rs. 64 lakhs | Rs.35 lakhs | Rs.59 lakhs | Rs.96 lakhs | Rs.118 Lakhs |

The consultancy projects' details are as mentioned below:

| Year | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|---|---|---|---|---|---|
| Amount received | Rs.18 lakhs | Rs.63 lakhs | Rs. 55 lakhs | Rs.41 lakhs | Rs.31 lakhs |
| Number | 57 | 85 | 83 | 85 | 88 |
| Evidence: Audited financial statements | | | | | |

<table>
<tr><td>G. Increase in the number of publications in refereed journals</td><td>The increase in the publications in refereed journals is noticed as mentioned below:<br><table><tr><td>Year</td><td>2011-12</td><td>2012-13</td><td>2013-14</td><td>2014-16</td></tr><tr><td>Publications in refereed journals</td><td>96</td><td>142</td><td>169</td><td>577</td></tr></table><br>Evidence: TEQIP Records and Interaction</td></tr>
<tr><td>H. Increase in the number of patents filed</td><td>Total Number of Patents obtained by faculty is 12<br>Total Number of Patents filed so far is 49. [Annexure- IX]</td></tr>
<tr><td colspan="2">OVERALL EVALUATION GRADE FOR 1.2<br>USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)</td><td>1(one)</td></tr>
</table>

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ANNEX 4 (1.2.1)

# PERFORMANCE AUDIT FORM (1.2.1)

## COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

NAME OF PERFORMANCE AUDITOR: **Prof.J.Srihari Rao**

DATES OF PERFORMANCE AUDIT: 22-24, August 2016

NAME OF INSTITUTION WITH LOCATION: BMS College of Engineering, Bull Temple Rd, Bangalore 560019

### 1.2.1 ESTABLISHING CENTRES OF EXCELLENCE

| MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS | SUPPORTING EVIDENCE (NOTE: GRADE MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTION AT DEVELOPMENT PROBLEM GOALS AND TARGETS) |
|---|---|
| **A. Establishing Centres of Excellence**<br>Improvement in Research and Development facilities through:<br>▪ Establishment of new laboratories for applicable thematic research | Four labs have been created under Centre of Excellence in Advanced Materials Research so far.<br>1. Polymer Composites Lab<br>2. Abrasive Water Jet Cutting Facility<br>3. Phase Change Memory (PCM) Materials Lab and<br>4. Scanning Electron Microscope (SEM) and X-Diffractometer (XRD)<br><br>Evidence: Physical visits |
| ▪ Establishment of a knowledge resource centre (library) in the thematic area | E-resources have been added by the college in the past two years in the thematic area. |
| ▪ Procurement of furniture | College has provided the required infrastructure from its own funds.<br><br>Evidence: Physical visits |
| ▪ Civil works | Building with requisite interiors for the aforesaid laboratories is provided by the college.<br><br>Evidence: Physical visits |
| **OVERALL EVALUATION GRADE FOR 1.2.1**<br>USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1) | **1(one)** |

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ANNEX 4 (1.3)

# PERFORMANCE AUDIT FORM (1.3)

**COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS**

NAME OF PERFORMANCE AUDITOR: Prof.J.Srihari Rao

DATES OF PERFORMANCE AUDIT: 22-24, August 2016

NAME OF INSTITUTION WITH LOCATION: BMS College of Engineering, Bull Temple Rd, Bangalore 560019

**1.3: FACULTY DEVELOPMENT FOR EFFECTIVE TEACHING (PEDAGOGICAL TRAINING)**

| MONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS | SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS) |
|---|---|
| **A. Effort made by Institutions providing Pedagogy Training to faculty, including:** | |
| • Percentage of faculty who have benefitted from the core and advanced modules of pedagogy training | The institution has been conducting training on pedagogy and orientation to the new faculty members to equip themselves for better performance.<br><br>From 2014 till date, 189 faculty members have undergone pedagogical trainings that include:<br><br>• Two weeks ISTE online Workshop on 'Pedagogy for Effective use of ICT in Engineering Education' conducted by IIT, Bombay during 12.06.14 and 02.08.14<br><br>• IUCEE-International Educators Training Programmes-since 2015 onwards<br><br>• Workshops on Outcomes based Education: Teaching, Learning and Evaluation by BMSCE-IQAC sponsored by NAAC<br><br>• FDP on "Essentials of Pedagogy" with the resource persons from NITTTR-Chennai during July 25-29, 2016<br><br>Details are provided at **Annexure- X** |
| • Improvements in (and/or updating, and more relevant) curricula and /or syllabi | Curricula /Syllabi are revised/updated regularly, meeting the current industry demands. Some changes in curriculum were made recently in the month of February 2016. |

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|---|---|---|
| • Improvements in (and/or updating, more relevant) course assessment methods | • Continuous monitoring & assessment of academic progression of a student is in vogue<br>• Continuous Internal Evaluation [CIE] through tests, quizzes and alternate assessment tools (seminars, assignments, mini projects, writing technical papers, etc.,)<br>• The Alternate Assessment Tool (AAT) was at 10% of internal assessments, and now is being increased to 20% of the internal assessment.<br>• Comprehensive course consisting of theory, lab component and self-study have been introduced. Students are encouraged to work on open ended experiments, mini projects.<br>• Process of evaluation of Semester End Examinations [SEE]<br>a) If number of scripts >20, valuation is done by the internal examiner & 30% of scripts are reviewed by the external examiner.<br>b) If number of scripts ≤20, double evaluation is done (internal and external valuers), average of the scores awarded is considered for award of final grade.<br>c) In case of double evaluation, if difference in marks is >15 marks, then the paper will go for third evaluation and the third valuation is by an external examiner. Once third valuation is over, average of closest two scores is considered for the award of final grade.<br>d) Usually, valuation process will get over within a week from the last day of the examination.<br>Evidence: Office records and Interactions with COE, faculty and students. | |
| • Improvements in teaching and learning methods, including provision for students needing extra/remedial support | Conduction of diagnostic tests for identifying weak students and conduction of remedial classes, proctoring, introduction of need based curriculum including integrated courses, mini projects, Enhanced industrial visits, usage of language labs, continuous internal evaluation of students through quizzes and tests, online courses in collaboration with IITs through QEEE, conduction of Fast track/supplementary semesters, conduction of pre-placement training etc., are in vogue. | |
| • Percentage of faculty with UG qualification registered/deputed for improving their qualification *(see Section-3, 4(b) on page 20 of PIP)* | All the six faculty members with UG qualification were supported to improve their qualification to PG during TEQIP period and currently all the engineering faculty members have the minimum qualification of PG (ME/M.Tech). | |
| • Percentage of faculty deputed for subject domain training, seminars, etc. *(faculty are required to share their gains with peers and put reports on training on institution's web site)* | Faculty members have been deputed for subject domain training, seminars, workshops, etc. Almost all the faculty members have undergone training or participated in Seminars, workshops in their respective domain. Details in the **Annexure XI** | |
| • Progress in securing accreditation of eligible UG & PG programs *(institutions to achieve target of 60% of eligible UG & PG programmes accredited – applied for within 2 years of joining the Project)* | Out of 12 UG Programmes 11 have been accredited by NBA under Tier-I Format of Washington Accord. Five programmes have been accredited for a period of 05 years and the rest for a period of 03 years. One programme viz., Electronics & Communication Engineering is under process.<br>Out of 13 PG (M. Tech.) Programmes, 9 programmes are eligible and college has applied for accreditation of these programs on 30.05.2016 under Tier-II format and other four programmes are newly started programmes after 2013.<br>BMSCE has also been accredited by National Assessment & Accreditation Council [NAAC] with CGPA of 3.41 on four point scale at 'A' grade valid upto January 04, 2018. **[Annexure XII]** | |
| **B. Effectiveness of Pedagogy Training, including** | | |
| • Percentage of students satisfied with the quality of teachers and changes/developments specifically undertaken as a result of student evaluations | Based on the student feedback, it is evident that the students are satisfied with the quality of teachers. A nominal number of faculty with low feedback are counseled by a committee and deputed for further training on pedagogy and are kept under observation. Subsequent feedbacks have shown improvement in the performance of such faculty. (Evidence: Institutional Response Form and personal interactions) | |
| | **OVERALL EVALUATION GRADE FOR 1.3**<br>USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1) | **1(one)** |



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# PERFORMANCE AUDIT FORM (2.1)

**COMPONENT 2: IMPROVING SYSTEM MANAGEMENT**

NAME OF PERFORMANCE AUDITOR: **Prof.J.Srihari Rao**

DATES OF PERFORMANCE AUDIT: 22-24, August 2016

NAME OF INSTITUTION WITH LOCATION: BMS College of Engineering, Bull Temple Rd, Bangalore 560019

## 2.1: CAPACITY BUILDING TO STRENGTHEN MANAGEMENT

| MONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS | SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS) |
|---|---|
| **A. Implementation of academic and non-academic reforms, including:** | |
| ▪ Improved understanding of the need and ways for increased autonomy, and new instruments for accountability | **Academic Autonomy – UG Programmes**<br>Academic autonomy has been awarded to the college by the Government/University for UG Programs from the academic year 2008-09 onwards. UGC vide its letter dated 09.3.2016 has granted extension of autonomous status for 2014-15 and 2015-16 academic years and UGC expert committee's visit is scheduled during August 26-27,2016 for continuation of autonomous status of the institution.<br><br>Institution has framed need-based curriculum from the inputs of industry representatives on the BOS & AC, keeping employability factor and also introduced new courses. Parts of these courses are also imparted by the experts from the industry.<br>**Academic Autonomy – PG Programmes**<br>The Academic Autonomy for PG Programmes is being implemented with effect from the academic year 2016-17.<br>Evidence: Institutional Response Form |
| ▪ Modernization and decentralisation of administration and financial management | Various department/section level Committees involving all stake holders in the decision making processes are formed.<br><br>The tuition and miscellaneous fee constitutes the major financial resource. Grants are also received from DST, AICTE, VTU towards R&D activities etc.<br>The Head of each program in consultation with the faculty and staff arrives at annual requirement of Department and submits the same to the Principal. The finance committee makes budgetary allocation to the department after a scrutiny of the proposals received. The Proposals with thrust on academic excellence, research and Development are favourably considered and encouraged. The recommendations of the finance committee are placed before BOG for its approval. The Finance Committee meets at least twice in a year and monitors the utilisation of the budget.<br>Four funds (Corpus Fund, Staff development fund, Maintenance Fund, Equipment replacement fund) are established to ensure financial sustainability. At present, the accounting system is semi-automated. Efforts are on to make the accounting system fully automated for better and effective control. |

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|---|---|
| ▪ Extent of delegation of administrative and financial decision making powers to senior functionaries | Departments are autonomous in terms of their academic functioning and have separate bodies to regulate their academic works. A GOOD GOVERNANCE DOCUMENT approved by the BOG is in place. The roles and responsibilities of the Chairman, Member-Secretary and other committee members are well-defined.<br><br>As documented in the GOOD GOVERNANCE DOCUMENT, in addition to the statutory committees like Finance committee, academic council; various other committees such as Library Committee, Hostel Committee, Building & Works committee, Sports & Cultural Committee, Departmental Procurement Committee, Departmental academic committee etc., are constituted with senior faculty members of the departments to facilitate smooth functioning and administration.<br><br>The HODs enjoy financial powers upto Rs.1 Lakh and the Principal upto Rs.25 Lakhs as evidenced in the minutes of the BOG. It is observed that the decentralization of powers and functioning exists to maximum possible extent through the appointment of Vice Principal, Dean (Academic), Dean (Student affairs), Dean (First Year), Dean (PG Studies) and Controller of Examinations. Majority of decisions are taken at the meetings of the HODs [College Council]/College Core Committee comprising of Principal, Vice-Principal and Deans. |
| ▪ Responsiveness to stakeholders (students, faculty, staff, industry, local communities) | Representatives of faculty and students participate in the proceedings of the BOG and academic council. Minutes of the meetings of BOG, AC are placed on the College website. Atleast 50% of the faculty members are involved in decision making process through various committees.<br><br>All the important decisions are being brought to the notice of the concerned through circulars, information booklet etc., in addition to maintaining the same on the college website (www.bmsce.ac.in).<br>o 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<br>o Grievance Redressal Committee [GRC] is constituted to redress the grievance of students and parents.<br>o Student Feedback Committee facilitates the evaluation of teachers' performance by students and on all aspects.<br>o The Institution provides financial incentives for the students who excelled in academics and those who are proficient in sports and represented the Institution at the National/State/University level.<br>o Best student projects are identified and the students felicitated on the occasion of Engineers Day.<br>o College offers support services for students and promotes student participation in organizational aspects of all academic, social, cultural, recreational and governance programs.<br>o Periodical Parent-Teacher Meetings are conducted.<br>o Faculty are involved in all the student activities.<br>o NCC, NSS units and various student clubs under the guidance of faculty are organising community service programmes like Blood Donation Camps, Swacha Bharath, Special Social Service Camps in a group of selected villages, training to school children in the schools adopted by the college, Awareness programmes and activities with NGOs. |

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|---|---|
| ▪ Institutional quality assurance and enhancement strategies, including student feedback mechanisms | • Proctor System: Each student is assigned to a faculty advisor (Proctor), who keeps track of academic progress of the students.<br>• Academic Progression of a student is continuously monitored and assessed<br>• Remedial measures are incorporated from time to time<br>• Internal quality assurance cell (IQAC), departmental academic committees(DAC) are working towards maintaining standards through periodical result analysis<br>• Views of student representatives are heard in BOG and academic council and discuss the same before arriving decisions on the concerned viewpoints. Minutes of these meetings are placed on the college website for information of the stake holders.<br>• Laboratories & Library are augmented and made available for the users (students/faculty) at extended hours.<br>• New faculty members are encouraged to pursue R&D activities by providing seed money.<br>• Institution has a strategic plan drawn for both long term and short term goals. Implementation of strategic plan is regularly monitored by BOG.<br>• Parent – proctor meetings are conducted at regular intervals.<br>• Evaluation of teachers through online student feedback, thrice in a semester is in place.<br>• Online student feedback on the course work, facilities of institution, academic activities is received once in a semester.<br>• Each department is mandated to conduct a minimum of 4 Industrial visits by students during a semester.<br>• Experts from industry are invited to deliver guest lectures.<br>• Personnel from industry are invited to be the members of BOS and academic council<br>• Faculty are collaborating with industry personnel for guiding the student projects and other R&D activities.<br>• College is offering industry driven institutional electives.<br>• Regular academic audits by both internal and external experts are in vogue<br>• Efforts are being made to incubate the ideas of students and develop products in collaboration with industry<br>• An Entrepreneur Development Cell (EDC) is working towards nurturing the idea of entrepreneurship among the students.<br>• Grievance Redressal Cell constituted deals with the redressal of grievances if any of students, parents and others in the college. |
| ▪ Maintenance of academic and non-academic infrastructure and facilities, including sufficiency and quality of academic buildings | ▪ All Major equipment and software are under AMC.<br>▪ The Data Centre monitors Campus Wide Networking in the college.<br>▪ Sufficient budgetary allocations are made by the Management for maintenance and upkeep of Physical infrastructure. The Building & Maintenance Section of the college oversees the requirements of all the stake holders and maintenance of all physical facilities. The Building & Works Committee monitors the activities/improvements related to the infrastructure facilities. |
| ▪ Development, maintain and utilisation of Institutional resources | ▪ Available space has been utilised optimally.<br>▪ Water and energy harvesting methods are in vogue<br>▪ Maintenance activities of the institution are being met out of the income generated by the institution |
| ▪ Generation, retention and utilization of Income Revenue Generation. | Tuition and miscellaneous fee constitutes the major financial resource. Grants are also received from DST, AICTE, VGST, KCST, VTU towards R&D activities etc. The details of External R&D grants received is at **Annexure-XIII**<br><br>CII TDB T NET Centre facilitates the consultancy activities. The consultancy amount is shared on 50:50 if the consultancy work is carried out inside the college and 70:30 if the consultancy work is carried outside the college. The audited financial statements for the year 2014-15 and 2015-16 are enclosed in **Annexure – XIV.**<br><br>The amount generated by way of conducting training programs, conferences etc., through FDPs is treated as IRG and has been credited to Staff Development fund. |
| | **OVERALL EVALUATION GRADE FOR 2.1** USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1) — **1(one)** |



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# PERFORMANCE AUDIT FORM (2.1.1)

## COMPONENT 2: IMPROVING SYSTEM MANAGEMENT

## 2.1: CAPACITY BUILDING TO STRENGTHEN MANAGEMENT (Continued)

### 2.1.1: IMPLEMENTATION OF GOOD GOVERNANCE

(See Also Annex 4 of the Good Governance Guide for Governing Bodies for examples of supporting evidence)

| MONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS | SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSALS GOALS AND TARGETS) | GRADE |
|---|---|---|
| **A. PRIMARY ACCOUNTABILITIES** | | |
| • **Has the Governing Body approved the institutional strategic vision, mission and plan – identifying a clear development path for the institution through its long-term business plans and annual budgets?** *(Give dates of governing body meetings where the minutes record these matters having been discussed, approved and/or followed up.)* | Yes, a Copy of the BMSCE Strategic Plan for the Period 2013-2020 is enclosed herewith. The Strategic Plan has been prepared with a clear objectives and strategies for long term and short term goals. The Management periodically reviews its implementation | |
| • **Has the Governing Body ensured the establishment and monitoring of proper, effective and efficient systems of control and accountability to ensure financial sustainability?** *(Give dates of governing body meetings where the minutes record these matters having been discussed, approved and/or followed up at the systems level.)* | Annual Budget: A proper system for the financial management and control by way of both internal and external audits is in place. Annual Budget is prepared by the Head of the Departments and Principal. The BOG approves the annual institutional budget. Four funds (Corpus Fund, Staff development fund, Maintenance Fund, Equipment replacement fund) are established to ensure financial sustainability.<br><br>Evidence:<br>The Annual budget for the financial year 2016-17 is approved by BOG in its 62nd meeting held on 31.3.2016.<br>Major amount of four funds are kept as Fixed deposits and is noted as per the Fixed deposit receipts produced during the audit. | |
| • **Is the Governing Body monitoring institutional performance and quality assurance arrangements?** *(Give dates of governing body meetings where the minutes record these matters having been discussed, approved and/or followed up at the systems level.)* | • Transparency in Governance is practiced by way of publicising minutes of meeting of the statutory committees like BOG, AC etc., on the college website.<br>• Active participation of all the stake holders in arriving at decisions is seen.<br>• The BOG has approved the strategic plan, vision and mission, short term and long term goals and budget based on the strategic plan.<br>• The BOG has adopted a well-knit review system to assess the performance of the Principal, faculty and staff. The annual report presented by the Principal is discussed in the BOG meeting.<br>• The input quality is measured in terms of CET/COMEDK Ranks etc. and the output in terms of placement, results etc., is evaluated by the BOG in its meetings. | |

| | | |
|---|---|---|
| | • The feedback on whether the institution is achieving the intended outcome in comparison with its strategic plan is also seen as one of the parameters of evaluation.<br><br>Evidence:<br><br>The BOG in its meeting held on 20.11.14 reviewed the accreditation status (NAAC and NBA).<br>The BOG in its meeting held on 15.7.13 introduced performance based incentive scheme for research in order to enhance research outcomes.<br>The BOG started inviting student & staff representatives to its meetings with effect from 21.11.13 for hearing their views on various academic and administrative matters. | |
| • **Has the Governing Body put in place suitable arrangements for monitoring the head of the institution's performance?**<br>*(Give dates of governing body meetings where the minutes record these matters having been discussed, approved and/or followed up.)* | Duties and Responsibilities of Principal are clearly defined and approved by the BOG in its meeting held on 16.3.12.<br><br>A system to review the performance of Head of the Institution is in place. An online feedback from the faculty on the performance of the head of the institution is registered and the same is reviewed by the Chairman BOG every year. The Chairman-BOG also reviews the annual performance report of the Principal.<br><br>The Principal presents periodical reports on the institutional activities to the BOG. The Principal also provides periodical report on the extent of compliance to the strategic plan. | |
| | **EVALUATION GRADE FOR PRIMARY ACCOUNTABILITIES**<br>USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1) FOR ALL GOVERNNANCE SECTIONS | 1(one) |

| **B. OPENNESS & TRANSPARANCY IN THE OPERATION OF GOVERNING BODIES** | | **GRADE** |
|---|---|---|
| • **Does the Governing Body publish an annual report on institutional performance?**<br>*(Give the publication date and type of publication of the most recent annual report, if there is one)* | Annual report is presented and discussed in the BOG. The same is published in the College website.<br><br>Evidence: The list of important academic/other activities of the college are noted by the BOG in almost all of its meetings and the latest meeting was held on 4.8.2016.<br><br>The BOG meeting minutes are published on the College. website www.bmsce.ac.in | |
| • **Does the Governing Body maintain, and publicly disclose, a register of interests of members of its governing body?**<br>*(Given that a formal register is not yet normal practice in colleges, provide evidence of any published information on governing body members' financial and commercial interests)* | BMSCE being an aided institution is an Autonomous institution under VTU adhering to the norms of UGC/AICTE/VTU/DTE as is the case. The BOG composition is as per UGC guidelines. Process of collecting register of interests of BOG members is currently under process. | |

| | | |
|---|---|---|
| ▪ **Is the Governing Body conducted in an open a manner, and does it provide as much information as possible to students, faculty, the general public and potential employers on all aspects of institutional activity related to academic performance, finance and management?**<br>*(Say whether the governing minutes are published on the institution website, and note any other steps that the governing body takes to communicate with its stakeholders on its work as a Board)* | Meetings of BOG are held in a transparent manner. Representatives of Faculty and students are invited to participate in the proceedings of the BOG. The minutes of the meetings are published in the College website (www.bmsce.ac.in).<br>The relevant information is shared with HODs, faculty and staff through various meetings/circulars. | |
| **C. KEY ATTRIBUTES OF GOVERNING BODIES** | **GRADE FOR OPENNESS & TRANSPARENCY IN THE OPERATION OF GOVERNING BODIES** | **1(one)** |
| ▪ **Are the size, skills, competences and experiences of the Governing Body, such that it is able to carry out its primary accountabilities effectively and efficiently, and ensure the confidence of its stakeholders and constituents?**<br>*(Specify the range of skills and experience that the members of the governing body, and especially the external members, have)* | The BOG of BMSCE has been constituted as per the UGC guidelines (UGC XI Plan). The BOG consists of independent representatives from State Government, UGC, University & Industry, two senior faculty members of the institute in addition to three members from the Trust. BOG interacts with student and faculty representatives during board meetings. | **GRADE** |
| ▪ **Are the recruitment processes and procedures for governing body members rigorous and transparent?**<br>*(Specify how governing body members are selected, and whether that process is transparent)* | The BOG is constituted as per UGC guidelines. The Management nominees are decided by the Council of Trustees, BMSET | |
| ▪ **Does the Governing Body have actively involved independent members and is the institution free from direct political interference to ensure academic freedom and focus on long term educational objectives?**<br>*(Give examples, where possible, of the role of external members in improving the performance of the institution)* | The BOG comprises of members with strong academic background and administrative experience. This has vastly contributed to the success of the Institution. The BOG is free from any political interference.<br>The Academic Council, the highest academic body is responsible for setting academic standards, policies and procedures. | |
| ▪ **Are the role and responsibilities of the Chair of the institution and the Member Secretary serving the governing body clearly stated?**<br>*(If yes, specify the document where these roles are defined)* | The role and responsibilities of the Head of the institution, who is also serving as the secretary of the BOG are clearly defined. | |
| ▪ **Does the Governing Body meet regularly? Is there clear evidence that members of the governing body attend regularly and participate actively?**<br>(State the number of meetings in the last year, and the average number of those Board members present and those members absent at those meetings) | Yes. The BOG meets at regular intervals and the participation of the members is evident from minutes of the meetings. | |
| **D. EFFECTIVENESS AND PERFORMANCE REVIEW OF GOVERNING BODIES** | **GRADE FOR KEY ATTRIBUTES OF GOVERNING BODIES** | **1(one)** |
| ▪ **Does the Governing Body keep their effectiveness under regular review and in reviewing its performance, reflect on the performance of the institution as a whole in meeting its long-term strategic objectives and its short-term indicators of performance/success?**<br>*(If yes, give the date(s) of governing body meetings where the minutes show that such a review has been discussed)* | The Management monitors the strategic plan, both short term goals and long term goals, through periodical reviews (quarterly) of the implementation of strategic plan.<br>Evidence: The Strategic plan of BMSCE (2013-2020) was approved by the Council of Trustee in their meeting held on 04.04.13 and by the BOG in its meeting held on 15.07.13. The periodical reports on implementation of Strategic Plan (period from the previous meeting) are reviewed by BOG. | **GRADE** |

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| | | |
|---|---|---|
| • **Does the Governing Body ensure that new members are properly inducted, and existing members receive opportunities for further development as deemed necessary?**<br>*(If yes, give examples of how these two tasks are carried out)* | The BOG is constituted as per the guidelines of statutory and regulating Bodies. The existing members are continuously involved in the developmental activities, in various capacities such as Institutional Academic Auditors, Mentors/counseliors for faculty, Board of Appointments etc. | |
| | **GRADE FOR EFFECTIVENESS AND PERFORMANCE REVIEW OF GOVERNING BODIES** | **1(one)** |
| **E. REGULATORY COMPLIANCE** | | **GRADE** |
| • **Does the Governing ensure regulatory compliance* and, subject to this, take all final decisions on fundamental matters of the institution.**<br>*(If yes, give the date(s) of governing body meetings where the minutes show that regulatory compliance has been discussed)* | The BOG ensures compliance to various regulatory bodies like VTU, State Government, AICTE and COA on regular basis.<br>Evidence: The BOG in its meeting held on 2.9.15, 23.11.15, 31.3.16 and 4.8.16 reviewed the compliance /approvals accorded by the various regulatory bodies. | |
| • **Does the regulatory compliance include demonstrating compliance with the 'not-for-profit' purpose of education institutions?**<br>*(If yes, give evidence that the governing body has been directly involved)* | Institution collects the fee as prescribed by the Government/University.<br>Criteria for admissions are drawn by the Government of Karnataka.<br>Annual Budget of the institution demonstrates that the institution is not-for-profit. | |
| • **Has there been accreditation and/or external quality assurance by a national or professional body? If so, give name, current status of accreditation etc**<br>*(Provide lists of all courses which have already been accredited, all courses where an application has been made, and all courses where no such application has yet been made)* | BMSCE is accredited by National Assessment & Accreditation Council [NAAC] with CGPA of 3.41 on 4 point scale at 'A' grade valid upto January 04, 2018.<br>Out of 12 UG Programmes, five programmes have been accredited for a period of 05 years and six programmes for a period of 03 years. Institution has applied for accreditation of the lone UG programme left out, Electronics & Communication Engineering.<br>Out of 13 PG programmes, the college has applied for accreditation for 9 eligible PG programmes on 30.05.2016.<br>Evidence: Certificate of accreditation from NAAC, Letters of accreditation received from the NBA and the acknowledgement received by the college for applications submitted. | |
| | **GRADE FOR REGULATORY COMPLIANCE** | **1(one)** |
| | **OVERALL EVALUATION GRADE FOR GOVERNANCE 2.1.1 A-E**<br>USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1) | **1(one)** |

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# PERFORMANCE AUDIT FORM (2.2)

**COMPONENT 2: IMPROVING SYSTEM MANAGEMENT**

NAME OF PERFORMANCE AUDITOR: **Prof.J.Srihari Rao**

DATES OF PERFORMANCE AUDIT: 22-24, August 2016

NAME OF INSTITUTION WITH LOCATION: BMS College of Engineering, Bull Temple Rd, Bangalore 560019

## TABLE 2.2: PROJECT MANAGEMENT, MONITORING AND EVALUATION

| MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS | SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS) | GRADE |
|---|---|---|
| **A. Effectiveness of mentoring, reviews, surveys and audits conducted, including:**<br>▪ Increase in the achievement of the institutions goals and targets set out in the Institutional Development Proposal | Three mentoring sessions and two performance audits have been conducted so far. The institution has implemented the suggestions of mentor and auditor effectively as evidenced from the reports of mentor and previous audit.<br><br>The institution has achieved its targets set forth in its IDP. Based on its performance the institution is selected for grant of additional funds based on the revised IDP submitted by the college during May 2015. | 1(one) |
| **B. Effective project management and monitoring, including:**<br>▪ Precise and reliable information/ data through web based MIS available to stakeholders at all time. | The data updated by the college on the web based MIS is reliable as evidenced through the data audit reports. The information is available to the stakeholders. | 1(one) |
| **C. Effectiveness of faculty evaluation by students, including:**<br>▪ Percentage/ increase in percentage of faculty evaluated by students in one or more subjects<br>▪ Are results of evaluation properly used for teacher improvement?<br>**If yes, is the procedure adopted for teacher improvement including counseling appropriate and effective?** | College has been implementing an online feedback system for more than seven years. The system records the feedback of students on all the teachers and on all courses conducted, thrice in a semester. The faculty having below par rating (less than 60 percent) are being counselled by a committee constituted for the said purpose. The faculty are advised to improve their performance and further deputed for training Programmes to overcome the deficiencies. The feedback report for the Odd and Even Semesters of 2015-16 is provided at **Annexure-XV** | 1(one) |
| | **OVERALL EVALUATION GRADE FOR 2.2**<br>USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1) | 1(one) |

J Srihari

**ANNEX 4. (FEEDBACK)**
**PERFORMANCE AND DATA AUDIT FEED BACK**
**(Feedback to the Institution, state project facilitation units, the national project Implementation unit / and relevant Mentor)**

**Name of the Performance Auditor: Prof. J. SRIHARI RAO, Former Professor & Dean, NIT Warangal.**
**Dates of Performance Audit : 22-24, August, 2016.**

Name of the Institution with location: **B.M.S.COLLEGE OF ENGINEERING, BENGALURU – 560019, KARNATAKA**

Key points feedback by the Performance Auditor to the Institution at the end of the visit – against the seven aspects of evaluation

| | |
|---|---|
| 1.1 | **Strengthening Institutions to Improve learning outcomes and employability of graduates:**<br><br>The teaching-learning process has significantly improved by strengthening of lab facilities, training of faculty, technicians and procuring e-resources which in turn resulted in quality of student projects.<br>There is substantial improvement in the campus placements of graduate & post graduate students. |
| 1.2 | **Scaling-up postgraduate education and demand driven research and development and innovation :**<br><br>During the project 5 New P.G. Programs were started as committed in IDP, which resulted in increased Enrolment of students into M.Tech programs. Students expressed happiness at the financial assistance given under TEQIP.<br><br>Innovative R&D projects are being done by the M.Tech students resulting in increased no. of publications in reputed journals.<br><br>It is also notice that collaboration with industries has been significantly improved.<br><br>There is a substantial improvement in the enrolment of PhD scholars, due to the state of art equipment procured and installed through the TEQIP Grants.<br>Students expressed their happiness at the financial assistance given to attend conferences and present papers. It is hoped that this process will definitely lead to substantial increase in filing and obtaining of patents.<br>However, the college should also plan for continued assistantship to PhD students, after the TEQIP Project.<br><br>It is visible that confidence level in faculty has improved substantially and the same is noticed during the interaction. This is due to the support given by the institution for training and R & D Activity. It will have a direct impact on the overall growth of the institution.<br><br>The center of Excellence in 'Advanced Materials Research' has been established in Mechanical Engineering department. Equipment such as SEM, XRD Water jet cutting machine etc., were procured and the same being effectively utilized by faculty and students which resulted in an increased number of collaborative research publications.<br>This activity will definitely result in motivating other and establishment of COE in other departments through other funding agencies. |

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| 1.3 | **Faculty Development for effective teaching (Pedagogical training) :**<br><br>A Substantial number of faculty have attended training program in pedagogy and domain areas. The same has been noticed during the interaction. The faculty expressed their satisfaction about the quality of training obtained. This resulted in improving in Pedagogical skills. |
| 2.1 | **Capacity Building to strengthen Management :**<br><br>Most of the senior faculty attended management training programs at IIM & IITs resulting in an improvement in their managerial and administrative skills. |
| 2.1.1 | **Implementation of Good Governance :**<br><br>It is noticed that there is a decentralization of authority and responsibility at various levels. The college is practicing the good governance. A Document pertaining to the Good governance has been published.<br>There is transparency in the total process. It is quite impressive. |
| 2.2 | **Project Management , Monitoring and evaluation :**<br><br>Apart from TEQIP team, HODs and a good no. of faculty participated enthuslastically, resulted in the successful implementation of the project and achieving the project goals & objectives.<br>Data collection and documentation has been done effectively through MIS |

Key improvements noticed on shortcomings reported during earlier Performance Audits

The results are being announced within 15 days. The institute is now conducting CEPs very frequently for the industry persons and others. There is significant improvement in Institution -Industry interactions.

Brief statements on continuing shortcomings, and reasons

**There are no major shortcomings except a little space constraint that is being addressed.**

Interacted with the Chairman-BOG and Sri. K. Srinath, State Project officer (M & E), SPFU.
The BOG shall continue the good practices and ensure sustenance of achievements by allocating the required budget after the closure of the project.
On the whole, the performance of the college is quite impressive. The impact of the project is quite visible under the guidance of the BOG and mentorship of Prof. B.S. Sonde.
Congratulations to the Principal and the entire TEQIP team.

J Srihari Rao

(J. SRIHARI RAO) 24/8/2016.

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

**ANNEXURE 5: INSTITUTIONAL RESPONSE FORM (1)**

| No. | Institutional monitoring and project output/outcome | INSTITUTIONAL RESPONSE |
|---|---|---|
| 1.1 | Briefly describe the actions taken for obtaining Autonomous Institution status, and the status of current application | The UG Programmes of BMSCE were awarded academic autonomy from the academic year 2008-09 onwards. UGC vide its letter dated 09.3.2016 has granted extension of autonomous status for 2014-15 and 2015-16 academic years.<br>The Academic Autonomy for PG Programmes shall be effective from 2016-17.<br>(Relevant orders/communications are enclosed herewith-**Annexure I**) |
| 1.2 | If your institution is already an Autonomous Institution, briefly state actions taken for the following: | |
| 1.2.1 | Value addition to courses as per market demand | Please refer to **Annexure-II** |
| 1.2.2 | Improvements introduced in student evaluation | a) The academic progression of a student is continuously monitored and assessed<br>b) Continuous Internal Evaluation [CIE] through tests, quizzes and alternate assessment tools (seminars, assignments, mini projects, writing technical papers, etc.,)<br>c) The Alternate Assessment Tool (AAT) was at 10% of internal assessments, and now it is increased to 20% of the internal assessment.<br>d) Introduction of Comprehensive course consisting of theory, lab component and self-study. (Students are encouraged to work on open ended experiments, mini projects).<br>e) Process of evaluation of Semester End Examinations [SEE]<br>(i) If number of scripts >20, valuation is done by the internal examiner & 30% of scripts are reviewed by the external examiner.<br>(ii) If number of scripts ≤20, double evaluation is done (internal and external valuers), average of the scores awarded is considered for award of final grade.<br>(iii) In case of double evaluation, if difference in marks is >15 marks then the paper will go for third evaluation and the third valuation is by an external examiner. Once third valuation is over, average of closest two scores is considered for the award of final grade.<br>(iv) Valuation process will get over within a week from the last day of the examination.<br>Academic council of the College amends the Academic Rules & Regulations time to time. |
| 1.2.3 | Addition of electives | Electives are being offered from 5th semester onwards in a three tier system, i.e., departmental electives, cluster electives and institutional (open) electives.<br>The details are shown at **Annexure-III** |



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| 1.2.4 | Carrying out teacher evaluation by students | The BMSCE has a well-established feedback system that is operative for last seven years with a software solution of M/s Sun-plus Solutions.<br>• The online feedback on all the teachers and on all courses conducted is captured thrice in a semester.<br>• The feedback on HODs and Principal is obtained from the faculty members once in a semester.<br>• The feedback on the institution is also obtained both from students and faculty once in every semester.<br>• The feedback from Alumni, Parents and Industries are obtained once in a year.<br>The faculty having below par rating (less than 60 percent) are being counselled by a committee constituted for the said purpose. The faculty are advised to improve their performance and further deputed for training Programmes to overcome the deficiencies. The feedback report for the Odd and Even Semesters of 2015-16 is provided at **Annexure-IV** |
| 1.2.5 | Starting of new postgraduate Programmes, as planned | A total of 05 PG (M.Tech) Programmes have been started during the project period with the approval of AICTE enhancing the total intake by **114 seats** (from 144 to 258). The details are provided hereunder:<br>**SNo** \| **Name of the M.Tech. Program** \| **Year of Commencement** \| **Intake**<br>1 \| Computer Network Engineering [IS] \| 2011-12 \| 18<br>2 \| Bio-Chemical Engineering[CH] \| 2013-14 \| 24<br>3 \| Bio-medical Signal processing & instrumentation [ML] \| 2013-14 \| 24<br>4 \| VLSI & Embedded Systems [EC] \| 2014-15 \| 24<br>5 \| Manufacturing Science & engineering [ME] \| 2014-15 \| 24<br>Copy of the AICTE Approvals are provided at **Annexure V** |
| 1.2.6 | For enhancing qualification, deputing to other institutions and/or admitting within the institution those teachers that have a Bachelor's degree only | Six graduates (branch toppers) of the college recruited as faculty were deputed to other institutions for completing their M.Tech. Degree.<br>From the academic year 2014-15 onwards, candidates with minimum qualification of Master's Degree are only considered for faculty positions and at present, there are no faculty with only bachelor's degree. |

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| 1.2.7 | Conducting continuing education and/or skill enhancement Programmes for industry | The department of Mechanical Engineering has conducted a six weeks skill enhancement/training programme for the employees of SCANIA during 10th June 2013 to 2nd August 2013. The training featured lectures and hands on training sessions. The training focused on aspects related to machine drawing, metrology, thermal and managerial aspects.<br><br>About eight national/international conferences conducted by various departments resulted in presentation of research papers co-authored by the faculty with the industry personnel. |
| 1.2.8 | Inviting experts from industry and eminent institutions for special lectures | The institution has been inviting experts and distinguished speakers from industry and academicians from premier institutions over the years as part of its extension lecture series Programmes. From the inception of the project, a total of 317 guest lectures have been organized. The details are shown at **Annexure-VI.**<br>From the academic year 2015-16 onwards, certain elective courses are offered jointly by the faculty and experts from industry. |
| 1.3 | The amount of financial powers assigned/delegated to the following. If no delegations has been done so far, state the proposed action for each level with the corresponding timeline: | The details are shown at **Annexure-VII** |
| 1.3.1 | Governing Body | Above Rs. 50Lakhs |
| 1.3.2 | Head of Institution for:<br>(a) single purchase of equipment and (b) recurrent expenditure | Above Rs. 1Lakh & below Rs.25 Lakhs |
| 1.3.3 | Dean | NA |
| 1.3.4 | Heads of Department | Upto Rs. 1 Lakh |
| 1.4 | Progress in starting new postgraduate programmes, as proposed | Achieved. Same as at 1.2.5. |



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| 1.5 | Actions taken to fill up seats in the existing postgraduate programmes | A total of 13 PG (M. Tech.) Programmes with an annual intake of 258 seats are currently being offered. Admissions to these Programmes are through KEA-PGET based on either GATE scores or the rank obtained at the PGET conducted by the Govt. of Karnataka. The College has been attracting good number of (about 60%) GATE scholars. Almost all the seats are being filled-up. The college has offered Teaching Assistantships to non-Gate students and fiscal incentives for project works, paper presentations under TEQIP. |
| 1.6 | Actions taken to reduce vacancies in faculty positions | Institution has been making continuous efforts to augment its faculty strength through regular recruitment. From March 2013 to till date, a total of 54 faculty members have been recruited to various regular faculty positions. The total faculty strength as on date is 314.<br><br>A few GIA positions are vacant and approval awaited filling. However, the college has recruited faculty members over and above the sanctioned posts in the management cadre and is maintaining a student ratio of 1:14. |
| 1.7 | Status of faculty appointed on regular basis, and proposed actions to fill up all faculty positions on regular basis | |
| 1.8 | Progress in getting pedagogical training in both the modules | The institution is conducting training regularly to the newly recruited faculty members on the pedagogy (basic module) to enable them to deliver technology based TLP for the benefit of students since years.<br>Departments are encouraged to organize Advanced Pedagogical Programmes at the college as well as depute faculty members to attend Programmes conducted by various institutions. In addition to the orientation & induction training programmes conducted in the college every year for the benefit of newly joined faculty, each of the faculty members is deputed to undergo training programmes in their chosen field, during the project period. Following are a few pedagogical Programmes conducted at the college and well received by the faculty:<br>(i) Two weeks ISTE online Workshop on 'Pedagogy for Effective use of ICT in Engineering Education' conducted by IIT, Bombay during 12.06.14 and 02.08.14<br>(ii) IUCEE-International Educators Training Programmes-since 2015 onwards<br>(iii) Workshops on Outcomes based Education: Teaching, Learning and Evaluation by BMSCE-IQAC sponsored by NAAC<br>(iv) FDP on "Essentials of Pedagogy" with the resource persons from NITTTR-Chennai during July 25-29, 2016<br>Details are provided at **Annexure- VIII.** |



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| 1.9 | New Activities (since project start or the last performance audit) undertaken for enhancing interaction with industry | The Industry Institution Interaction Cell [IIIC] is active and helped the departments in enhancing the interaction with experts from industry. Personnel from the industry are invited as members of the BOS, as Adjunct Faculty, to offer training during conduction of FDPs, to guide student projects, to offer industry driven elective courses, Incubating the innovative ideas in collaboration with industry etc.<br><br>Since 2010-11 till date, 41 MOUs have been signed with industries. **[Annexure-IX].**<br><br>Regular Industrial visits by students and faculty to the industry are in vogue.<br><br>**The BMSCE initiated an important activity under IIIC named PHASE SHIFT** – a two day technical event, encouraging the students and industry presenting/displaying the ongoing projects/ideas/products in the exhibition in the college, conduction of seminars/symposia/workshops by the experts from industry for the benefit of students. The students are encouraged to design and execute various programs during Phase shift. The events conducted during 2014 and 2015 are very well attended by the students of BMSCE and other institutions. Brief report and details are provided at **Annexure-X.**<br><br>The Phase shift for the year 2016 is scheduled during September 23-25, 2016. |
| 1.10 | Generation, retention and utilization of the non-tuition fee revenue generated through various activities | CII TDB T NET Centre facilitates the consultancy activities. The consultancy amount is shared on 50:50 if the consultancy work is carried out inside the college and 70:30 if the consultancy work is carried outside the college. The audited financial statements for the year 2014-15 and 2015-16 are enclosed in **Annexure – XI**<br><br>The amount generated by way of conducting training programs, conferences etc., through FDPs is treated as IRG and has been credited to Staff Development fund. |
| 2.1 | Progress in instituting practice of teacher evaluation by students | Details are provided above at 1.2.4 and in **Annexure-IV.** |
| 2.2 | Current percentage of teachers evaluated by students in one subjects taught | 100%.<br>(as provided at 1.2.4 and at **Annexure-IV**) |

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|---|---|---|
| 2.3 | Current percentage of teachers evaluated by students in more than one subjects taught | 100%<br>(as provided at 1.2.4 and at **Annexure-IV**) |
| 2.4 | State the incentives being offered to the faculty for participation in consultancy assignments, R&D, and continuing education programs conducted by the institution for industry | (i) Performance based incentives are offered for securing externally funded Research Projects<br>(ii) Faculty are facilitated by the management to participate and present research papers in two national conferences per year and one international conference abroad once in every three years.<br>(iii) Financial incentives are provided to publish research papers in peer reviewed national/international journals with impact factor above 0.6<br>Details provided at **Annexure XII** |
| 3.1 | Have the four funds been established? | Yes |
| 3.2 | If yes, what is the amount in each fund? | The amount in SB account and Fixed deposit are as below:<br>Corpus Fund-Rs. 1,33,08,773/-<br>Faculty Development Fund-Rs. 1,42,18,823/-<br>Equipment Replacement Fund-Rs. 1,31,92,310/-<br>Maintenance Fund-Rs.1,32,34,167 /-<br>Copy of FDs at **Annexure XIII** |
| 3.3 | Is the contribution to each fund as per the requirement in the PIP? (see Annex-I, item-4 on | YES, each fund is being contributed |
| 3.4 | State the quantum of financial powers delegated to: (a) Governing Body; (b) Head of Institution; (c) Deans, and (d) Heads of Departments | a) BOG- Above Rs.50.00 Lakhs<br>b) Head of the Institution- Above Rs.1 Lakh & below Rs.25 Lakh<br>c) HODs- Upto Rs. 1.00 Lakh |
| 3.5 | If less than those recommended in the PIP, state the reasons for the shortfall and actions planned to comply with the project recommendations. | NA |

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| 4.1 | Number of on-going sponsored projects from industry | 32 |
| 4.2 | Number of industry awarded consultancy assignments completed | 51 |
| 4.3 | Number of on-going industry awarded consultancy assignments | 30 |
| 4.4 | Number of organizations and industries with whom Memorandum Of Understanding have been signed for joint research and development. | The Total number of MOUs with industry is 41.<br><br>A total of 13 linkages through MOU have been executed for Joint Research and Development. Details are provided in **Annexure – XIV.**<br><br>2011 – 02<br>2012 – 02<br>2013 – 02<br>2014 – 05<br>2015 – 02 |
| 5.1 | List the undergraduate programmes accredited on date by name | Out of 12 UG Programmes 11 have been accredited by NBA under Tier-I Format of Washington Accord. Five programmes have been accredited for a period of 05 years and rest for the period of 03 years.<br><br>It may be noted that, BMSCE has also been Accredited by National Assessment & Accreditation Council [NAAC] with CGPA of 3.41 on four point scale at 'A' grade valid upto January 04, 2018.<br><br>The details of Accreditation for UG Programmes are shown at **Annexure-XV.** |
| 5.2 | State program-wise action taken to get accredited the eligible undergraduate programmes that are yet to be accredited | Out of 12 UG Programmes, 11 Programmes are accredited and one programme vis., Electronics & Communication Engineering is under process. |
| 5.3 | List the postgraduate Programmes accredited on date by name | The details are shown at **Annexure-V** |



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| 5.4 | State programme-wise action taken to get accredited the eligible postgraduate Programmes that are yet to be accreditation | Out of total 13 Programmes, applications have been submitted to accredit the 9 eligible Programmes. |
| 6.1 | Give the number of papers published in national refereed journals from the date of joining the Project | 61<br>[Details are placed at **Annexure- XVI**] |
| 6.2 | Give the number of papers published in Foreign refereed journals from the date of joining the Project | 577<br>[Details are placed at **Annexure- XVII**] |
| 6.3 | Number of patents filed since joining the Project<br>List the titles of patents filed since joining the Project along with names of contributors | 49<br>[The details are shown at **Annexure-XVIII**] |
| 6.4 | Number of patents obtained since joining the Project<br>List the titles of the patents obtained since joining the Project along with the names of contributors | 12<br>[The details are shown at **Annexure-XIX**] |
| 7.1 | Actions being taken for identifying weak students | (i) The feedback received from the companies visiting the campus offering internship/placement is considered for identifying the areas of weaknesses among the PG students.<br>(ii) All the students admitted to I year BE program are subjected to tests in English and Mathematics. The students performing below average mark are being judged as weak students.<br>(iii) Diagnostic tests are conducted to identify the weak students of both UG/PG students. |
| 7.2 | Number of students that have benefitted from remedial teaching since joining the Project/since the last performance audit | Remedial classes in Mathematics were conducted to make them ready to catch up with the regular classes. Separate English classes [both theory and language labs] are held.<br>Programs are conducted under EAP (Equity Assurance Plan of TEQIP-II) in the domain areas as well as in the life skills. A total of 878 students have been benefited from the remedial classes and fast track semester support since inception of the project. |

| | | |
|---|---|---|
| | | Details are at **Annexure- XX** |
| 7.3 | Number of students that have benefited from specialized soft skills and professional skills training Programmes conducted since joining the Project/ since the last performance audit | All the students are provided with training on specific Soft & Professional skills by experts drawn from reputed trainers through BMSCE Placement Cell. A total of 5090 student have benefited since the inception of the project. However, the expenses for the said trainings are met out of college funds.<br><br>Details are at **Annexure- XXI** |
| 7.4 | Status of establishment and functioning of remedial options and activities | Remedial soft skill trainings, Text/workbooks, free hardware and course specific software from the library are provided as a part of remedial options. |

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# INSTITUTIONAL RESPONSE FORMS (2)
## (Engineering disciplines)

## Table-1(a): CONSOLIDATED STATEMENT

| S.No. | | TEQIP (2010-11) | | | TEQIP (2015-16) | | |
|---|---|---|---|---|---|---|---|
| 1 | NO. OF DEPARTMENTS | 12 | | | 12 | | |
| 2 | LEVELS OF PROGRAMMES | B.TECH | M.TECH | PhD | B.TECH | M.TECH | PhD |
| | (Number of Programmes) | 12 | 08 | 07 | 12 | 13 | 13 |
| 3 | COLLABORATION WITH INDUSTRY (Number of MoUs SIGNED) | 09 | | | 41 | | |

## Table-1(b): DETAILS OF STUDENT ENROLMENT

| S.No. | NAME OF THE DEPARTMENT | | TEQIP (2010-11) | | | TEQIP (2015-16) | | | INCREASE IN PERCENTAGE |
|---|---|---|---|---|---|---|---|---|---|
| | | | B.TECH | M.TECH | PhD | B.TECH | M.TECH | PhD | |
| | | NO. OF FRESH STUDENTS ADMITTED IN THE INSTITUTE | 890 | 144 | 15 | 1141 | 234 | 58 | UG – 28%<br>PG – 63%<br>PHD – 287% |



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## Table 1(c): FACULTY DETAILS

| S.No. | NAME OF THE DEPARTMENT | | TEQIP (2010-11) | | | TEQIP (2015-16) | | | INCREASE IN PERCENTAGE | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | B.TECH | M.TECH | PhD | B.TECH | M.TECH | PhD | B.Tech, M.Tech, Ph.D. | |
| | 1 Civil Engineering<br>2 Mechanical Engineering,<br>3 Electrical & Electronics,<br>4 Electronics & Communication,<br>5 Industrial Engineering & Management,<br>6 Computer Science & Engineering,<br>7 Telecommunication Engineering,<br>8 Information Science & Engineering,<br>9 Electronics &Instrumentation Engineering,<br>10 Medical Electronics,<br>11 Chemical Engineering,<br>12 Biotechnology. | NO. OF FACULTY HAVING HIGHEST QUALIFICATION | | | | | | | | |
| 1 | | Regular | 06 | 152 | 47 | 0 | 174 | 140 | B.Tech to M.Tech: 100% and PhD: 53% | 314 |
| 2 | | Contractual | | | | | | | | |
| 3 | | Total | 06 | 152 | 47 | 0 | 174 | 140 | | 314 |

## Table 1(d): COLLABORATION WITH INDUSTRY

| S.No. | NAME OF THE DEPARTMENT/ Institute | NAME OF THE INDUSTRY WITH WHOM MOU SIGNED | | |
|---|---|---|---|---|
| | | TEQIP No. 09 (2010-11) | | TEQIP No. 41 (2015-16) |
| S.No. | NAME OF THE DEPARTMENT/ Institute | NAME OF THE INDUSTRY WITH WHOM MOU IS SIGNED TILL 2010-11 | NAME OF THE DEPARTMENT/ Institute | NAME OF THE INDUSTRY WITH WHOM MOU IS SIGNED FROM 2011-12 TO JULY 20 16 |
| 1 | BT | M/s Dakshab Biosciences Pvt. Ltd | EC | M/s Nihon Communication Solutions Pvt. Ltd |
| 2 | EC | M/s NXP Semiconductor Pvt. Ltd | EE & ME Cluster | M/s ROBERT BOSCH – |
| 3 | ML | Advanced Digital Imaging Solutions Laboratory | IM | M/s SAP Labs |
| 4 | IM | M/s Cranes Software International Ltd | EE | M/s Centum Electronics Ltd |
| 5 | TCE | M/s National Instruments [India] Pvt.Ltd | EE | M/s Cranes Software |
| 6 | TCE | M/s ZTE Telecom India Pvt.Ltd | ALL | M/s INFOSYS |
| 7 | TCE | M/s TEXAS Instruments | ALL | M/s TCS |
| 8 | ALL | M/s WIPRO Technologies | TCE | BSNL |
| 9 | BT | M/s Biocos Life Sciences Pvt.Ltd | CSE, ISE | M/s EMC$^2$ |
| 10 | | | TCE | M/s Tektronix |
| 11 | | | ECE | M/s ARM |
| 12 | | | ECE | M/s Chip Edge |
| 13 | | | ML, IT | M/s TMI Systems |

| | | | | |
|---|---|---|---|---|
| 14 | | | All | M/s Rao Advisors LLC |
| 15 | | | ECE, MEE | M/s Nasscom |
| 16 | | | EEE & CS Cluster | M/s Nanopix |
| 17 | | | ECE | M/s Novoton |
| 18 | | | CSE,ISE | M/s Novell Software Development(I) Pvt.Ltd. |
| 19 | | | CHE | M/s Yokogawa |
| 20 | | | ME | M/s Sical Abrasives |
| 21 | | | ME | M/s DUCOM Ltd |
| 22 | | | EC | M/s ABB GISL |
| 23 | | | BMSCE (RnD) | SAII USA |
| 24 | | | BMSCE (RnD) | NIPER |
| 25 | | | ML | M/s Vinyas Innovative Technologies Pvt Ltd |
| 26 | | | BMSCE (Placement) | HUAWEI |
| 27 | | | ML | BMSHT, Aventyn |
| 28 | | | CS,IS,ML | Ellipsonic PVt Ltd |
| 31 | | | BMSCE (Placement) | Juniper |
| 32 | | | BT | Cleanergis Biosciences Pvt. Ltd. |

# Table 2: SUMMARY SHEET FOR REVIEW

**Name of NPIU Official :**

**Name of Institute: BMS College of Engineering, Bangalore** **Sub-component:1.2**

**Category of Institute: GIA**

| | *Strategy*/Activities | Indicators | Institutional Baseline (Pre-TEQIP) in 2010-11 | Proposed Target for 2 years (31st Dec 2012) | | Proposed Budget Estimate | | Status due to input of TEQIP as on date of final round of performance auditing | | Outcome against Goals (TEQIP) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Physical (No.*/%age) | Institutional (No.*/%age) | TEQIP (No.*/%age) | Institutional (Rs.Lakh) | TEQIP (Rs.Lakh) | Physical(No.*/%age) | Financial (Rs. Lakh) | | |
| A.0 | Goal : Improve Quality of Education in Selected Institutions | | | | | | | | | | |
| A.1 | Student | | | | | | | | | | |
| A.1.1 | ***Improvement in Students Knowledge and Skills***<br>- Diagnostic test<br>- Remedial teaching<br>- E-enabled learning<br>- Research projects at UG levels<br>- Assistantships | **Percentage of female students against total engineering students in all years**<br>• Undergraduates<br>• Postgraduates | 26%<br>37% | 29%<br>30% | 29%<br>30% | NA<br>NA | NA<br>NA | 28%<br>33% | NA<br>NA | Achieved. [ 97% in UG and 110% in PG ] | |
| A.1.2 | | **Students transition rate (percentage) from first year to second year of UG programs (clearing all subjects/ courses of 1st year in first attempt)** | 67% | 69% | 69% | NA | NA | 63% | NA | | |
| A.1.3 | | **Average scores (%/ CGPA) at degree completion**<br>• Undergraduates<br>• Postgraduates | 80%<br>73% | 7.99 (CGPA)<br>73% | 7.99 (CGPA)<br>73% | NA | NA | 8.31 (CGPA)<br>74% | 3.05 | Achieved | **PG results of 2014-15 are given as 2015-16 PG results are awaited as viva is going on.** |
| A.1.4 | | No. of students enrolled in M.Tech programs | 144 | 182 | 182 | NA | NA | 234 | NA | Achieved | **Project Total : 995 AY 2015-16: 234** |
| A.1.5 | | No. of students registered in PhD programs in engineering | | 15 | 15 | NA | NA | 55 | NA | Achieved | **Project Total : 225 AY 2015-16: 55** |
| A.1.6 | | **No. of Masters students enrolled with TEQIP teaching assistantship** | 15 | 49 | 49 | NA | NA | 310 | 249.66 | Achieved | **Project Total :310 AY 2015-16: 115** |
| A.1.7 | | **No. of PhD students enrolled with TEQIP research assistantship** | - | 6 | 6 | NA | NA | 26 | 79.87 | Achieved | **Project Total :26 AY 2015-16: 26** |
| A.1.8 | | **No. of Research projects taken by UG students** | 24 | 23 | 23 | NA | NA | 161 | 21.74 | Achieved | **352 Students benefited** |

| | *Strategy*/Activities | Indicators | Institutional Baseline (Pre-TEQIP) in 2010-11 | Proposed Target for 2 years (31st Dec 2012) | | Proposed Budget Estimate | | Status due to input of TEQIP as on date of final round of performance auditing | | Outcome against Goals (TEQIP) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Physical (No.*/%age) | Institutional (No.*/%age) | TEQIP (No.*/%age) | Institutional (Rs.Lakh) | TEQIP (Rs.Lakh) | Physical(No.*/%age) | Financial (Rs. Lakh) | | |
| A.1.9 | | **Any other** | | | | | | | | | |
| A.2 | **Faculty** | | | | | | | | | | |
| A.2.1 | ***Capacity Development of Faculty***<br>- Recruitment of faculty<br>- Subject domain training<br>- Qualification upgradation<br>- Pedagogical Training<br>- E-enabled training<br>- Management development training<br>- Continuing Education Programme | **Percentage of faculty positions filled-in** (as per AICTE/MHRD required Teacher-Student ratio):<br>• Regular<br>• Regular + Contract | GIA-80%<br>Total-96% | GIA-80%<br>Total-98% | | NA | NA | Total-100% | NA | Achieved | |
| A.2.2 | | **Percentage of Faculty with BTech enrolled for MTech against total BTech faculty** | - | 27% | 27% | NA | NA | NA | NA | Achieved | **All the faculty members are with M.Tech or PhD** |
| A.2.3 | | **Percentage of Faculty with MTech enrolled for PhD in engineering against total MTech faculty** | 43% | 42% | 42% | NA | NA | 47.83% | 20.79 | Achieved | |
| A.2.4 | | **Percentage of regular faculty with Masters degree in engineering against total engineering faculty** | 95% | 95% | 95% | NA | NA | 100% | NA | Achieved | |
| A.2.5 | | **Percentage of regular faculty with PhD degree in engineering against total engineering faculty** | 23% | 24% | 24% | NA | NA | 45% | NA | Achieved | |
| A.2.6 | | **Number of faculty members attended training in subject domain** | 133 | 115 | 115 | NA | NA | 314 | 7.86 | Achieved | **All the faculty members have attended** |
| A.2.7 | | **Number of faculty members attended management development training** | 15 | 29 | 29 | NA | NA | 95 | 23.82 | Achieved | |
| A.2.8 | | **Number of faculty members attended pedagogical training** | 27 | 41 | 41 | NA | NA | 189 | 1.97 | Achieved | **All the faculty members have attended either TEQIP/Other agency supported Pedagogical training** |
| A.2.9 | | **Any other** | | | | | | | | | |

| A.3 | Institutional Reforms | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A.3.1 | *Set of Reforms*<br>- Academic reforms<br>- Non-academic reforms<br>- Enhance interaction with industry | **Percentage of NBA accredited UG & PG programs including Applied-For cases, against total eligible programs** | UG-75%<br>PG-25% | 100%<br>[All eligible programs applied for fresh/ renewal] | | NA | NA | 100% | 3.38 | Achieved | **All eligible programs are applied for and others are accredited.** |
| A.3.2 | | **Autonomous institution status concurred by UGC (Yes/No/Applied For)** | Yes | Yes | | NA | NA | Yes | 0.49 | Achieved | |
| A.3.3 | | **No. of academic programs i.e. MTech/PhD etc. with industry** | - | - | | NA | NA | 2 | NA | Achieved | |
| A.3.4 | | **No. of short term programs with industry** | | - | | NA | NA | 47 | 0.08 | Achieved | |
| A.3.5 | | **Academic networking with other institutions (No.)** | | | | NA | NA | 13 | 0.15 | Achieved | |
| A.3.6 | | **ICT (Information communication Technology) enabled learning (No. of programs/ courses)** | | In vogue | | NA | NA | 78<br>(Live courses and MOOCs under QEEE) | 70.36<br>(ICT Setup & Equipment) | Achieved | |
| A.3.7 | | **Curricula revised/restructured (No.)** | Syllabus revised periodically | - | | NA | NA | 39<br>(No. of BOS Meetings) | 3.45 | Achieved | |
| A.3.8 | | **Total IRG (in lakhs)** | 1474 | 1321<br>[Part of financial year 2012-13 up to Dec.12] | | NA | NA | | 6555 | Achieved | |
| A.3.9 | | **Percentage revenue from externally funded R&D projects and consultancies in total revenue** | 3% | 2% | | NA | NA | | 2.30% | Achieved | |
| A.3.10 | | **IRG as percentage of annual recurring expenditure** | 75% | 75% | | NA | NA | | 107% | Achieved | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A.3.11 | | **Any other** | | | | | | | | | |
| **B.0** | **Enhance Access to Knowledge resources** | | | | | | | | | | |
| B.1 | ***Improvement in Teaching, Training and Learning facilities***<br>- New PG programmes<br>- Updation of learning resources<br>- Equipment details<br>- Modernization of Labs and class rooms | **Laboratories:**<br>• New laboratory (Nos.) for new PG programs<br>• New laboratory (Nos.) for existing PG programs<br>• Existing laboratory (Nos.) modernized | -<br>1<br>8 | 1<br>3<br>15 | 1<br>3<br>15 | NA | 787.50 ( incl. Library & ICT) | 4<br>3<br>18 | 60.88<br>58.48<br>191.33 | Achieved | |
| B.2 | | **Library**<br>• Books (print) (Nos.)<br>• e-books (Nos.)<br>• Journals (print) (Nos.)<br>• e-journals (Nos.)<br>• Course specific software (Nos.) | 2926<br>1700<br>166<br>1240<br>190 | 5360<br>5100<br>308<br>16042<br>290 | 5360<br>5100<br>308<br>16042<br>290 | NA | NA | 6517<br>1700<br>179<br>8611<br>1974 | 159.89 | Achieved | **The Library has around 1.96 lakhs printed books.** |
| B.3 | | **Membership of online**<br>1. No. of journals<br>2. No. of consortium | 7 e-resources database | 17 e-resources database | 17 e-resources database | NA | NA | 7 e-resources database | College | Achieved | **Currently 7 e-resources are subscribed thru VTU as mandated.** |
| B.4 | | **No. of digitally/virtually accessible courses/subjects** | -- | -- | | | | 78 | College | Achieved | |
| B.5 | | **Any other** | | | | | | | | | |
| **C.0** | **Enhancement of Research and Development Activities** | | | | | | | | | | |
| C.1 | ***Promoting R&D culture in the Institution***<br>- Modern R&D equipment<br>- Conferences / Workshops organized<br>- Conferences / Workshops attended | **No. of research publications in engineering in refereed journals:**<br>• National journals<br>• International journals | 26<br>45 | 20<br>78 | 20<br>78 | | | 61<br>577 | 3.51 | Achieved | Details from the inception of the project |
| C.2 | | **No. of Books published** | 02 | 02 | | | | 17 | NA | Achieved | |
| C.3 | | **No. of Patents obtained/ filed** | 06 | 06 | | | | 61 | 0.56 | Achieved | Obtained: 12<br>Filed:49<br>Total:61 |
| C.4 | | **Any other** | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **D.0** | **Improve Employability of Graduates** | | | | | | | | | | |
| D.1 | ***Improving competencies of graduates***<br>- Industrial collaboration<br>- Finishing School<br>- Industrial training | **Campus placement percentage:**<br>• Undergraduates<br>• Postgraduates | 77%<br>18% | 82%<br>40% | | | | 88%<br>58% | 7.77 | Achieved | |
| D.2 | | **Average annual salary (Rs. Lakh) of:**<br>• Undergraduates<br>• Postgraduates | 3.8<br>3.5 | 4.0<br>4.0 | | | | | 4.50<br>4.50 | Achieved | |
| D.3 | | **Share of UG students attended industrial internship** (percentage) | 23% | 34% | | | | 30 | 0.46 | | |
| D.4 | | **Any other** | | | | | | | | | |

## Table-3: Institutional Project Budget [Sub component 1.2]

**TEQIP funds received** (Instalment) : 1st / 2nd / 3rd / 4th / 5th / 6th

| | | | | | |
|---|---|---|---|---|---|
| **1st Instalment** | : | Amount Rs. 2 | Crores | Date: | 24.09.2012 |
| **2nd Instalment** | : | Amount Rs. 5 | Crores | Date: | 11.03.2014 |
| **3rd Instalment** | : | Amount Rs. 2 | Crores | Date: | 15.12.2014 |
| **4th Instalment** | : | Amount Rs.2 | Crores | Date: | 05.05.2015 |
| **5th Instalment** | : | Amount Rs.1.5 | Crores | Date: | 28.10.2015 |
| **6th Instalment** | : | Amount Rs. 2 | Crores | Date: | 17.05.2016 |

**Total funds received: Rs. 15 Crores**

## Table-3: Institutional Project Budget [Sub component 1.2]

| Sl. No. | Activities | Project Life Allocation | Expenditure in Financial year | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 (as on final round of PA) |
| | | (Rupees in Lakhs) | | | | | | |
| 1 | Improvements for teaching, training and learning facilities through: | 787.50 | | | | | | |
| | Procurement of goods: | | | | | | | |
| | Equipment | | | | 89.38 | 215.26 | 97.24 | 9.13 |
| | Books & LRs & software | | | | 121.52 | 26.49 | 11.88 | |
| | a. Starting new PG programmes | | 0 | 0 | | | | |
| | b. Modernization and strengthening of laboratories* | | 0 | 0 | | | | |
| | c. Establishment of new laboratories for existing UG and PG programmes and for new PG programmes | | 0 | 0 | | | | |
| | d. Modernization of classrooms* | | 0 | 0 | | | | |
| | e. Updating of Learning Resources | | 0 | 0 | | | | |
| | f. Procurement of furniture | | 0 | 0 | | | | |
| | g. Establishment/Upgrading of Central and Departmental Computer Centers* | | 0 | 0 | | | | |
| | h. Modernization/improvements of supporting departments* | | 0 | 0 | | | | |
| | i. Modernization and strengthening of libraries and increasing access to knowledge resources | | 0 | 0 | | | | |
| | j. Minor Civil Works | | 0 | 0 | | | | |
| | Consultancy Services | | 0 | 0.12 | | | | |
| 2 | Providing Teaching and Research Assistantships to increase enrolment in existing and new PG programmes in Engineering disciplines | 403.43 | 0 | 9.94 | 85.43 | 152.76 | 22.85 | 58.56 |
| 3 | Enhancement of R&D and institutional consultancy activities | 89.56 | 0 | 0.16 | 5.02 | 25.50 | 29.63 | 5.78 |
| 4 | Faculty and Staff Development (including faculty qualification upgradation, pedagogical training, and organising/participation of faculty in workshops, seminars and conferences) for improved competence | 188.97 | 0 | 9.09 | 64.66 | 50.31 | 14.75 | 7.15 |
| 5 | Enhanced Interaction with Industry | 88.29 | 0 | 0.00 | 27.34 | 19.96 | 14.30 | 4.34 |
| 6 | Institutional Management Capacity enhancement | 34.35 | 0 | 0.00 | 17.62 | 2.38 | 3.97 | 0.00 |
| 7 | Implementation of institutional academic reforms | 24.37 | 0 | 0.00 | 0.12 | 6.86 | 4.12 | 1.72 |
| 8 | Academic support for weak students | 27.18 | 0 | 0.65 | 2.76 | 2.21 | 7.56 | 0.44 |
| 9 | Incremental Operating Cost | 122.23 | 0 | 3.33 | 22.57 | 48.53 | 23.12 | 3.77 |
| | **TOTAL** | **1765.88*** | **0** | **23.29** | **436.42** | **550.26** | **229.42** | **90.89** |

* Includes 5 Crores of additional grants & Revised Allocation

## Table-3: Institutional Project Budget [Sub-Component 1.2.1]

**COE-TEQIPII funds received** (Instalment) : 1st / 2nd
**1st Instalment** : Amount Rs. 3.333 Crores Date : 07.05.2014
**2nd Instalment** : Amount Rs. 1.666 Crores Date : 25.07.2016 Total funds received : Rs. 5 Crores

| Sl. No. | Activities | Project Life Allocation | Expenditure in Financial Year | | | | |
|---|---|---|---|---|---|---|---|
| | | | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 (as on final round of PA) |
| | | (Rupees in lakhs) | | | | | |
| 1 | Improvements for teaching, training and learning facilities through: | | | | | | |
| | Procurement of goods: | | | | | | |
| | Equipment | 275.00 | 0 | 0 | 132.18 | 163.77 | 14.26 |
| 2 | Provide Teaching and Research Assistantships for enrolment in Masters and Doctoral programmes in topics linked to economic or societal needs in the thematic areas | 50.00 | 0 | 0 | 6.80 | 12.78 | 23.66 |
| 3 | Collabration with industry for applicable research and product development | 25.00 | 0 | 0 | 0.22 | 0.73 | 1.19 |
| 4 | National / International collabration for Research and Development activities with Academic Institutions and R & D organisations | 50.00 | 0 | 3.94 | 0 | 1.96 | 0.36 |
| 5 | Enhancing research competence of faculty and knowledge sharing in thematic areas, both within India and abroad | 50.00 | 0 | 0 | 1.98 | 1.78 | 11.22 |
| 6 | Incremental operating cost | 50.00 | 0 | 2.21 | 10.12 | 14.79 | 4.08 |
| | **TOTAL** | 500.00 | 0 | 6.15 | 151.30 | 195.81 | 54.77 |

119 48

Date: 18, 19, and 20/08/2016

TO,
**State project coordinator / Officer on special duty**
**SPFU, Karnataka,**
**Office of the directorate of Technical Education,**
**4th floor, Palace Road, Bangalore -560001**

Dear Sir,

**Sub: Submission of Data Audit Report of TEQIP Phase –II in respect of B M S College of Engineering, Bangalore -560019**

With reference to the above cited subject, data audit of TEQIP phase-II in respect of BMS College of Engineering, Bangalore -560019 (2014-15,2015-16 and review of previous years audit) was arranged on 18th to 20th of August 2016. The data audit reports of respective academic years along with the review report are enclosed herewith for your kind consideration.

Thanking you

(B M Rudresh)
Data Auditor
BMS College of Engineering
TEQIP Phase –II (2011-12, 2012-13, 2013-14, 2014-15, 2015-16)
Bangalore -560019

Date: 18, 19, and 20/08/2016

TO,
**State project coordinator / Officer on special duty**
**SPFU, Karnataka,**
**Office of the directorate of Technical Education,**
**4th floor, Palace Road, Bangalore -560001**

Dear Sir,

## Subject: Comments on the data audit

The data audit visit of BMS College of Engineering was arranged on 18th to 20th of august 2016. During the data audit following are the observations made:

1. The data inputted to the MIS was exactly matching with the institutional data source.
2. There was a problem in MIS in few fields, even though the data were feeding properly; the output was not matching with the actual data.
3. The records were maintained and submitted in a satisfactory way
4. The utilization of the funds for the enhancement of the faculty was properly done
5. The effect of TEQIP was reflecting in the transition scale of the students to the next years with more than 75% and or more aggregate marks
6. The encouragement of the students to enhance their personality was really good
7. The faculty members were benefitted through research, paper presentation and publications through TEQIP was appreciable.
8. **Centre of excellence in advanced materials research** has setup the separate cell as advance material research centre preferably for the advancement of material technology.
9. Lot of progress has been done through COE for the benefit of in- house and also neighbouring institution faculties of local and also interstate and students who were in search of these technological facilities.
10. Lot more research and faculty development programmes had been organized through COE, Departmental as well as through the institution.

**The utilization of the TEQIP fund as per the records and the transactions were satisfactory.**

Thanking you

(B M Rudresh)
Data Auditor
BMS College of Engineering
TEQIP Phase –II (2011-12, 2012-13, 2013-14, 2014-15 and 2015-16)
Bangalore -560019

Date: 18, 19, and 20/08/2016

TO,
**State project coordinator / Officer on special duty**
**SPFU, Karnataka,**
**Office of the directorate of Technical Education,**
**4th floor, Palace Road, Bangalore -560001**

Dear Sir,

**Sub: Submission of Data Audit Report of TEQIP Phase –II in respect of B M S College of Engineering, Bangalore -560019**

With reference to the above cited subject, data audit of TEQIP phase-II in respect of BMS College of Engineering, Bangalore -560019 (2014-15,2015-16 and review of previous years audit) was arranged on 18th to 20th of August 2016. The data audit reports of respective academic years along with the review report are enclosed herewith for your kind consideration.

Thanking you

(B M Rudresh)
Data Auditor
BMS College of Engineering
TEQIP Phase –II (2011-12, 2012-13, 2013-14, 2014-15, 2015-16)
Bangalore -560019

# Technical Education Quality Improvement Programme : Phase II

**CONSOLIDATED INFORMATION VERIFICATION THROUGH DATA-AUDIT for the year : 2011-12,12-13,13-14,14-15 and 2015-2016**

**Name of the Data Auditor: B M Rudresh** **Dates of Data Audit: 18, 19, 20/08/ 2016**

**Name of the Institution and Location: B M S College of Engineering, Bangalore - 560019**

**Data Audit Form (01)**

| No | Particulars | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|---|---|---|---|---|---|---|
| 1 | ***Information in respect to Bachelors programs in engineering/technology*** | | | | | |
| | (a) Number of UG programs conducted during latest academic year | 12 | 12 | 12 | 12 | 12 |
| | (b) Total number of UG students during latest academic year | 3812 | 3818 | 4101 | 4214 | 4532 |
| | (c) Total number of women students in UG programs during latest academic year | 1083 | 1133 | 1165 | 1243 | 1259 |
| | (d) Total number of SC students in UG programs during latest academic year | 283 | 278 | 265 | 315 | 371 |
| | (e) Total number of ST students in UG programs during latest academic year | 68 | 65 | 65 | 64 | 65 |
| | (f) Total number of OBC students in UG programs during latest academic year | 596 | 566 | 677 | 1605 | 1121 |
| | (g) Percentage of final year UG students during latest academic year placed through campus interviews | 82.98 | 77.3 | 76.87 | 75 | 80 |
| | (h) Percentage of final year UG students during latest that passed out with 75%or more aggregate marks | 82 | 75 | 83 | 84.7 | 83 |
| | (i) Percentage of all 1year students [as at 1(b)] during latest that passed all courses fully and successfully got admitted to 2 year in the current academic year | 87.81 | 96.57 | 74.79 | 81..5 | 64 |
| | (j) Percentage of 1year women students [as at 1(c)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic | 94.27 | 94.31 | 96 | 90 | 89 |
| | (k) Percentage of 1 year SC students [as at 1(d)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 74 | 87 | 91 | 86.76 | 50 |
| | (l) Percentage of 1year ST students [as at 1(e)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 99 | 92 | 98 | 63.6 | 61 |
| | m) Percentage of 1year OBC students [as at 1(f)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 87 | 97 | 98 | 95.65 | 85 |

| Data Audit Form (02) | | | | | | |
|---|---|---|---|---|---|---|
| No | Particulars | 2011-12 | 2012-13 | a Audit Form | 2014-15 | 2015-16 |
| 2 | *Information in respect to Masters programs in engineering/technology* | | | | | |
| | (a) Number of full-time masters programs during latest academic year | 8 | 9 | 11 | 13 | 13 |
| | (b) Number of part-time and sandwich (Joint) Masters programs during latest academic year | 1 | 1 | 1 | 1 | 1 |
| | (c) Total number of students enrolled for all Masters programs during latest academic year | 157 | 163 | 196 | 240 | 234 |
| | (d) Number of faculty in-house enrolled for Masters programs during latest academic year | 0 | 0 | 0 | 0 | 0 |
| | (e) Number of students enrolled for all Masters programs during latest academic year with scholarship | 78 | 92 | 99 | 70 | 102 |
| | (f) Number of students enrolled for all Masters programs during latest academic year with TEQIP assistantship | 0 | 49 | 129 | 178 | 116 |
| | (g) Total number of women students in all Masters programs during latest academic year | 55 | 54 | 22 | 78 | 82 |
| | (h) Total number of SC students in all Masters programs during latest academic year | 16 | 19 | 6 | 24 | 31 |
| | (i) Total number of ST students in all Masters programs during latest academic year | 1 | 5 | 2 | 6 | 4 |
| | (j) Total number of OBC students in all Masters programs during latest academic year | 50 | 57 | 15 | 45 | 44 |
| | (k) Percentage of final year Masters students during latest academic year placed through campus interviews | 47.56 | 37.75 | 43.75 | 37 | 58 |
| | (l) Percentage of final year Masters students during latest that passed out with 75% or more aggregate marks | 82 | 75 | 83 | 48 | Progress |

| Data Audit Form (03) | | | | | | |
|---|---|---|---|---|---|---|
| No | Particulars | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| 3 | *Information in respect to Doctoral programs* | | | | | |
| | (a) Number of Doctoral candidates on roll up to March 31, | 41 | 20 | 48 | 43 | 58 |
| | (b) Number of in-house faculty enrolled for Doctoral programs during latest academic year | 3 | 7 | 16 | 6 | 0 |
| | (c) Number of students enrolled for Doctoral programs during latest academic year with scholarship | 0 | 0 | 0 | 0 | 0 |
| | (d) Number of students enrolled for Doctoral programs during latest academic year with TEQIP assistantship | 0 | 5 | 13 | 15 | 29 |

| Data Audit Form (04) | | | | | | |
|---|---|---|---|---|---|---|
| **No** | **Particulars** | **2011-12** | **2012-13** | **2013-14** | **2014-15** | **2015-16** |
| 4 | ***Information in respect to Faculty*** | | | | | |
| | (a) Total number of regular full-time faculty excluding adjunct and emeritus faculty during latest academic year(Excluding AT) | 252 | 260 | 287 | 311 | 314 |
| | (b) Total number of regular full-time faculty in engineering disciplines excluding adjunct and emeritus faculty during latest academic year | 224 | 232 | 251 | 271 | 273 |
| | (c) Number of regular full-time faculty in engineering disciplines with Master's degree as their highest qualification excluding adjunct and emeritus faculty during latest academic year | 164 | 161 | 169 | 169 | 163 |
| | (d) Number of regular full-time faculty in engineering disciplines with Doctoral degree as their highest qualification excluding adjunct and emeritus faculty during latest academic year | 51 | 61 | 77 | 102 | 110 |
| | (e) Number of regular full-time faculty in engineering disciplines with Bachelor's degree as their highest qualification faculty during latest academic year | 8 | 10 | 5 | 0 | 0 |
| | (f) Number of faculty with Bachelor's degree which are enrolled in-house for Masters programs in parent institution during academic year latest:<br>(i) Engineering Teachers (ii) Applied Scienec Teachers and (iii) others | 0 | 0 | 0 | 0 | 0 |
| | (g) Number of faculty with Bachelor's degree which are enrolled in-house for Masters programs at other institutions during academic year latest: | 3 | 0 | 2 | 0 | 0 |
| | (h) Number of faculty with Master's degree which are enrolled in-house for Ph.D programs in parent institution during academic year latest:<br>(i) Engineering Teachers (ii) Applied Scienec Teachers and (iii) others | (i) 3 | (i) 7 | 16 | 0 | 0 |
| | (i) Number of faculty with Masters degree which are enrolled in-house for PhD programs at other institutions during academic year latest:<br>(i) Engineering Teachers<br>(ii) Applied Scienec Teachers<br>(iii) others | (i) 1<br>--<br>-- | (i) 3<br>--<br>-- | 5<br>---<br>-- | (i) 5<br>(ii) 1 | (i) 1<br>(ii) 1<br>-- |
| | (j) Number of faculty that have attended a professional training program of 5 or more days duration during latest academic year | 0 | 0 | 92 | 33 | 64 |
| | (k) Number of all faculty (irrespective of specialization) that have attended the Basic Module of pedagogy training during latest academic year | 0 | 0 | 0 | 29 | 40 |
| | (l) Number of all faculty (irrespective of specialization) that have attended both the Basic and Advanced Modules of pedagogy training during latest academic year | 0 | 0 | 0 | 20 | 32 |
| | (m) Number of faculty appraised by students during latest academic year | 227 | 207 | 260 | 201 | 245 |

| Data Audit Form (05) | | | | | | |
|---|---|---|---|---|---|---|
| No | Particulars | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| 5 | *Information in respect to Accreditation of Program* | | | | | |
| | (a) Number of UG programs accredited | 9 | 0 | 2 | 11 | 11 |
| | (b) Number of UG programs for which accreditation applied for | 0 | 12 | 0 | 1 | 1 |
| | (c) Number of PG programs accredited | 2 | 5 | 4 | 4 | 0 |
| | (d) Number of PG programs for which accreditation applied for | 0 | 0 | 0 | 4 | 9 |

| Data Audit Form (06) | | | | | | |
|---|---|---|---|---|---|---|
| No | Particulars | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| 6 | *Information in respect to research and patents* | | | | | |
| | (a) Number of research publications in Indian refereed journals during the latest academic year | 35 | 18 | 7 | 20 | 15 |
| | (b) Number of research publications in International refereed journals during the latest academic year | 93 | 83 | 93 | 162 | 214 |
| | (c) Number of research publications (Journal) co-authored with faculty/ researchers/ industry experts from outside the institution | 68 | 35 | 16 | 52 | 66 |
| | (d) Number of patents in engineering related areas obtained during the latest academic year | 0 | 0 | 4 | 4 | 0 |
| | (e) Number of patents in engineering related areas filed during the latest academic year | 2 | 3 | 4 | 21 | 10 |
| | (f) Number of sponsored research project completed during the latest academic year | 2 | 0 | 0 | 2 | 2 |
| | (g) Number of MOUs signed for collaborative programs with Indian industry and R&D organizations | 4 | 4 | 1 | 13 | 6 |
| | (h) Number of MOUs signed for collaborative programs with International academic institutions and R&D organizations | 0 | 0 | 0 | 1 | 2 |

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**Data Audit Form (07)**

| No | Particulars | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|---|---|---|---|---|---|---|
| 7 | ***Information in respect to Finances*** | | | | | |
| | (a) Amount received as Block Grant during the latest academic year (Rs. In Lakhs) | 0 | 0 | 0 | 0 | 0 |
| | (b) IRG from students' tuition fee and other charges during the latest academic year (Rs. In Lakhs) | 1882.43 | 2736.87 | 3318.37 | 4396.8 | 5001.347 |
| | (c) IRG from externally funded R&D projects and consultancies during the latest academic year (Rs. In Lakhs) | 57.76 | 3569.107 | 84.74 | 22.82 | 147.82 |
| | (d) Total IRG during the latest academic year (Rs. in Lakhs) | 3399.41 | 3853.77 | 4571.08 | 5809.07 | 655.88 |
| | (e) Total annual recurring expenditure during the latest academic year (Rs. In Lakhs) | 3675.85 | 3586.32 | 4611.118 | 5426.01 | 626.22 |
| | (f) Amount available in Corpus Fund on March 31, | Rs.190000 | Rs.272854 | Rs.400862 | Rs.307380 | Rs.13,308,773 |
| | (g) Amount available in Faculty Development Fund on March 31, | Rs.190000 | Rs.272855 | Rs.887987 | Rs.564972 | Rs.13,191,132 |
| | (h) Amount available in Equipment Replacement Fund on March 31, | Rs.190000 | Rs.272853 | Rs.293279 | Rs.303034 | Rs.13,191,132 |
| | (i) Amount available in Maintenance Fund on March 31, | Rs.190000 | Rs.272855 | Rs.2932279 | Rs.303034 | Rs.13,234,162 |

**Data Audit Form (08)**

| No | Particulars | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|---|---|---|---|---|---|---|
| 8 | ***With respect to Institutional Governance/ Management*** | | | | | |
| | (a) Number of BoG meeting held during the latest academic year (with minutes on the web) | 2 | 3 | 4 | 3 | 3 |
| | (b) Number of institutional functionaries (Deans, HoDs, senior faculty and senior officials) that have undergone Management Capacity Enhancement training | 0 | 0 | 51 | 19 | 37 |

Date: 18, 19, and 20/08/2016

TO,
**State project coordinator / Officer on special duty**
**SPFU, Karnataka,**
**Office of the directorate of Technical Education,**
**4th floor, Palace Road, Bangalore -560001**

Dear Sir,

**Sub: Submission of Data Audit Report of TEQIP Phase –II in respect of B M S College of Engineering, Bangalore -560019**

With reference to the above cited subject, data audit of TEQIP phase-II in respect of BMS College of Engineering, Bangalore -560019 (2014-15,2015-16 and review of previous years audit) was arranged on 18th to 20th of August 2016. The data audit reports of respective academic years along with the review report are enclosed herewith for your kind consideration.

Thanking you

(B M Rudresh)
Data Auditor
BMS College of Engineering
TEQIP Phase –II (2011-12, 2012-13, 2013-14, 2014-15, 2015-16)
Bangalore -560019

# Technical Education Quality Improvement Programme : Phase II

## INFORMATION VERIFICATION THROUGH DATA-AUDIT for the year 2011-12

**Name of the Data Auditor: B M Rudresh**

**Name of Institution and Location: B M S College of Engineering, Bangalore -560019**

**Date of data Audit : 25,26,27/11/2014**

**Data Audit Form (01)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 1 | *Information in respect to Bachelors programs in engineering/technology* | | 2011-12 | | | The data submitted during data audit were verified as per the availability of the records in the TEQIP cell of the college and were found matching with MIS report and college data source. | |
| | (a) Number of UG programs conducted during latest academic year | 12 | | 12 | 12 | | |
| | (b) Total number of UG students during latest academic year | 3812 | | 3812 | 3812 | | |
| | (c) Total number of women students in UG programs during latest academic year | 1083 | | 1083 | 1083 | | |
| | (d) Total number of SC students in UG programs during latest academic year | 283 | | 283 | 283 | | |
| | (e) Total number of ST students in UG programs during latest academic year | 68 | | 68 | 68 | | |
| | (f) Total number of OBC students in UG programs during latest academic year | 596 | | 596 | 596 | | |
| | (g) Percentage of final year UG students during latest academic year placed through campus interviews | 82.98 | | 82.98 | 82.98 | | |
| | (h) Percentage of final year UG students during latest that passed out with 75%or more aggregate marks | 82 | | 82 | 82 | | |
| | (i) Percentage of all 1year students [as at 1(b)] during latest that passed all courses fully and successfully got admitted to 2 year in the current academic year | 87.81 | | 87.81 | 87.81 | | |
| | (j) Percentage of 1year women students [as at 1(c)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic | 94.27 | | 94.27 | 94.27 | | |
| | (k) Percentage of 1 year SC students [as at 1(d)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 74 | | 74 | 74 | | |
| | (l) Percentage of 1year ST students [as at 1(e)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 99 | | 99 | 99 | | |
| | m) Percentage of 1year OBC students [as at 1(f)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 87 | | 87 | 87 | | |

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| Data Audit Form (02) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No** | **Particulars** | **Figure Reported in MIS** | **Year** | **Verified Figure** | **Institutional source data** | **Remarks regarding data** | **Comment** |
| 2 | ***Information in respect to Masters programs in engineering/technology*** | | | | | | |
| | (a) Number of full-time masters programs during latest academic year | 8 | 2011-12 | 8 | 8 | Data audited satisfactory | |
| | (b) Number of part-time and sandwich (Joint) Masters programs during latest academic year | 1 | | 1 | 1 | | |
| | (c) Total number of students enrolled for all Masters programs during latest academic year | 157 | | 157 | 157 | | |
| | (d) Number of faculty in-house enrolled for Masters programs during latest academic year | 0 | | 0 | 0 | | |
| | (e) Number of students enrolled for all Masters programs during latest academic year with scholarship | 78 | | 78 | 78 | | |
| | (f) Number of students enrolled for all Masters programs during latest academic year with TEQIP assistantship | 0 | | 0 | 0 | | |
| | (g) Total number of women students in all Masters programs during latest academic year | 55 | | 55 | 55 | | |
| | (h) Total number of SC students in all Masters programs during latest academic year | 16 | | 16 | 16 | | |
| | (i) Total number of ST students in all Masters programs during latest academic year | 1 | | 1 | 1 | | |
| | (j) Total number of OBC students in all Masters programs during latest academic year | 50 | | 50 | 50 | | |
| | (k) Percentage of final year Masters students during latest academic year placed through campus interviews | 47.56 | | 47.56 | 47.56 | | |
| | (l) Percentage of final year Masters students during latest that passed out with 75% or more aggregate marks | 82 | | 82 | 82 | | |



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| Data Audit Form (03) | | | | | | | |
|---|---|---|---|---|---|---|---|
| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
| 3 | *Information in respect to Doctoral programs* | | | | | | |
| | (a) Number of Doctoral candidates on roll up to March 31, | 41 | 2011-12 | 41 | 41 | Data audited satisfactory | |
| | (b) Number of in-house faculty enrolled for Doctoral programs during latest academic year | 3 | | 3 | 3 | | |
| | (c) Number of students enrolled for Doctoral programs during latest academic year with scholarship | 0 | | 0 | 0 | | |
| | (d) Number of students enrolled for Doctoral programs during latest academic year with TEQIP assistantship | 0 | | 0 | 0 | | |

## Data Audit Form (04)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 4 | *Information in respect to Faculty* | | 2011-12 | | | Data audited satisfactory | |
| | (a) Total number of regular full-time faculty excluding adjunct and emeritus faculty during latest academic year(Excluding AT) | 252 | | 252 | 252 | | |
| | (b) Total number of regular full-time faculty in engineering disciplines excluding adjunct and emeritus faculty during latest academic year | 224 | | 224 | 224 | | |
| | (c) Number of regular full-time faculty in engineering disciplines with Master's degree as their highest qualification excluding adjunct and emeritus faculty during latest academic year | 164 | | 164 | 164 | | |
| | (d) Number of regular full-time faculty in engineering disciplines with Doctoral degree as their highest qualification excluding adjunct and emeritus faculty during latest academic year | 51 | | 51 | 51 | | |
| | (e) Number of regular full-time faculty in engineering disciplines with Bachelor's degree as their highest qualification faculty during latest academic year | 8 | | 8 | 8 | | |
| | (f) Number of faculty with Bachelor's degree which are enrolled in-house for Masters programs in parent institution during academic year latest:<br>(i) Engineering Teachers (ii) Applied Scienec Teachers and (iii) others | 0 | | 0 | 0 | | |
| | (g) Number of faculty with Bachelor's degree which are enrolled in-house for Masters programs at other institutions during academic year latest: | 3 | | 3 | 3 | | |
| | (h) Number of faculty with Master's degree which are enrolled in-house for Ph.D programs in parent institution during academic year latest:<br>(i) Engineering Teachers (ii) Applied Scienec Teachers and (iii) others | (i) 3 | | (i) 3 | (i) 3 | | |
| | (i) Number of faculty with Masters degree which are enrolled in-house for PhD programs at other institutions during academic year latest:<br>(i) Engineering Teachers<br>(ii) Applied Scienec Teachers<br>(iii) others | (i) 1<br>--<br>-- | | (i) 1<br>--<br>-- | (i) 1<br>--<br>-- | | |
| | (j) Number of faculty that have attended a professional training program of 5 or more days duration during latest academic year | 0 | | 0 | 0 | | |
| | (k) Number of all faculty (irrespective of specialization) that have attended the Basic Module of pedagogy training during latest academic year | 0 | | 0 | 0 | | |
| | (l) Number of all faculty (irrespective of specialization) that have attended both the Basic and Advanced Modules of pedagogy training during latest academic year | 0 | | 0 | 0 | | |
| | (m) Number of faculty appraised by students during latest academic year | 227 | | 227 | 227 | | |

## Data Audit Form (05)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 5 | *Information in respect to Accreditation of Program* | | | | | | |
| | (a) Number of UG programs accredited | 9 | 2011-12 | 9 | 9 | Data audited satisfactory | |
| | (b) Number of UG programs for which accreditation applied for | 0 | | 0 | 0 | | |
| | (c) Number of PG programs accredited | 2 | | 2 | 2 | | |
| | (d) Number of PG programs for which accreditation applied for | 0 | | 0 | 0 | | |

## Data Audit Form (06)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|
| 6 | *Information in respect to research and patents* | | | | | | |
| | (a) Number of research publications in Indian refereed journals during the latest academic year | 35 | 2011-12 | 35 | 35 | Data audited satisfactory | |
| | (b) Number of research publications in International refereed journals during the latest academic year | 93 | | 93 | 93 | | |
| | (c) Number of research publications (Journal) co-authored with faculty/ researchers/ industry experts from outside the institution | 68 | | 68 | 68 | | |
| | (d) Number of patents in engineering related areas obtained during the latest academic year | 0 | | 0 | 0 | | |
| | (e) Number of patents in engineering related areas filed during the latest academic year | 2 | | 2 | 2 | | |
| | (f) Number of sponsored research project completed during the latest academic year | 2 | | 2 | 2 | | |
| | (g) Number of MOUs signed for collaborative programs with Indian industry and R&D organizations | 4 | | 4 | 4 | | |
| | (h) Number of MOUs signed for collaborative programs with International academic institutions and R&D organizations | 0 | | 0 | 0 | | |

**Data Audit Form (07)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|
| 7 | *Information in respect to Finances* | | | | | | |
| | (a) Amount received as Block Grant during the latest academic year (Rs. In Lakhs) | 0 | 2011-12 | 0 | 0 | data audited satisfactory | |
| | (b) IRG from students' tuition fee and other charges during the latest academic year (Rs. In Lakhs) | 1882.43 | | 1882.43 | 1882.43 | | |
| | (c) IRG from externally funded R&D projects and consultancies during the latest academic year (Rs. In Lakhs) | 57.76 | | 57.76 | 57.76 | | |
| | (d) Total IRG during the latest academic year (Rs. in Lakhs) | 3399.41 | | 3399.41 | 3399.41 | | |
| | (e) Total annual recurring expenditure during the latest academic year (Rs. In Lakhs) | 3675.85 | | 3675.85 | 3675.85 | | |
| | (f) Amount available in Corpus Fund on March 31, | Rs.190000 | | Rs.190000 | Rs.190000 | | |
| | (g) Amount available in Faculty Development Fund on March 31, | Rs.190000 | | Rs.190000 | Rs.190000 | | |
| | (h) Amount available in Equipment Replacement Fund on March 31, | Rs.190000 | | Rs.190000 | Rs.190000 | | |
| | (i) Amount available in Maintenance Fund on March 31, | Rs.190000 | | Rs.190000 | Rs.190000 | | |

**Data Audit Form (08)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 8 | *With respect to Institutional Governance/ Management* | | | | | | |
| | (a) Number of BoG meeting held during the latest academic year (with minutes on the web) | 2 | 2011-12 | 2 | 2 | Data audited satisfactory | |
| | (b) Number of institutional functionaries (Deans, HoDs, senior faculty and senior officials) that have undergone Management Capacity Enhancement training | 0 | | 0 | 0 | | |

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Date: 18, 19, and 20/08/2016

TO,
**State project coordinator / Officer on special duty**
**SPFU, Karnataka,**
**Office of the directorate of Technical Education,**
**4th floor, Palace Road, Bangalore -560001**

Dear Sir,

**Sub: Submission of Data Audit Report of TEQIP Phase –II in respect of B M S College of Engineering, Bangalore -560019**

With reference to the above cited subject, data audit of TEQIP phase-II in respect of BMS College of Engineering, Bangalore -560019 (2014-15,2015-16 and review of previous years audit) was arranged on 18th to 20th of August 2016. The data audit reports of respective academic years along with the review report are enclosed herewith for your kind consideration.

Thanking you

(B M Rudresh)
Data Auditor
BMS College of Engineering
TEQIP Phase –II (2011-12, 2012-13, 2013-14, 2014-15, 2015-16)
Bangalore -560019

# Technical Education Quality Improvement Programme : Phase II

## INFORMATION VERIFICATION THROUGH DATA-AUDIT for the academic year 2012-13

**Name of the Data Auditor: B M Rudresh**

**Name of Institution and Location: B M S College of Engineering, Bangalore -560019**

**Date of data Audit : 25,26,27/11/2014**

**Data Audit Form (01)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 1 | *Information in respect to Bachelors programs in engineering/technology* | | 2012-13 | | | The data submitted during data audit were verified as per the availability of the records in the TEQIP cell of the college and were found matching with MIS report and college data source. | |
| | (a) Number of UG programs conducted during latest academic year | 12 | | 12 | 12 | | |
| | (b) Total number of UG students during latest academic year | 3818 | | 3818 | 3818 | | |
| | (c) Total number of women students in UG programs during latest academic year | 1133 | | 1133 | 1133 | | |
| | (d) Total number of SC students in UG programs during latest academic year | 278 | | 278 | 278 | | |
| | (e) Total number of ST students in UG programs during latest academic year | 65 | | 65 | 65 | | |
| | (f) Total number of OBC students in UG programs during latest academic year | 566 | | 566 | 566 | | |
| | (g) Percentage of final year UG students during latest academic year placed through campus interviews. | 77.3 | | 77.3 | 77.3 | | |
| | (h) Percentage of final year UG students during latest that passed out with 75%or more aggregate marks | 75 | | 75 | 75 | | |
| | (i) Percentage of all 1year students [as at 1(b)] during latest that passed all courses fully and successfully got admitted to 2 year in the current academic year | 96.57 | | 96.57 | 96.57 | | |
| | (j) Percentage of 1year women students [as at 1(c)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic | 94.31 | | 94.31 | 94.31 | | |
| | (k) Percentage of 1 year SC students [as at 1(d)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 87 | | 87 | 87 | | |
| | (l) Percentage of 1year ST students [as at 1(e)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 92 | | 92 | 92 | | |
| | m) Percentage of 1year OBC students [as at 1(f)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 97 | | 97 | 97 | | |

| Data Audit Form (02) | | | | | | | |
|---|---|---|---|---|---|---|---|
| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
| 2 | *Information in respect to Masters programs in engineering/technology* | | | | | | |
| | (a) Number of full-time masters programs during latest academic year | 9 | 2012-13 | 9 | 9 | Data audited satisfactory | |
| | (b) Number of part-time and sandwich (Joint) Masters programs during latest academic year | 1 | | 1 | 1 | | |
| | (c) Total number of students enrolled for all Masters programs during latest academic year | 163 | | 163 | 163 | | |
| | (d) Number of faculty in-house enrolled for Masters programs during latest academic year | 0 | | 0 | 0 | | |
| | (e) Number of students enrolled for all Masters programs during latest academic year with scholarship | 92 | | 92 | 92 | | |
| | (f) Number of students enrolled for all Masters programs during latest academic year with TEQIP assistantship | 49 | | 49 | 49 | | |
| | (g) Total number of women students in all Masters programs during latest academic year | 54 | | 54 | 54 | | |
| | (h) Total number of SC students in all Masters programs during latest academic year | 19 | | 19 | 19 | | |
| | (i) Total number of ST students in all Masters programs during latest academic year | 5 | | 5 | 5 | | |
| | (j) Total number of OBC students in all Masters programs during latest academic year | 57 | | 57 | 57 | | |
| | (k) Percentage of final year Masters students during latest academic year placed through campus interviews | 37.75 | | 37.75 | 37.75 | | |
| | (l) Percentage of final year Masters students during latest that passed out with 75% or more aggregate marks | 75 | | 75 | 75 | | |



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| Data Audit Form (03) | | | | | | | |
|---|---|---|---|---|---|---|---|
| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
| 3 | *Information in respect to Doctoral programs* | | | | | | |
| | (a) Number of Doctoral candidates on roll up to March 31, | 20 | 2012-13 | 20 | 20 | Data audited satisfactory | |
| | (b) Number of in-house faculty enrolled for Doctoral programs during latest academic year | 7 | | 7 | 7 | | |
| | (c) Number of students enrolled for Doctoral programs during latest academic year with scholarship | 0 | | 0 | 0 | | |
| | (d) Number of students enrolled for Doctoral programs during latest academic year with TEQIP assistantship | 5 | | 5 | 5 | | |

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| Data Audit Form (04) | | | | | | | |
|---|---|---|---|---|---|---|---|
| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
| 4 | *Information in respect to Faculty* | | | | | | |
| | (a) Total number of regular full-time faculty excluding adjunct and emeritus faculty during latest academic year(Excluding AT) | 260 | 2012-13 | 260 | 260 | Data audited satisfactory | |
| | (b) Total number of regular full-time faculty in engineering disciplines excluding adjunct and emeritus faculty during latest academic year | 232 | | 232 | 232 | | |
| | (c) Number of regular full-time faculty in engineering disciplines with Master's degree as their highest qualification excluding adjunct and emeritus faculty during latest academic year | 161 | | 161 | 161 | | |
| | (d) Number of regular full-time faculty in engineering disciplines with Doctoral degree as their highest qualification excluding adjunct and emeritus faculty during latest academic year | 61 | | 61 | 61 | | |
| | (e) Number of regular full-time faculty in engineering disciplines with Bachelor's degree as their highest qualification faculty during latest academic year | 10 | | 10 | 10 | | |
| | (f) Number of faculty with Bachelor's degree which are enrolled in-house for Masters programs in parent institution during academic year latest:<br>(i) Engineering Teachers (ii) Applied Scienec Teachers and (iii) others | 0 | | 0 | 0 | | |
| | (g) Number of faculty with Bachelor's degree which are enrolled in-house for Masters programs at other institutions during academic year latest: | 0 | | 0 | 0 | | |
| | (h) Number of faculty with Master's degree which are enrolled in-house for Ph.D programs in parent institution during academic year latest:<br>(i) Engineering Teachers (ii) Applied Scienec Teachers and (iii) others | (i) 7 | | (i) 7 | (i) 7 | | |
| | (i) Number of faculty with Masters degree which are enrolled in-house for PhD programs at other institutions during academic year latest:<br>(i) Engineering Teachers<br>(ii) Applied Scienec Teachers<br>(iii) others | (i) 3<br>--<br>-- | | (i) 3<br>--<br>-- | (i) 3<br>--<br>-- | | |
| | (j) Number of faculty that have attended a professional training program of 5 or more days duration during latest academic year | 0 | | 0 | 0 | | |
| | (k) Number of all faculty (irrespective of specialization) that have attended the Basic Module of pedagogy training during latest academic year | 0 | | 0 | 0 | | |
| | (l) Number of all faculty (irrespective of specialization) that have attended both the Basic and Advanced Modules of pedagogy training during latest academic year | 0 | | 0 | 0 | | |
| | (m) Number of faculty appraised by students during latest academic year | 207 | | 207 | 207 | | |

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## Data Audit Form (05)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 5 | *Information in respect to Accreditation of Program* | | | | | | |
| | (a) Number of UG programs accredited | 0 | 2012-13 | 0 | 0 | Data audited satisfactory | |
| | (b) Number of UG programs for which accreditation applied for | 12 | | 12 | 12 | | |
| | (c) Number of PG programs accredited | 5 | | 5 | 5 | | |
| | (d) Number of PG programs for which accreditation applied for | 0 | | 0 | 0 | | |

## Data Audit Form (06)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|
| 6 | *Information in respect to research and patents* | | | | | | |
| | (a) Number of research publications in Indian refereed journals during the latest academic year | 18 | 2012-13 | 18 | 18 | Data audited satisfactory | |
| | (b) Number of research publications in International refereed journals during the latest academic year | 83 | | 83 | 83 | | |
| | (c) Number of research publications (Journal) co-authored with faculty/ researchers/ industry experts from outside the institution | 35 | | 35 | 35 | | |
| | (d) Number of patents in engineering related areas obtained during the latest academic year | 0 | | 0 | 0 | | |
| | (e) Number of patents in engineering related areas filed during the latest academic year | 3 | | 3 | 3 | | |
| | (f) Number of sponsored research project completed during the latest academic year | 0 | | 0 | 0 | | |
| | (g) Number of MOUs signed for collaborative programs with Indian industry and R&D organizations | 4 | | 4 | 4 | | |
| | (h) Number of MOUs signed for collaborative programs with International academic institutions and R&D organizations | 0 | | 0 | 0 | | |

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## Data Audit Form (07)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|
| 7 | *Information in respect to Finances* | | | | | | |
| | (a) Amount received as Block Grant during the latest academic year (Rs. In Lakhs) | 0 | 2012-13 | 0 | 0 | Data audited satisfactory | |
| | (b) IRG from students' tuition fee and other charges during the latest academic year (Rs. In Lakhs) | 2736.87 | | 2736.87 | 2736.87 | | |
| | (c) IRG from externally funded R&D projects and consultancies during the latest academic year (Rs. In Lakhs) | 3569.107 | | 3569.107 | 3569.107 | | |
| | (d) Total IRG during the latest academic year (Rs. in Lakhs) | 3853.77 | | 3853.77 | 3853.77 | | |
| | (e) Total annual recurring expenditure during the latest academic year (Rs. In Lakhs) | 3586.32 | | 3586.32 | 3586.32 | | |
| | (f) Amount available in Corpus Fund on March 31, | Rs.272854 | | Rs.272854 | Rs.272854 | | |
| | (g) Amount available in Faculty Development Fund on March 31, | Rs.272855 | | Rs.272855 | Rs.272855 | | |
| | (h) Amount available in Equipment Replacement Fund on March 31, | Rs.272853 | | Rs.272853 | Rs.272853 | | |
| | (i) Amount available in Maintenance Fund on March 31, | Rs.272855 | | Rs.272855 | Rs.272855 | | |

## Data Audit Form (08)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 8 | *With respect to Institutional Governance/ Management* | | | | | | |
| | (a) Number of BoG meeting held during the latest academic year (with minutes on the web) | 3 | 2012-13 | 3 | 3 | Data audited satisfactory | |
| | (b) Number of institutional functionaries (Deans, HoDs, senior faculty and senior officials) that have undergone Management Capacity Enhancement training | 0 | | 0 | 0 | | |

Date: 18, 19, and 20/08/2016

TO,
**State project coordinator / Officer on special duty**
**SPFU, Karnataka,**
**Office of the directorate of Technical Education,**
**4th floor, Palace Road, Bangalore -560001**

Dear Sir,

**Sub: Submission of Data Audit Report of TEQIP Phase –II in respect of B M S College of Engineering, Bangalore -560019**

With reference to the above cited subject, data audit of TEQIP phase-II in respect of BMS College of Engineering, Bangalore --560019 (2014-15,2015-16 and review of previous years audit) was arranged on 18th to 20th of August 2016. The data audit reports of respective academic years along with the review report are enclosed herewith for your kind consideration.

Thanking you

(B M Rudresh)
Data Auditor
BMS College of Engineering
TEQIP Phase –II (2011-12, 2012-13, 2013-14, 2014-15, 2015-16)
Bangalore -560019

# Technical Education Quality Improvement Programme : Phase II

## INFORMATION VERIFICATION THROUGH DATA-AUDIT for the year : 2013-14

**Name of the Data Auditor: B M Rudresh**

**Name of the Institution and Location: B M S College of Engineering, Bangalore -560019**

**Date of data Audit : 25,26,27/11/2014**

**Data Audit Form (01)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 1 | *Information in respect to Bachelors programs in engineering/technology* | | 2013-14 | | | The data submitted during data audit were verified as per the availability of the records in the TEQIP cell of the college and were found matching with MIS report and college data source. | |
| | (a) Number of UG programs conducted during latest academic year | 12 | | 12 | 12 | | |
| | (b) Total number of UG students during latest academic year | 4101 | | 4101 | 4101 | | |
| | (c) Total number of women students in UG programs during latest academic year | 1165 | | 1165 | 1165 | | |
| | (d) Total number of SC students in UG programs during latest academic year | 265 | | 265 | 265 | | |
| | (e) Total number of ST students in UG programs during latest academic year | 65 | | 65 | 65 | | |
| | (f) Total number of OBC students in UG programs during latest academic year | 677 | | 677 | 677 | | |
| | (g) Percentage of final year UG students during latest academic year placed through campus interviews | 76.87 | | 76.87 | 76.87 | | |
| | (h) Percentage of final year UG students during latest that passed out with 75%or more aggregate marks | 83 | | 83 | 83 | | |
| | (i) Percentage of all 1year students [as at 1(b)] during latest that passed all courses fully and successfully got admitted to 2 year in the current academic year | 74.79 | | 74.79 | 74.79 | | |
| | (j) Percentage of 1year women students [as at 1(c)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic | 96 | | 96 | 96 | | |
| | (k) Percentage of 1 year SC students [as at 1(d)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 91 | | 91 | 91 | | |
| | (l) Percentage of 1year ST students [as at 1(e)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 98 | | 98 | 98 | | |
| | (m) Percentage of 1year OBC students [as at 1(f)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 98 | | 98 | 98 | | |

## Data Audit Form (02)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 2 | *Information in respect to Masters programs in engineering/technology* | | | | | | |
| | (a) Number of full-time masters programs during latest academic year | 11 | 2013-14 | 11 | 11 | Data audited satisfactory | |
| | (b) Number of part-time and sandwich (Joint) Masters programs during latest academic year | 1 | | 1 | 1 | | |
| | (c) Total number of students enrolled for all Masters programs during latest academic year | 196 | | 196 | 196 | | |
| | (d) Number of faculty in-house enrolled for Masters programs during latest academic year | 0 | | 0 | 0 | | |
| | (e) Number of students enrolled for all Masters programs during latest academic year with scholarship | 99 | | 99 | 99 | | |
| | (f) Number of students enrolled for all Masters programs during latest academic year with TEQIP assistantship | 129 | | 129 | 129 | | |
| | (g) Total number of women students in all Masters programs during latest academic year | 22 | | 22 | 22 | | |
| | (h) Total number of SC students in all Masters programs during latest academic year | 6 | | 6 | 6 | | |
| | (i) Total number of ST students in all Masters programs during latest academic year | 2 | | 2 | 2 | | |
| | (j) Total number of OBC students in all Masters programs during latest academic year | 15 | | 15 | 15 | | |
| | (k) Percentage of final year Masters students during latest academic year placed through campus interviews | 43.75 | | 43.75 | 43.75 | | |
| | (l) Percentage of final year Masters students during latest that passed out with 75% or more aggregate marks | 83 | | 83 | 83 | | |

145 941

276

**Data Audit Form (03)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 3 | *Information in respect to Doctoral programs* | | | | | | |
| | (a) Number of Doctoral candidates on roll up to March 31, | 48 | 2013-14 | 48 | 48 | Data audited satisfactory | |
| | (b) Number of in-house faculty enrolled for Doctoral programs during latest academic year | 16 | | 16 | 16 | | |
| | (c) Number of students enrolled for Doctoral programs during latest academic year with scholarship | 0 | | 0 | 0 | | |
| | (d) Number of students enrolled for Doctoral programs during latest academic year with TEQIP assistantship | 13 | | 13 | 13 | | |



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| Data Audit Form (04) | | | | | | | |
|---|---|---|---|---|---|---|---|
| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
| 4 | *Information in respect to Faculty* | | | | | | |
| | (a) Total number of regular full-time faculty excluding adjunct and emeritus faculty during latest academic year(Excluding AT) | 287 | | 287 | 287 | Data audited satisfactory | |
| | (b) Total number of regular full-time faculty in engineering disciplines excluding adjunct and emeritus faculty during latest academic year | 251 | | 251 | 251 | | |
| | (c) Number of regular full-time faculty in engineering disciplines with Master's degree as their highest qualification excluding adjunct and emeritus faculty during latest academic year | 169 | | 169 | 169 | | |
| | (d) Number of regular full-time faculty in engineering disciplines with Doctoral degree as their highest qualification excluding adjunct and emeritus faculty during latest academic year | 77 | | 77 | 77 | | |
| | (e) Number of regular full-time faculty in engineering disciplines with Bachelor's degree as their highest qualification faculty during latest academic year | 5 | | 5 | 5 | | |
| | (f) Number of faculty with Bachelor's degree which are enrolled in-house for Masters programs in parent institution during academic year latest:<br>(i) Engineering Teachers (ii) Applied Scienec Teachers and (iii) others | 0 | | 0 | 0 | | |
| | (g) Number of faculty with Bachelor's degree which are enrolled in-house for Masters programs at other institutions during academic year latest: | 2 | | 2 | 2 | | |
| | (h) Number of faculty with Master's degree which are enrolled in-house for Ph.D programs in parent institution during academic year latest:<br>(i) Engineering Teachers (ii) Applied Scienec Teachers and (iii) others | 16 | | 16 | 16 | | |
| | (i) Number of faculty with Masters degree which are enrolled in-house for PhD programs at other institutions during academic year latest:<br>(i) Engineering Teachers<br>(ii) Applied Scienec Teachers<br>(iii) others | 5<br>---<br>-- | | 5<br>---<br>-- | 5<br>---<br>-- | | |
| | (j) Number of faculty that have attended a professional training program of 5 or more days duration during latest academic year | 92 | | 92 | 92 | | |
| | (k) Number of all faculty (irrespective of specialization) that have attended the Basic Module of pedagogy training during latest academic year | 0 | | 0 | 0 | | |
| | (l) Number of all faculty (irrespective of specialization) that have attended both the Basic and Advanced Modules of pedagogy training during latest academic year | 0 | | 0 | 0 | | |
| | (m) Number of faculty appraised by students during latest academic year | 260 | | 260 | 260 | | |

## Data Audit Form (05)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 5 | *Information in respect to Accreditation of Program* | | | | | | |
| | (a) Number of UG programs accredited | 2 | 2013-14 | 2 | 2 | Data audited satisfactory | |
| | (b) Number of UG programs for which accreditation applied for | 0 | | 0 | 0 | | |
| | (c) Number of PG programs accredited | 4 | | 4 | 4 | | |
| | (d) Number of PG programs for which accreditation applied for | 0 | | 0 | 0 | | |

## Data Audit Form (06)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|
| 6 | *Information in respect to research and patents* | | | | | | |
| | (a) Number of research publications in Indian refereed journals during the latest academic year | 7 | 2013-14 | 7 | 7 | Data audited satisfactory | |
| | (b) Number of research publications in International refereed journals during the latest academic year | 93 | | 93 | 93 | | |
| | (c) Number of research publications (Journal) co-authored with faculty/ researchers/ industry experts from outside the institution | 16 | | 16 | 16 | | |
| | (d) Number of patents in engineering related areas obtained during the latest academic year | 4 | | 4 | 4 | | |
| | (e) Number of patents in engineering related areas filed during the latest academic year | 4 | | 4 | 4 | | |
| | (f) Number of sponsored research project completed during the latest academic year | 0 | | 0 | 0 | | |
| | (g) Number of MOUs signed for collaborative programs with Indian industry and R&D organizations | 1 | | 1 | 1 | | |
| | (h) Number of MOUs signed for collaborative programs with International academic institutions and R&D organizations | 0 | | 0 | 0 | | |

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**Data Audit Form (07)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|
| 7 | *Information in respect to Finances* | | | | | | |
| | (a) Amount received as Block Grant during the latest academic year (Rs. In Lakhs) | 0 | 2013-14 | 0 | 0 | Data audited satisfactory | |
| | (b) IRG from students' tuition fee and other charges during the latest academic year (Rs. In Lakhs) | 3318.37 | | 3318.37 | 3318.37 | | |
| | (c) IRG from externally funded R&D projects and consultancies during the latest academic year (Rs. In Lakhs) | 84.74 | | 84.74 | 84.74 | | |
| | (d) Total IRG during the latest academic year (Rs. in Lakhs) | 4571.08 | | 4571.08 | 4571.08 | | |
| | (e) Total annual recurring expenditure during the latest academic year (Rs. In Lakhs) | 4611.118 | | 4611.118 | 4611.118 | | |
| | (f) Amount available in Corpus Fund on March 31, | Rs.400862 | | Rs.400862 | Rs.400862 | | |
| | (g) Amount available in Faculty Development Fund on March 31, | Rs.887987 | | Rs.13,191,132 | Rs.13,191,132 | | |
| | (h) Amount available in Equipment Replacement Fund on March 31, | Rs.293279 | | Rs.293279 | Rs.293279 | | |
| | (i) Amount available in Maintenance Fund on March 31, | Rs.2932279 | | Rs.2932279 | Rs.2932279 | | |

**Data Audit Form (08)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 8 | *With respect to Institutional Governance/ Management* | | | | | | |
| | (a) Number of BoG meeting held during the latest academic year (with minutes on the web) | 4 | 2013-14 | 4 | 4 | Data audited satisfactory | |
| | (b) Number of institutional functionaries (Deans, HoDs, senior faculty and senior officials) that have undergone Management Capacity Enhancement training | 51 | | 51 | 51 | | |



6/6

Date: 18, 19, and 20/08/2016

TO,
**State project coordinator / Officer on special duty**
**SPFU, Karnataka,**
**Office of the directorate of Technical Education,**
**4th floor, Palace Road, Bangalore -560001**

Dear Sir,

**Sub: Submission of Data Audit Report of TEQIP Phase –II in respect of B M S College of Engineering, Bangalore -560019**

With reference to the above cited subject, data audit of TEQIP phase-II in respect of BMS College of Engineering, Bangalore -560019 (2014-15,2015-16 and review of previous years audit) was arranged on 18th to 20th of August 2016. The data audit reports of respective academic years along with the review report are enclosed herewith for your kind consideration.

Thanking you

(B M Rudresh)
Data Auditor
BMS College of Engineering
TEQIP Phase –II (2011-12, 2012-13, 2013-14, 2014-15, 2015-16)
Bangalore -560019

# Technical Education Quality Improvement Programme : Phase II

## INFORMATION VERIFICATION THROUGH DATA-AUDIT for the year 2014-15

**Name of the Data Auditor: B M Rudresh**

**Name of Institution and Location: B M S College of Engineering, Bangalore -560019**

**Date of data Audit : 18,19,20/08/2016**

**Data Audit Form (01)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 1 | *Information in respect to Bachelors programs in engineering/technology* | | 2014-15 | | | The data submitted during data audit were verified as per the availability of the records in the TEQIP cell of the college and were found matching with MIS report and college data source. | |
| | (a) Number of UG programs conducted during latest academic year | 12 | | 12 | 12 | | |
| | (b) Total number of UG students during latest academic year | 4214 | | 4214 | 4214 | | |
| | (c) Total number of women students in UG programs during latest academic year | 1243 | | 1243 | 1243 | | |
| | (d) Total number of SC students in UG programs during latest academic year | 315 | | 315 | 315 | | |
| | (e) Total number of ST students in UG programs during latest academic year | 64 | | 64 | 64 | | |
| | (f) Total number of OBC students in UG programs during latest academic year | 1605 | | 1605 | 1605 | | |
| | (g) Percentage of final year UG students during latest academic year placed through campus interviews | 75 | | 75 | 75 | | |
| | (h) Percentage of final year UG students during latest that passed out with 75%or more aggregate marks | 84.7 | | 84.7 | 84.7 | | |
| | (i) Percentage of all 1year students [as at 1(b)] during latest that passed all courses fully and successfully got admitted to 2 year in the current academic year | 81..5 | | 81.58 | 81.58 | | |
| | (j) Percentage of 1year women students [as at 1(c)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic | 90 | | 90 | 90 | | |
| | (k) Percentage of 1 year SC students [as at 1(d)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 86.76 | | 86.76 | 86.76 | | 1/6 |
| | (l) Percentage of 1year ST students [as at 1(e)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 63.6 | | 63.6 | 63.6 | | |
| | m) Percentage of 1year OBC students [as at 1(f)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 95.65 | | 95.65 | 95.65 | | |

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| Data Audit Form (02) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No** | **Particulars** | **Figure Reported in MIS** | **Year** | **Verified Figure** | **Institutional source data** | **Remarks regarding data audited** | **Comment** |
| 2 | ***Information in respect to Masters programs in engineering/technology*** | | | | | | |
| | (a) Number of full-time masters programs during latest academic year | 13 | 2014-15 | 13 | 13 | Data audited satisfactory | |
| | (b) Number of part-time and sandwich (Joint) Masters programs during latest academic year | 1 | | 1 | 1 | | |
| | (c) Total number of students enrolled for all Masters programs during latest academic year | 240 | | 240 | 240 | | |
| | (d) Number of faculty in-house enrolled for Masters programs during latest academic year | 0 | | 0 | 0 | | |
| | (e) Number of students enrolled for all Masters programs during latest academic year with scholarship | 70 | | 70 | 70 | | |
| | (f) Number of students enrolled for all Masters programs during latest academic year with TEQIP assistantship | 178 | | 178 | 178 | | |
| | (g) Total number of women students in all Masters programs during latest academic year | 78 | | 78 | 78 | | |
| | (h) Total number of SC students in all Masters programs during latest academic year | 24 | | 24 | 24 | | |
| | (i) Total number of ST students in all Masters programs during latest academic year | 6 | | 6 | 6 | | |
| | (j) Total number of OBC students in all Masters programs during latest academic year | 45 | | 45 | 45 | | |
| | (k) Percentage of final year Masters students during latest academic year placed through campus interviews | 37 | | 37 | 37 | | |
| | (l) Percentage of final year Masters students during latest that passed out with 75% or more aggregate marks | 48 | | 48 | 48 | | |

152 81

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**Data Audit Form (03)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 3 | *Information in respect to Doctoral programs* | | | | | | |
| | (a) Number of Doctoral candidates on roll up to March 31, | 43 | 2014-15 | 43 | 43 | Data audited satisfactory | |
| | (b) Number of in-house faculty enrolled for Doctoral programs during latest academic year | 6 | | 6 | 6 | | |
| | (c) Number of students enrolled for Doctoral programs during latest academic year with scholarship | 0 | | 0 | 0 | | |
| | (d) Number of students enrolled for Doctoral programs during latest academic year with TEQIP assistantship | 15 | | 15 | 15 | | |

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153

3/6

| Data Audit Form (04) | | | | | | | |
|---|---|---|---|---|---|---|---|
| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
| 4 | *Information in respect to Faculty* | | | | | | |
| | (a) Total number of regular full-time faculty excluding adjunct and emeritus faculty during latest academic year(Excluding AT) | 311 | 2014-15 | 311 | 311 | Data audited satisfactory | |
| | (b) Total number of regular full-time faculty in engineering disciplines excluding adjunct and emeritus faculty during latest academic year | 271 | | 271 | 271 | | |
| | (c) Number of regular full-time faculty in engineering disciplines with Master's degree as their highest qualification excluding adjunct and emeritus faculty during latest academic year | 169 | | 169 | 169 | | |
| | (d) Number of regular full-time faculty in engineering disciplines with Doctoral degree as their highest qualification excluding adjunct and emeritus faculty during latest academic year | 102 | | 102 | 102 | | |
| | (e) Number of regular full-time faculty in engineering disciplines with Bachelor's degree as their highest qualification faculty during latest academic year | 0 | | 0 | 0 | | |
| | (f) Number of faculty with Bachelor's degree which are enrolled in-house for Masters programs in parent institution during academic year latest:<br>(i) Engineering Teachers (ii) Applied Scienec Teachers and (iii) others | 0 | | 0 | 0 | | |
| | (g) Number of faculty with Bachelor's degree which are enrolled in-house for Masters programs at other institutions during academic year latest: | 0 | | 0 | 0 | | |
| | (h) Number of faculty with Master's degree which are enrolled in-house for Ph.D programs in parent institution during academic year latest:<br>(i) Engineering Teachers (ii) Applied Scienec Teachers and (iii) others | 0 | | 0 | 0 | | |
| | (i) Number of faculty with Masters degree which are enrolled in-house for PhD programs at other institutions during academic year latest:<br>(i) Engineering Teachers<br>(ii) Applied Scienec Teachers<br>(iii) others | (i) 5<br>(ii) 1 | | (i) 5<br>(ii) 1 | (i) 5<br>(ii) 1 | | |
| | (j) Number of faculty that have attended a professional training program of 5 or more days duration during latest academic year | 33 | | 33 | 33 | | |
| | (k) Number of all faculty (irrespective of specialization) that have attended the Basic Module of pedagogy training during latest academic year | 29 | | 29 | 29 | | |
| | (l) Number of all faculty (irrespective of specialization) that have attended both the Basic and Advanced Modules of pedagogy training during latest academic year | 20 | | 20 | 20 | | |
| | (m) Number of faculty appraised by students during latest academic year | 201 | | 201 | 201 | | |

## Data Audit Form (05)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 5 | *Information in respect to Accreditation of Program* | | | | | | |
| | (a) Number of UG programs accredited | 11 | 2014-15 | 11 | 11 | Data audited satisfactory | |
| | (b) Number of UG programs for which accreditation applied for | 1 | | 1 | 1 | | |
| | (c) Number of PG programs accredited | 4 | | 4 | 4 | | |
| | (d) Number of PG programs for which accreditation applied for | 4 | | 4 | 4 | | |

## Data Audit Form (06)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|
| 6 | *Information in respect to research and patents* | | | | | | |
| | (a) Number of research publications in Indian refereed journals during the latest academic year | 20 | 2014-15 | 20 | 20 | Data audited satisfactory | |
| | (b) Number of research publications in International refereed journals during the latest academic year | 162 | | 162 | 162 | | |
| | (c) Number of research publications (Journal) co-authored with faculty/ researchers/ industry experts from outside the institution | 52 | | 52 | 52 | | |
| | (d) Number of patents in engineering related areas obtained during the latest academic year | 4 | | 4 | 4 | | |
| | (e) Number of patents in engineering related areas filed during the latest academic year | 21 | | 21 | 21 | | |
| | (f) Number of sponsored research project completed during the latest academic year | 2 | | 2 | 2 | | |
| | (g) Number of MOUs signed for collaborative programs with Indian industry and R&D organizations | 13 | | 13 | 13 | | |
| | (h) Number of MOUs signed for collaborative programs with International academic institutions and R&D organizations | 1 | | 1 | 1 | | |

84 155

## Data Audit Form (07)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 7 | *Information in respect to Finances* | | | | | | |
| | (a) Amount received as Block Grant during the latest academic year (Rs. In Lakhs) | 0 | 2014-15 | 0 | 0 | Data audited satisfactory | |
| | (b) IRG from students' tuition fee and other charges during the latest academic year (Rs. In Lakhs) | 4396.8 | | 4396.8 | 4396.8 | | |
| | (c) IRG from externally funded R&D projects and consultancies during the latest academic year (Rs. In Lakhs) | 22.82 | | 22.82 | 22.82 | | |
| | (d) Total IRG during the latest academic year (Rs. in Lakhs) | 5809.07 | | 5809.07 | 5809.07 | | |
| | (e) Total annual recurring expenditure during the latest academic year (Rs. In Lakhs) | 5426.01 | | 5426.01 | 5426.01 | | |
| | (f) Amount available in Corpus Fund on March 31, | Rs.307380 | | Rs.307380 | Rs.307380 | | |
| | (g) Amount available in Faculty Development Fund on March 31, | Rs.564972 | | Rs.564972 | Rs.564972 | | |
| | (h) Amount available in Equipment Replacement Fund on March 31, | Rs.303034 | | Rs.303034 | Rs.303034 | | |
| | (i) Amount available in Maintenance Fund on March 31, | Rs.303034 | | Rs.303034 | Rs.303034 | | |

## Data Audit Form (08)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 8 | *With respect to Institutional Governance/ Management* | | | | | | |
| | (a) Number of BoG meeting held during the latest academic year (with minutes on the web) | 3 | 2014-15 | 3 | 3 | Data audited satisfactory | |
| | (b) Number of institutional functionaries (Deans, HoDs, senior faculty and senior officials) that have undergone Management Capacity Enhancement training | 19 | | 19 | 19 | | |

Date: 18, 19, and 20/08/2016

TO,
**State project coordinator / Officer on special duty**
**SPFU, Karnataka,**
**Office of the directorate of Technical Education,**
**4th floor, Palace Road, Bangalore -560001**

Dear Sir,

**Sub: Submission of Data Audit Report of TEQIP Phase –II in respect of B M S College of Engineering, Bangalore -560019**

With reference to the above cited subject, data audit of TEQIP phase-II in respect of BMS College of Engineering, Bangalore -560019 (2014-15,2015-16 and review of previous years audit) was arranged on 18th to 20th of August 2016. The data audit reports of respective academic years along with the review report are enclosed herewith for your kind consideration.

Thanking you

(B M Rudresh)
Data Auditor
BMS College of Engineering
TEQIP Phase –II (2011-12, 2012-13, 2013-14, 2014-15, 2015-16)
Bangalore -560019

# Technical Education Quality Improvement Programme : Phase II

## INFORMATION VERIFICATION THROUGH DATA-AUDIT for the year 2015-16

**Name of the Data Auditor: B M Rudresh**

**Name of the Institution and Location: B M S College of Engineering, Bangalore -560019**

**Date of data Audit : 18,19,20/08/2016**

**Data Audit Form (01)**

| No | Particulars | 2010-11 | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|---|
| 1 | *Information in respect to Bachelors programs in engineering/technology* | | | 2015-16 | | | The data submitted during data audit were verified as per the availability of the records in the TEQIP cell of the college and were found matching with MIS report and college data source. | |
| | (a) Number of UG programs conducted during latest academic year | 12 | 12 | | 12 | 12 | | |
| | (b) Total number of UG students during latest academic year | 3660 | 4532 | | 4532 | 4532 | | |
| | (c) Total number of women students in UG programs during latest academic year | 918 | 1259 | | 1259 | 1259 | | |
| | (d) Total number of SC students in UG programs during latest academic year | 347 | 371 | | 371 | 371 | | |
| | (e) Total number of ST students in UG programs during latest academic year | 55 | 65 | | 65 | 65 | | |
| | (f) Total number of OBC students in UG programs during latest academic year | 445 | 1121 | | 1121 | 1121 | | |
| | (g) Percentage of final year UG students during latest academic year placed through campus interviews | 87 | 80 | | 80 | 80 | | |
| | (h) Percentage of final year UG students during latest that passed out with 75%or more aggregate marks | 80 | 83 | | 83.12 | 83.12 | | |
| | (i) Percentage of all 1year students [as at 1(b)] during latest that passed all courses fully and successfully got admitted to 2 year in the current academic year | 67 | 64 | | 63 | 63 | | |
| | (j) Percentage of 1year women students [as at 1(c)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic | 86 | 89 | | 89 | 89 | | |
| | (k) Percentage of 1 year SC students [as at 1(d)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 63 | 50 | | 50 | 50 | | |
| | (l) Percentage of 1year ST students [as at 1(e)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 64 | 61 | | 61 | 61 | | |
| | m) Percentage of 1year OBC students [as at 1(f)] during latest that passed all courses fully and successfully got admitted to 2year in the current academic year | 85 | 85 | | 85 | 85 | | |



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**Data Audit Form (02)**

| No | Particulars | 2010-11 | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|---|
| 2 | *Information in respect to Masters programs in engineering/technology* | | | | | | | |
| | (a) Number of full-time masters programs during latest academic year | 8 | 13 | 2015-16 | 13 | 13 | Data audited satisfactory | |
| | (b) Number of part-time and sandwich (Joint) Masters programs during latest academic year | 1 | 1 | | 1 | 1 | | |
| | (c) Total number of students enrolled for all Masters programs during latest academic year | 144 | 234 | | 234 | 234 | | |
| | (d) Number of faculty in-house enrolled for Masters programs during latest academic year | 0 | 0 | | 0 | 0 | | |
| | (e) Number of students enrolled for all Masters programs during latest academic year with scholarship | 32 | 102 | | 102 | 102 | | |
| | (f) Number of students enrolled for all Masters programs during latest academic year with TEQIP assistantship | 0 | 116 | | 116 | 116 | | |
| | (g) Total number of women students in all Masters programs during latest academic year | 54 | 82 | | 82 | 82 | | |
| | (b) Total number of SC students in all Masters programs during latest academic year | 20 | 31 | | 31 | 31 | | |
| | (i) Total number of ST students in all Masters programs during latest academic year | 2 | 4 | | 4 | 4 | | |
| | (j) Total number of OBC students in all Masters programs during latest academic year | 28 | 44 | | 44 | 44 | | |
| | (k) Percentage of final year Masters students during latest academic year placed through campus interviews | 51.19 | 58 | | 58 | 58 | | |
| | (l) Percentage of final year Masters students during latest that passed out with 75% or more aggregate marks | 71 | Progress | | Progress | | | |

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| Data Audit Form (03) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Particulars | 2010-11 | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
| 3 | *Information in respect to Doctoral programs* | | | | | | | |
| | (a) Number of Doctoral candidates on roll up to March 31, | 15 | 58 | 2015-16 | 58 | 58 | Data audited satisfactory | |
| | (b) Number of in-house faculty enrolled for Doctoral programs during latest academic year | 5 | 0 | | 0 | 0 | | |
| | (c) Number of students enrolled for Doctoral programs during latest academic year with scholarship | 0 | 0 | | 0 | 0 | | |
| | (d) Number of students enrolled for Doctoral programs during latest academic year with TEQIP assistantship | 0 | 29 | | 29 | 29 | | |

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**Data Audit Form (04)**

| No | Particulars | 2010-11 | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|---|
| 4 | ***Information in respect to Faculty*** | | | | | | | |
| | (a) Total number of regular full-time faculty excluding adjunct and emeritus faculty during latest academic year(Excluding AT) | 220 | 314 | 2015-16 | 314 | 314 | Data audited satisfactory | |
| | (b) Total number of regular full-time faculty in engineering disciplines excluding adjunct and emeritus faculty during latest academic year | 199 | 273 | | 273 | 273 | | |
| | (c) Number of regular full-time faculty in engineering disciplines with Master's degree as their highest qualification excluding adjunct and emeritus faculty during | 152 | 163 | | 163 | 163 | | |
| | (d) Number of regular full-time faculty in engineering disciplines with Doctoral degree as their highest qualification excluding adjunct and emeritus faculty during latest academic year | 50 | 110 | | 110 | 110 | | |
| | (e) Number of regular full-time faculty in engineering disciplines with Bachelor's degree as their highest qualification faculty during latest academic year | 6 | 0 | | 0 | 0 | | |
| | (f) Number of faculty with Bachelor's degree which are enrolled in-house for Masters programs in parent institution during academic year latest:<br>(i) Engineering Teachers (ii) Applied Scienec Teachers and (iii) others | 0 | 0 | | 0 | 0 | | |
| | (g) Number of faculty with Bachelor's degree which are enrolled in-house for Masters programs at other institutions during academic year latest: | (i) 3 | 0 | | 0 | 0 | | |
| | (h) Number of faculty with Master's degree which are enrolled in-house for Ph.D programs in parent institution during academic year latest:<br>(i) Engineering Teachers (ii) Applied Scienec Teachers and (iii) others | (i) 5 | 0 | | 0 | 0 | | |
| | (i) Number of faculty with Masters degree which are enrolled in-house for PhD programs at other institutions during academic year latest:<br>(i) Engineering Teachers<br>(ii) Applied Scienec Teachers<br>(iii) others | (i) 9<br>(ii) 2<br>-- | (i) 1<br>(ii) 1<br>-- | | (i) 1<br>(ii) 1<br>-- | (i) 1<br>(ii) 1<br>-- | | |
| | (j) Number of faculty that have attended a professional training program of 5 or more days duration during latest academic year | 42 | 64 | | 64 | 64 | | |
| | (k) Number of all faculty (irrespective of specialization) that have attended the Basic Module of pedagogy training during latest academic year | 0 | 40 | | 40 | 40 | | |
| | (l) Number of all faculty (irrespective of specialization) that have attended both the Basic and Advanced Modules of pedagogy training during latest academic year | 0 | 32 | | 32 | 32 | | |
| | (m) Number of faculty appraised by students during latest academic year | 200 | 245 | | 245 | 245 | | |



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## Data Audit Form (05)

| No | Particulars | 2010-11 | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|---|
| 5 | *Information in respect to Accreditation of Program* | | | | | | | |
| | (a) Number of UG programs accredited | 9 | 11 | | 11 | 11 | Data audited satisfactory | |
| | (b) Number of UG programs for which accreditation applied for | 0 | 1 | | 1 | 1 | | |
| | (c) Number of PG programs accredited | 2 | 0 | | 0 | 0 | | |
| | (d) Number of PG programs for which accreditation applied for | 0 | 9 | | 9 | 9 | | |

## Data Audit Form (06)

| No | Particulars | 2010-11 | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|---|
| 6 | *Information in respect to research and patents* | | | | | | | |
| | (a) Number of research publications in Indian refereed journals during the latest academic year | 27 | 15 | 2015-16 | 15 | 15 | Data audited satisfactory | |
| | (b) Number of research publications in International refereed journals during the latest academic year | 40 | 214 | | 214 | 214 | | |
| | (c) Number of research publications (Journal) co-authored with faculty/ researchers/ industry experts from outside the institution | 20 | 66 | | 66 | 66 | | |
| | (d) Number of patents in engineering related areas obtained during the latest academic year | 0 | 0 | | 0 | 0 | | |
| | (e) Number of patents in engineering related areas filed during the latest academic year | 0 | 10 | | 10 | 10 | | |
| | (f) Number of sponsored research project completed during the latest academic year | 3 | 2 | | 2 | 2 | | |
| | (g) Number of MOUs signed for collaborative programs with Indian industry and R&D organizations | 2 | 6 | | 6 | 6 | | |
| | (h) Number of MOUs signed for collaborative programs with International academic institutions and R&D organizations | 1 | 2 | | 2 | 2 | | |

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**Data Audit Form (07)**

| No | Particulars | 2010-11 | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|---|
| 7 | ***Information in respect to Finances*** | | | | | | | |
| | (a) Amount received as Block Grant during the latest academic year (Rs. In Lakhs) | 0 | 0 | 2015-16 | 0 | 0 | Data audited satisfactory | |
| | (b) IRG from students' tuition fee and other charges during the latest academic year (Rs. In Lakhs) | 1436.804 | 5001.347 | | 5001.347 | 5001.347 | | |
| | (c) IRG from externally funded R&D projects and consultancies during the latest academic year (Rs. In Lakhs) | 46.2 | 147.82 | | 147.82 | 147.82 | | |
| | (d) Total IRG during the latest academic year (Rs. in Lakhs) | 2190.66 | 655.88 | | 655.88 | 655.88 | | |
| | (e) Total annual recurring expenditure during the latest academic year (Rs. In Lakhs) | 2742 | 626.22 | | 626.22 | 626.22 | | |
| | (f) Amount available in Corpus Fund on March 31, | Rs. 25,000,00 | Rs.13,308,773 | | Rs.13,308,773 | Rs.13,308,773 | | |
| | (g) Amount available in Faculty Development Fund on March 31, | Rs. 25,000,00 | Rs.13,191,132 | | Rs.13,191,132 | Rs.13,191,132 | | |
| | (h) Amount available in Equipment Replacement Fund on March 31, | Rs. 25,000,00 | Rs.13,191,132 | | Rs.13,191,132 | Rs.13,191,132 | | |
| | (i) Amount available in Maintenance Fund on March 31, | Rs. 25,000,00 | Rs.13,234,162 | | Rs.13,234,162 | Rs.13,234,162 | | |

**Data Audit Form (08)**

| No | Particulars | | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|---|
| 8 | ***With respect to Institutional Governance/ Management*** | | | | | | | |
| | (a) Number of BoG meeting held during the latest academic year (with minutes on the web) | 4 | 3 | 2015-16 | 3 | 3 | Data audited satisfactory | |
| | (b) Number of institutional functionaries (Deans, HoDs, senior faculty and senior officials) that have undergone Management Capacity Enhancement training | 0 | 37 | | 37 | 37 | | |

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Date: 18, 19, and 20/08/2016

TO,
**State project coordinator / Officer on special duty**
**SPFU, Karnataka,**
**Office of the directorate of Technical Education,**
**4th floor, Palace Road, Bangalore -560001**

Dear Sir,

**Sub: Submission of Data Audit Report of TEQIP Phase –II in respect of B M S College of Engineering, Bangalore -560019**

With reference to the above cited subject, data audit of TEQIP phase-II **Centre of excellence in advanced materials research (1.2.1)** in respect of BMS College of Engineering, Bangalore -560019 (2014-15,2015-16 and review of previous years audit) was arranged on 18th to 20th of August 2016. The data audit reports of respective academic years along with the review report are enclosed herewith for your kind consideration.

Thanking you

(B M Rudresh)
Data Auditor
BMS College of Engineering
TEQIP Phase –II (2011-12, 2012-13, 2013-14, 2014-15, 2015-16)
Bangalore -560019

# Technical Education Quality Improvement Programme : Phase II

## INFORMATION VERIFICATION THROUGH DATA-AUDIT for the year 2014-15

## Centre of Excellence : Advanced Material Research

**Name of the Data Auditor: B M Rudresh**

**Date of data Audit : 17,18,19/08/2014**

**Name of Institution and Location: B M S College of Engineering, Bangalore -560019**

**Data Audit Form (01)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 1 | *Information in respect to Bachelors programs in engineering/technology* | *Not applicable* | | | | | |

**Data Audit Form (02)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 2 | *Information in respect to Masters programs in engineering/technology* | | 2014-15 | | | Dta audited satisfactroy | |
| | (a) Number of full-time masters programs during latest academic year | 1 | | 1 | 1 | | |
| | (b) Number of part-time and sandwich (Joint) Masters programs during latest academic year | 0 | | 0 | 0 | | |
| | (c) Total number of students enrolled for all Masters programs during latest academic year | 21 | | 21 | 21 | | |
| | (d) Number of faculty in-house enrolled for Masters programs during latest academic year | 0 | | 0 | 0 | | |
| | (e) Number of students enrolled for all Masters programs during latest academic year with scholarship | Not applicable | | Not applicable | | | |
| | (f) Number of students enrolled for all Masters programs during latest academic year with TEQIP assistantship | 17 | | 17 | 17 | | |
| | (g) Total number of women students in all Masters programs during latest academic year | 2 | | 2 | 2 | | |
| | (h) Total number of SC students in all Masters programs during latest academic year | 2 | | 2 | 2 | | |
| | (i) Total number of ST students in all Masters programs during latest academic year | 0 | | 0 | 0 | | |
| | (j) Total number of OBC students in all Masters programs during latest academic year | 5 | | 5 | 5 | | |
| | (k) Percentage of final year Masters students during latest academic year placed through campus interviews | Progress | | Progress | | | |
| | (l) Percentage of final year Masters students during latest that passed out with 75% or more aggregate marks | Progress | | Progress | | | |

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| Data Audit Form (03) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No** | **Particulars** | **Figure Reported in MIS** | **Year** | **Verified Figure** | **Institutional source data** | **Remarks regarding data audited** | **Comment** |
| 3 | ***Information in respect to Doctoral programs*** | | | | | | |
| | (a) Number of Doctoral candidates on roll up to March 31, | 0 | 2014-15 | 0 | 0 | Data audited satisfactory | |
| | (b) Number of in-house faculty enrolled for Doctoral programs during latest academic year | 0 | | 0 | 0 | | |
| | (c) Number of students enrolled for Doctoral programs during latest academic year with scholarship | Not applicable | | Not applicable | Not applicable | | |
| | (d) Number of students enrolled for Doctoral programs during latest academic year with TEQIP assistantship | 0 | | 0 | 0 | | |

| Data Audit Form (04) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No** | **Particulars** | **Figure Reported in MIS** | **Year** | **Verified Figure** | **Institutional source data** | **Remarks regarding data audited** | **Comment** |
| 4 | ***Information in respect to Faculty*** | Not applicable | | | | | |

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**Data Audit Form (05)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 5 | *Information in respect to Accreditation of Program* | | | | | | |
| | (b) Number of UG programs for which accreditation applied for | 0 | 2014-15 | 0 | 0 | Data audited satisfactory | |
| | (c) Number of PG programs accredited | 0 | | 0 | 0 | | |
| | (d) Number of PG programs for which accreditation applied for | 0 | | 0 | 0 | | |

**Data Audit Form (06)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|
| 6 | *Information in respect to research and patents* | | | | | | |
| | (a) Number of research publications in Indian refereed journals during the latest academic year | 0 | 2014-15 | 0 | 0 | Data audited satisfactory | |
| | (b) Number of research publications in International refereed journals during the latest academic year | 8 | | 8 | 8 | | |
| | (c) Number of research publications (Journal) co-authored with faculty/ researchers/ industry experts from outside the institution | 8 | | 8 | 8 | | |
| | (d) Number of patents in engineering related areas obtained during the latest academic year | 0 | | 0 | 0 | | |
| | (e) Number of patents in engineering related areas filed during the latest academic year | 0 | | 0 | 0 | | |
| | (f) Number of sponsored research project completed during the latest academic year | 0 | | 0 | 0 | | |
| | (g) Number of MOUs signed for collaborative programs with Indian industry and R&D organizations | 0 | | 0 | 0 | | |
| | (h) Number of MOUs signed for collaborative programs with International academic institutions and R&D organizations | 0 | | 0 | 0 | | |

96

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| Data Audit Form (07) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No** | **Particulars** | **Figure Reported in MIS** | **Year** | **Verified Figure** | **Institutional source data** | **Remarks regarding data** | **Comment** |
| 7 | ***Information in respect to Finances*** | | | | | | |
| | Procurement of goods (equipment, furniture, books, LRs, software and minor items) and civil works for improvement in research and development facilities ( Rs.in lakhs ) | 1321.18 | 2014-15 | 1321.18 | 1321.18 | Data audited satisfactory | |
| | Provide Teaching and Research Assistantships for enrolment in Masters and Doctoral programmes in topics linked to economic or societal needs in the | 6.8 | | 6.8 | 6.8 | | |
| | Collabration with industry for applicable research and product development ( Rs.in lakhs ) | 0.23 | | 0.23 | 0.23 | | |
| | National / International collabration for Research and Development activities with Academic Institutions and R & D organisations ( Rs.in lakhs ) | 3.94 | | 3.94 | 3.94 | | |
| | Enhancing research competence of faculty and knowledge sharing in thematic areas, both within India and abroad (Rs.in lakhs ) | 1.98 | | 1.98 | 1.98 | | |
| | Incremental operating cost ( Rs.in lakhs ) | 12.29 | | 12.29 | 12.29 | | |

| Data Audit Form (08) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No** | **Particulars** | **Figure Reported in MIS** | **Year** | **Verified Figure** | **Institutional source data** | **Remarks regarding data audited** | **Comment** |
| 8 | ***With respect to Institutional Governance/ Management*** | | | | | | |
| | (a) Number of BoG meeting held during the latest academic year (with minutes on the web) | Not applicable | 2014-15 | Not appllicable | | Data audited satisfactory | |
| | (b) Number of institutional functionaries (Deans, HoDs, senior faculty and senior officials) that have undergone Management Capacity Enhancement training | 0 | | 0 | 0 | | |

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Date: 18, 19, and 20/08/2016

TO,
**State project coordinator / Officer on special duty**
**SPFU, Karnataka,**
**Office of the directorate of Technical Education,**
**4th floor, Palace Road, Bangalore -560001**

Dear Sir,

**Sub: Submission of Data Audit Report of TEQIP Phase –II in respect of B M S College of Engineering, Bangalore -560019**

With reference to the above cited subject, data audit of TEQIP phase-II **Centre of excellence in advanced materials research (1.2.1)** in respect of BMS College of Engineering, Bangalore - 560019 (2014-15,2015-16 and review of previous years audit) was arranged on 18th to 20th of August 2016. The data audit reports of respective academic years along with the review report are enclosed herewith for your kind consideration.

Thanking you

(B M Rudresh)
Data Auditor
BMS College of Engineering
TEQIP Phase –II (2011-12, 2012-13, 2013-14, 2014-15, 2015-16)
Bangalore -560019

# Technical Education Quality Improvement Programme : Phase II

## INFORMATION VERIFICATION THROUGH DATA-AUDIT for the year 2015-16

## Centre of Excellence : Advanced Material Research

**Name of the Data Auditor: B M Rudresh**

**Name of Institution and Location: B M S College of Engineering, Bangalore -560019**

**Date of data Audit : 17,18,19/08/2014**

**Data Audit Form (01)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 1 | *Information in respect to Bachelors programs in engineering/technology* | *Not applicable* | | | | | |

**Data Audit Form (02)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 2 | *Information in respect to Masters programs in engineering/technology* | | 2015-16 | | | Data audited satisfactory | |
| | (a) Number of full-time masters programs during latest academic year | 1 | | 1 | 1 | | |
| | (b) Number of part-time and sandwich (Joint) Masters programs during latest academic year | 0 | | 0 | 0 | | |
| | (c) Total number of students enrolled for all Masters programs during latest academic year | 23 | | 23 | 23 | | |
| | (d) Number of faculty in-house enrolled for Masters programs during latest academic year | 0 | | 0 | 0 | | |
| | (e) Number of students enrolled for all Masters programs during latest academic year with scholarship | Not applicable | | Not applicable | | | |
| | (f) Number of students enrolled for all Masters programs during latest academic year with TEQIP assistantship | 33 | | 33 | 33 | | |
| | (g) Total number of women students in all Masters programs during latest academic year | 1 | | 1 | 1 | | |
| | (h) Total number of SC students in all Masters programs during latest academic year | 4 | | 4 | 4 | | |
| | (i) Total number of ST students in all Masters programs during latest academic year | 0 | | 0 | 0 | | |
| | (j) Total number of OBC students in all Masters programs during latest academic year | 5 | | 5 | 5 | | |
| | (k) Percentage of final year Masters students during latest academic year placed through campus interviews | Progress | | Progress | | | |
| | (l) Percentage of final year Masters students during latest that passed out with 75% or more aggregate marks | Progress | | Progress | | | |

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**Data Audit Form (03)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 3 | *Information in respect to Doctoral programs* | | | | | | |
| | (a) Number of Doctoral candidates on roll up to March 31, | 4 | 2015-16 | 4 | 4 | Data audited satisfactory | |
| | (b) Number of in-house faculty enrolled for Doctoral programs during latest academic year | 0 | | 0 | 0 | | |
| | (c) Number of students enrolled for Doctoral programs during latest academic year with scholarship | Not applicable | | Not applicable | Not applicable | | |
| | (d) Number of students enrolled for Doctoral programs during latest academic year with TEQIP assistantship | 4 | | 4 | 4 | | |

**Data Audit Form (04)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 4 | *Information in respect to Faculty* | Not applicable | | | | | |

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## Data Audit Form (05)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 5 | *Information in respect to Accreditation of Program* | | | | | | |
| | (b) Number of UG programs for which accreditation applied for | 0 | 2015-16 | 0 | 0 | Data audited satisfactory | |
| | (c) Number of PG programs accredited | 0 | | 0 | 0 | | |
| | (d) Number of PG programs for which accreditation applied for | 0 | | 0 | 0 | | |

## Data Audit Form (06)

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|
| 6 | *Information in respect to research and patents* | | | | | | |
| | (a) Number of research publications in Indian refereed journals during the latest academic year | 0 | 2015-16 | 0 | 0 | Data audited satisfactory | |
| | (b) Number of research publications in International refereed journals during the latest academic year | 10 | | 10 | 10 | | |
| | (c) Number of research publications (Journal) co-authored with faculty/ researchers/ industry experts from outside the institution | 10 | | 10 | 10 | | |
| | (d) Number of patents in engineering related areas obtained during the latest academic year | 0 | | 0 | 0 | | |
| | (e) Number of patents in engineering related areas filed during the latest academic year | 0 | | 0 | 0 | | |
| | (f) Number of sponsored research project completed during the latest academic year | 0 | | 0 | 0 | | |
| | (g) Number of MOUs signed for collaborative programs with Indian industry and R&D organizations | 0 | | 0 | 0 | | |
| | (h) Number of MOUs signed for collaborative programs with International academic institutions and R&D organizations | 0 | | 0 | 0 | | |

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**Data Audit Form (07)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data | Comment |
|---|---|---|---|---|---|---|---|
| 7 | ***Information in respect to Finances*** | | | | | | |
| | Procurement of goods (equipment, furniture, books, LRs, software and minor items) and civil works for improvement in research and development facilities ( Rs.in lakhs ) | 310.21 | 2015-16 | 310.21 | 310.21 | Data audited satisfactory | |
| | Provide Teaching and Research Assistantships for enrolment in Masters and Doctoral programmes in topics linked to economic or societal needs in the | 43.24 | | 43.24 | 43.24 | | |
| | Collabration with industry for applicable research and product development ( Rs.in lakhs ) | 0.96 | | 0.96 | 0.96 | | |
| | National / International collabration for Research and Development activities with Academic Institutions and R & D organisations ( Rs.in lakhs ) | 7.09 | | 7.09 | 7.09 | | |
| | Enhancing research competence of faculty and knowledge sharing in thematic areas, both within India and abroad (Rs.in lakhs ) | 15.34 | | 15.34 | 15.34 | | |
| | Incremental operating cost ( Rs.in lakhs ) | 31.2. | | 31.20 | 31.20 | | |

**Data Audit Form (08)**

| No | Particulars | Figure Reported in MIS | Year | Verified Figure | Institutional source data | Remarks regarding data audited | Comment |
|---|---|---|---|---|---|---|---|
| 8 | ***With respect to Institutional Governance/ Management*** | | | | | | |
| | (a) Number of BoG meeting held during the latest academic year (with minutes on the web) | Not applicable | 2015-16 | Not appllicable | | Data audited satisfactory | |
| | (b) Number of institutional functionaries (Deans, HoDs, senior faculty and senior officials) that have undergone Management Capacity Enhancement training | 0 | | 0 | 0 | | |

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Annexure -5

**B.N. JAYARAM,** B.Sc., F.C.A
*CHARTERED ACCOUNTANT*

# 308, 1st Floor,
10th Cross, Wilson Garden,
Bangalore - 560 027
Phone (O) : 080-22277420
(M) : 9341227875
Email : bnjayaram@gmail.com

## AUDITOR'S REPORT

I have audited the accompanying financial statements of **B.M.S COLLEGE OF ENGINEERING, TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAM : PHASE –II(TEQIP-II)** which comprises of the Balance Sheet as at 31st March 2016, and the Income and Expenditure Account for the year ended on that date.

Management of the Organisation is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

My responsibility is to express an opinion on these financial statements based on my audit. I conducted the audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that I comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as Ill as evaluating the overall presentation of the financial statements.

I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my audit opinion.

In my opinion and to the best of my information and according to the explanations given to me, the said Balance Sheet and Income & Expenditure Account, give the information in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India.

a. In the case of the Balance Sheet of the state of affairs of the Organisation as at March 31, 2016.

b. In the case of Income & Expenditure Account, of the Excess of expenditure over income for the year ended on that date.

B.N Jayaram
Chartered Accountant
M.No.200262

B.N. JAYARAM ★ BANGALORE ★ CHARTERED ACCOUNTANT

Place : Bangalore
Date : 18-06-2016

**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME: PHASE-II(TEQIP-II)**

**BALANCE SHEET AS AT 31st MARCH 2016**

(Amount in Rupees)

| AS ON 31.03.2015 | LIABILITIES | | AS ON 31.03.2016 | AS ON 31.03.2015 | ASSETS | AS ON 31.03.2016 |
|---|---|---|---|---|---|---|
| (Rs) | | (Rs) | (Rs) | (Rs) | | (Rs) |
| | Op.balance of Grants received from SPFU | 35,841,614.00 | | 45,264,462.00 | Fixed Assets[Schedule-I] | 56,175,968.00 |
| | Add: Grants received from SPFU during the year | 35,000,000.00 | | | | |
| | TOTAL | 70,841,614.00 | | 14,232,141.00 | Funds as Fixed Deposit[Schedule-III] | 52,764,527.00 |
| 35,841,614.00 | Less: Excess of Expenditure over Income | 11,728,645.00 | 59,112,969.00 | 973,103.00 | Funds as Savings Bank A/c[Schedule IV] | 1,189,546.00 |
| 15,205,244.00 | Funds[Schedule-II] | | 53,954,073.00 | | | |
| | Current Liabilities | | | | Current Assets: | |
| 11,253.00 | Tax Deducted at Source | | 6,214.50 | 1,000.00 | BMSCE TEQIP-COE | 1,000.00 |
| 10,086,856.00 | BMS Educational Trust | | 140,989.00 | | General Advances | 20,000.00 |
| 123,562.00 | BMSCE | | 123,562.00 | | | |
| | | | | 797,823.00 | Allahabad Bank SB A/c No. 50092591605 | 3,186,766.50 |
| 61,268,529.00 | TOTAL | | 113,337,807.50 | 61,268,529.00 | TOTAL | 113,337,807.50 |

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NODAL OFFICER[FINANCE ASPECTS]

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

Place: Bangalore
Date : 18.06.2016

As per my report of even date

B. N. Jayaram

B.N. JAYARAM
CHARTERED ACCOUNTANT
BANGALORE

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**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-PHASE-II(TEQIP-II)

**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDING 31st MARCH 2016**

(Amount In Rupees)

| PREVIOUS YEAR (Rs) | EXPENDITURE | (Rs) | CURRENT YEAR (Rs) | PREVIOUS YEAR (Rs) | INCOME | CURRENT YEAR (Rs) |
|---|---|---|---|---|---|---|
| 15,276,000.00 | Assistantship | | 2,285,200.00 | 449,706.00 | Interest | 299,087.00 |
| 5,031,311.00 | Faculty & Staff Development | | 1,474,669.00 | 22,500.00 | Bid Application fee | |
| 2,550,149.00 | R & D | | 2,962,675.00 | | | |
| 237,794.00 | Capacity Development | | 397,403.00 | 30,384,227.00 | Excess of Expenditure over Income for the year transferred to Balance Sheet | 11,728,645.00 |
| 1,996,165.00 | IIIC | | 1,429,925.00 | | | |
| 686,479.00 | Reforms | | 412,104.00 | | | |
| 220,729.00 | Student Support | | 756,322.00 | | | |
| | Incremental Operating Cost: | | | | | |
| | Consumables | 137,793.00 | | | | |
| | Operation & Maintenance | 1,240,090.00 | | | | |
| | Salaries | 774,584.00 | | | | |
| 4,853,476.00 | Workshop etc | 160,084.00 | 2,312,551.00 | | | |
| 4,330.00 | Bank Charges | | (3,117.00) | | | |
| **30,856,433.00** | TOTAL | | **12,027,732.00** | **30,856,433.00** | TOTAL | **12,027,732.00** |

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Place: Bangalore
Date :18.06.2016

NODAL OFFICER[FINANCE ASPECTS]

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

**As per my report of even date**

B. N. Jayaram

B.N. JAYARAM
BANGALORE
CHARTERED ACCOUNTANT

105

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## B.M.S. COLLEGE OF ENGINEERING,BENGALURU-560 019

### TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME :Phase-II(TEQIP-II)

### RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDING 31st MARCH 2016

(Amount in Rupees)

| PREVIOUS YEAR (Rs) | RECEIPTS | CURRENT YEAR (Rs) | PREVIOUS YEAR (Rs) | PAYMENTS | (Rs) | CURRENT YEAR (Rs) |
|---|---|---|---|---|---|---|
| 2,331,192.00 | Opening Bank Balance | 797,823.00 | 21,525,617.00 | Procurement-Equipment | | 9,723,581.00 |
| 10,082,061.00 | BMS Educational Trust | 7,054,133.00 | 2,648,974.00 | Procurement- Books & LRs | | 1,187,925.00 |
| 3,288.00 | BMSCE | 1,000,000.00 | 15,276,000.00 | Assistantship | | 2,285,200.00 |
| 1,602,503.00 | BMSCE TEQIP COE | - | 5,031,311.00 | Faculty & Staff Development | | 1,474,669.00 |
| 20,000,000.00 | Grants received from SPFU | 35,000,000.00 | 2,550,149.00 | R & D | | 2,962,675.00 |
| 449,706.00 | Interest | 299,087.00 | 220,729.00 | Student Support | | 756,322.00 |
| 22,500.00 | Bid application fee | - | 1,996,165.00 | IIIC | | 1,429,925.00 |
| 11,253.00 | Tax Deducted at Source | 269,273.50 | 237,794.00 | Capacity Development | | 397,403.00 |
| 20,000,000.00 | Fixed Deposit | - | 686,479.00 | Reforms | | 412,104.00 |
| 1,329,059.00 | General Advances | - | | Incremental Operating Cost: | | |
| - | Bank Charges | 7,198.00 | | Consumables | 137,793.00 | |
| | | | | Operation & Maintenance | 1,240,090.00 | |
| | | | | Salaries | 774,584.00 | |
| | | | 4,853,476.00 | Workshop etc | 160,084.00 | 2,312,551.00 |
| | | | - | BMS Educational Trust | | 17,000,000.00 |
| | | | | BMSCE | | 1,000,000.00 |
| | | | 4,330.00 | Bank Charges | | 4,081.00 |
| | | | - | General Advances | | 20,000.00 |
| | | | 2,715.00 | Tax Deducted at Source | | 274,312.00 |
| | | | 797,823.00 | By Closing Bank Balance SB A/c No.50092591605 | | 3,186,766.50 |
| **55,831,562.00** | **TOTAL** | **44,427,514.50** | **55,831,562.00** | **TOTAL** | | **44,427,514.50** |

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NODAL OFFICER[FINANCE ASPECTS]

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

Place: Bangalore
Date :18.06.2016

B. N. Jayaram

B.N. JAYARAM
BANGALORE
CHARTERED ACCOUNTANT

**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-19**

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME: Phase -II(TEQIP-II)**

**SCHEDULE-I**
**Fixed Assets**

(Amount in Rupees)

| Particulars | Gross Block as on 01.04.2015 * | Additions | Deletions | Gross Block as on 31.03.2016 |
|---|---|---|---|---|
| Books & LRs | 14,800,605.00 | 1,187,925.00 | 0 | 15,988,530.00 |
| Equipment | 30,463,857.00 | 9,723,581.00 | 0 | 40,187,438.00 |
| **TOTAL** | **45,264,462.00** | **10,911,506.00** | **0.00** | **56,175,968.00** |

* Note: Additons made during 2014-15 wrongly classified have been rectified.

**SCHEDULE-II**
**FUNDS**

| Particulars | As on 31.3.2016 |
|---|---|
| Corpus Fund | 13,308,773.00 |
| Depreciation Renewal Fund | 1,178.00 |
| Equipment Replacement Fund | 13,191,132.00 |
| Faculty Development Fund | 13,191,132.00 |
| Maintenance Fund | 13,234,167.00 |
| Staff Development Fund | 1,027,691.00 |
| **TOTAL** | **53,954,073.00** |

**SCHEDULE-III**
**FUNDS- FIXED DEPOSITS**

| Particulars | As on 31.3.2016 |
|---|---|
| Corpus Fund | 13,191,131.00 |
| Equipment Replacement Fund | 13,191,132.00 |
| Faculty Development Fund | 13,191,132.00 |
| Maintenance Fund | 13,191,132.00 |
| **TOTAL** | **52,764,527.00** |

**SCHEDULE-IV**
**FUNDS-SB accounts**

| Particulars | SB a/c No. at Allahabad Bank | Balance as on 31.3.16 |
|---|---|---|
| Staff Development Fund | 50092591117 | 1,027,691.00 |
| Corpus Fund | 50092589368 | 117,642.00 |
| Maintenance Fund | 50092573175 | 43,035.00 |
| Depreciation Renewal Fund | 50092587338 | 1,178.00 |
| **TOTAL** | | **1,189,546.00** |

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NODAL OFFICER[FINANCE ASPECTS]

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

Date:18.06.2016

B. N. Jayaram

B.N. JAYARAM ★ BANGALORE ★ CHARTERED ACCOUNTANT

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

**UTILIZATION CERTIFICATE**

| Sl. | Particulars | Amount in Rupees |
|---|---|---|
| a) | Opening Balance as on 1st April 2015 | (94,15,650.00) |
| b) | Funds Received from SPFU Vide letter Nos as follows :<br>No.DTE/TEQIP/FIN/CR/2015-16 dated 04.05.2015<br>No.DTE/TEQIP/FIN/CR-18/2015-16 dated 28.10.2015 | <br>2,00,00,000.00<br>1,50,00,000.00 |
| c) | Interest earned on grant available for TEQIP-II during the year | 2,99,087.00 |
| | **Total** | **2,58,83,437.00** |
| e) | Expenditure during the year | 2,29,42,355.00 |
| f) | **Unutilized amount as on 31st March 2016** | **29,41,082.00** |

Certified that out of **Rs. 3,50,00,000/-** of Grants-in aid sanctioned during the year 2015-16 in favor of the Principal, BMS College of Engineering, Bangalore-19 under Department letter / SPFU letters cited above, an amount of **Rs.2,99,087/-** (Rupees Two lakh Ninety Nine Thousand Eighty Seven Only)on account of interest earned during 15-16 and **Rs. 94,15,650/-** (Rupees Ninety Four Lakhs Fifteen Thousand Six Hundred and Fifty only) Spent in Excess during 2014-15, a sum of **Rs. 2,29,42,355/-** (Rupees Two Crores Twenty Nine Lakhs Forty Two Thousand Three Hundred and Fifty Five Only) has been utilized for the purpose of expenditure on TEQIP II activities for which it was sanctioned and that the balance of **Rs.29,41,082/-** (Rupees Twenty Nine Lakhs Forty One Thousand and Eighty Two Only) remaining unutilized at the end of the year will be adjusted towards the grants-in-aid payable during the next financial year 2016-17.

Certified that I have satisfied myself that the conditions on which the grant – in – aid was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised: Detailed accounts checked with reference to accounts books, payments, vouchers, cash book, journal, ledger.

Date:18.06.2016.

PRINCIPAL
B.M.S. College of Engineering
Bangalore - 560 019.

B. N. Jayaram

B.N. JAYARAM
BANGALORE
CHARTERED ACCOUNTANT

**B.N. JAYARAM,** B.Sc., F.C.A
*CHARTERED ACCOUNTANT*

# 308, 1st Floor,
10th Cross, Wilson Garden,
Bangalore - 560 027
Phone (O) : 080-22277420
(M) : 9341227875
Email : bnjayaram@gmail.com

## AUDITOR'S REPORT

I have audited the accompanying financial statements of B.M.S COLLEGE OF ENGINEERING, TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAM : PHASE –II CENTRE OF EXCELLENCE – ADVANCED MATERIALS RESEARCH which comprises of the Balance Sheet as at 31st March 2016, and the Income and Expenditure Account for the year ended on that date.

Management of the Organisation is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

My responsibility is to express an opinion on these financial statements based on my audit. I conducted the audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that I comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as Ill as evaluating the overall presentation of the financial statements.

I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my audit opinion.

In my opinion and to the best of my information and according to the explanations given to me, the said Balance Sheet and Income & Expenditure Account, give the information in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India.

a. In the case of the Balance Sheet of the state of affairs of the Organisation as at March 31, 2016.

b. In the case of Income & Expenditure Account, of the Excess of Income over expenditure for the year ended on that date.

B. N. Jayaram

Place : Bangalore
Date : 18-06-2016

B N Jayaram
Chartered Accountant
M.No.200262

B.N. JAYARAM ★ BANGALORE ★ CHARTERED ACCOUNTANT

**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME: PHASE-II**
**CENTRE OF EXCELLENCE - ADVANCED MATERIALS RESEARCH**

**BALANCE SHEET AS AT 31st MARCH 2016**

(Amount in Rupees)

| AS ON 31.03.2015 | LIABILITIES | | AS ON 31.03.2016 | AS ON 31.03.2015 | ASSETS | AS ON 31.03.2016 |
|---|---|---|---|---|---|---|
| | | (Rs) | (Rs) | | | (Rs) |
| | Opening Balance Grants received from SPFU | 32,737,518.00 | | 13,218,278.00 | Fixed Assets [Schedule-I] | 29,595,883.00 |
| 32,737,518.00 | Less: Excess of expenditure over income during Current year | 2,487,875.00 | 30,249,643.00 | 105,000.00 | General Advances[Schedule-II] | 7,000.00 |
| 3,400.00 | Tax Deducted at Source | | 2,774.00 | 18,500,000.00 | Fixed deposit | 2,000,000.00 |
| 200.00 | Professional tax | | - | 918,840.00 | Allahabad Bank SB A/c No . 50166755417 | 3,714,624.00 |
| | Current Liabilities | | | | | |
| 1,000.00 | BMSCE TEQIP II | | 1,000.00 | | | |
| - | BMS EDUCATIONAL TRUST | | 5,064,090.00 | | | - |
| **32,742,118.00** | **TOTAL** | | **35,317,507.00** | **32,742,118.00** | **TOTAL** | **35,317,507.00** |

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Dr.M.RAMACHANDRA
Co-ordinator-COE

NODAL OFFICER
[FINANCE ASPECTS]

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

As per my report of even date

Place: Bangalore
Date : 18.06.2016

B. N. Jayaram

B.N. JAYARAM
BANGALORE
CHARTERED ACCOUNTANT

**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME: PHASE-II**
**CENTRE OF EXCELLENCE - ADVANCED MATERIALS RESEARCH**

**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDING 31st MARCH 2016**

(Amount in Rupees)

| PREVIOUS YEAR (Rs) | EXPENDITURE | AMOUNT (Rs) | CURRENT YEAR (Rs) | PREVIOUS YEAR (Rs) | INCOME | CURRENT YEAR (Rs) |
|---|---|---|---|---|---|---|
| - | R & D | | 196,093.00 | 1,903,486.00 | Interest | 711,294.00 |
| 198,038.00 | faculty & Staff Development | | 178,211.00 | 30,000.00 | Bid application fee | 4,000.00 |
| 22,475.00 | IIIC | | 72,568.00 | | | |
| 680,000.00 | Teaching Assistantship | | 1,224,000.00 | - | Add :Excess of Expenditure over Income transferred to Balance Sheet | 2,487,875.00 |
| - | Research Assistantship | | 54,000.00 | | | |
| | Incremental Operating Cost: | | | | | |
| | Consumables | 188,721.00 | | | | |
| | Operation & Maintenance | 102,292.00 | | | | |
| 1,011,953.00 | salaries | 1,187,664.00 | 1,478,677.00 | | | |
| 420.00 | Bank Charges | | (380.00) | | | |
| 20,600.00 | Excess of Income over Expenditure transferred to Balance Sheet | | - | | | |
| **1,933,486.00** | **TOTAL** | | **3,203,169.00** | **1,933,486.00** | **TOTAL** | **3,203,169.00** |

AAO

Place: Bangalore
Date : 18.06.2016

Dr.M.RAMACHANDRA
Co-ordinator,COE

NODAL OFFICER
[FINANCE ASPECTS]

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

As per my report of even date

B. N. Jayaram

B.N. JAYARAM
BANGALORE
CHARTERED ACCOUNTANT

111

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**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME: PHASE-II**
**CENTRE OF EXCELLENCE - ADVANCED MATERIALS RESEARCH**

**RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDING 31st MARCH 2016**

(Amount In Rupees)

| PREVIOUS YEAR (Rs) | RECEIPTS | CURRENT YEAR (Rs) | PREVIOUS YEAR (Rs) | PAYMENTS | (Rs) | CURRENT YEAR (Rs) |
|---|---|---|---|---|---|---|
| 975,421.00 | Opening Bank Balance | 918,840.00 | 13,218,278.00 | Procurement | | 16,377,605.00 |
| 33,333,000.00 | Grants received from SPFU | - | | R & D | | 196,093.00 |
| - | BMS EDUCATIONAL TRUST | 5,064,090.00 | 198,038.00 | faculty & Staff Development | | 178,211.00 |
| - | Fixed Deposit | 18,500,000.00 | 22,475.00 | IIIC | | 72,568.00 |
| 1,903,486.00 | Interest | 711,294.00 | 680,000.00 | Teaching Assistantship | | 1,224,000.00 |
| 30,000.00 | Bid application fee | 4,000.00 | - | Research Assistantship | | 54,000.00 |
| 3,400.00 | Tax Deducted at Source | 2,774.00 | | Incremental Operating Cost: Consumables | 188,721.00 | |
| 200.00 | Professional tax | - | 1,011,953.00 | Operation & Maintenance salaries | 102,292.00<br>1,187,664.00 | 1,478,677.00 |
| - | General Advances | 105,000.00 | 420.00 | | | |
| - | Bank Charges | 187,761.00 | | Bank Charges | | 187,381.00 |
| | | | 93,000.00 | General Advances | | 7,000.00 |
| | | | 1,602,503.00 | BMSCE TEQIP II | | - |
| | | | 18,500,000.00 | Fixed Deposits | | 2,000,000.00 |
| | | | | Tax Deducted at Source | | 3,400.00 |
| | | | | Professional tax | | 200.00 |
| | | | 918,840.00 | Allahabad Bank SB A/c No . 50166755417 | | 3,714,624.00 |
| **36,245,507.00** | **TOTAL** | **25,493,759.00** | **36,245,507.00** | **TOTAL** | | **25,493,759.00** |

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AAO

Dr.M.RAMACHANDRA
Co-ordinator-COE

NODAL OFFICER
[FINANCE ASPECTS]

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

As per my report of even date

B.N. Jayaram

B.N. JAYARAM
CHARTERED ACCOUNTANT
BANGALORE

Place: Bangalore
Date : 18.06.2016

## B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019

### TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME:PHASE II
### CENTRE OF EXCELLENCE - ADVANCED MATERIALS RESEARCH

**SCHEDULE-I**

**Fixed Assets**

| Particulars | Gross Block as on 01.04.2015 | Additions | Gross Block as on 31.03.2016 |
|---|---|---|---|
| | | | (Rs) |
| Equipment | 13,218,278.00 | 16,377,605.00 | 29,595,883.00 |
| **TOTAL** | **13,218,278.00** | **16,377,605.00** | **29,595,883.00** |

**SCHEDULE-II**
**GENERAL ADVANCE**

| Particulars | Amount as on 31.3.2016 |
|---|---|
| | (Rs) |
| Smt.Bharathi V | 7,000.00 |
| **TOTAL** | **7,000.00** |

**AAO** | **Dr.M.RAMACHANDRA** Co-ordinator-COE | **NODAL OFFICER [FINANCE ASPECTS]** | **PRINCIPAL**

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

Place: Bangalore
Date : 18.06.2016

B. N. Jayaram

B.N JAYARAM BANGALORE CHARTERED ACCOUNTANT

B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME II
CENTRE FOR EXCELLENCE IN ADVANCED MATERIALS

**UTILIZATION CERTIFICATE**

| Sl. | Particulars | Amount in Rupees |
|---|---|---|
| a) | Opening Balance as on 1st April 2015 | 2,01,35,742.00 |
| b) | Funds Received from SPFU | - |
| c) | Interest earned on grant available for COE-Teqip-II during the year | 7,11,294.00 |
| d) | Other Income (Bid application fee) | 4,000.00 |
| | **Total** | **2,08,51,036.00** |
| e) | Expenditure during year 2013-14, not included in UC of FY- 2014-15 (Grants received during 2014-15) | 6,15,998.00 |
| f) | Expenditure during the year | 1,95,81,154.00 |
| g) | **Unutilized Amount as on 31st March 2016** | **6,53,884.00** |

Certified that out of unspent grant balance mentioned in the previous year UC **Rs.2,01,35,742/-** (Rupees Two Crores One lakhs Thirty Five Thousand Seven Hundred Forty Two Only)and on account of interest earned on grant available **Rs. 7,11,294/-** (Rupees Seven Lakh Eleven Thousand Two Hundred and Ninety Four Only) and other Income(Bid Application Fee) of **Rs. 4,000/-** (Rupees Four Thousand Only), a sum of **Rs.6,15,998/-** (Rupees Six Lakhs Fifteen Thousand Nine Hundred and Ninety Eight Only), pertaining to expenditure during 2013-14, unaccounted in previous UC has been accounted in 2015-16 UC and a sum of **Rs.1,95,81,154/-** (Rupees One Crores Ninety Five Lakhs Eighty One Thousand One Hundred and Fifty Four Only) has been utilized during 2015-16 for the purpose of expenditure on COE(TEQIP II) activities for which it was sanctioned and **Rs. 6,53,884/-** (Rupees Six Lakhs Fifty Three Thousand Eight Hundred and Eighty Four Only) remaining unutilized at the end of the year will be adjusted towards the grants-in-aid payable during the next financial year 2016-17.

Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised: Detailed accounts checked with reference to accounts books, payments, vouchers, cash book, journal, ledger.

B.N. JAYARAM BANGALORE CHARTERED ACCOUNTANT

Date: 18.06.2016

B. N. Jayaram

PRINCIPAL
B.M.S. College of Engineering
Bangalore - 560 019.

Annexure - 6

AGARWAL A KUMAR & ASSOCIATES
CHARTERED ACCOUNTANTS

3505, SECTOR-32 D,
CHANDIGARH – 160030
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aakchd2014@rediffmail.com

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP) PHASE-II - KARNATAKA**

**(WORLD BANK FUNDED PROJECT)**

**BMS COLLEGE OF ENGINEERING , BANGALORE**

**INTERNAL AUDIT REPORT FOR THE PERIOD FROM 01.10.2015 TO 31.03.2016**

## PART - A: BRIEF DETAILS OF THE AUDITEE AND AUDIT

| | |
|---|---|
| a. Name and address of the Auditee | : BMS College of Engineering, Bangalore |
| b. Name of Auditors | : Agarwal A Kumar & Associates |
| c. Days of Audit | : 2 |
| d. Period covered in the previous audit | : April 01, 2015 to September 30, 2015 |
| e. Period covered in the current audit | : October 01, 2015 to March 31, 2016 |

## PART – B: EXECUTIVE SUMMARY

### (a) OBJECTIVE AND METHODOLOGY OF AUDIT

We have conducted the Internal Audit of BMS College of Engineering, Bangalore for the period from October 01, 2015 to March 31, 2016. We carried out the audit in accordance with the standards on auditing promulgated by the Institute of Chartered Accountants of India and in accordance with the TOR as issued by the funding Agency International Development Association. It is the responsibility of the management to maintain the PFS / FMIS as prescribe by the funding agency in cash system of accounting, fair and proper documentation, generation books and records, and the various Interim financial reports and annual statements, and to implement a proper internal control system commensurate with the size of the organization.

Our responsibility is to verify the books and accounts commensurate with the standard procedures and guidelines followed by the Project for the different level and to see that there is proper documentation and internal control in existence during the period of audit and to report the deficiencies, if any, existing in the operation of the Project.

The Audit was conducted on the basis of the finalized Audit Program. After distribution of the audit work and responsibilities, the concerned staff performed their job and directly reported to Team Manager on daily basis.

**(b) STATUS OF IMPLEMENTATION OF THE FINANCIAL MANAGEMENT SYSTEM**

We noted that Financial Management System had been implemented during Financial Year 2015-16.

**(c) STATUS OF COMPLIANCE OF PREVIOUS AUDIT REPORT**

We noted that compliance of previous audit report had been made during the current audit period. Details have been given in Part C of the report.

**(d) Key areas of weakness**

During audit we noted there were no key areas of weakness regarding procedural lapse:

**PART – C**

**COMPLIANCE OF PREVIOUS AUDIT REPORT**

**1. Lapses in internal Control on Advances**

During the course of audit we noted that the following advances were given to staff and we further found that these were not settled by the end of September 2015. The detail is as follows:

| Date of Advance | voucher number | Amount(Rs.) | Observations | Status of advances as on 31.03.2016 |
|---|---|---|---|---|
| 09.04.2015 | -- | 3500.00 | Advance given to Sunil Kumar. But bills were not settled till September 2015. | Bills were settled on 23.12.2015. |

| | | | | |
|---|---|---|---|---|
| 01.07.2015 | -- | 16000.00 | Advance given to Dr. S.Girish. But bills were not settled till September 2015. | Bills were settled on 07.01.2016. |
| 10.07.2015 | -- | 15000.00 | Advance given to HOD BIO Technology. But bills were not settled till September 2015. | Bills were settled on 15.10.2015 |
| 15.07.2015 | -- | 15000.00 | Advance given to Principal Director. But bills were not settled till September 2015. | Bills were settled 20.10.2015. |
| 31.07.2015 | -- | 5000.00 | Advance given to Dr. P Meena. But bills were not settled till September 2015. | Bills were settled 13.10.2015. |

**Auditee's Comments**

Noted for future to settle the advances as soon as possible.

**Auditors' Comments / Compliance**

OK, checked. Most of the above advances were settled but still some advances are pending which are shown in outstanding advances in Part D.

## PART – D

## SERIOUS OBSERVATIONS

During audit we found serious observations such as major lapse in internal control on advances. Details are given below:

1. **Lapses in internal Control on Advances**

   During the course of audit we have observed that the following advances were given to staff and we further noted that these were not settled by the end of March 2016. The detail is as follows:

| Date of Advance | voucher number | Amount(Rs.) | Observations |
|---|---|---|---|
| 06.02.2016 | -- | 20000.00 | Advance given to ME Dept. But bills were not settled till March 31, 2016. |

**Recommendation**

Advances should be settled within one month from date of advance given.

**PART – E**

**OTHER OBSERVATIONS**

1. **CHECKING OF FINANCIAL MANAGEMENT REPORT**

On checking of Financial Management Report we noted that total expenditure incurred for whole of the project is Rs 1239.75 lacs up to March 31, 2016. Details are given below:

**(Rs in Lakhs)**

| Head of Expenditure | Cumulative expenditure up to February | Exp. During the month March 2016 | Total Cumulative exp. up to March 2016 |
|---|---|---|---|
| Procurement | 543.95 | 17.80 | 561.75 |
| Assistantship | 258.81 | 12.16 | 270.97 |
| Enhancement of R & D | 59.37 | 1.06 | 60.43 |
| Faculty and staff Development for improved competence | 135.99 | 2.68 | 138.67 |
| Enhanced interaction with industry | 60.20 | 1.37 | 61.57 |
| Capacity Development | 21.85 | 2.11 | 23.96 |
| Implementation of institutional academic reforms | 9.47 | 1.31 | 10.78 |

| | | | |
|---|---|---|---|
| Academic support for weak students | 13.18 | 0.00 | 13.18 |
| Incremental Operating Cost | 97.80 | 0.64 | 98.44 |
| **Total** | **1200.62** | **39.13** | **1239.75** |

## 2. BANK RECONCILIATION STATEMENT

On checking of bank records we noted that college had opened five bank accounts and these were reconciled with books of accounts. Details of Bank Reconciliation Statement as on March 2016 are given below:

### 2.1. Allahabad Bank - Main A/c- 50092591605

| **Particulars** | **Amount(Rs.)** |
|---|---|
| Balance as per bank statement | 3464920.50 |
| Less: Cheque issued but not presented | 278154.00 |
| Less: Amount wrongly debited by Bank | ... |
| Balance as per cash book | **3186766.50** |

### 2.2 Allahabad Bank - Maintenance Fund-50092573175

| **Particulars** | **Amount(Rs.)** |
|---|---|
| Balance as per bank statement | 43035.00 |
| Add: Cheque deposited but not cleared | 0.00 |
| Less: Cheque issued but not presented | 0.00 |
| Balance as per cash book | **43035.00** |

### 2.3 Allahabad Bank – Faculty Development Fund- 50092591117

| **Particulars** | **Amount(Rs.)** |
|---|---|
| Balance as per bank statement | 1027691.00 |
| Add: Cheque deposited but not cleared | 0.00 |

| | |
|---|---|
| Less: Cheque issued but not presented | 0.00 |
| Balance as per cash book | **1027691.00** |

**2.4 Allahabad Bank – Depriciation fund- 50092587338**

| **Particulars** | **Amount(Rs.)** |
|---|---|
| Balance as per bank statement | 1178.00 |
| Add: Cheque deposited but not cleared | 0.00 |
| Less: Cheque issued but not presented | 0.00 |
| Balance as per cash book | **1178.00** |

**2.5 Allahabad Bank - Corpus Fund- 50092589368**

| **Particulars** | **Amount(Rs.)** |
|---|---|
| Balance as per bank statement | 117642.00 |
| Add: Cheque deposited but not cleared | 0.00 |
| Less: Cheque issued but not presented | 0.00 |
| Balance as per cash book | **117642.00** |

**2.6 Allahabad Bank - Faculty Development Fund FD A/c- 50217900492**

| **Particulars** | **Amount(Rs.)** |
|---|---|
| Balance as per bank statement | 3891132.00 |
| Balance as per cash book | **3891132.00** |

**2.7 Allahabad Bank Equipment FD Account – 50217899838**

| **Particulars** | **Amount(Rs.)** |
|---|---|
| Balance as per bank statement | 3891132.00 |
| Balance as per cash book | **3891132.00** |

## 2.8 Allahabad Bank Maintance Fund FD Account – 50217912498

| Particulars | Amount(Rs.) |
|---|---|
| Balance as per bank statement | 3891132.00 |
| Balance as per cash book | **3891132.00** |

## 2.9 Allahabad Bank Corpus Fund FD Account – 50217899500

| Particulars | Amount(Rs.) |
|---|---|
| Balance as per bank statement | 3891132.00 |
| Balance as per cash book | **3891132.00** |

## PART – F

## EXECUTIVE SUMMARY AND SUGGESTIONS / RECOMMENDATIONS

### 1. Lapses in internal Control on Advances

During the course of audit we noted that the following advances were given to staff and we further found that these were not settled by the end of March 2016. The detail is as follows:

| Date of Advance | voucher number | Amount(Rs.) | Observations |
|---|---|---|---|
| 06.02.2016 | -- | 20000.00 | Advance given to ME Dept. But bills were not settled till March 2016. |

Annexure-7

**Sanction 1 of 3**

F. No. 16-14/2016-TS.VII
Government of India
Ministry of Human Resource Development
Department of Higher Education
Technical Section - VII
*********

Room No. 433-C Wing
Shastri Bhawan, New Delhi-110115
29th November, 2016

To

The Principal Accounts Officer
Principal Accounts Office, MHRD
Department of Higher Education
Shastri Bhawan, New Delhi-110115.

Sub :- Release of Grants (Plan) to **State of Karnataka** under the World Bank assisted Technical Education Quality Improvement Programme of Government of India (TEQIP) Phase-II for the year 2016-2017 **(General).**

Sir,

I am directed to say that Government of India is providing financial assistance of **Rs. 290.630 lakhs (Rs. Two crore ninety lakh sixty three thousand only)** to the Institution (Govt./ Govt. Aided/Private Unaided) of the grant to State as Central Share as per details given below under the scheme of Technical Education Quality Improvement Programme of Government of India (TEQIP)-II for the implementation of Technical Education in India. Remaining 50% (20% in case of Special Category States & 20% in case of Private unaided institutions) shares will be released by the States. Further, in case of Private Unaided Institutions 30% share will be added by the respective institution(s) itself. The amount of **Rs. 290.630 lakhs** is released based on progress achieved. The grants under the scheme are to be released through State Governments through book transfer via RBI for further release of the specified amount to the concerned Institute as per the terms contained herein.

2. Accordingly, I am directed to convey the sanction of the President of India to the release of a sum of **Rs. 290.630 lakhs (Rs. Two crore ninety lakh sixty three thousand only)** to the Secretary of the respective State dealing with technical education, as per the details given below under the World Bank assisted Technical Education Quality Improvement Programme of Government of India (TEQIP) during the year 2016-2017 for meeting the recurring expenditure.

| S. No. | Name of State | Total No. of Institutions/ CoE | Central Share (Rs. in Lakhs) | | |
|---|---|---|---|---|---|
| | | | Institution Expenses | SPFU Expenses | Total |
| 1 | Karnataka | 5 | 290.630 | - | 290.630 |
| Total | | 5 | 290.630 | - | 290.630 |

3. The above grant is subject to the following terms and conditions:

i. The Institutions shall implement activities within the framework of Project Implementation Plan (PIP), Development Credit Agreement (DCA) and Project Agreement (PA).

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(Amit Kr. Sonkar/A.S. SONKAR)
Under Secretary
Tel. No. 23382...
Govt. of India/New Delhi

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II. The amount sanctioned will be spent as per the percentage indicated in the Project implementation Plan (PIP) on Procurement of Goods (Equipments, Furniture, Books & LRs & Software), Minor items, Refurbishment (Minor Civil Works), Consultancy services, Teaching and Research Assistantships, Research and Development, Faculty and Staff Development, Industry Institute Interaction, Institutional Management Capacity enhancement, Institutional reforms, academic Support for weak students and incremental operating cost.

III. In addition the amount will be spent for salaries and allowances for agreed key additional faculty and staff and travel and supervision cost incurred for the purpose of carrying the project cost of operation and maintenance of equipment and vehicles, office rental and expenses and hiring of vehicles.

IV. The amount of grant shall be utilized for the purpose for which it is sanctioned with due regard to economy, efficiency and sustainable achievement of the project's objectives.

V. No portion of the sanctioned amount shall be diverted for any purpose other than that for which it has been sanctioned;

VI. The assets acquired wholly or substantially out of the grant shall not, without the prior sanction of the Government of India, be disposed, encumbered or utilized for any purpose other than that for which it is sanctioned;

VII. The amount of this grant, in so far as the utilization is concerned, will be open to test check by the Comptroller & Auditor General of India or his representative at his discretion. Intimation about the arrangements for such a test will be sent to the Institution in so far as Central Government funds are concerned. It will also be open to test check by an officer of the Government of India;

VIII. The requirement of production of Utilization Certificate in respect of the grant of sanction by the Government of India should be fulfilled to the satisfaction of the Government.

IX. The next instalment of Government of India's grant, if any, will be sanctioned after the amount of the present grant has been utilized and the progress report of expenditure incurred thereon is submitted.

X. The institution shall submit the Financial Monitoring Report on quarterly basis to NPIU in the proforma given in the Financial Management Manual within 30 days of the completion of each quarter.

XI. The institution shall conduct the audit of financial statements after the completion of each financial year as per the Terms of Reference (ToR) and Selection Criteria for audit of financial statements as mentioned in the Financial Management Manual.

XII. The instructions given in the Project Implementation Plan (PIP) as regards to the permissible and non-permissible expenses should be followed.

XIII. All accounting and financial instructions given in the Financial Management Manual should be followed for TEQIP-II.

4. The amount sanctioned is debited to Demand No. 52, Department of Higher Education,-3601 Major Head – Grants-in-aid to State Governments -04 –Grants to Centrally Sponsored Plan Schemes, 189 (Gen)- University and Higher Education-Other Grants, -03-Rashtriya Uchhtar Shiksha Abhiyan (RUSA), 03.01.35-Grants for creation of Capital assets (3601.04.189.03.01.35) for the year 2016-2017 (Plan).

5. The sanction is issued in exercise of the powers delegated to Ministries under DFPR, 1978, as amended from time to time. Above grants are being released in accordance with the pattern of Assistance approved by the Ministry of finance, Government of India. It is also certified that this Sanction is being issued in conformity with the rules and principles of the scheme.

6. The previous unspent balance of grants under the scheme if any, lying with grantee Institute has been adjusted while preparing release of grants and grantee may utilize the unspent balance if any also along with their grant for the purpose for which it is mentioned.

7. The Institution has been exempted from execution of bond, etc. In terms of the Ministry of Finance (Department of Expenditure)'s O.M. No.(1)E.II/A dated 23.6.1985.

8. Any future grant will be released to this Institution only after they have satisfied the Ministry that adequate provision for representation of SC/ST has been made in its constitution/rules and these are being followed in actual practice in filling up vacancies reserved for SC/ST candidates every year.

9. The Institute shall fully implement the official language policy of the Union Government i.e. the Institutions shall fully comply with the Official Languages Act, 1963 and Official Languages Use for the Official Purpose of the Union Rules, 1976, etc.

10. On receipt of sanction letter, the Principal Accounts Officer may issue an advice to the Reserve Bank of India (Central Accounts Section), Nagpur for affording credit to the balance of the State Governments. The Principal Accounts Officer may forward a copy of the advice to the Accountant General and Finance Department of the State Governments as well as Secretary, Technical Education of the State with a copy to the undersigned.

11. The grantee Institute is situated under the concerned jurisdiction of the Director General of Audit.

12. The Institutions shall furnish to the Government a utilization certificate duly signed by the authorized Auditor of the Institutions and counter signed by the Director of the Institutions to the effect that the grant has been utilized for the purpose for which it was sanctioned supported by the audited Statement of Accounts of the Institutions in respect of grant released under the scheme of Technical Education Quality Improvement Programme Phase-II of Government of India. The requirement of production of Utilization Certificate in respect of the grants already sanctioned by the Government of India should be fulfilled to the satisfaction of the Government. The Institute shall furnish Utilisation Certificate immediately after the closing of the financial year 2016-17.

13. These Institutions have no Utilization Certificates as due for condition under the Rules under this programme of the Ministry/Department.

14. The grantee is situated under the concerned jurisdiction of the Director General of Audit.

15. The sanction is issued in exercise of delegated powers and in accordance with the Integrated Finance Division vide Dy. No. 4303/2016-IFD dated 21.11.2016 and IF.I Section vide their Dy. No. 893/2016-IF.I dated 28.11.2016.

16. Necessary Sanction I.D. for above grants is generated.

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17. The grant mentioned in para 2 above will be released by the State Governments for the implementation of Technical Education under the scheme of Technical Education Quality Improvement Programme of Government of India (TEQIP)-II to the below mentioned indicated institutions mentioned against each State.

(Rs. in lakhs)

| Sr. No. | Name of the State / UT | Name of the Institution | Category of Institution | Central Share |
|---|---|---|---|---|
| 1 | KARNATAKA | BMS College of Engineering, Bangalore | Govt. Aided (1.2) | 9.370 |
| 2 | | The National College of Engineering, Mysore | Govt. Aided (1.2) | 3.750 |
| 3 | | Malnad College of Engineering, Hassan | Govt. Aided (1.2) | 7.500 |
| 4 | | Sri Siddhartha Institute of Technology, Maralur, Tumkur | Private Unaided (1.2) | 3.750 |
| 5 | | PES Institute of Technology, Bangalore | Private Unaided (1.2) | 3.750 |
| **Total Karnataka State (5 Institutions)** | | | | **28.120** |

18. The expenditure is covered under the Monthly Expenditure Plan (MEP) for November, 2016.

Yours faithfully,

(R. S. Solanki)
Under Secretary to the Govt. of India

(आर. एस. सोलंकी/R. S. SOLANKI)
अवर सचिव/Under Secretary
भा. सं. वि. मंत्रालय/M. of H. R. D.
उच्चतर शिक्षा विभाग/Dept. of Higher Edn.
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi

Copy to:

1. The Secretary, Technical Education, Karnataka with a request to make expenditure of central grants strictly as indicated in the sanction letter and submit the progress report regularly.
2. Secretary, Finance Department of State of Karnataka. It is requested that funds released through this sanction letter may be transferred to the Technical Education Department at the earliest for onward release to the concerned institute as mentioned above.
3. Director, Technical Education & State Project Adviser, SPFU, State of Karnataka.
4. Central Project Adviser, National Project Implementation Unit, Ed.CIL House, Noida. **With a request to send copy of sanction letter to all the concerned institutes.**
5. The Director General of Audit, Central Revenue, AGCR Building, IP Estate, New Delhi.
6. Internal Audit, Principal Accounts Office, MHRD, Shastri Bhawan, New Delhi.
7. IF-1 8. E.C. Unit 9. IFD 10. Guard file

(R. S. Solanki)
Under Secretary to the Govt. of India

(आर. एस. सोलंकी/R. S. SOLANKI)
अवर सचिव/Under Secretary
भा. सं. वि. मंत्रालय/M. of H. R. D.
उच्चतर शिक्षा विभाग/Dept. of Higher Edn.
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi

F. No. 16-14/2016-TS.VII
Government of India
Ministry of Human Resource Development
Department of Higher Education
Technical Section - VII
*********

Room No. 433-C Wing
Shastri Bhawan, New Delhi-110115
29th November, 2016

To

The Principal Accounts Officer
Principal Accounts Office, MHRD
Department of Higher Education
Shastri Bhawan, New Delhi-110115.

Sub :- Release of Grants (Plan) to **State of Karnataka** under the World Bank assisted Technical Education Quality Improvement Programme of Government of India (TEQIP) Phase-II for the year 2016-2017 **(SC)**.

Sir,

I am directed to say that Government of India is providing financial assistance of **Rs. 56.250 lakhs (Rs. Fifty six lakh twenty five thousand only)** to the Institution (Govt./ Govt. Aided/Private Unaided) of the grant to State as Central Share as per details given below under the scheme of Technical Education Quality Improvement Programme of Government of India (TEQIP)-II for the implementation of Technical Education in India. Remaining 50% (20% in case of Special Category States & 20% in case of Private unaided institutions) shares will be released by the States. Further, in case of Private Unaided Institutions 30% share will be added by the respective institution(s) itself. The amount of **Rs. 56.250 lakhs** is released based on progress achieved. The grants under the scheme are to be released through State Governments through book transfer via RBI for further release of the specified amount to the concerned Institute as per the terms contained herein.

2. Accordingly, I am directed to convey the sanction of the President of India to the release of a sum of **Rs. 56.250 lakhs (Rs. Fifty six lakh twenty five thousand only)** to the Secretary of the respective State dealing with technical education, as per the details given below under the World Bank assisted Technical Education Quality Improvement Programme of Government of India (TEQIP) during the year 2016-2017 for meeting the recurring expenditure.

| S. No. | Name of State | Total No. of Institutions/ CoE | Central Share (Rs. in Lakhs) | | |
|---|---|---|---|---|---|
| | | | Institution Expenses | SPFU Expenses | Total |
| 1 | Karnataka | 5 | 56.250 | - | 56.250 |
| Total | | 5 | 56.250 | - | 56.250 |

3. The above grant is subject to the following terms and conditions:

I. The Institutions shall implement activities within the framework of Project Implementation Plan (PIP), Development Credit Agreement (DCA) and Project Agreement (PA).

II. The amount sanctioned will be spent as per the percentage indicated in the Project implementation Plan (PIP) on Procurement of Goods (Equipments, Furniture, Books & LRs & Software), Minor Items, Refurbishment (Minor Civil Works), Consultancy services, Teaching and Research Assistantships, Research and Development, Faculty and Staff Development, Industry Institute Interaction, Institutional Management Capacity enhancement, Institutional reforms, academic Support for weak students and incremental operating cost.

III. In addition the amount will be spent for salaries and allowances for agreed key additional faculty and staff and travel and supervision cost incurred for the purpose of carrying the project cost of operation and maintenance of equipment and vehicles, office rental and expenses and hiring of vehicles.

IV. The amount of grant shall be utilized for the purpose for which it is sanctioned with due regard to economy, efficiency and sustainable achievement of the project's objectives.

V. No portion of the sanctioned amount shall be diverted for any purpose other than that for which it has been sanctioned;

VI. The assets acquired wholly or substantially out of the grant shall not, without the prior sanction of the Government of India, be disposed, encumbered or utilized for any purpose other than that for which it is sanctioned;

VII. The amount of this grant, in so far as the utilization is concerned, will be open to test check by the Comptroller & Auditor General of India or his representative at his discretion. Intimation about the arrangements for such a test will be sent to the Institution in so far as Central Government funds are concerned. It will also be open to test check by an officer of the Government of India;

VIII. The requirement of production of Utilization Certificate in respect of the grant of sanction by the Government of India should be fulfilled to the satisfaction of the Government.

IX. The next instalment of Government of India's grant, if any, will be sanctioned after the amount of the present grant has been utilized and the progress report of expenditure incurred thereon is submitted.

X. The institution shall submit the Financial Monitoring Report on quarterly basis to NPIU in the proforma given in the Financial Management Manual within 30 days of the completion of each quarter.

XI. The institution shall conduct the audit of financial statements after the completion of each financial year as per the Terms of Reference (ToR) and Selection Criteria for audit of financial statements as mentioned in the Financial Management Manual.

XII. The instructions given in the Project Implementation Plan (PIP) as regards to the permissible and non-permissible expenses should be followed.

XIII. All accounting and financial instructions given in the Financial Management Manual should be followed for TEQIP-II.

4. The amount sanctioned is debited to Demand No. 52, Department of Higher Education,-3601 Major Head – Grants in aid to State Governments -04 –Grants to Centrally Sponsored Plan Schemes, 789-Special Component Plan for Scheduled Castes, -60- Rashtriya Uchhtar Shiksha Abhiyan (RUSA), 60.01.35-Grants for creation of capital assets (3601.04.789.60.01.35) for the year 2016-2017 (Plan).

5. The sanction is issued in exercise of the powers delegated to Ministries under DFPR, 1978, as amended from time to time. Above grants are being released in accordance with the pattern of Assistance approved by the Ministry of finance, Government of India. It is also certified that this Sanction is being issued in conformity with the rules and principles of the scheme.

6. The previous unspent balance of grants under the scheme if any, lying with grantee Institute has been adjusted while preparing release of grants and grantee may utilize the unspent balance if any also along with their grant for the purpose for which it is mentioned.

7. The Institution has been exempted from execution of bond, etc. In terms of the Ministry of Finance (Department of Expenditure)'s O.M. No.(1)E.II/A dated 23.6.1985.

8. Any future grant will be released to this Institution only after they have satisfied the Ministry that adequate provision for representation of SC/ST has been made in its constitution/rules and these are being followed in actual practice in filling up vacancies reserved for SC/ST candidates every year.

9. The Institute shall fully implement the official language policy of the Union Government i.e. the Institutions shall fully comply with the Official Languages Act, 1963 and Official Languages Use for the Official Purpose of the Union Rules, 1976, etc.

10. On receipt of sanction letter, the Principal Accounts Officer may issue an advice to the Reserve Bank of India (Central Accounts Section), Nagpur for affording credit to the balance of the State Governments. The Principal Accounts Officer may forward a copy of the advice to the Accountant General and Finance Department of the State Governments as well as Secretary, Technical Education of the State with a copy to the undersigned.

11. The grantee Institute is situated under the concerned jurisdiction of the Director General of Audit.

12. The Institutions shall furnish to the Government a utilization certificate duly signed by the authorized Auditor of the Institutions and counter signed by the Director of the Institutions to the effect that the grant has been utilized for the purpose for which it was sanctioned supported by the audited Statement of Accounts of the Institutions in respect of grant released under the scheme of Technical Education Quality Improvement Programme Phase-II of Government of India. The requirement of production of Utilization Certificate in respect of the grants already sanctioned by the Government of India should be fulfilled to the satisfaction of the Government. The institute shall furnish Utilisation Certificate immediately after the closing of the financial year 2016-17.

13. These Institutions have no Utilization Certificates as due for rendition under the Rules under this programme of the Ministry/Department.

14. The grantee is situated under the concerned jurisdiction of the Director General of Audit.

15. The sanction is issued in exercise of delegated powers and in accordance with the Integrated Finance Division vide Dy. No. 4303/2016-IFD dated 21.11.2016 and IF.I Section vide their Dy. No. 893/2016-IF.I dated 28.11.2016.

16. Necessary Sanction I.D. for above grants is generated.

17. The grant mentioned in para 2 above will be released by the State Governments for the implementation of Technical Education under the scheme of Technical Education Quality Improvement Programme of Government of India (TEQIP)-II to the below mentioned indicated institutions mentioned against each State.

(Rs. in lakhs)

| Sr. No. | Name of the State / UT | Name of the Institution | Category of Institution | Central Share |
|---|---|---|---|---|
| 1 | KARNATAKA | BMS College of Engineering, Bangalore | Govt. Aided (1.2) | 96.880 |
| 2 | | The National College of Engineering, Mysore | Govt. Aided (1.2) | 38.750 |
| 3 | | Malnad College of Engineering, Hassan | Govt. Aided (1.2) | 77.500 |
| 4 | | Sri Siddhartha Institute of Technology, Maralur, Tumkur | Private Unaided (1.2) | 38.750 |
| 5 | | PES Institute of Technology, Bangalore | Private Unaided (1.2) | 38.750 |
| **Total Karnataka State (5 Institutions)** | | | | **290.630** |

18. The expenditure is covered under the Monthly Expenditure Plan (MEP) for November, 2016.

Yours faithfully,

(R. S. Solanki)
Under Secretary to the Govt. of India

(आर. एस. सोलंकी/R. S. SOLANKI)

Copy to:

1. The Secretary, Technical Education, Karnataka with a request to make expenditure of central grants strictly as indicated in the sanction letter and submit the progress report regularly.
2. Secretary, Finance Department of State of Karnataka. It is requested that funds released through this sanction letter may be transferred to the Technical Education Department at the earliest for onward release to the concerned institute as mentioned above.
3. Director, Technical Education & State Project Adviser, SPFU, State of Karnataka.
4. Central Project Adviser, National Project Implementation Unit, Ed.CIL House, Noida. **With a request to send copy of sanction letter to all the concerned institutes.**
5. The Director General of Audit, Central Revenue, AGCR Building, IP Estate, New Delhi.
6. Internal Audit, Principal Accounts Office, MHRD, Shastri Bhawan, New Delhi.
7. IF-1 8. E.C. Unit 9. IFD 10. Guard file

(R. S. Solanki)
Under Secretary to the Govt. of India

(आर. एस. सोलंकी/R. S. SOLANKI)

**Sanction 3 of 3**

F. No. 16-14/2016-TS.VII
Government of India
Ministry of Human Resource Development
Department of Higher Education
Technical Section - VII
*********

Room No. 433-C Wing
Shastri Bhawan, New Delhi-110115
29th November, 2016

To

The Principal Accounts Officer
Principal Accounts Office, MHRD
Department of Higher Education
Shastri Bhawan, New Delhi-110115.

Sub :- Release of Grants (Plan) to **State of Karnataka** under the World Bank assisted Technical Education Quality Improvement Programme of Government of India (TEQIP) Phase-II for the year 2016-2017 **(ST)**.

Sir,

I am directed to say that Government of India is providing financial assistance of **Rs. 28.120 lakhs (Rs. Twenty eight lakh twelve thousand only)** to the Institution (Govt./ Govt. Aided/Private Unaided) of the grant to State as Central Share as per details given below under the scheme of Technical Education Quality Improvement Programme of Government of India (TEQIP)-II for the implementation of Technical Education in India. Remaining 50% (20% in case of Special Category States & 20% in case of Private unaided institutions) shares will be released by the States. Further, in case of Private Unaided Institutions 30% share will be added by the respective institution(s) itself. The amount of **Rs. 28.120 lakhs** is released based on progress achieved. The grants under the scheme are to be released through State Governments through book transfer via RBI for further release of the specified amount to the concerned Institute as per the terms contained herein.

2. Accordingly, I am directed to convey the sanction of the President of India to the release of a sum of **Rs. 28.120 lakhs (Rs. Twenty eight lakh twelve thousand only)** to the Secretary of the respective State dealing with technical education, as per the details given below under the World Bank assisted Technical Education Quality Improvement Programme of Government of India (TEQIP) during the year 2016-2017 for meeting the recurring expenditure.

| S. No. | Name of State | Total No. of Institutions/ CoE | Central Share (Rs. in Lakhs) | | |
|---|---|---|---|---|---|
| | | | Institution Expenses | SPFU Expenses | Total |
| 1 | Karnataka | 5 | 28.120 | - | 28.120 |
| Total | | 5 | 28.120 | - | 28.120 |

3. The above grant is subject to the following terms and conditions:

i. The Institutions shall implement activities within the framework of Project Implementation Plan (PIP), Development Credit Agreement (DCA) and Project Agreement (PA).

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II. The amount sanctioned will be spent as per the percentage indicated in the Project Implementation Plan (PIP) on Procurement of Goods (Equipments, Furniture, Books & LRs & Software), Minor items, Refurbishment (Minor Civil Works), Consultancy services, Teaching and Research Assistantships, Research and Development, Faculty and Staff Development, Industry Institute Interaction, Institutional Management Capacity enhancement, Institutional reforms, academic Support for weak students and Incremental operating cost.

III. In addition the amount will be spent for salaries and allowances for agreed key additional faculty and staff and travel and supervision cost incurred for the purpose of carrying the project cost of operation and maintenance of equipment and vehicles, office rental and expenses and hiring of vehicles.

IV. The amount of grant shall be utilized for the purpose for which it is sanctioned with due regard to economy, efficiency and sustainable achievement of the project's objectives.

V. No portion of the sanctioned amount shall be diverted for any purpose other than that for which it has been sanctioned;

VI. The assets acquired wholly or substantially out of the grant shall not, without the prior sanction of the Government of India, be disposed, encumbered or utilized for any purpose other than that for which it is sanctioned;

VII. The amount of this grant, in so far as the utilization is concerned, will be open to test check by the Comptroller & Auditor General of India or his representative at his discretion. Intimation about the arrangements for such a test will be sent to the Institution in so far as Central Government funds are concerned. It will also be open to test check by an officer of the Government of India;

VIII. The requirement of production of Utilization Certificate in respect of the grant of sanction by the Government of India should be fulfilled to the satisfaction of the Government.

IX. The next instalment of Government of India's grant, if any, will be sanctioned after the amount of the present grant has been utilized and the progress report of expenditure incurred thereon is submitted.

X. The institution shall submit the Financial Monitoring Report on quarterly basis to NPIU in the proforma given in the Financial Management Manual within 30 days of the completion of each quarter.

XI. The institution shall conduct the audit of financial statements after the completion of each financial year as per the Terms of Reference (ToR) and Selection Criteria for audit of financial statements as mentioned in the Financial Management Manual.

XII. The instructions given in the Project Implementation Plan (PIP) as regards to the permissible and non-permissible expenses should be followed.

XIII. All accounting and financial instructions given in the Financial Management Manual should be followed for TEQIP-II.

4. The amount sanctioned is debited to Demand No. 52, Department of Higher Education,-3601 Major Head – Grants in aid to State Governments -04 –Grants to Centrally Sponsored Plan Schemes, 796 (Schedule Tribes sub plan), -54- Rashtriya Uchhtar Shiksha Abhiyan (RUSA), 54.01.35-Grants for creation of Capital asset (3601.04.796.54.01.35) for the year 2016-2017 (Plan).

5. The sanction is issued in exercise of the powers delegated to Ministries under DFPR, 1978, as amended from time to time. Above grants are being released in accordance with the pattern of Assistance approved by the Ministry of finance, Government of India. It is also certified that this Sanction is being issued in conformity with the rules and principles of the scheme.

6. The previous unspent balance of grants under the scheme if any, lying with grantee Institute has been adjusted while preparing release of grants and grantee may utilize the unspent balance if any also along with their grant for the purpose for which it is mentioned.

7. The Institution has been exempted from execution of bond, etc. In terms of the Ministry of Finance (Department of Expenditure)'s O.M. No.(1)E.II/A dated 23.6.1985.

8. Any future grant will be released to this Institution only after they have satisfied the Ministry that adequate provision for representation of SC/ST has been made in its constitution/rules and these are being followed in actual practice in filling up vacancies reserved for SC/ST candidates every year.

9. The Institute shall fully implement the official language policy of the Union Government i.e. the Institutions shall fully comply with the Official Languages Act, 1963 and Official Languages Use for the Official Purpose of the Union Rules, 1976, etc.

10. On receipt of sanction letter, the Principal Accounts Officer may issue an advice to the Reserve Bank of India (Central Accounts Section), Nagpur for affording credit to the balance of the State Governments. The Principal Accounts Officer may forward a copy of the advice to the Accountant General and Finance Department of the State Governments as well as Secretary, Technical Education of the State with a copy to the undersigned.

11. The grantee Institute is situated under the concerned jurisdiction of the Director General of Audit.

12. The Institutions shall furnish to the Government a utilization certificate duly signed by the authorized Auditor of the Institutions and counter signed by the Director of the Institutions to the effect that the grant has been utilized for the purpose for which it was sanctioned supported by the audited Statement of Accounts of the Institutions in respect of grant released under the scheme of Technical Education Quality Improvement Programme Phase-II of Government of India. The requirement of production of Utilization Certificate in respect of the grants already sanctioned by the Government of India should be fulfilled to the satisfaction of the Government. The institute shall furnish Utilisation Certificate immediately after the closing of the financial year 2016-17.

13. These Institutions have no Utilization Certificates as due for rendition under the Rules under this programme of the Ministry/Department.

14. The grantee is situated under the concerned jurisdiction of the Director General of Audit.

15. The sanction is issued in exercise of delegated powers and in accordance with the Integrated Finance Division vide Dy. No. 4303/2016-IFD dated 21.11.2016 and IF.I Section vide their Dy. No. 893/2016-IF.I dated 28.11.2016.

16. Necessary Sanction I.D. for above grants is generated.

17. The grant mentioned in para 2 above will be released by the State Governments for the implementation of Technical Education under the scheme of Technical Education Quality Improvement Programme of Government of India (TEQIP)-II to the below mentioned indicated institutions mentioned against each State.

(Rs. in lakhs)

| Sr. No. | Name of the State / UT | Name of the Institution | Category of Institution | Central Share |
|---|---|---|---|---|
| 1 | KARNATAKA | BMS College of Engineering, Bangalore | Govt. Aided (1.2) | 18.750 |
| 2 | | The National College of Engineering, Mysore | Govt. Aided (1.2) | 7.500 |
| 3 | | Malnad College of Engineering, Hassan | Govt. Aided (1.2) | 15.000 |
| 4 | | Sri Siddhartha Institute of Technology, Maralur, Tumkur | Private Unaided (1.2) | 7.500 |
| 5 | | PES Institute of Technology, Bangalore | Private Unaided (1.2) | 7.500 |
| Total Karnataka State (5 Institutions) | | | | 56.250 |

18. The expenditure is covered under the Monthly Expenditure Plan (MEP) for November, 2016.

Yours faithfully,

(R. S. Solanki)
Under Secretary to the Govt. of India

Copy to:

1. The Secretary, Technical Education, Karnataka with a request to make expenditure of central grants strictly as indicated in the sanction letter and submit the progress report regularly.
2. Secretary, Finance Department of State of Karnataka. It is requested that funds released through this sanction letter may be transferred to the Technical Education Department at the earliest for onward release to the concerned institute as mentioned above.
3. Director, Technical Education & State Project Adviser, SPFU, State of Karnataka.
4. Central Project Adviser, National Project Implementation Unit, Ed.CIL House, Noida. **With a request to send copy of sanction letter to all the concerned institutes.**
5. The Director General of Audit, Central Revenue, AGCR Building, IP Estate, New Delhi.
6. Internal Audit, Principal Accounts Office, MHRD, Shastri Bhawan, New Delhi.
7. IF-1 8. E.C. Unit 9. IFD 10. Guard file

(R. S. Solanki)
Under Secretary to the Govt. of India

Annexure – 8

| Action Plan of Expenditure from 1st October 2016 to 31 March 2017 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NAME OF STATE: KARNATAKA | | | | | | | | | | |
| NAME OF INSTITUTE: BMS COLLEGE OF ENGINEERING, BENGALURU | | | | | | | | | | |
| PROJECT LIFE ALLOCATION (PLA) : Rs.1750 lakhs | | | | | | | | | | |
| Fund Released (Centre + State + inst.) : Rs.1500 lakhs | | | | | | | | | | |
| | | | | | | | | | | (Rs. In Lakhs) |
| S.No. | Activity Heads | Cummulative Expenditure upto 30 Sep 2016 | Oct., 2016 | Nov., 2016 | Dec. 2016 | Jan., 2017 | Feb., 2017 | March, 2017 | Total expected Expenditure from Oct 2016 to March 2017 | Total expected Cummulative Expenditure in the Project |
| | | (i) | (ii) | (iii) | (iv) | (v) | (vi) | (vii) | (viii= ii+iii+iv+v+vi+vii) | (ix = i +viii) |
| 1 | Procurement | 579.12 | 141.79 | 52.19 | 15.59 | 0 | 0 | 0 | 209.57 | 788.69 |
| 2 | Teaching and Research Assistantships | 346.29 | 14.06 | 13.34 | 13.34 | 13.34 | 13.16 | 13.16 | 80.4 | 426.69 |
| 3 | Enhancement of R & D | 75.53 | 2 | 1 | 1 | 1 | 1.5 | 0 | 6.5 | 82.03 |
| 4 | Faculty and staff development | 159.58 | 1 | 1 | 4 | 3 | 1 | 0 | 10 | 169.58 |
| 5 | Enhanced interaction with Industry | 72.33 | 2 | 1 | 0.5 | 1 | 0 | 0 | 4.5 | 76.83 |
| 6 | Institutional Management Capacity enhancement | 24.03 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 25.03 |
| 7 | Institutional academic reforms | 26.87 | 16 | 0.5 | 0.5 | 0 | 0 | 0 | 17 | 43.87 |
| 8 | Academic support for weak students | 22.52 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 23.52 |
| 9 | Incremental operating cost | 104.71 | 1.5 | 1.5 | 1.5 | 1.5 | 1.55 | 1.5 | 9.05 | 113.76 |
| | Total | 1410.98 | 178.35 | 71.53 | 36.43 | 20.84 | 17.21 | 14.66 | 339.02 | 1750 |

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TEQIP Co-ordinator-I
BMSCE, Bangalore-19.

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

Annexure-8

Annexure-9

---------- Forwarded message ---------
From: National Project Implementation Unit <npiuwb@hotmail.com>
Date: Tue, 20 Dec 2016 at 12:41
Subject: TEQIP -II Progress of the Centres of Excellence
To: drkmbabu@gmail.com <drkmbabu@gmail.com>, principal@bmsce.ac.in <principal@bmsce.ac.in>, dr.mra machandra@gmail.com<dr.mramachandra@gmail.com>, chandasree.d@gmail.com <chandasree.d@gmail.co m>
Cc: Rita Goyal (rita.goyal.teqip@gmail.com) <rita.goyal.teqip@gmail.com>

Dear Sir,

As you are aware, the peer reviewers have assessed the overall progress of the Centres of Excellence established under TEQIP-II in your institute against the following:

- its objectives and indicators,
- its collaborative efforts,
- interaction with industry,
- production of graduate students and trained researchers and
- sustainability

The Review report as obtained from the Peer Reviewer is being sent to you. This assessment will serve as a guidance for the CoE identifying areas where they are on the track as well issues that need improvement.
In this regard, you are requested to provide your comments on the Review sheet, if any. You are also requested to draft an Action Plan based upon peer evaluation comments with concrete and time bound initiatives to implement the recommendations by **22nd December 2016 positively**. The Action Plan should also include plans for sustainability of equipment – their use/maintenance etc. and research fellowships indicating concrete suggestions (that can be shared with your Mentor, SPFU and the peer reviewer by NPIU. The peer reviewer will review the Action Plan.

This may be treated as **Most Urgent** please.

With Kind regards

**(Dr. Rita Goyal)**
**Sr. 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
Web : www.npiu.nic.in

| CENTRE OF EXCELLENCE (COE) PROGRESS REVIEW SHEET | | | |
|---|---|---|---|
| **Name of Project : Advanced materials research** | | | |
| **Name of Institution : BMS College of Engineering, Bangalore** | | | |
| **Title of CoE : Centre of Excellence in Advanced Materials Research** | | | |
| **Objective(s) of the CoE and indicators (from proposal) To develop core competence in synthesis, characterization and processing of nano-composites, polymer and metal matrix composites and memory materials; to provide and seek innovative solutions in these fields** | | | |
| **EVALUATION PARAMETERS** | | **EVALUATOR'S COMMENTS** | **Plan of Action/Remarks-COE Coordinator** |
| **1. Overall progress against objective and indicators** | (i) What is the overall progress and is the CoE on track to achieve its objective(s)?<br><br>(ii) To what extent has the program achieved expected research and commercialization outcomes?<br><br>(iii) Against which indicators has it made most progress; against which has it made least?<br><br>(iv) Does the CoE collect reliable data about its progress? | The progress has been excellent, and the CoE is on-track to achieve its stated goals.<br><br>The CoE has aggressively pursued its goals of developing nano and metal matric composites. Work is going on in several directions, with a varied set of researchers and graduate students. Commercialization of materials and products is still in nascent stage. However, the research facilities can be used by other users.<br>The CoE has done well in development of phase change materials and nanocomposites. Varied set of equipment have been judiciously purchased and commissioned. Support to students and faculty has been generous.<br><br>Do not have a reason to not believe the data. However, in subsequent years the effort has to get more directed towards specific material and product development. | Evaluator's comments are encouraging |

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| **2. Evaluation of collaborative effort** | Internal collaborative efforts within the Institute, aimed at the activities of the Centre:<br><br>(i) What niche, if any, does the program occupy in relation to other similar programs<br>(ii) Comment on the faculty/ student participation from different disciplines and/or the group of faculty/ students participating.<br>(iii) Comment on new areas of mutual interest which may have emerged and/or other such manifestations of collaborative endeavors between faculty. | The niche is primarily in phase change memory materials, metal matrix nano composites, manufacturing science. The effort in manufacturing science is a good inititive.<br>The centre is truly multi-disciplinary and has several faculty from mechanical, civil, chemistry, physics and electrical engineering are participating. Several M.Tech and PhD students are supported from the CoE funds.<br><br>Several new areas have emerged. Collaborations in metal matrix nano composites, conducting polymers, manufacturing research has brought together several faculties from across specializations. | Evaluator's comments are encouraging |
| | External collaborative efforts with other Institutes of Excellence:<br>Comment on the collaborations which the CoE has established with other Institutes of repute and/or other peer Institutes with Centres of Excellence. | The CoE has been working with some faculty at IISc. In fact the CoE is mentored by a senior professor from IISc.<br><br>The CoE has been working with National Aerospace Laboratories, Bangalore towards developing non-fossil carrier fluids based magneto-rheological fluids. No other significant collaborations have been established. | Evaluator's comments are encouraging<br><br>Collaborative work in the field of FRP is also established with TATA ADVANCED MATERIALS Ltd. |



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| **3. Interaction with Industry, relevance to Indian technology needs, Economic advancements resulting as a consequence** | (i) Elaborate upon the activities of the Centre that are of relevance to Indian technological needs and how they are progressing.<br><br>(ii) Has the Centre accel the Commercializatic Leading Edge Techno if any? | The activities are releant for several of Indian technological needs. Primarily new conducting polymers, phase change memory materials, non-fossil carrier fluids and advanced manufacturing processes are extremely relevant. In fact, it was nice to see a centre paying attention to manufacturing processes.<br><br>Not yet. It should find a niche in nano composites, conducting polymers, phase change materials and manufacturing. | Evaluator's comments are encouraging |
| | (i) Elaborate upon any contributions from the Centre that are of importance for economic growth and development.<br><br>(ii) How has the interaction with the industry/ professional world grown?<br><br>(iii) Which are the industry partners involved? Have any patents and/or prototypes been developed? | Currently, the economic viability is not very clear. However, the effort to develop algal oil as household fuel; phase change materials for devices can have potential industrial applications.<br><br>The CoE has spurred iteraction with industry through collaborative projects with National Aeronautical Laboratory and Tata Advanced Materials. However, these collaborations are rudimentary.<br><br>This part needs more effort. Possibly this can happen at a future date. | Evaluator's comments are encouraging<br><br>Development of algal oil and collaborative projects with NAL and TAML are progressing well. Two research scholars pursuing their PhD in these fields of Advanced Materials |

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|---|---|---|---|
| **4. Production of knowledge and human capital as evidenced by graduate students and trained researchers** | (i) What positive developments can one see in the Masters' Programmes of the Institute on account of the establishment of the Centre?<br><br>(ii) What progress has been made e.g. curriculum development, publications, journal, papers etc. as well as in instituting teaching and research assistantships for graduate students? | The centre has given a boost to collaborative, high-end research potential. A new M.Tech program in Manufacturing Science has been started. Several PhD and M.Tech students are working on research projects proposed under the CoE.<br><br>The CoE has helped develop a new M.Tech program in Manufacturing Science. Along with it, several courses have benefited from the research facilities. Collaborative research has enriched the research environment. Several good (about 17) journal papers and conference papers have come out of this initiative. The centre has provided crucial financial support to several M.Tech and PhD students. | Evaluator's comments are encouraging |
| | (i) What positive developments can one see in the Doctoral Programmes of the Institute on account of the centre?<br><br>(ii) Has there been progress in inducting industry participation in the Doctoral Programmes? If so, explain with details. | Several doctoral students (about 18) are working on several aspects of the program. The critical contribution of the CoE through the high-end equipment (SEM, Water-jet cutter, FTIR, etc) have provided necessary tools for good quality experimental research.<br><br>Efforts are in a nascent stage. Projects from NAL, TAM are examples. This effort needs more thought and involvement of the industry has to be pursued. | Evaluator's comments are encouraging |

| | | | |
|---|---|---|---|
| | Has the Centre contributed to human resource development in the field in other ways, such as with undergraduate students or employees in companies? If so, explain with details. | The CoE has provided training in use of manufacturing facilities. Its equipment is used by students from other institutions in Bangalore. More undergraduates from BMS are doing project work using these equipment. | Evaluator's comments are encouraging |
| **5. Faculty Training and Development** | What progress has been made in the development of faculty competence in the subject area of the centre? | Interaction amongst the participating faculty has improved appreciation of different specializations, integration of different expertise domains, and final synthesis of a product. Further, the faculty is actively involved in research due to availability of excellent (TEQIP supported) infrastructure. Several papers have been written, submitted and presented. | |
| | How have the faculty engaged themselves in research and development activities? If so, please explain with details. | Faculty has taken up different research challenges, and has developed the infrastructure accordingly. Several research facilities and laboratories have come up, led by group of faculty. For example, the laboratories for nano composites, phase change materials, advanced manufacturing, material characterization facility have all come up because of this initiative. All the facilities have an active group of students and faculty involved. | Evaluator's comments are encouraging |
| | Have new research areas developed on account of the Centre? Have these been supported by additional seed grants including from sources other than TEQIP? If so, explain with details. | Yes, as explained above. However, the CoE has to aggressively pursue funding from other sources. Currently it is run by TEQIP and institute grants. | Evaluator's comments are encouraging |

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|---|---|---|---|
| **6. Financial management and procurement** | (i) Have the purchases made (such as for equipment) been appropriate for the work of the Centre?<br><br>(ii) Have they been contracted in a timely fashion? Are appropriate records being kept? | The purchases of equipment have been impressive, judicious and appropriate.<br><br>Yes on both counts. | Evaluator's comments are encouraging |
| **7. Sustainability** | Has the CoE taken action in order to ensure the sustainability of the CoE beyond the funding from TEQIP? If so, explain with details. | The CoE has to aggressively pursue other sources of funding. Currently, TEQIP is the only major funding. | 1. Dr.M Ramachandra, CoE coordinator and Principal investigator, has established Metal Matrix composites lab with financial assistance from Two AICTE R&D projects (Rs. 20 Lakhs).<br>2. Dr.Chandasree Das, Principal investigator, has established Micro devises lab with financial assistance from DST R&D projects (Rs. 18 Lakhs)<br>3. Dr. S.Srinivas has submitted a proposal to AICTE in the field of post processing of composites |
| **8. Key Issues/ Concerns Pertaining to the Centre** | What are the main issues that the CoE should focus on for the coming period? | (a) Specific application based material development, with a rigorous characterization – with collaboration with industry.<br>(b) Increase emphasis on the physics of materials, modeling and analysis. This is an area of weakness.<br>(c) Rigor in the mechanics of advanced manufacturing systems.<br>(d) Develop indigenous equipment for research.<br>(e) Continuity of activity as the CoE support ends in October. Need to | (a) Two materials are being developed for possible specific applications.<br>i. Phase change memory materials- for Memory device applications<br>ii. Conducting polymers- for Humidity and Gas sensing applications<br>iii. Magneto rheological fluids- In collaboration with NAL<br>(b) Mathematical modelling of post processing of composites and Wear behaviour of MMCs are persuaded<br>(c) Will Pursue in future<br>(d) Will Pursue in future |



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|---|---|---|---|
| | | support the PhD students till the next three years/completion.<br>(f) Continued support with emphasis on outcomes. | (e) Will try to support PhD students with BMSCE management support. |
| **9. Summary of Overall Observations and Specific Recommendations** | (i) What are recommendations for helping the CoE meet the main issues identified above?<br><br>(ii) What other help, guidance or support might they need to tackle the main issues? | The CoE is developing well overall. Remaining funds, if any, should be released. Further, financial support to the PhD and M. Tech students should continue till end of their program (or three years). Funding to CoE should continue at least up to five years from initiation.<br>The CoE needs to actively collaborate with IITs and IISc, as well as with domain experts from across the world, to grow into a national research centre in advanced materials. Weakness in theory and analysis needs to be overcome either through appropriate recruitment of faculty or by training of faculty through schools/short-term courses at IITs and IISc. Recruitment of bright young faculty in the CoE related fields is required to create a critical mass of researchers. Finally, the financial support to students has to continue. Support to students to attend national and international conferences is also essential. | (a) Evaluator's comments are encouraging<br><br>(b) Need at least one year extension and financial support for CoE activities<br><br>(c) Principal Investigators are interacting with professors from IISc, IITM, IIT-Indore, NAL, TAML etc.<br><br>(d) Research scholars and M Tech students are supported to attend national and international conferences |
| **10. Next review** | Has the CoE made sufficient progress that the next scheduled review should take place in a year (towards the end of the TEQIP support), or should the next review take place sooner? Please explain. | Review should take place at its usual time. | |

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Annexure-10.

---------- Forwarded message ----------
From: **National Project Implementation Unit** <teqip.npiu@gmail.com>
Date: Fri, Jan 6, 2017 at 2:45 PM
Subject: Fwd: TEQIP Phase III - PARTICIPATION - Reg ...
To: Mallikharjuna Babu Kayala <drkmbabu@gmail.com>, principal@bmsce.ac.in, viceprincipal@bmsce.ac.in, Ravikumar L <ravibmsce@yahoo.com>, ravi.mech@bmsce.ac.in,
Cc: mgn_204@yahoo.co.in, spfukarnataka@hotmail.com, spfu karnataka <spfukarnataka@gmail.com>, hutalawar@yahoo.co.in, hutalawar@yahoo.com, Rita Goyal <rita.goyal.teqip@gmail.com>, National Project Implementation Unit <npiuwb@hotmail.com>

Dear Sir

As you are aware, the Third Phase of Technical Education Quality Improvement Programme (TEQIP-III) has been approved by the Govt of India to be implemented as a **'Central Sector Scheme'** with total project outlay of Rs.3600 crore. However, the Project is being initiated with an initial cost of Rs 2660 Cr. The initiation and implementation of the project TEQIP-III will bridge this gap for the institutions in the central, eastern and north-eastern region and hill States with specific interventions.
The well performing institutions of TEQIP-I & II will be considered for participation under **Sub-Component 1.3: Twinning Arrangements to Build Capacity and Improve Performance of Participating Institutions and ATUs in the Focus States.** For this purpose, ranking of the institutions is to be done.
In this regard, it is requested to provide the following information with documentary evidence and submit the same to NPIU by **11th January 2017 positively.**

| S.No. | Parameter | Institution's Response with supporting documents |
|---|---|---|
| 1 | Academic Autonomous status by UGC (copy of UGC letter to be attached | |
| 2 | No. of AICTE approved Engineering programmes currently run by the institution | |
| 3 | Percentage of eligible programmes that are NBA-accredited or applied-for NBA accreditation | |
| 4 | Percentage of Faculty with Ph.D in Engineering (Regular & Contract) | |
| 5 | Number of Ph.Ds produced in Engineering discipline (Aug 2010 - till date) | |
| 6 | Number of Publications in Engineering discipline in peer reviewed Journals (Aug 2010- till date) | |
| 7 | Transition rate of students from the first year to the second year of under graduate study | |
| 8 | Number of Indicators of 6th JRM met as on 31st December 2016 as per Annex-I attached. | |

The top ranking institutions will be required to submit Institutional Development proposals.

Please note that the last date has to be adhered with. SPFU is requested to undertake a follow up action to ensure the submission of aforementioned documents within stipulated time.

With kind regards

**(Dr. Rita Goyal)**
**Sr. 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
Web : www.npiu.nic.in

Annex-I

## PERFORMANCE ASSESSMENT INDICATOR (PAIS) OF 6TH JRM

| S.NO | NAME OF PERFORMANCE ASSESSMENT INDICATOR | COMPLIANCE |
|---|---|---|
| 1 | Autonomy (received 2(f) recognition from UGC; and obtained autonomy or applied to UGC for autonomy with no objection from university) (Yes/No) | |
| 2 | Minutes of meeting of Board of Governors taking place in last 4 months published on the institution's website (Yes/No) | |
| 3 | NBA accreditation (55% accredited; or completion application for 55% sent to NBA, i.e., fee paid and Self-Assessment Report having been completed) (Yes/No) | |
| 4 | Commitment of 100% of funds received (Yes/No) | |
| 5 | Expenditure of at least 70% of total funds received (Yes/No) | |
| 6 | Procurement plan to cover 100% of planned procurement expenditures (Yes/No) | |
| 7 | Completion of all data input into the MIS for 2014-15 (exception to be provided for institutions where the results are delayed)(Yes/No) | |
| 8 | Institution has deposited required funds in each of the Four Funds, as against annual expenditure reported in the MIS (Yes/No) | |

Annexure-11

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

| Sl No. | Name of the faculty, Designation & Dept | Details of Program | Place | Workshop/ Conf. Dates | Amount in Rs |
|---|---|---|---|---|---|
| 01. | Smt .B .Prathima<br>Assistant Professor<br>Civil Engineering | GIAN training Programme on "Fate and Transport of Contaminates in Environment" | SJCE, Mysore | June 13-25, 2016 | 3,000/- |
| 02. | Sri. P. Jeevan<br>Assistant Instructor<br>Datacenter | Training on "Vm ware Vsphere 6.0" | Apponix Technologies, Bengaluru | June 18 to July 10, 2016 | 17,500/- |
| 03. | Sri. V. Shanmukhananda<br>Foreman Incharge<br>Industrial Engineering & Management | Training programe on "PC Hardware& Networking" | Advanced Training Institute, Hyderabad | June 20-24, 2016 | 4,700/- |
| 04. | Sri. N. Prathap<br>Mechanic<br>Industrial Engineering & Management | | | | 4,700/- |
| 05. | Sri. T. Rajanna<br>Assistant Professor<br>Civil Engineering | International Conference on Computational Mechanics and Simulation (ICCMS-2016) | IIT, Bombay | June 27 to July 01, 2016 | 16,971/- |
| 06. | Sri. J.J. Lohith<br>Assistant Professor<br>Computer Science & Engineering | Five days FDP on NS-3 and its advanced usage | RNSIT, Bengaluru | June 27 to July 01, 2016 | 3,000/- |
| 07. | Smt.K.Panimozhi<br>Assistant Professor<br>Computer Science & Engineering | | | | 3,000/- |
| 08. | Smt. G.S. Rekha<br>Assistant Professor<br>Computer Science & Engg | | | | 3,000/- |
| 09. | Sri. G. Saravana Kumar<br>Assistant Professor<br>Mechanical Engineering | GIAN workshop on Industrial Tribology | VJTI, Mumbai | July 04-08, 2016 | 13,600/- |
| 10. | Sri. Mallesh R<br>Mechanic<br>Mechanical Engineering | Short term course on Programming and Simulation for CNC Lathe, Programming and Simulation for CNC Milling, CNC Machine maintance & CNC Turn Mill Center with FANUC 0i-TB Setting and Operation | APTEX-HITech Institute, Bengaluru | July 04-29, 2016 | 15,880/- |

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|---|---|---|---|---|---|
| 11. | Sri. C Hariprasad<br>Instructor<br>Mechanical Engineering | Short term course on Programming and Simulation for CNC Lathe, Programming and Simulation for CNC Milling, CNC Machine maintance & CNC Turn Mill Center with FANUC 0i-TB Setting and Operation | APTEX-HITech Institute, Bengaluru | July 04-29, 2016 | 15,880/- |
| 12. | Sri. S. Srikanth<br>Mechanic<br>Mechanical Engineering | | | | 15,880/- |
| 13. | Sri. Basavaraju<br>Assistant Instructor<br>Mechanical Engineering | | | | 15,880/- |
| 14. | Sri. Srinath N<br>Helper<br>Mechanical Engineering | | | | 15,880/- |
| 15. | Sri. T.V. Rajendra Prasad<br>Assistant Instructor<br>Mechanical Engineering | | | | 15,880/- |
| 16. | Smt. A.N. Saritha<br>Mechanic<br>Telecommunication Engineering | Short term course on "Antenna design and Testing | Apex High Tech training Institute, Bengaluru | July 11-15, 2016 | 2,390/- |
| 17. | Smt. Yashaswini<br>Technical Assistant<br>Telecommunication Engineering | | | | 2,390/- |
| 18. | Sri. M.S. Venkatesh<br>Instructor<br>Telecommunication Engineering | Short term course on "Linear ICs and its Application in Communication System | Apex High Tech training Institute, Bengaluru | July 18-22, 2016 | 2,390/- |
| 19. | Sri. T.M. Tukaram<br>Assistant Instructor<br>Telecommunication Engineering | | | | 2,390/- |
| 20. | Sri. G.L. Venkatesha<br>Assistant Instructor<br>Medical Electronics | | | | 2,390/- |
| 21. | Smt. V. Shubha Rao<br>Assistant Professor<br>Information Science & Engineering | 2nd International Conference on Applied and Theoretical Computing and Communication Technology (ICATCCT-2016) | SJBIT, Bengaluru | July 21-23, 2016 | 10,500/- |
| 22. | Smt. K. Rajeshwari<br>Assistant Professor<br>Information Science & Engineering | | | | 10,500/- |
| 23. | Smt. K. Panimozhi<br>Assistant Professor<br>Computer Science & Engineering | | | | 10,500/- |

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|---|---|---|---|---|---|
| 24. | Dr. S.N. Mayanaik<br>Professor<br>Civil Engineering | International Conference on Soil Environment | IISc, Bengaluru | July 22-23, 2016 | 4,000/- |
| 25. | Dr. S.B. Bhanu Prashanth<br>Professor<br>Medical Electronics | Training programme on "Train The Trainer" | 3DPLM Software Solutions Ltd, Pune | July 25-30, 2016 | 14,400/- |
| 26. | Sri . R.N. Ravikumar<br>Assistant Professor<br>Mechanical Engineering | | | | 14,400/- |
| 27. | Sri. G. Saravanakumar<br>Assistant Professor<br>Mechanical Engineering | | | | 14,400/- |
| 28. | Sri. N.V Sreekanth<br>Assistant Professor<br>Mechanical Engineering | | | | 14,400/- |
| 29. | Smt V. Bharathi<br>Assistant Professor<br>Mechanical Engineering | | | | 17,400/- |
| 30. | Dr. G. Chandra Shekara<br>Assistant Professor<br>Mathematics | Faculty development programme on "Theory and Applications of Mathematical Modeling in Engineering" | MSRIT, Bengaluru | July 26-30, 2016 | 2,000/- |
| 31. | Dr. B. Mallikarjuna<br>Assistant Professor<br>Mathematics | | | | 1,750/- |
| 32. | Dr. R.Michaelraj Kingston<br>Assistant Professor<br>Research & Development | one week faculty development training programe on "Research Perspectives of Signal Processing | PSG College of Technology , Coimbatore | August 05-11, 2016 | 4,000/- |
| 33. | Dr. K.P. Lakshmi<br>Electronics & Communication Engineering | One day Symposium on TRIZ Utsava | Bengaluru | August 04, 2016 | 1,006/- |
| 34. | Smt. S.N. Namratha<br>Assistant Professor<br>Electronics & Instrumentation Engineering | International Conferences on Science, Technology, Engineering and Management (ICSTEM) | Bengaluru | August 06, 2016 | 7,756/- |
| 35. | Sri. Chandrappa K Bikkannavar<br>FDA<br>Account Section | Tally Seminar | Bengaluru | August 06 to December 24, 2016 | 2,000/- |

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| 36. | Sri.C.C.Arjun<br>Assistant Professor<br>Mechanical Engineering | Two days workshop on "Tolerance Stackup Analysis of Parts and Assembly" | PES University | August 08-09, 2016 | 1,000/- |
| 37. | Sri Sreekanth N.V<br>Assistant Professor<br>Mechanical Engineering | | | | 1,000/- |
| 38. | Sri.K.M. Shivaraj Kumar<br>Assistant Instructor<br>Telecommunication Engineering | Short term course on "Embedded C Programming with C51 Micro Controller | Apex High Tech training Institute, Bengaluru | August 16-19, 2016 | 2,134/- |
| 39. | Smt.Shamala N Bhat<br>Technical Assistant<br>Telecommunication Engineering | | | | 2,134/- |
| 40. | Dr. Gurumurthy Hegde<br>Professor<br>Research & Development | 2nd International Conference on Science, Technology and Interdisciplinary Research (IC STAR-2016) | Bandar Lampung, Indonesia | August 22-25, 2016 | 42,000/- |
| 41. | Dr.rer.nat.Ananda Rama Krishnan Selvaraj<br>Assistant Professor<br>Research & Development | Visit University of Allahabad, Allahabad | University of Allahabad, Allahabad | August 22-26, 2016 | 14,704/- |
| 42. | Dr. Santhosh R Desai<br>Assistant Professor<br>Electronics & Instrumentation Engineering | International Conference on Inventive Computation Technologies (ICICT-2016) | Coimbatore | August 26-27, 2016 | 13,000/- |
| 43. | Dr. Tataram K. Chavan<br>Assistant Professor<br>Mechanical Engineering | International Conference on Development of Smart Cities: Interface, Governance and Technology | Dr. AIT, Bengaluru | September 09-10, 2016 | 5,000/- |
| 44. | Sri. G. Saravana Kumar<br>Assistant Professor<br>Mechanical Engineering | | | | 5,000/- |
| 45. | Smt.A.N.Nagashree<br>Associate Professor<br>Electrical & Electronics Engineering | | | | 5,000/- |

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|---|---|---|---|---|---|
| 46. | Smt.V.Champa<br>Associate Professor<br>Electrical & Electronics Engineering | International Conference on Development of Smart Cities: Interface, Governance and Technology | Dr. AIT, Bengaluru | September 09-10, 2016 | 5,000/- |
| 47. | Smt. V. Shubha Rao<br>Assistant Professor<br>Information Science & Engineering | International Conference on Sustainable Computing Techniques in Engineering, Science and Management | Noida, Delhi-NCR | September 09-10, 2016 | 21,900/- |
| 48. | Dr.rer.nat.Ananda Rama Krishnan Selvaraj<br>Assistant Professor<br>Research & Development | Visit National Physical Laboratory | New Delhi | September 18-23, 2016 | 19,200/- |
| 49. | Smt. Shailaja V.N.<br>Assistant Professor<br>Industrial Engineering & Management | International Conference on Advanced Materials, Manufacturing , Management and Thermal Sciences (AMMMT-2016) | SIT, Tumkur | September 23-24, 2016 | 7,340/- |
| 50. | Dr. L. Ravikumar<br>Professor & HOD<br>Mechanical Engineering<br>TEQIP Coordinator-II | 2nd International Conference and exhibition on "Fatigue Durability India 2016" | IISc, Bengaluru | September 28-30, 2016 | 5,000/- |
| 51. | Dr. J. Sharana Basavaraja<br>Associate Professor<br>Mechanical Engineering | | | | 5,000/- |
| 52. | Dr. H.K. Rangavittal<br>Associate Professor<br>Mechanical Engineering | | | | 5,000/- |
| 53. | Dr. Shivashankar R Srivatsa<br>Assistant Professor<br>Mechanical Engineering | | | | 5,000/- |
| 54. | Dr. A.R. Anil Chandra<br>Assistant Professor<br>Mechanical Engineering | | | | 5,000/- |

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| 55. | Dr. Raju<br>Assistant Professor<br>Research & Development | 2nd International Conference and exhibition on "Fatigue Durability India 2016" | IISc, Bengaluru | September 28-30, 2016 | 5,000/- |
| 56. | Dr. S. Gowrishankar<br>Professor & HOD'<br>Information Science & Engineering | National Cyber Safety & Security Summit | Anna University, Chennai | September 30 to October 01, 2016 | 22,000/- |
| 57. | Sri.C.A.Niranjan<br>Research Scholar<br>Mechanical Engineering | Visit M/S Venus Engineering industries | M/S Venus Engineering industries , Hyderabad | October 06-07, 2016 | 22,500/- |
| 58. | Dr. L.Ravikumar ,<br>Professor & HOD<br>Mechanical Engineering<br>&TEQIP Coordinator-II | International Conclave on Higher Education 2016 (ICHE-2016) | Mahatama Mandir, Gandhinagar, Gujarat | October 17-19, 2016 | 17,500/- |
| 59. | Dr.M.S.Dharmaprakash,<br>Professor & HOD<br>Chemistry &<br>Nodal Officer<br>[Procurement] | | | | 17,500/- |
| 60. | Dr.M .Ramachandra<br>Professor<br>Mechanical Engineering &<br>COE Coordinator | 18th International Conference on Composite Materials–ICCM 2016 | London, UK | October 17-18, 2016 | 1,30,000/- |
| 61. | Dr. S. Srinivas<br>Associate Professor<br>Mechanical Engineering &<br>Principal Investigator-<br>COE | | | | 1,30,000/- |
| 62. | Dr. M.V. Murugendrappa<br>Associate Professor<br>Physics and Principal<br>Investigator- COE | | | | 1,30,000/- |
| 63. | Dr.Y.S.Rammohan<br>Associate Professor<br>Mechanical Engineering | International Conference of Smart Engineering Materials(ICSEM-2016) | RVCE, Bengaluru | October 21-22, 2016 | 4,410/- |
| 64. | Smt. Anushalalitha<br>Assistant Professor<br>Telecommunication Engineering | National Conference on "Recent Advances in Wireless Communications for the Design of Smart Antennas | Annamalai University, Chidambaram | October 22-23, 2016 | 3,500/- |

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| 65. | Dr Mangala Keshava<br>Associate Professor<br>Civil Engineering | International Conference and Exhibition on Recent Developments in Design and Construction Technologies of Tall Structures (REDECON-2016) | Nimhans Convention Centre , Bengaluru | November 09-12, 2016 | 7,000/- |
| 66. | Dr.Savithri Bhat<br>Associate Professor<br>Biotechnology | XIII Triennial National Conference of the Indian Women Scientists, Association (IWSA) on "Sustainable Development in India Role of Science & Technology" | IWSA ,Navi Mumbai | December 02-04, 2016 | 10,400/- |
| 67. | Dr. V. Salsha<br>Assistant Professor<br>Biotechnology | XIII Triennial National Conference of the Indian Women Scientists, Association (IWSA) on "Sustainable Development in India Role of Science & Technology" | IWSA ,Navi Mumbai | December 02-04, 2016 | 9,744/- |
| 68. | Smt.N.Prathibha<br>Assistant Professor<br>Biotechnology | | | | 10,900/- |
| 69. | Sri.C.A.Niranjan<br>Research Scholar<br>Mechanical Engineering | one day workshop on "Nano Characterization" | CMTI, Bangalore | December 02, 2016 | 700/- |
| 70. | Smt.Sutar Rani Ananda<br>Research Scholar<br>Physics | | | | 700/- |
| 71. | Sri.Ram Rohit V<br>Assistant Professor<br>Mechanical Engineering | Course on "Molecular view for Polymer Rheology" | IISC, Bengaluru | December 05-10, 2016 | 6,200/- |
| 72. | Dr.B.Kanmani<br>Professor & HOD<br>Telecommunication Engineering | Preconference workshop on "Conceive Design Implement Operate" | Thiagarajar College of Engineering, Madurai | December 07, 2016 | 13,000/- |

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| 73. | Dr.L.Ravikumar<br>Professor & HOD<br>Mechanical Engineering | National Tribology Conference (NTC-2016) | IIT, Varanasi | December 07-10, 2016 | 26,923/- |
| 74. | Dr.J.Sharana Basavaraja<br>Associate Professor<br>Mechanical Engineering | | | | 26,424/- |
| 75. | Sri.Rajesh.P<br>Assistant Professor<br>Mechanical Engineering | | | | 26,923/- |
| 76. | Sri. Raghu Yogaraju<br>Assistant Professor<br>Mechanical Engineering | National Tribology Conference (NTC-2016) | IIT, Varanasi | December 07-10, 2016 | 27,025/- |
| 77. | Dr.B.R.Shambhavi<br>Associate Professor<br>Information Science & Engineering | 4th IEEE International Conference on MOOCs, Innovation and Technology in Education MITE'16 | Thiagarajar College of Engineering, Madurai | December 09-10, 2016 | 25,400/- |
| 78. | Dr.G.Keerthiga<br>Assistant Professor<br>Chemical Engineerig | | | | 22,800/- |
| 79. | Smt.T.Anushalalitha<br>Assistant Professor<br>Telecommunication Engineering | | | | 15,000/- |
| 80. | Sri.B.Venkatesh<br>Assistant Professor<br>Electrical & Electronics Engineering | Ten days workshop on "Power Electronics for Renewable Energy Systems " | NIT, Goa | December 08-17, 2016 | 13,200/- |
| 81. | Dr.B.Mallikarjuna<br>Assistant Professor<br>Mathematics | Indian Society of Theoretical and Applied Mechanics (ISTAM) | VIT, Vellore | December 11-14,2016 | 5,720/- |
| 82. | Dr.G.Madhu<br>Assist ant Professor<br>Chemistry | 21st International Conference on Organic Synthesis | IIT, Bombay | December 11-16, 2016 | 27,000/- |

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| 83. | Dr. Veena N Hegde<br>Associate Professor<br>Electronics & Instrumentation Engineering | 13th International IEEE India Conference, INDICON-2016 | IISc, Bengaluru | December 16-18, 2016 | 8,900/- |
| 84. | Sri. Ugrasen G<br>Assistant Professor<br>Mechanical Engineering | International Conference All India Manufacturing Technology Design and Research (AIMTDR-2016) | College of engineering, Pune | December 16-18, 2016 | 17,180/- |
| 85. | Sri.H.S. Sathish<br>Assistant Professor<br>Civil Engineering | 77th IRC Annual Session | Hitex Exhibition Center, Hyderabad | December 17, 2016 | 10,500/- |
| 86. | Sri.H.S. Sathish<br>Assistant Professor<br>Civil Engineering | International Conference on 12th Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC-2016) | IIT, Bombay | December 19-21 2016 | 38,060/- |
| 87. | Dr.R.Michaelraj Kingston<br>Assistant Professor<br>Telecommunication Engineering | QIP short term course on "Numerical Methods for Engineers and Scientist" | IISC, Bengaluru | December 19-23, 2016 | 2,000/- |
| 88. | Sri.K.Balachandra<br>Assistant Professor<br>Telecommunication Engineering | QIP short term course on "Numerical Methods for Engineers and Scientist" | IISC, Bengaluru | December 19-23, 2016 | 2,000/- |
| 89. | Dr. G. Varaprasad<br>Associate Professor<br>Computer Science & Engineering | Visiting Network lab | New Delhi | December 20 , 2016 | 10,000/- |
| 90. | Dr. Veena N Hegde<br>Associate Professor<br>Electronics & Instrumentation Engineering | IEEE HTC-2016 | Dayalbagh, Agra | December 21-23, 2016 | 16,560/- |
| 91. | Smt. M. Vasantha Lakshmi<br>Assistant Professor<br>Telecommunication Engineering | Short term course on Cooperative 4G/5G MIMO wireless Technology and Research Opportunities | MSRIT, Bengaluru | December 28-30, 2016 | 6,680/- |

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| 92. | Smt.K.P.Pushpavathi<br>Assistant Professor<br>Telecommunication Engineering | Short term course on Cooperative 4G/5G MIMO wireless Technology and Research Opportunities | MSRIT, Bengaluru | December 28-30, 2016 | 6,680/- |
| 93. | Sri. R.M.Shivaraju<br>Assistant Instructor<br>Electrical & Electronics Engineering | Two day workshop on "Grounding of Electrical Installations" | Acharya Institute of Technology, Bangalore | December 29-30, 2016 | 1,280/- |
| 94. | Sri.K.Selvan<br>Assistant Instructor<br>Electrical & Electronics Engineering | | | | 1,620/- |
| 95. | Sri.Ramamurthy J<br>Helper<br>Electrical & Electronics Engineering | | | | 1,280/- |
| 96. | Sri. S.Venkatesh<br>Helper<br>Electrical & Electronics Engineering | | | | 1,280/- |
| 97. | Sri.P.K.Arumugam<br>Helper<br>Electrical & Electronics Engineering | | | | 1,620/- |
| 98. | Dr Reshmi Devi .T.V<br>Assistant Professor<br>Civil Engineering | International Conference on Transformations in Engineering Education (ICTIEE-2017) | Vardhman College of Engineering ,Hyderabad | January 06-08, 2017 | 15,000/- |
| 99. | Smt. Nethravathi S<br>Assistant Professor<br>Electrical & Electronics Engineering | International Conference on Transformations in Engineering Education (ICTIEE- 2017) | Manipal University, Jaipur | January 09-14, 2017 | 16,100/- |
| 100. | Sri. Madhav Murthy<br>Assistant Professor<br>Mechanical Engineering | | | | 10,700/- |
| 101. | Smt. Shabnam Siddiqui<br>Assistant Professor<br>Chemical Engineering | GIAN course on "Advances Opportunities in Passive Micro & Miniature Technologies for Energy and Thermal Systems" | IIT, Indore | January 09-13, 2017 | 11,000/- |

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| 102. | Sri.Sreenivasa Murthy Assistant Professor Civil Engineering | Workshop on Design & Development of sustainable concrete in the era of global warming | NITK, Surathkal | January 09-10, 2017 | 8,100/- |
| 103. | Dr.G.Keerthiga Assistant Professor Chemical Engineering | International Conference on "Asia Pacific Congress on Catalysis-7" | Mumbai | January 15-22, 2017 | 21,000/- |

**DETAILS OF INHOUSE PROGRAMS CONDUCTED IN THE COLLEGE UNDER TEQIP- II/COE THAT WERE APPROVED BY THE SUB-COMMITTEE BY CIRCULATION**

| Sl No. | Name of the Department | Title of Program | Programme Dates | Amount in Rs |
|---|---|---|---|---|
| 01. | Electronics & Instrumentation Engineering | One week workshop on "Industrial Automation | July 11-16, 2016 | 33,000/- |
| 02. | Computer Science & Engineering | Faculty Development Programme on "Internet of Things | July 18-22,2016 | 83,000/- |
| 03. | Mathematics | One week workshop on "Project Management and Evaluation" | July 18-24, 2016 | 1,50,000/- |
| 04. | Electronics & Communication Engineering | Faculty Development programme on "EMI and EMC" | July 25-29, 2016 | 52,250/- |
| 05. | Mechanical Engineering | Faculty Development Programme on "Fatigue and Fracture Mechanics | July 25 to August 05,2016 | 2,59,000/- |
| 06. | TEQIP | One day Faculty Orientation Programme | August 01, 2016 | 10,000/- |
| 07. | Electrical & Electronics Engineering | MATLAB for Design and Simulation Programme | August 01-03, 2016 | 13,500/- |
| 08. | TEQIP | Three days' workshop on "Process of Accreditation for Polytechnics" | August 02-04, 2016 | 50,000/- |
| 09. | Chemistry and Biotechnology | National Symposium on Fundamentals of Drug Discovery Process-Industrial Perspective (FUNDIP-2016) | August 05,2016 | 40,000/- |
| 10. | Mechanical Engineering | One week workshop on CAMD with solid Works Software and GD & T | August 08-12, 2016 | 63,000/- |
| 11. | Mathematics | Three days' workshop on Personality Development-An Indian Perspective | August 08-10, 2016 | 23,000/- |

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| 12. | Mathematics | Orientation program on PENTAGRAM | September 10, 2016 | 4,530/- |
| 13. | Medical Electronics | Phase Shift 2016 | September 23-24, 2016 | 4,50,000/- |
| 14. | Civil Engineering | 3rd International Conference on "Transportation Systems Engineering & Management " | November 24-25, 2016 | 2,90,000/- |
| 15. | Mechanical Engineering | Two weeks Faculty Development programme on "3M- Modeling, Materials and Manufacturing". | November 28th to December 09,2016 | 2, 51,000/- |
| 16. | Center of Excellence in Advanced Materials Research | All India Seminar on "Clean Technology Smart Micro Grid to Smart City" | November 29-30, 2016 | 1,00,000/- |
| 17. | Mathematics | Two week FDP on "Graph Theory- Algorithms & Applications" | December 26th 2016 to January 07, 2017 | 3,53,000/- |
| 18. | Information Science & Engineering | One week workshop on "Machine Learning" | January 05-10, 2017 | 93,000/- |
| 19. | Mechanical Engineering | Two days' workshop on Awareness Programme on NABL Accreditation | January 06-07, 2017 | 30,800/- |

Annexure-12

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

| Sl No. | Name of the faculty Designation & Dept | Details of Program | Place | Workshop Dates | Amount |
|---|---|---|---|---|---|
| 1. | Dr. M.S. Suma<br>Professor<br>Medical Electronics | Clinical Data Analytics, Statistical and Machine Learning using R & Python | MSRIT, Bengaluru | January 23-26,2017 | 6,500/- |
| 2. | Dr. Vanishree B N<br>Assistant Professor<br>Mathematics & Humanities | National Conference on Reading Texts Today: A Cross Disciplinary Endeavour | Holy Cross College, Nagarcoil | January 24-25,2017 | 10,210/- |

**THE DETAILS OF STUDENTS WHO HAVE PROPOSED TO ATTEND PROGRAMS OUTSIDE THE COLLEGE UNDER TEQIP-II**

| Sl No. | Name of Student& Dept | Details of Program | Place | Workshop Dates | Amount |
|---|---|---|---|---|---|
| 1. | Smt. B.G. Sudha<br>Research Scholar<br>Computer Science & Engineering | 4th International Conference on Signal Processing and Integrated Networks(SPIN 2017) | Amity University, Noida | February 01-04,2017 | 12,035/- |
| 2. | Smt. Afreen Aman<br>M.Tech Student<br>Civil Engineering | Bangalore India Nano Conference | Bangalore | February 09-11,2017 | 3,000/- |
| 3. | Smt.Jagadishwari V<br>Research Scholar<br>Computer Science & Engineering | 2nd International IEEE Conference on Electrical, Computer and Communication Technologies | SVS College of Engineering, Coimbatore | February 22-24,2017 | 5,960/- |

**DETAILS OF INHOUSE PROGRAMS PROPOSED FOR CONDUCTION IN THE COLLEGE UNDER TEQIP-II/COE**

| Sl No. | Name of the Department | Title of The Program | Programme Dates | Amount |
|---|---|---|---|---|
| 1. | Mathematics | One week FDP on "Advanced Numerical Techniques for Engineers and Researchers" | January 23-28,2017 | 1,50,000/- |
| 2. | Electrical & Electronics Engineering | Two days' workshop on "Voice Controlled Robotic Arm" | January 28-29,2017 | 75,000/- |

Annexure-13

**THE DETAILS OF STUDENTS WHO HAVE ATTENDED THE PROGRAMS OUTSIDE THE COLLEGE UNDER TEQIP- II/COE THAT WERE APPROVED BY THE SUB-COMMITTEE BY CIRCULATION**

| Sl No. | Name of the student, & Dept | Details of Program | Place | Workshop/ Conf. Dates | Amount |
|---|---|---|---|---|---|
| 01. | B.V. Balaji Prabhu<br>Research Scholar<br>Information Science & Engineering | Training on "Handoop for Big data Analytics" and "Analytics Using Apache Spark" | C-DAC knowledge Park, Bengaluru | June 27-30, 2016 | 10,000/- |
| 02. | B.G. Sudha<br>Research Scholar<br>Computer Science & Engineering | Proficiency Course on "Recent Trends in Data Analytics" | RVCE, Bengaluru | July 25-30, 2016 | 3,600/- |
| 03. | Shankru Guggari<br>Research Scholar<br>Computer Science & Engineering | | | | 3,000/- |
| 04. | B.V.Balaji Prabhu<br>Research Scholar<br>Information Science & Engineering | International Conference on 'Sustainable Computing Techniques in Engineering, Science and Management (SCESM-2016) | Noida, Delhi-NCR | September 09-10, 2016 | 14,896/- |
| 05. | H. Vijaykumar<br>Research Scholar<br>Civil Engineering | Two day advanced course on "Life Enhancement of RC Structural Components Through Repair and Retrofit (RELIEFE-2016)" | CSIR-SERC, Chennai | September 22-23, 2016 | 3,600/- |
| 06. | Ashwini Aniruddha Shahadani<br>Research Scholar<br>Biotechnology | Four day workshop on Mass Spectroscopy based Quantitative Proteomics for Beginners | Institute of Bioinformatics Bengaluru | September 26-29, 2016 | 17,250/- |
| 07. | Srinivas M.D<br>BE student<br>Industrial Engineering & Management | International Conference on Smart Strategies for Digital World | Shri Ramdeobaba College of Engineering Management Nagpur | October 21-22, 2016 | 9,997/- |
| 08. | Bharath Naik G<br>BE student<br>Industrial Engineering & Management | | | | 11,851/- |
| 09. | B.S. Sowmya Lakshmi<br>Research Scholar<br>Information Science & Engineering | Two day National workshop on Research Methodology | Cambridge Institute of Technology, Bengaluru | October 21-22,2016 | 1,200/- |
| 10. | Srivas M.C<br>BE student<br>Telecommunication Engineering | IEEE International Conference on Communication and Electronics Systems(ICCES 2016) | PPG Institute of Technology , Coimbatore | October 21-22, 2016 | 7,600/- |

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|---|---|---|---|---|---|
| 11. | Afreen Aman<br>M.Tech [Environmental Engineering]<br>Civil Engineering | International Conference on Kerala Environment Congress -2016 | Thiruvanathapuram | November 28-30, 2016 | 7,250/- |
| 12. | Eshwar S.G<br>BE student<br>Computer Science & Engineering | IEEE International Conference on ICT in Business Industry Government (ICTBIG-2016) | Sri. Aurobindo Institute of Technology, Indore | November 18-19,2016 | 9,875/- |
| 13. | Madhav Poddar<br>BE student<br>Computer Science & Engineering | | | | 9,875/- |
| 14. | Sutar Rani Ananda<br>Research Scholar<br>Physics | one day workshop on "Nano Characterization" | CMTI, Bangalore | December 02, 2016 | 700/- |
| 15. | C.A. Niranjan<br>Research Scholar<br>Mechanical Engineering | | | | 700/- |
| 16. | D.V. Rajeshwari Devi<br>Research Scholar<br>Electronics & Communication Engineering | IEEE International Conference Computational Intelligence and Computing Research (ICCIC) | Agni College of Technology, Chennai | December 15-17,2016 | 8,873/- |
| 17. | Srinivas M.D<br>BE student<br>Industrial Engineering & Management | 4th International Conference on the Best Practices in Supply Chain Management(BPSCM) | Trivendrum | December 22-23,2016 | 14,263/- |