



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

CONTENTS

SNo	Subject	Page No
Section 1	CONFIRMATION OF THE MINUTES	
1.1	Confirmation of the minutes of the 64 th BOG meeting held on 11 th January 2017	1
1.2	To note the action taken on the decisions / resolutions of the 64 th BOG meeting held on 11 th January 2017	2
Section 2	COLLEGE REPORT	
2.1	Report of the Academic Activities of the College	2
2.2	Brief presentation on student activities by Dean (Student Affairs)	2
2.3	Brief presentation on result analysis by Controller of Examination	4
2.4	Brief presentation by Placement Officer	4
Section 3	INFORMATION ITEMS	
3.1	Report regarding extension of Autonomous Status	4
3.2	Dismissal of Cases filed by Smt. Reena K.G. the then Assistant Professor, Dept of Mechanical Engineering	5
3.2.1	Dismissal of Case filed before the Additional Chief Secretary, Higher Education Dept, Bangalore	5
3.2.2	Dismissal of Case filed before the Additional City Civil & Sessions Judge, Bangalore	5
Section 4	ITEMS FOR RATIFICATION	
4.1	Representation from Sri.Arjun C.C., Assistant Professor, Department of Mechanical Engineering requesting for pursuing PhD under External Registration at IISc., Bangalore	6
4.2	Ratification of the Minutes of the Meeting of the Promotion Committee held on 23.01.2017	6
Section 5	ITEMS FOR APPROVAL	
5.1	Approval of the Revised Budget for the Financial Year 2016-17 & the Draft Budget for the Financial Year 2017-18	7
5.2	Report regarding TEQIP activities	7
5.2.1	Minutes of the 20 th & 21 st Meetings of the Sub-Committee of BOG of TEQIP Phase-II	7
5.2.2	Participation in TEQIP III	8
Section 6	Any other subject/s with the permission of the Chair	8
6.1	Report regarding variation in intake for the Academic Year 2017-18	
Annexure-I – Service details of Smt.Reena K.G.		10
Annexure-II – Minutes of the Promotion Committee and list of re-designated technical staff		15
Annexure-III – Budget for the financial year 2017-18		20
Annexure-IV – Minutes of the 20 th & 21 st meetings of sub-committee of BOG of TEQIP Phase-II		43



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

MEMBERS PRESENT:

○ Dr.P.Dayananda Pai	Chairman
○ Dr.B.S.Ragini Narayan	Member
○ Sri.K.Jairaj, IAS (Retd)	Member
○ Dr.D.Thukaram	Member
○ Dr.B.V.Ravishankar	Member
○ Col. (Retd.,) H.S.Shankar	Member
○ Dr.H.N.Suma	Member
○ Dr.K.Mallikharjuna Babu	Member-Secretary

LEAVE OF ABSENCE:

○ Sri.H.U.Talawar	Member
○ Prof.Nirmal Singh Sehra	Member
○ Sri.M.Krishnaswamy	Member

INVITEES:

- Dr.H.S.Jagadeesh
- Dr.G.N.Mohan Babu
- Dr.K.Guruprasad
- Sri.Gautham Kalathur
- Col.(Retd.,) Arun Bhandarkar
- Col. (Retd.,) K.V.N.Swamy
- Sri.Panchakshari
- Dr.Samita Maitra
- Dr.C.Lakshminarayana

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

Section 1: ITEMS FOR CONFIRMATION & ACTION TAKEN REPORT

1.1 CONFIRMATION OF THE MINUTES OF THE 64TH BOG MEETING HELD ON 11TH JANUARY 2017

The minutes of the 64th meeting of the Board of Governors (BOG) held on 11th January 2017 were confirmed.

24



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

1.2 TO NOTE THE ACTION TAKEN ON THE DECISIONS / RESOLUTIONS OF THE 64TH BOG MEETING HELD ON 11TH JANUARY 2017

The BOG noted the Action Taken Report (ATR) of the 64th meeting of the BOG held on January 11, 2017 and approved.

Section 2: COLLEGE REPORT

2.1 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). The Member-Secretary presented some of the important activities from January 2017 to March 2017 and its outcomes. The Board noted and appreciated the report.

While on the subject, the Member-Secretary informed that Dr. Gurumurthy Hegde, Associate Professor, BMS R&D Centre and Prof. CNR Rao Chair has been awarded Sir C.V. Raman State Award for Young Scientist by the Government of Karnataka. The Board congratulated and requested the Member-Secretary to convey their appreciation to the recipient.

2.2 BRIEF PRESENTATION ON STUDENT ACTIVITIES BY DEAN (STUDENT AFFAIRS)

The Dean (Student Affairs) made a brief presentation of the student activities/achievements. The Dean also presented the annual magazine of Illuminati and a report on NSS activities.

At this juncture, the III & IV Year students representing seven departments of the College were invited by the Board to provide their feedback on academics and also measures they feel would further improve the academic processes.



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

The students expressed their overall satisfaction with the facilities provided for various academic, Para-academic and extra-curricular activities in the Department/College. They also put-forth the following suggestions towards services and facilities:

- To keep the selected laboratories, open after the class hours as followed in case of the central library
- To enhance industrial interface in terms of
 - Industrial visits in general and dept. of Electronics & Communication in particular
 - Enhancing the number of Industry interactions and interface
 - Internships (internships during summer, internships in big MNCs, internships during IV semester on JAVA & Web Development) and
 - Placement opportunities need to be further strengthened for Telecommunication Engineering, Medical Electronics and Electronics & Instrumentation Engineering students and also for the lateral entry students
- To enhance Aptitude Training, Soft Skill Training, Technical Writing, Coding Skills and GATE Coaching.
- To enhance MOUs/linkages in all the departments for academic and Professional Development
- To enhance the internet speed in laboratories
- Require more guidance in respect of available Project Funds and Scholarships

The Board informed the Member-Secretary to consider the above suggestions and issue necessary instructions to the concerned. The Board also directed the Vice Principal/Dean (Student Affairs) to have meetings with concerned HODs and ensure the compliance in this regard.

The Board thanked the student representatives for their suggestions and informed them that their suggestions would be considered.



BMS COLLEGE OF ENGINEERING, BENGALURU-19

BOARD OF GOVERNORS (BOG)

Minutes of 65th Meeting

April 12, 2017

2.3 BRIEF PRESENTATION ON RESULT ANALYSIS BY CONTROLLER OF EXAMINATION

The Controller of Examination (COE) presented a detailed report on the Results of Semester End Examination.

The Board directed the COE to re-submit the result analysis in the next meeting of the BOG by suitably including/determining the parameters of result presentation. While on the subject, the Board also directed the Principal to inform the HODs of the departments having below-par result success rate to analyse the reasons for the same and ensure that they are overcome.

2.4 BRIEF PRESENTATION BY PLACEMENT OFFICER

The Placement Officer presented a brief report on the Placement and Internships related activities. He apprised that the placements are fairly good in spite of general decline in the overall placements due to changes in the global market. After detailed deliberations, the Board opined that the placement office should develop/enhance alumni connect for enhancing the number of internships.

Section 3: INFORMATION ITEMS

3.1 REPORT REGARDING EXTENSION OF AUTONOMOUS STATUS

The Member-Secretary informed that the University Grants Commission (UGC) through communication dated 28.02.2017 has conveyed to grant extension of autonomous status to BMSCE for a period of six years w.e.f. 2016-2017 to 2021-2022. The Visvesvaraya Technological University (VTU) has also conveyed its concurrence vide its letter No.VTU/Aca/2016-17/A-11/151 dated 04.04.2017. The Board expressed its appreciation for the efforts of Principal, Faculty, Staff, Students, Alumni and all Stakeholders in this regard.



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

3.2 DISMISSAL OF CASES FILED BY SMT. REENA K.G. THE THEN ASSISTANT PROFESSOR, DEPT OF MECHANICAL ENGINEERING

The Member-Secretary apprised the Board that Smt.Reena K.G. was working as Lecturer in Printing Technology w.e.f 12.10.2000 with the qualification of B.E. in Printing Technology (service details shown at Annexure-I) and the following cases filed by her have been dismissed:

3.2.1 DISMISSAL OF CASE FILED BEFORE THE ADDITIONAL CHIEF SECRETARY, HIGHER EDUCATION DEPT, BANGALORE

The Board took note that Smt.Reena K.G. has filed Petition No. 15/2015 before the Additional Chief Secretary, Higher Education Dept. with the prayer to direct the respondent to consider the representation submitted by her on 26.06.2015, seeking review/ revocation of the order of suspension (suspended due to her act of threatening the students) dated: 07.05.2012 within the time frame specified by this Hon'ble authority. The said petition has been dismissed on 01.04.2016 for default since the appellant did not appear before the said authority.

The Board also noted that the dismissed petition was restored by the Additional Chief Secretary, Higher Education on 07.09.2016 on the request of the Petitioner and the said petition has also been dismissed on 18.02.2017.

3.2.2 DISMISSAL OF CASE FILED BEFORE THE ADDITIONAL CITY CIVIL & SESSIONS JUDGE, BANGALORE

The BOG in its meeting held on 31.03.2016, decided to remove Smt. Reena K.G. from service and imposed a penalty of removal from service has been imposed on her in order No.EST/P-545/2016 dated 31.05.2016. Smt. Reena K G. has challenged the order of her removal from service in the court of the XXXIX Additional City Civil Judge (CCH-40 at Bangalore by filing case No.MA (EAT) No.11/2016.

The Board took note that the honourable court has ordered (dated 27.01.2017) that the "appeal filed under Section 94 of the Karnataka Education Act, 1983 by the appellant against the respondents is hereby dismissed".



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

While on the subject, the member secretary informed the Board that on the advice of the College Advocate, Caveat Petition No.1398/2017 (Memorandum of Caveat Petition U/S 148-A of code of Civil procedure 1908) in MA (EAT) No.11/2016 has been filed in this case.

The Board took note of the same and ratified the action taken.

Section 4: ITEMS FOR RATIFICATION

4.1 REPRESENTATION FROM SRLARJUN C.C., ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING REQUESTING FOR PURSUING PhD UNDER EXTERNAL REGISTRATION AT IISc., BANGALORE

The Board ratified the issue of No Objection Certificate (NOC) to Sri.Arjun C.C., Assistant Professor, Department of Mechanical Engineering working under Management Cadre to pursue PhD under External Registration at Indian Institute of Science, Bangalore under QIP.

4.2 RATIFICATION OF THE MINUTES OF THE MEETING OF THE PROMOTION COMMITTEE HELD ON 23.01.2017

The Member-Secretary apprised that the Local Inquiry Committee of VTU during its visit to the institution for the AY 2016-17 had cited deficiency in respect of Non-Teaching (Technical) positions of Foreman, Instructor, System Analyst and Programmers across departments. In view of this, process was initiated to re-designate the eligible staff in the next higher cadre as one time measure.

In accordance with the orders of the Chairman, the Promotion Committee verified the list of staff members possessing prescribed qualification, requisite service. The Committee recommended the following conditions for re-designation:

1. Criteria adopted: The eligibility-qualification and experience as per C&R norms; and staff should have reached the minimum basic pay in the pay scale of the immediate next higher (re-designated) cadre;
2. This is to be treated as special case without monetary benefit, one time measure and not to be treated as precedence



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

Accordingly, necessary orders were issued to eligible non-teaching (technical) staff members.

The Board ratified the approval of the Chairman to re-designate the eligible staff in the next higher cadre as referred above (the minutes & list of technical staff are listed at Annexure-II).

Section 5: ITEMS FOR APPROVAL

5.1 APPROVAL OF BUDGET FOR THE FINANCIAL YEAR 2017-18

The Board approved the budget for the financial year 2017-18 (copy enclosed at Annexure-III).

5.2 REPORT REGARDING TEQIP ACTIVITIES

5.2.1 MINUTES OF THE 20TH & 21ST MEETINGS OF THE SUB-COMMITTEE OF BOG OF TEQIP II

The Vice-Principal and the TEQIP-II Coordinator-I presented a brief report on the activities of TEQIP-II along with component wise details of amount sanctioned, sanction of Centre of Excellence and expenditure incurred under the Project from its initiation.

The Vice-Principal also apprised the Board that the 20th and 21st meetings of the sub-committee of BOG of TEQIP-II were held on 06.03.2017 and 05.04.2017 respectively. The TEQIP-II project has been successfully completed and closed on 31.03.2017.

The Vice-Principal expressed his thanks to the Management, Sub-Committee members and all stake holders for their support towards successful implementation of the project. The Vice-Principal also thanked the former Vice Principal and TEQIP-II Coordinator-I, Prof. G.N. Shekar for his services rendered in successful completion of the TEQIP-II project by ensuring the conduction of the activities within the time frame which has led to the recognition as a best Performance Institution in India and fetched additional grants as well. The Vice-Principal also thanked all the Principal, Nodal Officers, HODs, faculty for their support and cooperation.



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

The Board noted the activities conducted/approved by the sub-committee and confirmed the minutes (Annexure-IV) of the 20th and 21st meetings of the sub-committee of BOG for TEQIP-II held on 06.03.2017 and 05.04.2017.

The Board thanked the members of the BOG Sub-Committee of TEQIP-II for their guidance in implementing the Project successfully.

The Board congratulated the Principal, former & present Vice Principals & TEQIP-II Coordinator-I, TEQIP-II Coordinator-II and the Nodal Officers for their services.

5.2.2 PARTICIPATION IN TEQIP-III

The Vice-Principal & TEQIP Coordinator-I apprised that the NPIU through its communication dated 17.02.2017 has conveyed that BMSCE has been recognised as a best Performance Institution in India and shortlisted as Mentor Institute under TEQIP-III (Sub-Component 1.3) for twining focus state institutions under Sub-Component 1.1. The selection of shortlisted institutes would be through Challenge method and commence from 22.02.2017. The TEQIP-III institutes need to deposit at least 8% of their revenue every into a Sustainability Fund as per the TEQIP-III guidelines.

The Board was further apprised that TEQIP-III institutes are required to deposit at least 8% of their revenue every year into a sustainability fund as per the TEQIP-III guidelines.

After detailed deliberations, the Board resolved to participate in TEQIP-III if the deposit of 8% is not made mandatory on the part of the Institution.

Section 6: ANY OTHER ITEMS

ANY OTHER SUBJECT/S WITH THE PERMISSION OF THE CHAIR

6.1 REPORT REGARDING VARIATION IN INTAKE FOR THE ACADEMIC YEAR 2017-18

The Member-Secretary submitted before the Board the following details with regard to application submitted to AICTE in the context of Extension of Approval and Variation of Intake for the AY 2017-18.



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

The Scrutiny Committee of AICTE made the following recommendations with regard to variation of intake:

- The Committee shall recommend to AICTE for granting Extension of Approval (EOA) for a period of three years since the UGC has accorded autonomous status to the Institution for the period up to 2021-2022;
- The Committee opined that the variation of intake can be considered based on the NBA accreditation status for the period beyond 10th April 2018. Accordingly, the Committee recommended increase in intake only for the UG programme of Civil Engineering from 120 to 180.

After detailed deliberations, the Board recommended not to implement increase in intake of Civil Engineering immediately owing to less demand of the programme.

6.2 NIRF RANKING

The Board noted that BMSCE being ranked 52nd position amongst all the engineering colleges in the Country with overall score of 42.86 points.

While on the subject, the Board directed the Member-Secretary to have a meeting with Vice-Principal, Deans & HODs and initiate necessary measures in the parameters where the institution was rated less and ensure that the ranking improves during the subsequent ranking exercise of NIRF.

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


MEMBER-SECRETARY


CHAIRMAN



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

ANNEXURE-I

SERVICE DETAILS OF SMT.K.G.REENA, LECTURER, DEPT. OF PRINTING TECHNOLOGY

SNo	Details	Date & Qualification		Remarks
1	Date of Birth	02.05.1978		
2	Qualification at the time of appointment as Lecturer, Department of Printing Technology in BMSCE	B.E. (Printing Tech.)		
3	Appointed as Lecturer on Adhoc Basis on consolidated salary of Rs.5,000/- per month	Duration		
		From	To	
		12.10.2000	28.02.2001	-
4	Services continued on consolidated salary of Rs.7,000/- per month	29.03.2001	30.09.2001	-
5	Extended AICTE Scales of Pay	01.10.2001		-
6	Sanctioned study leave for seven months to pursue MS (by Research) with financial benefit (including one month extension)	16.07.2002	27.02.2003	-
7	Placed in Senior Scale under CAS	01.02.2007		-
8	Smt.K.G.Reena sought transfer to Dept. of Mech. Engg.	28.07.2009		-
9	She was called for interview to appear before the SSC	30.07.2009		SSC did not recommend



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

BOG DIRECTIONS & COMPLIANCE

SNo	Details	BOG Date	Remarks
10	The Board advised the Principal to seek legal opinion for relieving her from the service with all the entitled benefits as per norms to her and place it before the Board at its next meeting.	24.09.2009	-
11	Board directed to request the HoD of Mechanical Engg. to verify the suitability of the services to the Dept.	25.03.2010	Not suitable for teaching - however a peer review conducted
12	Board directed to inform her to upgrade her qualification	26.04.2010	Her submission that she is having PG in Mechanical and not willing to take up M.Tech again
13	HoD informed she is not suitable for teaching. She can handle only elementary subjects. Board resolved to transfer to Dept. of Mech. Engg. pending clarification by the VTU	12.08.2010	Registrar, VTU, informed to follow AICTE norms
14	<p>The Board noted :</p> <ul style="list-style-type: none">• qualification acquired by Smt. K. G. Reena and the eligibility criteria as per rules• VTU's direction to follow the AICTE/State Government rules prescribed for faculty recruitment• The Board examined the service details of Smt. K.G. Reena and noted that her qualification is not suitable for the Mechanical Engineering• The Board opined that she should have a Master's Degree (ME/M.Tech.) to justify/consider her request for transfer to the Department of Mechanical Engineering• Considering her long service, the Board has taken a lenient view and decided to continue her service with a condition that she should acquire the Post-Graduate qualification in Mechanical Engineering• The Board directed that she should register for the Post-Graduate programme in Mechanical Engineering for the ensuing Academic Year i.e., 2011-12• Considering her case sympathetically (as special case & onetime measure) the Board agreed to extend the benefit of deputation to her as per prevailing Management norms• In the event of Smt. K.G. Reena not complying with this direction of the Board, her services will be terminated at the beginning of the next academic year (2011-12).	31.12.2010	Smt.K.G.Reena has been informed the Board's direction vide Office Note dated 18.02.2011.



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

SNo	Details	BOG Date	Remarks
15	<p>The Member-Secretary informed the Board that she has not yet submitted any reply in response to this. The Chairman, BoM, informed that she had submitted a representation to him and also said that he has warned her not to make any allegations against the Principal/Vice Principal</p> <p>After detailed deliberations, the Board suggested an alternative measure to the earlier decision made which is as follows:</p> <p>Smt.K.G.Reena may be permitted to register for M.Sc., (Engg.) by research in the appropriate Research Centers of the College as an external candidate and to obtain the Post-Graduate program.</p>	22.03.2011	<p>She has been informed the directions of the Board vide Office Order dated 18.04.2011 & 27.05.2011. She has lodged a complaint with the Women Cell making allegations against Principal / Vice Principal. She has also filed a Review Petition before the Principal Secretary, Dept. of Education, Govt. of Karnataka.</p>
16	<p>The Board took note of the compliance submitted in the matter & several communications that were addressed to Smt. K. G. Reena informing her to comply the directions of the Board with regard to upgradation of her qualification in order to continue her services in the college. The Board noted that she has not responded to these communications barring one incident where she sought some time. The Board also noted that she has filed a complaint against Principal & member Secretary of the BOG and Vice Principal of the College with the Karnataka State Commission for Women. The Principal informed the BOG that a reply was submitted to the commission in this regard. Smt. K. G. Reena has also filed a review petition before the Principal Secretary, Department of Education, Government of Karnataka. The Principal informed the BOG that the college advocate has prepared objections to the same and will be submitted on 21.11.2011. The BOG has taken note that Smt. K. G. Reena has not obeyed the directions of the BOG. She neither responded nor utilized the opportunity given to her by the Board for registering herself either for a PG programme in Mechanical Engineering (M. Tech.) or for M.Sc., (Engg.) by research in one of the appropriate Research Centers of the College as an external candidate during the ensuing Academic Year 2011-2012. The Board viewed the dis-respect shown to the Board seriously by not submitting any written statement for the several communications issued to her in this regard. After detailed deliberations, the BOG decided to terminate the services of Smt. K. G. Reena and directed the Principal to initiate appropriate action in consultation with the Legal Adviser.</p>	18.11.2011	<p>The decision of the BOG was conveyed to the Legal Adviser soliciting his advice. He has informed that Smt.K.G.Reena has sought for an interim order not to terminate her services pending hearing on the appeal. He has also informed that no interim order has been granted by the Authority and there would be no impediment to initiate action. However, he has advised to initiate action only after the disposal of the case.</p>



BMS COLLEGE OF ENGINEERING, BENGALURU-19

BOARD OF GOVERNORS (BOG)

Minutes of 65th Meeting

April 12, 2017

SNo	Details	BOG Date	Remarks
17.	The Board took note of the compliance on the resolutions of the 47 th meeting of BOG. While on the subject, the Member-Secretary apprised the Board that the legal adviser has opined not to initiate any action in respect of Smt.K.G.Reena until the review petition filed before the Principal Secretary, Department of Education, Government of Karnataka is disposed. While on the subject, the Chairman informed the Board that the performance of Smt.K.G.Reena, in the recent feedback process had been found to be poor. She was counselled to improve the same. The Board informed the Principal to appraise regarding any further development in the matter.	16.03.2012	Smt.Reena K.G. was placed under suspension vide notification No.C-BOG/46/2012-13 dated 07.05.2012 based on her poor student feedback and her act of threatening the students. She was issued show cause notice with Articles of Charges and departmental enquiry was conducted against her.
18	The Board approved the proposal of the Chairman, BOG to constitute a sub-committee to conduct a thorough examination of all the disciplinary cases. The Board also suggested including one legal personnel (Senior Advocate/Retired Judge) in the sub-committee. The Sub-Committee shall submit its report along with recommendations to the Member-Secretary who will in turn place the report before the Chairman, BOG for his perusal and directions. The Board authorized the Chairman, BOG to take appropriate decision in the disciplinary cases on receipt of the recommendation of the Sub-Committee. The matter may be placed before the Board in its subsequent meeting for ratification/approval.	20.11.2014	Accordingly, the BOG Sub-Committee has examined thoroughly the Enquiry Proceedings and has submitted the report.
19	In the 59 th BOG meeting held on 08.04.2015, the Board resolved to issue Second Show Cause Notice enclosing a copy of the Enquiry Report submitted by the Enquiry Officer calling for explanation on the findings of the Report. Accordingly, Second Show Cause Notice enclosing a copy of the Enquiry Report was issued to Smt.K.G.Reena on 16.05.2015 providing an opportunity to submit her explanation in writing if any, within 15 days as to why appropriate punishment as per rules/management norms should not be imposed on her as the charge framed against her has been proved in the enquiry.	08.04.2015	She has submitted her explanation on 19.06.2015 objecting that the findings of the enquiry officer is not based on the evidence. She has also submitted to reject the report of the enquiry, to exonerate all the charges and to reinstate



BMS COLLEGE OF ENGINEERING, BENGALURU-19
BOARD OF GOVERNORS (BOG)
Minutes of 65th Meeting

April 12, 2017

SNo	Details	BOG Date	Remarks
20	In its 61 st Meeting held on 23.11.2015, the BOG considered the report of the Enquiry Officer in respect of Smt.K.G.Reena and concurred with its findings. The Board also took cognizance of the views and recommendations of the BOG Sub-Committee for disciplinary matters in this issue. After detailed review and deliberations, the Board directed the Principal to obtain the current academic qualifications of Smt.K.G.Reena and present the same for further consideration of the matter.	23.11.2015	Accordingly, Smt.K.G.Reena was issued a letter dated 21.01.2016 asking her to provide details of her current educational qualification with attested copies within seven days from the date of receipt of the said letter. In response, Smt.K.G.Reena has submitted her latest qualification with the attested copies of the certificates on 10.02.2016. On referral, the BOG Sub-committee for disciplinary cases looked into the degree certificates produced by Smt.K.G.Reena and noted that there was no upgradation of qualification of Smt.K.G.Reena.
21	Taking cognizance of its earlier meeting proceedings, enquiry report and recommendations of the sub-committee on the matter, the Board decided to remove Smt.K.G.Reena from service with immediate effect. The Board directed the Member-Secretary to initiate necessary action in this regard.	31.03.2016	Accordingly, Smt. Reena K.G. has been issued order No.EST/P-545/2016 dated 31.05.2016 imposing the penalty of removal from service with immediate effect

BMS COLLEGE OF ENGINEERING, BENGALURU -19
Autonomous Institute, Affiliated under VTU

**MINUTES OF THE MEETING OF THE PROMOTION COMMITTEE HELD ON
23.01.2017 AT 12.30 PM TO RECOMMEND RE-DESIGNATION OF NON
TEACHING TECHNICAL STAFF UNDER MANAGEMENT CADRE**

MEMBERS PRESENT:

1.	Dr.K.Mallikharjuna Babu, Principal	Chairman
2	Dr.Ravishankar Deekshit, Dean (SA)	Member
3	Dr.Kanimani B. Professor of TE & Dean (Aca)	Member
4	Dr.Maya.Naik, Professor & HOD of CE	Member
5	Dr.L.Ravikumar, Professor & HOD of ME	Member

At the outset, the principal extended a cordial welcome to the Members

The Principal briefed the Members that presently there are 90 technical staff (management) working in the cadres of Instructor, Assistant Instructor, Mechanic and Helpers and many of them have put in long years of service and also possess requisite qualification for promotion to next higher cadre. Further the University has advised the college to overcome deficiency in respect of Foreman, Instructor, System Analyst and Programmers.

The matter was appraised to the Chairman and several discussions were held. It was noted that due to absence of staffing pattern as prevalent in GIA, the Management staff could not be accorded promotions to higher cadre from time to time. This has also resulted in staff members possessing higher qualification and experience getting demotivated. Pending creation of a permanent staffing pattern for the Management staff and as an intermediate solution, it was decided to re-designate the eligible staff in the next higher cadre as a one-time measure and not to be treated as precedence. Only those staff who have reached the minimum basic pay in the next higher cadre and satisfy the service conditions as per C&R rules would be considered for re-designation. The matter was considered in detail and consented by the Chairman, BOG and to be subsequently ratified by the BOG.

In accordance with the orders of the Chairman, a list of eligible management staff who have completed the requisite service and having the prescribed qualification for the promotion to the posts of Foreman, Instructor, Assistant Instructor, and Mechanic was placed before the promotion committee for verification of their suitability for re-designation to the next higher posts.

In the meeting, the committee perused the details of staff (cadre-wise) as provided by the Establishment Section. The Committee also noted that the aided programmes of Civil, Mechanical and Electronics & Communication are also having one or more divisions on self-financing i.e., Management category. It is also taken note that in these departments both Grant-in-aid and Management staff are working; moreover a good number of the GIA non-teaching positions are lying unfilled and the workload is being met by management staff. After detailed deliberations, the Committee resolved as follows:

12/23.1.17

[Signature]

12/23/1/2017

BMS COLLEGE OF ENGINEERING, BENGALURU -19
Autonomous Institute, Affiliated under VTU.

Cadre: FOREMAN

Prescribed Qualification & Experience: Must have completed 3 Years of service in Instructor Cadre and must possess Diploma in relevant branch of Engineering for promotion to the post of Foreman

The Committee noted the number of **working posts** in the cadre of Foreman:

SNo	Name	Dept	Qualification	Current Designation	
				Title	W.E.F
1	Geetha N.	EI	BE, M.Tech.	Foreman	01/09/2013
2	Bhagyalakshmi L.	EC	Dip (E&T)	Incharge Foreman	08/11/2003
3	Shanmukhananda V.	IM	Diploma (CSE)	Incharge Foreman	08/11/2003

The members opined that the in-charge arrangement in respect of post of Foreman in the GIA Departments will exist until the said GIA vacancy is filled up through DTE.

The Committee perused in detail the list of candidates working in the cadre of Instructor. The members verified the eligibility (qualification & experience) criteria as per C&R norms and noted that there are 06 staff members who satisfy the requirement and have reached the minimum basic pay in the pay scale of the immediate next higher cadre (Foreman).

Keeping in view the Technical Supporting Staff requirement specified by the University (VTU) for the cadre of Foreman/Programmer, the Committee recommended re-designation of Instructors as follows:

SNo	Name	Dept	Qualification	Re-Designated Position
1	Ravindra T.S.	CS	PUC, JOC, DIP (CSE)	Foreman/Programmer
2	Nageshacharya A.	CS	BSc, JOC, DIP (CSE)	Programmer
3	Shivakumara Swamy DT	EE	Diploma (EE), BE	Foreman <i>I/c</i>
4	Ramesh T.S.	IS	PUC, JOC, DIP (CSE)	Foreman/Programmer
5	Hariprasad C.	ME	SSLC, Dip (ME)	Foreman <i>I/c</i>
6	Bhaktavatsala P	DC	SSLC, Dip CS	Programmer-DC

Note:1 The committee recommended to re-designate the eligible staff in the department of CS & IS as Programmers instead of Instructor and also re-designate the senior-most instructor/programmers as Foreman

2 The In-charge arrangement in respect of post of Foreman in the Aided Departments will exist until the aided position of Foreman is filled against regular vacancy through DTE

MS
23.1.17

R 23/1/17

1 2
23/1/2017

BMS COLLEGE OF ENGINEERING, BENGALURU -19
Autonomous Institute, Affiliated under VTU

Cadre: INSTRUCTOR

Prescribed Qualification & Experience: Must have completed 03 Years of service in the cadre of Assistant Instructor.

The Committee perused in detail the list of staff working in the cadre of Assistant Instructor. The members verified the eligibility (qualification & experience) criteria as per C&R norms and noted that 06 staff members satisfy the requirement and have reached the minimum pay in the pay scale of the immediate next higher post (Instructor).

The Committee recommended re-designation of Assistant Instructors to Instructors as follows:

SNo	Name	Dept	Qualification	Re-Designated Position
1	Shivaraju R.M.	EE	NCVT (Elec.)	Instructor
2	Selvan K.	EE	SSLC, Wireman, I.T.I.	Instructor
3	Ramachandra K.	ME	SSLC, NAC	Instructor
4	Srinivas A.	EC	SSLC, NCVT	Instructor
5	Rajendra Prasad T.V.	ME	SSLC, NCVT	Instructor
6	Venkatesh G.L.	ML	SSLC, NCVT	Instructor

Cadre: ASSISTANT INSTRUCTOR

Prescribed Qualification & Experience: Must have completed 03 Years of service in Mechanic Cadre.

The Committee perused in detail the list of candidates working in the cadre of Mechanic. The members verified the eligibility (qualification & experience) criteria as per C&R norms and noted that 14 staff members satisfy the requirement and have reached the minimum pay in the pay scale of the immediate next higher post (Assistant Instructor).

The Committee recommended re-designation of Mechanics as Assistant Instructors as follows:

SNo	Name	Dept	Qualification	Re-Designated Position
1	Damodaran P.	ME	SSLC, ITI	Assistant Instructor
2	Subramanyam V.	ME	SSLC, ITI	Assistant Instructor
3	Keshava N.	ME	SSLC, ITI	Assistant Instructor
4	Devendra S.	ME	SSLC, ITI	Assistant Instructor
5	Suresh H.L.	LIB	SSLC, ITI	Assistant Instructor
6	Venkatesha M.	MCA	PUC, ITI	Assistant Instructor
7	Damodar A.N.	ME	SSLC, ITI PUC	Assistant Instructor
8	Hari A.M.	CH	SSLC, ITI.	Assistant Instructor
9	Rampur S.S.	ME	SSLC, PUC, ITI	Assistant Instructor
10	Ajay Choodamani K	MBA	SSLC, ITI	Assistant Instructor
11	Lokesh V	AT	Dip in CS	Assistant Instructor
12	Narayana Rao	CH	Diploma (CH)	Assistant Instructor
13	Sowmya B	MCA	DIP in CSE	Assistant Instructor
14	Saritha A.N.	TE	Diploma in EE	Assistant Instructor

10/23.1.17

22/1/17

23/1/2017

15/17

BMS COLLEGE OF ENGINEERING, BENGALURU -19
Autonomous Institute, Affiliated under VTU

Cadre: MECHANIC

Prescribed Qualification & Experience: Must have completed 05 Years of service in Helper Cadre and must have passed SSLC.

The Committee perused in detail the list of candidates working in the cadre of Helper. The members verified the eligibility (qualification & experience) criteria as per C&R norms and noted that 11 staff members satisfy the requirement and have reached the minimum pay in the pay scale of the immediate next higher post (Mechanic).

The Committee recommended re-designation of Helpers as Mechanic as follows:

SNo	Name	Dept	Qualification	Re-Designated Position
1	Subramanya Chetty	CS	SSLC	Mechanic
2	Puttaswamy R.	EC	SSLC	Mechanic
3	Ramamurthy J.	EE	PUC	Mechanic
4	Ningaiiah	IM	SSLC	Mechanic
5	Devaraj G.	EC	SSLC	Mechanic
6	Narayana Swamy K.M	TPO	P.U.C.	Mechanic
7	S.Narayana	CS	SSLC, Dip in Lib.Sc	Mechanic
8	Ravindra Kumar B.L.	EC	SSLC	Mechanic
9	Siddaiah	EI	SSLC	Mechanic
10	Manjunath G.	PHY	SSLC	Mechanic
11	P.K.Armugam	EE	SSLC	Mechanic

The Committee also recommended the following conditions in support of the above re-designation

1. Criteria adopted: The eligibility-Qualification & Experience as per C&R norms; and staff should have reached the minimum basic pay in the pay scale of the immediate next higher (re-designated) cadre.
2. This is to be treated as special case, one time measure and not to be treated as precedence.

The members opined that this measure would motivate the staff who are stagnated in the same cadre over years. The members also recommended creation of suitable staffing pattern for the Non-Teaching Staff (both Technical & Administrative) under management cadre at the earliest.

The Principal thanked the members for their presence and participation in the deliberations.

This arrangement shall not attract any financial requirement as no monetary benefit was extended to the staff. Submitted for kind approval and order to issue the promotions, pending satisfaction on the BOD. Dated 23/11/17

CHAIRMAN

BMS COLLEGE OF ENGINEERING, BENGALURU - 560019
Autonomous Institute, Affiliated to VTU
PROMOTIONS HAS BEEN ACCORDED TO THE FOLLOWING NON-
TEACHING TECHNICAL STAFF (MANAGEMENT CADRE)
W.E.F 01.02.2017

SNo	Name	Dept	Current Designation	Re-designation Position
1	Ravindra T.S.	CS	Instructor	Foreman
2	Nageshacharya A.	CS	Instructor	Foreman
3	Shivakumara Swamy DT	EE	Instructor	I/c Foreman
4	Ramesh T.S.	IS	Instructor	Foreman
5	Hariprasad C.	ME	Instructor	I/c Foreman
6	Bhaktavatsala P	DC	Instructor	Programmer
1	Shivaraju R.M.	EE	Asst.Instr	Instructor
2	Selvan K.	EE	Asst.Instr	Instructor
3	Ramachandra K.	ME	Asst.Instr	Instructor
4	Srinivas A.	EC	Asst.Instr	Instructor
5	Rajendra Prasad T.V.	ME	Asst.Instr	Instructor
6	Venkatesh G.L.	ML	Asst.Instr	Instructor
1	Damodaran P.	ME	Mechanic	Asst.Instr
2	Subramanyam V.	ME	Mechanic	Asst.Instr
3	Keshava N.	ME	Mechanic	Asst.Instr
4	Devendra S.	ME	Mechanic	Asst.Instr
5	Suresh H.L.	LIB	Mechanic	Asst.Instr
6	Venkatesha M.	MCA	Mechanic	Asst.Instr
7	Damodar A.N.	ME	Mechanic	Asst.Instr
8	Hari A.M.	CH	Mechanic	Asst.Instr
9	Rampur S.S.	ME	Mechanic	Asst.Instr
10	Ajay Choodamani K	MBA	Mechanic	Asst.Instr
11	Lokesh V	AT	Mechanic	Asst.Instr
12	Narayana Rao	CH	Mechanic	Asst.Instr
13	Sowmya B	MCA	Mechanic	Asst.Instr
14	Saritha A.N.	TE	Mechanic	Asst.Instr
1	Subramanya Chetty	CS	Helper	Mechanic
2	Puttaswamy R.	EC	Helper	Mechanic
3	Ramamurthy J.	EE	Helper	Mechanic
4	Ningalah	IM	Helper	Mechanic
5	Devaraj G.	EC	Helper	Mechanic
6	Narayana Swamy K.M	TPO	Helper	Mechanic
7	S.Narayana	CS	Helper	Mechanic
8	Ravindra Kumar B.L.	EC	Helper	Mechanic
9	Siddaiah	EI	Helper	Mechanic
10	Manjunath G.	PHY	Helper	Mechanic
11	P.K.Armugam	EE	Helper	Mechanic



BMS COLLEGE OF ENGINEERING, BANGALURU
Autonomous Institute affiliated to VTU

Contents

SNo	PARTICULARS	PAGE NO
01	BudgetSummary for 2016-17& 2017-18	(i)
02	Budget versus Actuals for 2016-17	01
03	Budget for 2017-18	02
04	Revenue receipts Abstract	03
05	Revenue & Capital Payments Abstract	04
06	Revenue Payments (UG)	05
07	Revenue Payments (PG)	08
08	Revenue & Capital Payments –PG (Ph.D/M.Sc)	09
09	Department wise Recurring & Non Recurring Budget Estimate	10
10	Students strength of UG branches	11
11	Calculation of Tuition fee for (Aided and Un-aided) for 2016-17	12
12	Calculation of Tuition fee for (Aided and Unaided) for 2017-18	13
13	Calculation of PIO quota fee for 2017-18 UG& PG	14
14	Calculation of Management quota fee for 2016-17 UG	15
15	Calculation of Management quota fee for 2017-18 UG	16
16	Calculation of Management quota fee for 2016-17& 2017-18 PG	17
17	Calculation of Tuition fee income as per PG students Strength	18
18	Miscellaneous Receipts UG	19
19	Miscellaneous Receipts PG	20
20	Miscellaneous Income UG	20
21	Establishment charges GIA, MGMT and PG	21



BMS COLLEGE OF ENGINEERING, BENGALURU

Autonomous institute affiliated to VTU

BUDGET SUMMARY

(Rupees in Crores)

L.No.	HEAD OF ACCOUNT	Budget 2016-17	Actuals 2016-17	Budget 2017-18
1	Revenue Receipts	106.52	104.58	108.00
2	Revenue Payments	64.00	74.00	74.00
3	Capital Payments	42.00	29.00	70.61
NET SURPLUS/DEFICIT		0.52	1.58	-36.61

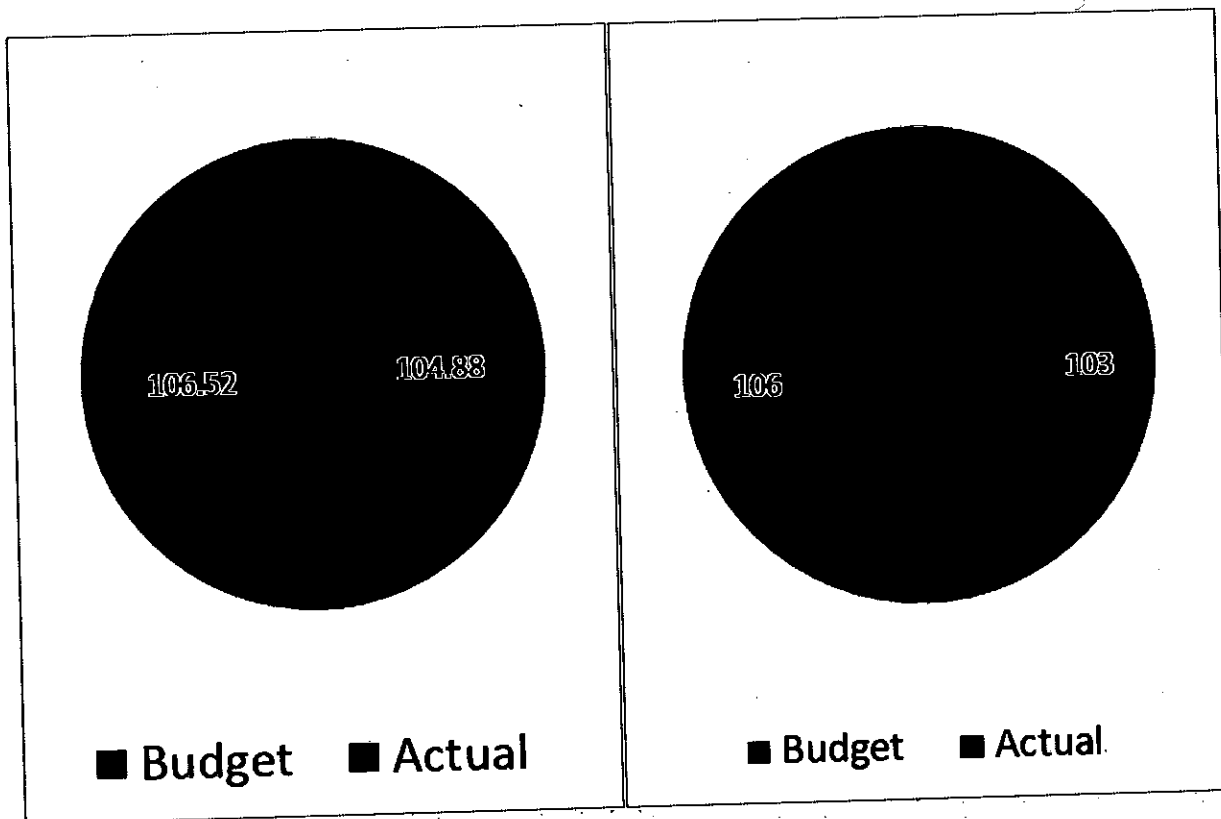


BMS COLLEGE OF ENGINEERING, BENGALURU
Autonomous institute affiliated to VTU

BUDGET VERSUS ACTUALS FOR 2016-17

REVENUE INCOME

REVENUE & CAPITAL EXPENDITURE



Figures are Rupees in Crores

EXPLANATION: Receipts: The Actual Revenue receipts are the Tuition and Misc. Fee Rs 88.45 Cr. and Maintenance Grants (DTE) Government of Karnataka Rs 15.96 Cr., Misc. Income Rs 0.47 Cr. Total Rs 106.52 Cr.

The actual receipts lower than the budgeted Rs. 106.52 Crores against 104.88; the difference is due to non-receipts of arrears of Maintenance Grants for the years 2011-2012 to 2016-2017.

Payment: Budget Rs 106.26 Cr. out of this only Rs 102.52 Cr is expenditure. Less Expenditure due to following reason(s):

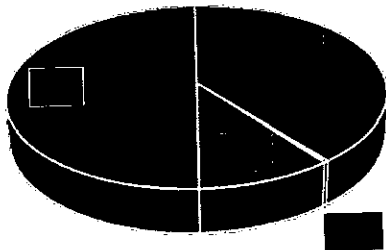
Some of the Equipment, Furniture and LR's procured and TEQIP, FDPs and construction of Platinum Jubilees Academic Block of Rs 30 Cr out of this only Rs 21 Cr is expenditure.



BMS COLLEGE OF ENGINEERING, BENGALURU
Autonomous institute affiliated to VTU

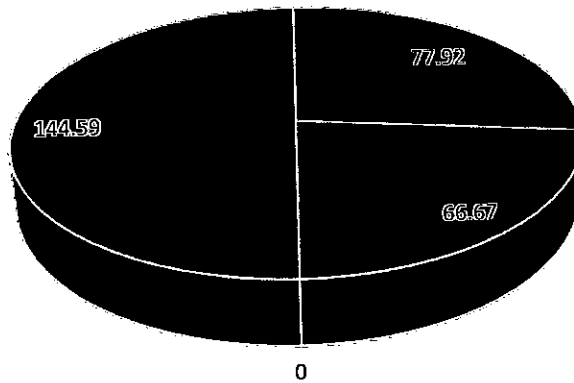
PROPOSED BUDGET FOR THE YEAR 2017-18

REVENUE INCOME



- Tuition & Misc. Fees
- Misc. Income & Bank Interest
- Salary Grants (DTE)
- TOTAL

REVENUE & CAPITAL EXPENDITURE



- Revenue
- & Capital
- TOTAL

Net Deficit 36.59 Crores
Figures are Rupees in Crores

Receipts: The Revenue receipts of Rs 108 Cr. out of this Fees Income Rs 85.74 Cr., Maintenance Grants (DTE, Government of Karnataka) Rs. 21.51 Cr. and Misc. Income & Interest Rs. 0.75 Cr.

Payments: The payments of Rs 144.59 Cr. out of this Revenue Payment Rs 77.92 Cr. and Rs 4.43 Cr. (Major items: Equipment, Furniture and LR's) & Rs 62.23 Cr. construction of Platinum Jubilee Academic Block) are Capital payments.

The proposed budget is Deficit budget (Net Deficit is Rs 36.59 Crores).

PRINCIPAL

BUDGET FOR THE FINANCIAL YEAR 2017-2018

REVENUE RECEIPTS ABSTRACT

(Amount in Rupees)

SNo.	HEAD OF ACCOUNT	BUDGET 2016-2017	ACTUAL RECEIPTS 2016-2017	% of Actual V/s Budget	BUDGET 2017-2018
UG(CET,COMED-K,PIO & MGT FEES)					
1	Tuition Fee (CET) (Page No 13)	73,741,400	77,881,440	103	72,859,000
2	Tuition Fee (COMEDK) (Page No 13)	105,550,000	105,247,500		107,745,000
3	Tuition Fee (PIO) (Page No 14)	123,680,000	135,920,000		140,880,000
4	Management Fees (UG) (Page No 16)	362,775,000	366,950,000		339,050,000
TOTAL 'A'		665,746,400	685,998,940	103	660,534,000
PG(PGCET & MGT FEES)					
5	Tuition Fee M Tech (CET) (Page No 18)	16,900,000	16,000,000	95	16,040,000
6	Management Fees M Tech (Page No 17)	5,823,000	5,230,000	90	5,514,000
7	Tuition Fee (MBA,MCA -PGCET) (Page No 18)	13,200,000	12,600,000	95	12,130,000
8	Tuition Fee (PIO) (Page No 17)	4,320,000	4,280,000	99	4,320,000
9	Management Fees ((MBA,MCA) (Page No 17)	40,830,000	36,215,000	89	39,405,000
10	Ph.D/M.Sc(Engg.) (Page No 09)	2,435,000	2,300,000	94	2,200,000
TOTAL 'B'		83,508,000	76,625,000	92	79,609,000
Miscellaneous Fees & Income(UG & PG)					
11	Miscellaneous Fees(UG& PG) (Page No 19,20)	121,485,000	121,821,586	100	117,268,000
12	Bank Interest	5,000,000	2,972,000	59	5,000,000
13	Miscellaneous Income (Page No 20)	3,500,000	1,691,937	48	2,500,000
TOTAL 'C'		129,985,000	126,485,523	97	124,768,000
Salary Grants					
14	85% Salary Grants (Page No 19)	186,025,100	159,594,202	86	215,132,000
TOTAL 'D'		186,025,100	159,594,202	86	215,132,000
TOTAL 'A TO D'		1,065,264,500	1,048,703,665	98	1,080,043,000

BUDGET FOR THE FINANCIAL YEAR 2017-2018
REVENUE PAYMENTS ABSTRACT

(Amount in Rupees)

SNo.	HEAD OF ACCOUNT	BUDGET 2016-2017	ACTUAL PAYMENTS 2016-2017	% of Actual V/s Budget	BUDGET 2017-2018
UG(SALARY & OTHER EXPENDITURE)					
1	ESTABLISHMENT CHARGES (Page No 07)	531,798,000	602,860,076	113	606,072,000
2	STAFF DEVELOPMENT EXP. (Page No 07)	6,656,000	5,985,025	90	6,241,000
3	STUDENT DEVELOPMENT EXP. (Page No 07)	7,059,000	7,390,201	105	7,560,000
4	MAINTENANCE EXP. (Page No 07)	41,420,000	48,857,232	118	46,100,000
5	CONTINGENCY AND OTHERS (Page No 07)	14,000,000	22,962,887	164	24,800,000
6	CONSUMABLE (Page No 07)	41,450,000	40,060,226	97	38,560,000
TOTAL(A)		642,383,000	728,115,647	113	729,333,000
PG (SALARY & OTHER EXPENDITURE)					
1	ESTABLISHMENT CHARGES (Page No 08)	35,700,000	43,827,071	123	48,062,000
2	STAFF DEVELOPMENT EXP. (Page No 08)	24,000	24,000	100	24,000
3	CONTINGENCY AND OTHERS (Page No 08)	1,265,000	1,517,653	120	1,722,000
4	PG Ph.D (Page No 09)	125,000	76,282	61	125,000
TOTAL(B)		37,114,000	45,445,006	122	49,933,000
TOTAL(A AND B)		679,497,000	773,560,653	114	779,266,000

CAPITAL PAYMENTS

UG(EQUIPMENTS & THER EXPENDITURE)					
1	Equipment/Furniture/Books/R & D (Page No 10)	78,700,000	44,133,967	56	42,970,000
PG (EQUIPMENTS & THER EXPENDITURE)					
2	Equipment/Furniture/Books/R & D (Page No 10)	1,300,000	786,076	60	1,400,000
TOTAL REVENUE AND CAPITAL PAYMENTS		759,497,000	818,480,696	108	823,636,000

BUILDINGS

SNo.	HEAD OF ACCOUNT	BUDGET 2016-2017	ACTUAL PAYMENTS 2016-2017	% of Actual V/s Budget	BUDGET 2017-2018
3	Buildings:- (Platinum Jubilee Academic Block Rs 62.23 Cr)	303,000,000	206,974,537	68	622,300,000
TOTAL		303,000,000	206,974,537	68	622,300,000

BUDGET PAYMENTS FOR THE FINANCIAL YEAR 2017-2018
REVENUE PAYMENTS

(Amount in Rupees)

SNo.	HEAD OF ACCOUNT	BUDGET 2016-2017	ACTUAL PAYMENTS 2016-2017	BUDGET 2017-2018
A] ESTABLISHMENT CHARGES :				
1	Salary and others Allowance of MGT Staff (Page No 21)	325,087,200	361,068,295	353,779,000
2	Salary and others Allowance of GIA Staff in Aided Branches (Page No 21)	165,800,000	197,764,247	198,277,000
3	E.P.F. Management Contribution(Including NPS for GIA)	9,910,000	13,937,298	14,000,000
4	Pay & Allowance of M.Tech Staff (Page No 21)	31,000,000	30,090,236	40,016,000
	SUB TOTAL (A)	531,797,200	602,860,076	606,072,000
B] STAFF DEVELOPMENT EXP				
5	Gratuity (MGT Staff)	985,000	318,770	500,000
6	Allowance to HoDs & Others	100,000	60,000	70,000
7	Faculty Development Programs & Membership fees	1,200,000	518,722	500,000
8	Staff Insurance	2,600,000	3,363,547	3,400,000
9	Incentive for Publications/seminar/Conference	1,500,000	1,723,986	1,500,000
10	Patent Charges	271,000		271,000
	SUB TOTAL (B)	6,656,000	5,985,025	6,241,000
C] STUDENT DEVELOPMENT EXP				
11	Student Feedback	410,000	426,330	410,000
12	Students' Insurance/Health Centre	4,800,000	4,586,980	4,800,000
13	I D Card for Students	150,000	126,000	150,000
14	Professional Body Activities/Student Initiatives, Events/Cultural/Farewell day /Incentive	922,000	1,379,670	1,200,000
15	Inaugural Function ,Orientation Prog.& others	777,000	871,221	1,000,000
	SUB TOTAL (C)	7,059,000	7,390,201	7,560,000

D] MAINTENANCE EXP.				
16	Building Maintenance & Upkeep	2,900,000	6,633,388	3,000,000
17	House Keeping/ Security Services	18,600,000	22,060,090	22,000,000
18	Electrical Maintenance	3,100,000	3,197,890	3,100,000
19	Annual Maintenance Contract (AMC)	2,200,000	1,734,299	2,000,000
20	Repairs to furniture & fixtures	200,000	38,500	50,000
21	Maintenance of Vehicles	520,000	1,792,430	1,800,000
22	Insurance to fixed assets/inventory	100,000	128,477	150,000
23	Property Tax	1,600,000	1,576,888	2,000,000
24	ICD Expenditure	12,200,000	11,695,270	12,000,000
	SUB TOTAL (D)	41,420,000	48,857,232	46,100,000
E] CONTINGENCY & OTHERS				
25	Advertisement Charges	500,000	671,095	600,000
32	Professional Charges (Audit/Legal fees/Architects)	1,100,000	1,592,548	1,600,000
33	Printing & Stationery	2,100,000	1,951,979	2,000,000
34	Postage & Telegram/Courier Charges	100,000	52,197	100,000
35	Telephone Charges	400,000	260,561	300,000
36	Electrical / Water Charges	4,800,000	8,721,047	9,000,000
38	Honorarium & Conveyance Charges to BOG/BOA/BWC/Experts/AC/BOS/BOE & Academic Audits Inspection Visits By Apex Bodies-VTU,AICTE,UGC,GOK	600,000	333,819	500,000
39	Hospitality Charges	950,000	1,534,549	950,000
40	Travelling Allowance	850,000	531,906	850,000
41	College Events/Official Function	300,000	1,283,503	1,200,000
42	Annual Affiliation / Accreditation Fees	800,000	2,611,337	2,000,000
43	PG Programmes (M.Tech)	800,000	450,816	800,000
45	India Platform	300,000	112,500	300,000
46	e-Governance	100,000		100,000
47	Honorarium Charges to Trustee		1,800,000	1,800,000
48	IUCEE Activities	300,000	135,337	
49	Sponsorship		177,976	200,000
50	Office Contingency		741,717	500,000
51	MITE			1,000,000
52	ICC			1,000,000
	SUB TOTAL (E)	14,000,000	22,962,887	24,800,000

SNo.	HEAD OF ACCOUNT	BUDGET 2016-2017	ACTUAL PAYMENTS 2016-2017	BUDGET 2017-2018
F] CONSUMABLES				
53	Civil Engineering	500,000	482,979	600,000
54	Mechanical Engineering	700,000	1,771,218	1,100,000
55	Electrical Engineering	500,000	379,106	980,000
56	Electronics Engineering	800,000	452,410	500,000
57	Industrial Engg. & Management	200,000	314,176	200,000
58	Telecommunication Engineering	400,000	195,788	600,000
59	Computer Science Engineering	300,000	208,168	500,000
60	Information Science Engineering	250,000	196,877	200,000
61	Chemical Engineering	250,000	203,882	300,000
62	Biotechnology	450,000	643,376	700,000
63	Instrumentation Technology	300,000	70,002	310,000
64	Medical Electronics	250,000	454,273	400,000
65	Architecture	850,000	1,271,442	
66	Physics	150,000	187,927	270,000
67	Chemistry	500,000	427,946	500,000
68	Mathematics	100,000	154,225	200,000
69	Library to e-books & Journals	3,900,000	1,206,830	1,000,000
70	Physical Education & Sports, NCC, NSS, Outreach Activities	2,800,000	1,667,702	1,700,000
71	Data Centre	10,800,000	10,473,390	10,000,000
72	Placement & Training	2,300,000	2,604,725	2,500,000
73	Exam Remuneration/TA&DA/ Convocation, Others	13,100,000	14,364,262	13,000,000
74	Research and Development	1,500,000	1,913,053	2,000,000
75	In-House Project	300,000	238,678	300,000
76	Dean Students Affairs/Academic		177,791	700,000
77	IQAC	250,000		
	SUB TOTAL (F)	41,450,000	40,060,226	38,560,000

REVENUE PAYMENTS ABSTRACT

A	ESTABLISHMENT CHARGES	531,797,200	602,860,076	606,072,000
B	STAFF DEVELOPMENT EXP.	6,656,000	5,985,025	6,241,000
C	STUDENT DEVELOPMENT EXP.	7,059,000	7,390,201	7,560,000
D	MAINTENANCE EXP.	41,420,000	48,857,232	46,100,000
E	CONTINGENCY AND OTHERS	14,000,000	22,962,887	24,800,000
F	CONSUMABLE	41,450,000	40,060,226	38,560,000
	GRAND TOTAL(A to F)	642,382,200	728,115,647	729,333,000

BUDGET S FOR THE FINANCIAL YEAR 2016-2017

CAPITAL PAYMENTS

SNo.	HEAD OF ACCOUNT	BUDGET 2016-2017	ACTUAL PAYMENTS 2016-2017	BUDGET 2017-2018
1	Equipment/Furniture/Books/R & D (Page No 10)	106,206,000	44,133,967	42,900,000
2	Buildings:-(Plantinum Jubilee Academic Block I st Phase Balance Work	162,000,000	206,974,537	502,300,000
	Buildings:-(Plantinum Jubilee Academic Block IIInd Phase			120,000,000
	TOTAL	268,206,000	251,108,504	665,200,000

REVENUE BUDGET PAYMENTS- (MCA,MBA)				
(Amount in Rupees)				
SNo	HEAD OF ACCOUNT	BUDGET 2016-2017	ACTUAL PAYMENTS 2016-2017	BUDGET 2017-2018
A. ESTABLISHMENT CHARGES				
1	MBA (Page No 21)	18,400,000	21,750,600	25,599,000
2	MCA (Page No 21)	15,150,000	19,317,849	21,663,000
3	M.Arch	1,350,000	1,693,284	
4	Management Contribution to EPF, FWF & EPF Consultancy charges	800,000	1,065,338	800,000
TOTAL -A		35,700,000	43,827,071	48,062,000
B. STAFF DEVELOPMENT FUND:				
5	HOD Allowance	24,000	24,000	24,000
TOTAL -B		24,000	24,000	24,000
c. CONTINGENCY				
7	Maintenance & Upkeep	15,000.00	9,268.00	15,000.00
8	Reading Room Exp	26,000	30,306	40,000
9	TA & DA	30,000	40,444	45,000
10	Stationary & Consumables	127,000	124,501	125,000
11	Contingent Expenses	30,000	15,505	20,000
12	Hospitality Expenses	2,000		2,000
13	Professional Charges	35,000	75,000	75,000
14	Faculty Registration Fee	50,000	82,950	100,000
15	Affiliation/Accreditation/Enhancement	50,000	50,000	50,000
16	Journals & Subscription	350,000	286,058	300,000
17	Accreditation Expenditure	150,000		150,000
18	Recurring Expenditure	400,000	803,621	800,000
TOTAL - c		1,265,000	1,517,653	1,722,000
TOTAL - A TO c		36,989,000	45,368,724	49,808,000
E. CAPITAL EXPENDITURE				
19	Non Recurring MCA,MBA	1,000,000	494,337	1,200,000
20	M.Arch - Non Recurring	100,000	118,325	
21	Library Books	200,000	173,414	200,000
TOTAL - E		1,100,000	786,076	1,400,000
GRAND TOTAL - A TO E		38,089,000	46,154,800	51,208,000

Ph.D/M.Sc(Engg..) By Research Program for the year 2017-2018

RECEIPTS				PAYMENTS			
Head of Account	Budget for 2016-17	Actual Receipts for 2016-17	Budget for 2017-18	Head of Account	Budget for 2016-17	Actual Payment for 2016-17	Budget for 2017-18
Tuition fee :							
Civil	500,000	460,000	500,000	VTU -Affiliation Fee	25,000	30,000	30,000
Mechanical	240,000	230,000	250,000	Research Corpus Fund/Experiment	-	-	-
Electrical & Elms Engg	90,000	90,000	120,000	Hospitality Charges	10,000	10,504	10,000
Electronics & Commn. Engg	500,000	480,000	500,000	Professional Charges	9,000	-	9,000
Industrial Engg & Mgt	50,000	30,000	30,000	Miscellaneous	5,000	102	5,000
Mathematics	60,000	85,000	90,000	Conveyance Charges	1,000	1,000	1,000
Chemical	-	10,000	10,000	Civil	5,000	-	-
MBA	150,000	125,000	50,000	Mechanical	5,000	-	5,000
Computer Science	185,000	227,683	150,000	Electrical & Elms Engg	-	-	-
Bio Technology	50,000	55,000	60,000	Electronics & Commn. Engg	-	-	-
Physics	100,000	60,000	75,000	Industrial Engg & Mgt	-	2,500	-
Information & Science	200,000	200,000	110,000	Mathematics	5,000	-	5,000
Architecture	70,000	55,000	60,000	Chemical	5,000	-	5,000
Chemistry	50,000	60,000	60,000	MBA	10,000	9,360	10,000
Telecommunication	30,000	60,000	60,000	Computer Science	5,000	-	5,000
Bank Interest	60,000	48,167	50,000	Bio Technology	5,000	-	5,000
Miscellaneous Fee	100,000	24,150	25,000	Architecture	5,000	-	5,000
				Information Science	-	-	-
				Telecommunication	-	-	-
				Chemistry	5,000	-	5,000
				Physics	25,000	22,816	25,000
TOTAL	2,435,000	2,300,000	2,200,000	TOTAL	125,000	76,282	125,000

Department wise Recurring and Non Recurring Budget for the year 2017-18

S No	Departments	U G		PG		Total Budget Allocation	
		Recurring	Non-Recurring	Recurring	Non-Recurring	Recurring	Non-Recurring
1	Civil	5	29	1		6	29
2	Mechanical	10	89	1		11	89
3	Electrical	8.8	15	1	5.2	20.2	9.8
4	Electronics	5	49	1		6	49
5	Industrial	5	20			5	20
6	Telecommunication	6	14			6	14
7	Computer Science	5	19.5	0.5		5.5	19.5
8	Information Science	2	17.5	0.5		2.5	17.5
9	Bio -Technology	7	13			7	13
10	Instrumntation	2.4	12.6			2.4	12.6
11	Chemical	3	16.5	0.5		3.5	16.5
12	Medical Electronics	2.4	11.6	1		3.4	11.6
13	Mathematics	2	3			2	3
14	Physics	2.7	5.3			2.7	5.3
15	Chemistry	5	12			5	12
16	Sports	15	2			15	2
17	NCC	2	1.5			2	1.5
18	NSS	2	1.5			2	1.5
19	Outreach activities	1				1	0
20	Library	11	36	1.5	1.5	12.5	37.5
21	Data Centre	100	12			100	12
22	Council of Exams	130	20			130	20
23	Placement and Training	20				20	0
24	Administrative Office	2	3			2	3
25	Building Electrical	45	5			45	5
26	R & D Dept	20	20			20	20
27	Dean(Aca)	2	5			2	5
28	I year Dept	9				9	0
29	Dean(S A)	1				1	0
30	Building Maintenace	40				40	0
31	MITE	10				10	0
32	ICC	10				10	0
	TOTAL					509.7	429.3
33	MCA			4	8	4	8
34	MBA			4	6	4	6
	Total	491.3	433	16	20.7	517.7	443.3

STUDENTS STRENGTH						
CLASS	2015-16		2016-17		2017-18	
	CET/LF	C-K/HF/MG	CET/LF	C-K/HF/MG	CET/LF	C-K/HF/MG
1st Year	613	643	626	629	660	525
2nd Year	787	510	799	595	577	556
3rd Year	751	426	766	462	751	533
4th Year	714	397	747	405	734	415
5th Year(Architecture Branch)	32	48	35	57		
Sub Total	2897	2024	2973	2148	2722	2029
Total		4921		5121		4751
<u>AIDED COURSE:</u>						
CET/LF		1272		1286		1269
C-K/HF/MG		274		269		314
Total		1546		1555		1583
<u>UNAIDED COURSES:</u>						
CET/LF		1625		1687		1463
C-K/HF/MG		1750		1879		1705
Total		3375		3566		3168

DETAILED CALCULATION OF TUITION FEE FOR AIDED AND UN-AIDED COURSES SEPERATELY FOR 2016-17

Class	Category	Students Strength	Rate in Rs.	Amount Rs. in	Class	Category	Students Strength	Rate in Rs.	Amount Rs. in
AIDED COURSES					UNAIDED COURSES				
1st Year 2016-17	CET/SC/ST/1G	249	15000	3735000	1st Year 2016 17	CET/GOI	307	46410	14247870
	MG	15		0		COMEDK	183	170000	31110000
	SNQ QUOTA	15		0		MG	314		0
	ICD	67	125000	8375000		ICD	50	125000	6250000
	GOI & AICTE J & K	23	15000	345000		SNQ	32		0
2nd Year 2015-16	CET/GOI/REP/	321	15000	4815000	2nd Year 2015-16	COMEDK	201	150000	30150000
	MG/UFS	14		0		COMEDK	2	137500	275000
	ICD/REP	51	125000	6375000		MG	278	0	0
	SNQ/	15		0		ICD	49	125000	6125000
						CET/SCST/dip	427	41910	17895570
						CET/SCST/dip	5	33000	165000
						SNQ	31	0	0
3rd Year 2014-15	CET/GOI/REP	311	15000	4665000	3rd Year 2014-15	SNQ	32	0	0
	ICD	54	125000	6750000		MG	189	0	0
	MG	16		0		ICD	40	125000	5000000
	SNQ	13		0		CET	410	33000	13530000
						C-K	163	137500	22412500
4th Year 2013-14	CET/GOI/REP	325	15000	4875000	4th Year 2013-14	CET/DIP	375	33000	12375000
						CET/DIP	1	30000	30000
	MG	22		0		ICD	37	125000	4625000
	ICD	30	125000	3750000		MG	184	0	0
	SNQ	14		0		COMED-K	131	137500	18012500
						COMED-K	1	125000	125000
						CET	2	30000	60000
						SNQ	30	0	0
					5th Year B.ARCH. 2012-13	MG	23	0	0
						CET	4	30000	120000
						CET	31	33000	1023000
						C-K	23	137500	3162500
						ICD	11	125000	1375000
		1555		43685000			3566		188068940
	CET/GOI	1286		18435000	CET/GOI		1687		59446440
					COMEDK		704		105247500
					ICD		389		135920000
CET/GOI (AIDED 18435000 + (UNAIDED) 59446440).						77881440			
COMED K						105247500			
ICD/PIO						135920000			

DETAILED CALCULATION OF TUITION FEE FOR AIDED AND UN-AIDED COURSES SEPERATELY FOR 2017-18

Class	Category	Students Strength	Rate in Rs.	Amount in Rs.	Class	Category	Students Strength	Rate in Rs.	Amount in Rs.
AIDED COURSES					UNAIDED COURSES				
1st Year 2017-18	CET/SC/ST/1G	285	15000	4275000	1st Year 2017-18	CET/GOI	305	46410	14155050
	MG	15				COMEDK	204	170000	34680000
	SNQ QUOTA	15				MG	161		
	ICD	81	125000	10125000		ICD	64	125000	8000000
	GOI & AICTE J & K	23	15000	345000		SNQ	32		
2nd Year 2016-17	CET/SC/ST/1G	249	15000	3735000	2nd Year 2016-17	CET/GOI	258	46410	11973780
	MG	15		0		COMEDK	152	170000	25840000
	SNQ QUOTA	15		0		MG	273		0
	ICD	67	125000	8375000		ICD	50	125000	6250000
	GOI & AICTE J & K	23	15000	345000		SNQ	32		0
3rd Year 2015-16	CET/GOI/REP/	320	15000	4800000	3rd Year 2015-16	COMEDK	181	150000	27150000
	MG/UFS	14		0		COMEDK	1	137500	137500
	ICD/REP	52	125000	6500000		MG	236	0	0
	SNQ/	15		0		ICD	48	125000	6000000
						CET/SCST/dip	380	41910	15925800
						CET/SCST/dip	5	33000	165000
						SNQ	31	0	0
4th Year 2014-15	CET/GOI/REP	311	15000	4665000	4th Year 2014-15	SNQ	32	0	0
	ICD	54	125000	6750000		MG	169	0	0
	MG	16		0		ICD	31	125000	3875000
	SNQ	13		0		CET	378	33000	12474000
						C-K	145	137500	19937500
		1583		49915000			3168		186563630
	CET/GOI	1211		18165000		CET/GOI	1453		54693630
						COMEDK	683		107745000
						ICD	447		140880000
CET/GOI (AIDED 18165000 + (UNAIDED) 54693630)						72858630			
COMED K						107745000			
ICD/PIO Details Page no 13						140880000			
2016-17 Page No 12									
CET/GOI (AIDED 18435000 + (UNAIDED) 59446440)						77881440			
COMED K						105247500			
ICD/PIO						135920000			

ESTIMATED FEE INCOME FOR THE YEAR 2017 - 18

COLLEGE / SEM	Demand in USD	No. of students	Total colln in USD (1x2)	Total Colln in INR @ 60	Hostel fees (@ Rs. 60000 x colm 2)	Annual fees (4 - 5)
	1	2	3	4	5	6

BMSCE

I	8000	58	464000	27840000		50340000
	7000	45	315000	18900000		
	5000	41	205000	12300000	8700000	

III	8000	43	344000	20640000		32820000
	7000	31	217000	13020000	5340000	
	5000	15	75000	4500000		

V	7000	38	266000	15960000		26880000
	6000	30	180000	10800000		
	5000	15	75000	4500000	4380000	

VII	7000	73	511000	30660000		28680000
	5000	10	50000	3000000	4980000	

IX	5000	9	45000	2700000	540000	2160000
-----------	------	---	-------	---------	--------	---------

BMSCE UG

140880000

MBA & MCA	5000	18	90000	5400000	1080000	4320000
----------------------	------	----	-------	---------	---------	---------

BMS Educational Trust
Management Quota Fees for 2016-17 (Aided & Unaided) BMSCE

Branch Name	I YEAR 2016-17			II YEAR 2015-16			III YEAR 2014-15			IV YEAR 2013-14			Total Amount
	No. of st	Fees	Amount	No. of st	Fees	Amount	No. of st	Fees	Amount	No. of st	Fees	Amount	
CIVIL	3	425000	1275000	3	400000	1200000	3	350000	1050000	3	400000	1200000	4725000
MACHANICAL	3	525000	1575000	3	475000	1425000	3	425000	1275000	3	400000	1200000	5475000
ELECTRICAL & ELECTRONICS	3	350000	1050000	3	350000	1050000	3	350000	1050000	3	350000	1050000	4200000
ELECTRONICS & COMMUNICATIO	3	525000	1575000	3	475000	1425000	3	425000	1275000	3	400000	1200000	5475000
INDL. ENGG & MGT	3	350000	1050000	3	325000	975000	3	300000	900000	3	300000	900000	3825000
Total A	15		6525000	15		6075000	15		5550000	15		5550000	23700000
COMPUTER SC. ENGG	46	525000	24150000	34	475000	16150000	34	425000	14450000	33	400000	13200000	67950000
TELECOMMUNICATION ENGG	21	300000	6300000	15	300000	4500000	11	300000	3300000	14	350000	4900000	19000000
INFORMATION SCIENCE	41	400000	16400000	22	375000	8250000	16	350000	5600000	27	350000	9450000	39700000
INSTRUMENTATION TECH	9	300000	2700000	4	300000	1200000	3	300000	900000	6	300000	1800000	6600000
MEDICAL ELECTRONICS ENGG	7	225000	1575000	6	200000	1200000	5	200000	1000000	4	200000	800000	4575000
CHEMICAL ENGG	16	200000	3200000	13	200000	2600000	11	200000	2200000	12	200000	2400000	10400000
BIO TECHNOLOGY	13	250000	3250000	9	200000	1800000	11	200000	2200000	10	200000	2000000	9250000
B. ARCH	37	525000	19425000	35	475000	16625000	43	425000	18275000	20	400000	8000000	69325000
MACHANICAL	57	525000	29925000	26	475000	12350000	25	425000	10625000	17	400000	6800000	59700000
ELECTRONICS & COMMUNICATIO	26	525000	13650000	20	475000	9500000	13	425000	5525000	15	400000	6000000	34675000
CIVIL	32	425000	13600000	18	400000	7200000	9	350000	3150000	17	400000	6800000	30750000
ELECTRICAL & ELECTRONICS	3	350000	1050000	2	350000	700000	0	350000	0	1	350000	350000	2100000
INDL. ENGG & MGT	6	350000	2100000	1	325000	325000	0	300000	0	0	300000	0	2425000
Total B	314		137325000	205		82400000	181		67225000	176		62500000	356450000
Total of A & B	329		143850000	220		88475000	196		72775000	191		68050000	380150000
Less: Staff children Management Quota 15 *4*220000													13200000
TOTAL													366950000

BMS Educational Trust

Estimated Management Quota Fees for 2017-18 (Aided & Unaided) BMSCE

Branch Name	I YEAR			II YEAR			III YEAR			IV YEAR			Total Amount
	2017-18			2016-17			2015-16			2014-15			
	No. of st	Fees	Amount	No. of st	Fees	Amount	No. of st	Fees	Amount	No. of st	Fees	Amount	
CIVIL	3	425000	1275000	3	425000	1275000	3	400000	1200000	3	350000	1050000	4800000
MACHANICAL	3	525000	1575000	3	525000	1575000	3	475000	1425000	3	425000	1275000	5850000
ELECTRICAL & ELECTRONICS	3	350000	1050000	3	350000	1050000	3	350000	1050000	3	350000	1050000	4200000
ELECTRONICS & COMMUNICATION	3	525000	1575000	3	525000	1575000	3	475000	1425000	3	425000	1275000	5850000
INDL. ENGG & MGT	3	350000	1050000	3	350000	1050000	3	325000	975000	3	300000	900000	3975000
Total A	15		6525000	15		6525000	15		6075000	15		5550000	24675000
COMPUTER SC. ENGG	46	525000	24150000	40	525000	21000000	30	475000	14250000	32	425000	13600000	73000000
TELECOMMUNICATION ENGG	21	300000	6300000	19	300000	5700000	13	300000	3900000	11	300000	3300000	19200000
INFORMATION SCIENCE	41	400000	16400000	35	400000	14000000	20	375000	7500000	16	350000	5600000	43500000
INSTRUMENTATION TECH	9	300000	2700000	9	300000	2700000	4	300000	1200000	3	300000	900000	7500000
MEDICAL ELECTRONICS ENGG	7	225000	1575000	7	225000	1575000	6	200000	1200000	5	200000	1000000	5350000
CHEMICAL ENGG	16	200000	3200000	14	200000	2800000	12	200000	2400000	11	200000	2200000	10600000
BIO TECHNOLOGY	13	250000	3250000	10	250000	2500000	9	200000	1800000	11	200000	2200000	9750000
MACHANICAL	57	525000	29925000	49	525000	25725000	24	475000	11400000	24	425000	10200000	77250000
ELECTRONICS & COMMUNICATION	26	525000	13650000	24	525000	12600000	18	475000	8550000	13	425000	5525000	40325000
CIVIL	32	425000	13600000	25	425000	10625000	16	400000	6400000	9	350000	3150000	33775000
ELECTRICAL & ELECTRONICS	3	350000	1050000	3	350000	1050000	2	350000	700000	0	350000	0	2800000
INDL. ENGG & MGT	6	350000	2100000	6	350000	2100000	1	325000	325000	0	300000	0	4525000
Total B	277		117900000	241		102375000	155		59625000	135		47675000	327575000
Total of A & B	292		124425000	256		108900000	170		65700000	150		53225000	352250000
Less: Staff children Management Quota 15 *4*220000													13200000
TOTAL 2017-18													339050000
2016-17 details page no 15													
Less: Staff children Management Quota 15 *4*220000													13200000
TOTAL 2016-17													325850000

BMS Educational Trust
Management Quota Students (P G) fees for the year 2016-17 (BMSCE)

	I Year		II Year		III Year		Grand Total
	No.of Students	Fees	No.of Students	Fees	No.of Students	Fees	
MBA	60	225000	52	225000			24322500
MCA	28	175000	19	175000	26	175000	11885000
TOTAL MBA AND MCA							36215000
M.Tech	14		23				5230000
Total		19432500		17905000		4100000	77652500

BMS Educational Trust
Estimated fees of Management Quota Students (P G) for the year 2017-18 (BMSCE)

	I Year		II Year		III Year		Grand Total
	No.of Students	Fees	No.of Students	Fees	No.of Students	Fees	
MBA	60	225000	57	225000			26325000
MCA	30	175000	27	175000	18	175000	13080000
TOTAL MBA AND MCA							39405000
M.Tech	27		13				5514000
Total		22659000		19110000		3150000	84324000

**ESTIMATED CALCULATION OF TUITION FEE INCOME AS PER STUDENTS STRENGTH
MCA (A)**

(Amount in Rupees)

Particulars	Tuition Fee Per Student	Budget for 2016-2017	No. of Students	Actual Receipts 2016-2017	No. of Students	Budget for 2017-2018
GOVERNMENT SEATS						
I Year	50,000	1,625,000	30	1500000	30	1,500,000
II Year	50,000	2,025,000	28	1400000	29	1,450,000
	Lateral Entry		12	50000	12	600,000
	ICD Student		1	125000		
III Year	50,000	1,900,000	29	1450000	30	1,500,000
	Lateral Entry		10	500000	12	600,000
	ICD Student				1	125,000
TOTAL		5,550,000	110	5025000	114	5,650,000

M.B.A (B)

Particulars	Tuition Fee Per Student	Budget for 2016-2017	No. of Students	Actual Receipts 2016-2017	No. of Students	Budget for 2017-2018
Government Seats						
I Year	50,000	3,500,000	60	3000000	60	3,000,000
	ICD Students		9	1125000	5	625,000
II Year	50,000	3,400,000	59	2950000	58	3,480,000
	ICD Students		4	500000	9	1,125,000
TOTAL(A)		6,900,000	132	7575000	132	6,480,000
GRAND TOTAL (A + B)						12,130,000

CALCULATION OF TUITION FEE INCOME AS PER STUDENTS STRENGTH M.Tech

HEAD OF ACCOUNT	Tuition Fees Per Student	BUDGET 2016-2017	ACTUAL RECEIPTS 2016-2017	No. of Students	Budget for 2017-2018
M.Tech in Construction Technology	20,000	720,000	720,000	36	720,000
M.Tech in Machine Design	20,000	720,000	720,000	36	720,000
M.Tech in Electronics	20,000	700,000	700,000	35	700,000
M.Tech in Power Electronics	20,000	660,000	640,000	33	660,000
M.Tech in Computer Science & Engg	20,000	700,000	680,000	35	700,000
M.Tech in Digital Communication	20,000	720,000	680,000	36	720,000
M.Tech in Environmental Engg	20,000	720,000	680,000	36	720,000
M.Tech in Transportation Engg	60,000	1,680,000	1,740,000	28	1,680,000
Govt Seat - 14, Mgt Seat - 04					
M.Tech in Computer Network & Engg.,	60,000	1,680,000	1,740,000	28	1,680,000
Govt Seat - 14, Mgt Seat - 04					
M.Tech in Bio Chemical Engg., Govt. Seat - 19, Mgt seat - 05	60,000	1,800,000	1,380,000	30	1,500,000
M.Tech in Bio Medical Signal Processing Govt. Seat - 19, Mgt seat - 05	60,000	2,160,000	1,860,000	30	1,920,000
M.Tech in Manufacturing Science & Engineering Govt. Seat - 20, Mgt seat - 04	60,000	2,280,000	2,340,000	38	2,160,000
M.Tech in VLSI Design & Embedded System Govt. Seat - 20, Mgt seat - 04	60,000	2,280,000	1,980,000	38	2,160,000
TOTAL	500,000	16,820,000	15,860,000	439	16,040,000

B.M.S COLLEGE OF ENGINEERING, BANGALORE 560 019
BUDGET FOR THE FINANCIAL YEAR 2017-2018
RECEIPTS (Amount in Rupees)

SNo.	HEAD OF ACCOUNT	BUDGET 2016-2017	ACTUAL RECEIPTS 2016-2017	BUDGET 2017-2018
Miscellaneous Fees (UG)				
1	Admission Fee	500,000	461,500	449,100
2	Application Fees	500,000	610,500	423,650
3	Miscellaneous Fees	1,500,000	1,232,722	1,436,375
4	Medical Fees	4,800,000	4,728,220	4,291,000
5	Reading Room Fees	700,000	490,615	649,100
6	Sports and Culture Fees	7,200,000	7,229,050	6,563,750
7	Library & Journal Fees	10,500,000	10,258,798	9,482,000
8	Automation Fees	950,000	1,184,910	695,500
9	Feed Back fees	1,250,000	1,257,000	1,122,750
10	Autonomous Fees	23,800,000	23,694,485	22,527,500
11	Hand Book	300,000	246,500	274,550
12	Laboratory Charges	2,700,000	2,460,950	2,445,500
13	Management STWF Fees	1,600,000	2,026,550	1,896,400
14	Internet Fees/data Centre Fees	10,800,000	10,360,920	9,782,000
15	Maintenance Charges	16,000,000	15,900,750	14,595,160
16	Placement & Training Fees	7,300,000	6,459,650	6,791,000
17	Student Project Work	2,550,000	2,405,255	2,295,500
18	News Letters Fees	1,400,000	1,266,100	1,298,200
19	Final Evaluation Fees (SEE)	17,000,000	20,581,730	21,000,000
Total 'A'		111,350,000	112,856,205	108,019,035
SALARY GRANTS & Other Grants				
a	85% Salary Grants	153,380,000	159,594,202	168,535,000
b	Contingencies, Consumables, Traveling	300,000		300,000
c	Building Maintenance & Upkeep (11-12 to 12-13)	4,701,400		4,701,400
d	Building Maintenance & Upkeep (13-14, 14-15)	3,407,500		3,407,500
f	Arrears of Grants (DTE) 12-13, 13-14, 14-15	24,236,200		24,236,200
g	Building Maintenance & Upkeep (15-16, 16-17)			393,614
h	Arrears of Grants (DTE) 15-16, 16-17			13,558,596
Total		186,025,100	159,594,202	215,132,310

SNo.	HEAD OF ACCOUNT	BUDGET 2016-2017	ACTUAL RECEIPTS 2016-2017	BUDGET 2017-2018
Miscellaneous Fees (PG M Tech)				
1	Admission Fees	25,000	33,600.00	35,000
2	Application Fees	50,000	56,000.00	60,000
3	Misc.Fee	24,000	53,134.00	55,000
4	Library Fees	220,000	223,250.00	225,000
5	News Letter & Cultural Fees	125,000	446,450.00	470,000
6	Registration Fees	20,000	33,375.00	36,000
7	Technical Journal Fees	700,000	669,750.00	700,000
8	Management & STWF Fee	-	178,600.00	200,000
9	Laboratory Charges	225,000	222,750.00	225,000
10	Project & Contingency Fee	130,000	222,750.00	225,000
11	Feed Back Fee (New)	180,000	111,375.00	120,000
12	Maintenance Fee (New)	1,500,000	1,330,445.00	1,400,000
13	Reading Room Fee	45,000	44,650.00	50,000
14	Sports Fee	350,000	334,875.00	350,000
15	Internet Fees	250,000	1,117,750.00	1,185,000
	Total 'B'	3,844,000	5,078,754	5,336,000
Miscellaneous Fees (PG MCA,MBA)				
1	Admission Fees	30,000	27,750.00	30,000
2	Application Fees	50,000	46,260.00	50,000
3	Misc.Fee	80,000	82,277.00	85,000
4	Library Fees	185,000	206,500.00	210,000
5	Medical Fees	2,000	-	2,000
6	News Letter & Cultural Fees	315,000	103,250.00	105,000
7	Registration Fees	32,000	34,200.00	35,000
8	Technical Journal Fees	650,000	619,500.00	620,000
9	Management & STWF Fee	165,000	165,200.00	165,000
10	Laboratory Charges	205,000	206,500.00	205,000
11	Internet Fees	1,010,000	370,000.00	370,000
12	Reading Room Fee	40,000	41,300.00	42,000
13	Sports Fee	310,000	309,750.00	310,000
14	Maintenance Fee	1,250,000	1,271,590.00	1,272,000
15	Feed Back Fee	90,000	103,250.00	105,000
16	Project Work Fee	203,000	206,500	207,000
17	Smart Card Fees	140,000	92,800	100,000
	Total 'C'	4,757,000	3,886,627	3,913,000
	Total 'A+B+C'	119,951,000	121,821,586	117,268,035

Miscellaneous Income				
1	Sale of Unserviceable/Obsolete/ Scrap Articles	500,000		500,000
2	Rent from Canteen & others	1,000,000	875,913	1,000,000
3	Miscellaneous Income	900,000	813,424	900,000
4	Application fees for Staff recruitment	100,000	2,600	100,000
5	International Conferences	1,000,000		
	Total	3,500,000	1,691,937	2,500,000
	Total	734,403,200	686,345,099	784,568,725

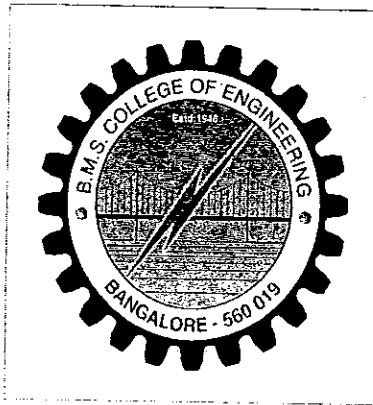
**Budget Estimates - Establishment Charges (GIA &MGMT) for the year
2017-2018**

GIA			MGMT		
1	Teaching	151875251	1	Teaching	255013825
2	Non-Teaching (Tech)	17530320	2	Non-Teaching (Tech)	43623826
3	Non-Teaching (Admn)	16321828	3	Non-Teaching (Admn)	8182431
4	Encashment of EL	6200000	4	CONSOLIDATED	9250602
5	Terminel encashment	2350000	5	Encashment of EL	12292578
6	Provision for Sr.Sc.& Others	500000	6	Terminel encashment	559093
7	VI th Pay arrears for faculty(15% mgmt. share) difference arrears for the period 1303 days	3500000	7	Gratuity	581775
			8	GARDENERS	1194336
			9	OTHERS(CONSOLIDATED)	23081517
Total		198277000	Total		353779000

P G Programme		MBA	MCA		M.Tech
1	Teaching	22793000	1	19073000	36686000
2	Non-Teaching	2806000	2	2590000	3330000
Total		25599000		21663000	40016000

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

TWENTIETH MEETING OF THE SUB-COMMITTEE OF BOG



MINUTES

DATE : 06.03.2017

VENUE : BOARD ROOM



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

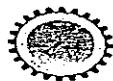
(Autonomous College under VTU | Accredited by NAAC | Approved by AICTE)

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II

TWENTIETH MEETING | 06.3.2017|SUB-COMMITTEE OF BOG | MINUTES

CONTENTS

Sl.No.	Particulars	Page No.
1	Minutes	1-6
	Annexures:	
2	Annexure-1	1
3	Annexure-2	2-5
4	Annexure-3	6-10
5	Annexure-4	11-14
6	Annexure-5	15
7	Annexure-6	16-17
8	Annexure-7	18-32
9	Annexure-8	33-36
10	Annexure-9	37



B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTIETH MEETING | 06.03.2017 | 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 Ramaswamyreddy, Nodal Officer – Finance Aspects
4. Dr.M.S.Dharmaprakash, Nodal Officer- Procurement
5. Dr. Gowrishankar, Nodal Officer - Academic Activities
6. Dr. H.S.Guruprasad, Nodal Officer- Academic Activities
7. Dr. K. Guruprasad, Nodal Officer - Equity Assurance Plan Implementation
8. Dr.M.C.Sampath Kumar, Nodal Officer- CV & EM
9. Dr.C.T.Puttaswamy , Nodal Officer – CV & EM
10. Dr. M. Ramachandra, Principal Investigator & Co-ordinator, CoE
11. Dr.S.Srinivas, Principal Investigator, CoE
12. Dr.M.V.Murugendrappa, Principal Investigator, CoE

1. Ratification of Minutes of 19th meeting of BOG sub-committee by the BOG

The committee noted that BOG has approved and ratified the minutes of the nineteenth meeting of Sub-committee of BOG in the 64th Meeting of BOG held on 11.1.17 [Annexure-1].

2. Final installment of TEQIP II grants :

The committee noted that the final instalment of TEQIP II grants of Rs.250 lakhs are yet to be released to the college by SPFU-Karnataka. The committee informed the TEQIP Coordinators to seek advance of Rs.250 lakhs from the management to continue the planned activities till the release of the balance grants from SPFU.



B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTIETH MEETING | 06.03.2017 | SUB-COMMITTEE OF BOG | MINUTES

3. Transfer of funds between TEQIP-II (1.2) and COE 1.2.1.

The committee noted that consequent to the NPIU/SPFU mail dated 22.9.15, an amount of Rs.320 lakhs was apportioned for procurement under COE and subsequent to observation/guidance from SPFU & NPIU officials in the review meeting held on 29.12.16 and the directions of BOG sub-committee, procurement was stopped at Rs.310.21 Lakhs itself under COE. The committee also took a note of the mails sent to NPIU & SPFU requesting them for considering the said expenditure as a special case and also if the approval of the said expenditure was not feasible, atleast to accord permission to allocate the entire interest earned on COE grants to the procurement. Further, the committee noted that the TEQIP Coordinators also contacted the NPIU officials in this regard over telephone.

The committee further noted that, in the expenditure review meeting conducted by NPIU and SPFU on 22 February 2017 at Higher Education Council Conference Hall, Bangalore, represented by the TEQIP Coordinators and COE coordinator, the officials of NPIU and SPFU have clarified that portion of interest earned on TEQIP II & COE grants i.e., 55% of interest earned under COE and 45% of interest earned on TEQIP II grants could be allocated towards the procurement made under COE to meet the excess expenditure made so far to some extent. The committee also noted that NPIU officials had informed that, TEQIP II & COE projects would come to an end by 31.3.2017 and a portion of the COE grants could be transferred to TEQIP-II or vice-versa or all the pending proposals of academic and R&D activities [all nature irrespective of the subject they pertain to] could be accepted and booked under academic activities or IOC of COE[sub component 1.2.1].

After detailed deliberations, the committee accorded approval to allocate interest portion to the extent of Rs. 15.03 lakhs [55% of 27.32 lakhs] earned on COE grants and to the extent of Rs.10.38 lakhs [45% of Rs.23.06 lakhs] interest earned on TEQIP II grants to procurement head under COE to adjust the expenditure incurred over and above Rs.275 lakhs [allocation limited by NPIU].

Further, the committee recalled that the BOG in its meeting held on 13.1.14 had approved to extend additional financial support from Management funds towards the procurement under COE and informed the Principal to seek necessary management funds to the extent of Rs. 9.8 lakhs i.e., the difference between actual expenses incurred and approved allocation including interest apportioned [Rs.310.21 lakhs - Rs.300.41 lakhs].



B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTIETH MEETING | 06.03.2017 | SUB-COMMITTEE OF BOG | MINUTES

4. Re-appropriation of funds under TEQIP II & COE

The committee took a note of the activities conducted so far under TEQIP II & COE and corresponding financial assistance extended from TEQIP II[sub component 1.2] & COE [sub component 1.2.1] respectively and approved the same.

The committee also noted the activities proposed under TEQIP II [sub component 1.2] & COE [sub component 1.2.1] till 31st March 2017 and after deliberations, the committee accorded approval for the appropriation of funds as mentioned below:

RE-APPROPRIATION OF FUNDS UNDER COE [sub component 1.2.1] : (Rs. in lakhs)

Sl. No.	Head of expenditure	Allocation	Amount spent as on 28.02.2017	Total Allocation as on 31.03.2017 [grants + interest earned]
1	Procurement	275.00	310.21	300.41
2	Assistantships	175.00	57.22	66.20
3	R&D		11.11	57.5
4	Faculty & Staff Development		29.49	41.94
5	III Cells		0.96	3.41
6	IOC	50.00	37.56	45.55
	TOTAL	500.00	446.55	515.01

Further, the committee accorded approval for the transfer of an amount of Rs. 22.69 lakhs from COE [sub component 1.2.1] to TEQIP II [sub component 1.2] :

RE-APPROPRIATION OF FUNDS UNDER TEQIP- II [sub component 1.2] : (Rs. in lakhs)

Sl. No.	Head of expenditure	Total Life Allocation Approved previously	Expenditure incurred up-to 28.02.2017	Total Allocation as on 31.03.2017 [grants + interest]
1	Procurement	788.69	701.39	788.17
2	Assistantship	869.11	359.55	439.55
3	Research Development		86.79	90.62
4	FSD		167.34	173.02
5	III Cell		80.07	82.57
6	Capacity Development		24.60	24.62
7	Reforms		42.73	43.50
8	Student Support		23.09	25.54
9	IOC	114	109.40	117.78
	Total	1771.80	1594.96	1785.37



B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTIETH MEETING | 06.03.2017 | SUB-COMMITTEE OF BOG | MINUTES

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

5. Award of financial assistance to UG/PG projects under TEQIP –II & COE

The committee took a note that at the department level, committee comprising of the HOD and few faculty members have reviewed the project proposals received from the UG & PG students and have recommended for the award of fiscal incentive to UG students and reimbursement of expenses to be incurred by PG students. In few departments, opinion of external experts have also been sought in this regard. The committee took a note of the list of project proposal recommended by the committee for financial assistance/ fiscal incentive under COE[sub component 1.2.1] and TEQIP II [sub component 1.2] .

After detailed deliberations, the committee accorded the approval for the sanction of fiscal incentive/financial assistance to the UG/PG students' projects & research scholars proposals under TEQIP II [sub component 1.2] as per the list at annexure – 2 and further accorded approval for extending financial assistance to faculty guide towards the UG/PG students projects & to research scholars for their proposals under COE [sub component 1.2.1] as per the list at annexure – 3 .

6. Award of teaching assistantship to PG students under TEQIP –II

The committee noted that in the 19th meeting of sub-committee of BOG, approval was accorded to sanction teaching assistantship of Rs.5,000/-, per month to 124 students admitted to M.Tech course during 2016-17 for 5 months. After deliberations, the committee noted the availability of funds, and accorded approval for the sanction of teaching assistantship of Rs. 8,000/- per month for 4 months [w.e.f 1st October 2016 to 31st January 2017] to the said 124 students admitted to M.Tech course during 2016-17 under TEQIP II [Annexure-4].

7. Award of Seed money to faculty for research under COE

The committee noted that Research proposals for the award of seed money were called from the faculty members and also took a note of the list recommended by the review committee comprising of TEQIP II & COE Coordinators, concerned HOD, faculty experts and external experts. After detailed deliberations, the committee accorded approval



B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTIETH MEETING | 06.03.2017 | SUB-COMMITTEE OF BOG | MINUTES

for the sanction of seed money to the faculty members for research activities under COE as per the list at Annexure- 5.

8. TEQIP II impact evaluation study:

The committee noted that Questionnaire was provided by IIT Delhi through its mail dated 3.2.2017 towards impact evaluation study of TEQIP II Programme and also took a note of the response submitted by the college in this regard.

9. SWOT analysis and case study for TEQIP-III KIC - TEQIP, IIT Guwahati

The committee noted that a key panel of KIC - TEQIP, IIT Guwahati comprising of Dr. Sunil Khijwania, Head, Center of Educational Technology and Dr. Gaurav Trivedi, from the department of Electrical & Electronics Engineering, with Sri. Manohar G Nayak, State Project Coordinator, SPFU visited the college on 16th February 2017 for SWOT analysis and case study for TEQIP-III. The committee further noted that the said team interacted with BMSCE TEQIP team for feedback.

10. TEQIP III Participation:

The committee took a note of NPIU's communication dated 17.2.2017[Annexure-6] informing that our institute has been shortlisted as Mentor Institute under Sub-Component 1.3 for twining focus state institutions under Sub-Component 1.1 and that selection of shortlisted institutes through Challenge method would begin from 22nd February 2017 onwards. The committee also noted that the mail from NPIU requested to indicate three institutions in the order of preference from the attached list of institutions for Mentoring purpose. The committee noted that the college sent the following names of the institutes as preferred for mentoring and ratified the same:

1. NIT Manipur, Manipur
2. Atal Bihari Vajpai Govt. Institute of Engineering & Technology, Shimla, Himachal Pradesh
3. Jawaharlal Nehru Govt. Engineering College, Sundernagar, Himachal Pradesh

The committee further took a note of the Institutional Development Proposal [IDP] for TEQIP-III submitted by the college to NPIU & SPFU on 18.02.17 and ratified the same [Annexure-7].



B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTIETH MEETING | 06.03.2017 | SUB-COMMITTEE OF BOG | MINUTES

11. Progress Review meeting of TEQIP-II institutions:

The committee noted that Dr.B.V.Ravishankar, TEQIP Coordinator-I & Vice Principal, Dr. L. Ravikumar, TEQIP Coordinator-II and Dr.M.Ramachandra, COE Coordinator attended the 'Expenditure Review Meeting of TEQIP II institutions' held on 22nd February 2017 at Higher Education Council Conference hall, DTE, Karnataka. The committee also noted that TEQIP Coordinators made a presentation on the progress achieved so far under TEQIP-II & COE and status of expenditure incurred before the NPIU & SPFU officials.

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

The committee took a note of the NPIU's communication dated 01.03.2017 informing that online web based satisfaction survey for Students, Faculty & Staff is a mandatory activity under TEQIP-II for assessing the performance of the institutions and all the students and staff members are expected to participate in the same and complete the 3rd round of web based survey on/before 20.03.2017.


13. Approval to faculty & students for attending programs and conduction of programs:

- a) The committee took a note of the consolidated list of the approvals of the sub-committee received by circulation for deputing faculty members to attend various programs & conducting programs under TEQIP II/COE placed at Annexure-8.
- b) The committee took a note of the consolidated list of the approvals of the sub-committee received by circulation for attending various programs by the students under TEQIP II/COE placed at Annexure -9.

Dr.L.Ravikumar, TEQIP Coordinator-II expressed sincere thanks to the sub-committee of BOG for their able and timely guidance to TEQIP Team of the college throughout the Project. He further thanked the TEQIP team of the college for their cooperation and participation in the TEQIP-II & COE activities leading towards the successful completion of the project by 31st March 2017.

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


Dr.K.MALLIKHARJUNA BABU
PRINCIPAL & CONVENOR


Prof.D.THUKARAM
CHAIRMAN



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

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II

TWENTIETH MEETING |06.03.2017|SUB-COMMITTEE OF BOG|MINUTES

ANNEXURES



BMS COLLEGE OF ENGINEERING, BENGALURU-19
Autonomous Institute, Affiliated to VTU

**EXTRACT OF THE MINUTES OF THE 64TH MEETING OF THE BOARD OF
GOVERNORS HELD ON 11TH JANUARY 2017**

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.

MEMBER-SECRETARY

Annexure - 2

BMS COLLEGE OF ENGINEERING, BENGALURU
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II
List of research project proposals of UG students approved for award of fiscal incentive under TEQIP-II

Sl.No.	Department	Name of the student	Project Title	Guide	Sanctioned Amount
1	Electronics & Communication Engineering	Bharath Keshavamurthy	Super wifi (802.11af) a hardware platform to utilize Tnws using wifi radio	M.N.Suma	10150
2		Abhay Narasimha K S			
3		Maresh N			
4		Asif Ahmed			
5		Ganesh Prabhu S	Prototyping a sign language translator	S.Lalitha	10074
6		Ashmitha Vinod			
7		Akshatha Ashok			
8	Medical Electronics	Geetha Bhat	Computer aided tongue diagnosis tool for ayurvedic practices	Dr.Manisha Joshi	20000
9		Keerthana Rao			
10		Megha Meghralaj	Proof of concept development for the use of the thermography as low risk adjunctive tool for early diagnosis of breast cancer	Dr.Manisha Joshi	4500
11		Pooja Bhosugi			
12		Varshitha P D	Design And Development of multi parameter biosignal acquisition system	Dr.K.Vijayalakshmi	25000
13		Vijayalakshmi R			
14		Chandini N G	Wireless ambulatory ECG	Kaipana R	12000
15	Civil Engineering	Muniraju Y S			
16		Shwetha M			
17		Dinakara S N	Modelling of environmental parameters in an Industrial suburb	Dr. M.C.Sampath Kumar	11000
18		Henantha kumar P R			
19		Manjesh B			
20		Manjunatha B			
21		Prashnath A			
22		Alfa Khan	Evaluation of marshall properties of polymer modified bituminous concrete mix with flint replacement	Dr.K.Ganesh	11000
23		Dikshiya Ghinire			
24		Rukesh Manuru			
25		Sonia Devi	Evaluation of marshall properties of polymer modified bituminous concrete mix with steel slag gas filler replacement	Dr.K.Ganesh	11000
26		Pranav Sridhar			
27		Fazal Ahmed			
28	Mechanical Engineering	Pavan S Bhardwaj	Design, Fabrication of analysis of self balancing robotics mobility platform	Dr. H.K.Rangavittal	17100
29		Ashray Balakrishna			
30		Dilip N			
31		Naveen K S			
32		Amit C Joshi			
33		Arupa R Kamath	Fabrication testing on repactive based magnetic coupling	E Suresh	26390
34		Karthick B N			
35		Kiran K			
36		Deepthi B			
37		Manju M B	Vibration analysis of think curved plates	Dr.Y.S.Rammohan	25900
38		Nikhil K S			
39		Nishanth D			
40		Salvignesh K S			
41		Narendra Pandit			
42		Rachunandan A B	Design & Fabrication of an all terrain wheel chair	G.Dilip Maruthi	45600
43		Rhythm Agarwal			
44		Shyam chikkar			
45		Souabn Anur			

46	Mechanical Engineering	Thagnatha S Prasad	Design and fabrication of automatic cloth folding machine	G.Karthick	22000
47		Shrida Vijayakumar			
48		Priyanka S Hubli			
49		Alekhya Sonuppu			
50		Ajaya V	Segmented studies on urban driving cycle and traffic pattern	Dr.Rajeshwari Hegde	27438.25
51		Niranjana M			
52		Skanda R Pelli			
53		Sriwas M C	Smart metro rail system	Shreenivas B	4075
54		Suman S Hosamane			
55		Kumararayan Bhat			
56		Dilip Kumar M S			
57	Telecommunication Engineering	Ashish Manohar	Drone based remote sensing and feature extraction	C.Gururaj	18493
58		Duram Sneha			
59		Kuna Sakruja			
60		Tanya R Diwedi	Farmboat- automated forming robot using arm for self cultivation	Archana K	17600
61		Kuna Gangai S			
62		Meghana R			
63		Prathibha G			
64		Ramya D	Automatic billing system using U-I-N Module	Archana K	13650
65		Suma N			
66		Ranjitha K S			
67	Electrical & Electronics Engineering	Chinmay Mohan	Discharge based gas cleaning with newly developed high voltage rotary spark gap switch	D.Ramesh Kumar	59900
68		Deeksha H C			
69		M. Shyamala			
70		Priyanka Kalwai			
71	Industrial Engineering & Management	Siddarth S Metri	Generation of electricity using piezo electric material	B. Ramesh Nayak	20000
72		Ganesh M S			
73		Anirudha C			
74		Apoorva N S	Design & development of rack system with exchangeable shelves	Dr. K.J. Rathnraj	15000
75		Krutika Konnur			
76		Kanshika			
77		Urpal N Sharma	Design & fabrication of strider	B.Ramesh Nayak	20000
78		Ganeshha Shetty			
79		Varchasvi V R			
80	Computer Science & Engineering	Krishna R Deekshith	Path planning in Quadcopters	Dr.Umadevi V	20000
TOTAL					468070.25

BMS COLLEGE OF ENGINEERING, BENGALURU
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II
List of research project proposals of PG students approved for financial assistance under TEQIP-II

Sl.No.	Department	Programme	Name of the student	Project Title	Guide	Amount
1	Civil Engineering	Construction Technology	Sindhudhara G C	Behaviour of eccentrically loaded masonry wall constructed with marginal materials	Dr.Mangala Keshava	8500
2	Civil Engineering	Construction Technology	Vidhyara V	Relationship between strength & Modulus of masonry & its constituents through experimental investigations on english banded prism	Dr.Mangala Keshava	8400
3	Civil Engineering	Construction Technology	S Harikishan	Pedestrian safety on midblock sections	Dr.H.S.Sathish	7000
4	Civil Engineering	Transportation Engineering & Management	Nithin K S	Effect of different methods of compaction on UCC strength of soil	Surekha Nagesh	10000
5	Civil Engineering	Transportation Engineering & Management	Mruthunjay Kadavyanaratham	Studies on SMA mixes with partial replacement of RAP	Dr.H.S.Jagadeesh	15000
6	Chemical Engineering	Biochemical Engineering	Deepthi G M	Production and optimization of performance and emission characteristics of diesel engine with blended used vegetable oil biodiesel	Dr.Samita Maity	10000
7	Civil Engineering	Construction Technology	M Pavan	Development of trip generation models	Dr.H.S.Sathish	7000
8	Civil Engineering	Construction Technology	Deepa Karanadi	Speed spectrum study at road humps	Dr.H.S.Sathish	7000
9	Civil Engineering	Transportation Engineering & Management	Manoj Chinamey B	Analysis of black spot	Dr.H.S.Sathish	7000
10	Civil Engineering	Transportation Engineering & Management	Vivek Vgavimath	A study on rutting of unpaved roads using RCRA	Surekha Nagesh	10000
11	Civil Engineering	Transportation Engineering & Management	Ankitt Singh	Travel Behaviour analysis	K Parthan	7000
12	Civil Engineering	Transportation Engineering & Management	Harsha M M	Effect of right turning movement and composition of traffic on saturation flow at intersection	Dr.H.S.Sathish	7000
13	Civil Engineering	Transportation Engineering & Management	Abhishek Mendigerl	Laboratory investigations on stone matrix asphalt and study on effect of addition of cellulose fibers under water mix	Dr.H.S.Jagadeesh	10000
14	Civil Engineering	Construction Technology	K S Kirankumar	Behavior of axially loaded masonry wall constructed with marginal materials	Dr.Mangala Keshava	8500
15	Civil Engineering	Construction Technology	Sowjanya L	Behavior of autoclaved aerated concrete block masonry with conventional & ready mix mortar through full scale wall testing	Dr.Mangala Keshava	6500
16	Civil Engineering	Construction Technology	Mallesh	Rheological studies on low slump concrete	Dr.S.Girish	8000
17	Chemical Engineering	Biochemical Engineering	Bangale Manisha M	Extraction & Purification of phytochemical	Dr.A.Chetan A Nayak	8000

BMS COLLEGE OF ENGINEERING, BENGALURU
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II
List of research project proposals of PG students approved for financial assistance under TEQIP-II

Sl.No.	Department	Programme	Name of the student	Project Title	Guide	Amount
1	Civil Engineering	Construction Technology	Sindhudhara G C	Behaviour of eccentrically loaded masonry wall constructed with marginal materials	Dr.Mangala Keshava	8500
2	Civil Engineering	Construction Technology	Vidhyara V	Relationship between strength & Modulus of masonry & its constituents through experimental investigations on english banded prism	Dr.Mangala Keshava	8400
3	Civil Engineering	Construction Technology	S Harikishan	Pedestrian safety on midblock sections	Dr.H.S.Sathish	7000
4	Civil Engineering	Transportation Engineering & Management	Nithin K S	Effect of different methods of compaction on UCC strength of soil	Surekha Nagesh	10000
5	Civil Engineering	Transportation Engineering & Management	Mruthunjay Kadayyanaaramath	Studies on SMA mixes with partial replacement of RAP	Dr.H.S.Jagadeesh	15000
6	Chemical Engineering	Biochemical Engineering	Deepthi G M	Production and optimization of performance and emission characteristics of diesel engine with blended used vegetable oil biodiesel	Dr.Samita Malta	10000
7	Civil Engineering	Construction Technology	M Pavan	Development of trip generation models	Dr.H.S.Sathish	7000
8	Civil Engineering	Construction Technology	Deepa Karanadi	Speed spectrum study at road humps	Dr.H.S.Sathish	7000
9	Civil Engineering	Transportation Engineering & Management	Manoj Chinamay B	Analysis of black spot	Dr.H.S.Sathish	7000
10	Civil Engineering	Transportation Engineering & Management	Vivek Vgavimath	A study on rutting of unpaved roads using RCBA	Surekha Nagesh	10000
11	Civil Engineering	Transportation Engineering & Management	Ankit Singh	Travel Behaviour analysis	K Parthan	7000
12	Civil Engineering	Transportation Engineering & Management	Harsha M M	Effect of right turning movement and composition of traffic on saturation flow at intersection	Dr.H.S.Sathish	7000
13	Civil Engineering	Transportation Engineering & Management	Abhishek Mendigeri	Laboratory investigations on stone matrix asphalt and study on effect of addition of cellulose fibers under water mix	Dr.H.S.Jagadeesh	10000
14	Civil Engineering	Construction Technology	K S KiranKumar	Behavior of axially loaded masonry wall constructed with marginal materials	Dr.Mangala Keshava	8500
15	Civil Engineering	Construction Technology	Sowjanya L	Behavior of autoclaved aerated concrete block masonry with conventional & ready mix mortar through full scale wall testing	Dr.Mangala Keshava	6500
16	Civil Engineering	Construction Technology	Mallesh	Rheological studies on low slump concrete	Dr.S.Girish	8000
17	Chemical Engineering	Biochemical Engineering	Bangale Manisha M	Extraction & Purification of phytochemical	Dr.A.Chetan A Nayak	8000

BMS COLLEGE OF ENGINEERING, BENGALURU
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II
List of proposals by faculty guide towards research projects of UG students approved for financial assistance under COE

Sl.No.	Department	Name of the student	Project Title	Guide	Amount
1	Chemical Engineering	Aditya S H	Treatment of waste water and Power Generation using MFC	Soumen Panda	15750
2		Aradhana Rajashekar			
3		Karthick K			
4		Chaitra S			
5	Civil Engineering	Y.Sudheendra Chowdhary	Properties of Polymer modified bituminous concrete mix with flyash as filler replacement	Dr.K.Ganesh	15000
6		Sunil Gowda			
7		Rishav Bharti			
8		Shobhit Chandra			
9	Chemical Engineering	Avinash V	Study of continuous foam separation column	Dr.Samita Maitra	11089
10		Lipika T Hegde			
11		Nikhil S			
12		Nikita S			
13	Chemical Engineering	Averli Priya Fernandes	Quantative and qualitative for heavy metals using spot testing and image processing	Dr.Samita Maitra	12295
14		Jason D Silva			
15		Nivya Uday K			
16		HM Shravya			
17	Mechanical Engineering	Charan Kumar	Design & fabrication smart wheel	Nirupama Mohan	39384
18		Dheraj V			
19		Harshittha Bhuvanendra			
20		Kansala Karthik			
21	Civil Engineering	Parichhed ghae guring	Laboratory Investigation of subgrade soil using nanochemical as additives	Dheeraj Kumar N	15000
22		shubhank singh			
23		Shabir Ahmed Sankalap			
24		Swami Terence Chlirom			
25	Chemical Engineering & Chemistry	S Niranjn	Isolation and Optimization of Hca from garcinia species	Dr.Madhu G	30000
26		Mohammed Rayaz			
27		Mohammed Mustag Ali			
28		Naman Verma			
29	Mechanical Engineering	Asarsh S Bhardwai	Study of leading edge protuberances for low speed horizontal axis wind turbines	Dr.V.S.Mudakeppanavar	40000
30		Ashish Kangan			
31		Abhijith Amberi paramanand			
32		Brendan C.D'SA			
33		Mandeep Singh	Desihn and fabrication of energy harvesting system	Rajesh P	34350
34		Bharath Kumar S			
35		Deepak R Patil			
36		Ganesh H Kattimani			
37		Hananantha Patil			

38	Civil Engineering	Akash M Patil	Strength and elastic properties of south indian table moulded brick masonry with polymerising motor	Dr.P.Prasanna Kumar	10000
39		Bheemugouda S D			
40		Lingaraj A			
41		Laxmikanth			
42		Mailikharjuna S			
43	Biotechnology	Ameen Sabi D S	Characterization and detection of toxin producing algal blooms in aquatic systems	Dr.Savithri Bhat	21000
44		A T Neethi Darya			
45		Poonima N Lakshmi			
46		Meghana M R	Detection of cytokines by fir in csf samples and its potential application as a diagnostic tool in neurological cases	Prathibha N	23068
47		Priyanka K			
48		Manisha K	Enrichment of food waste compost via eco friendly amendments	Prapulla	20000
49		M Bhavana lakshmi			
50		Y V Yashaswini			
51		Devyani J Jadhav	Screening of methanol resistant lipases and study of their application in Biodiesel production	Chandraprasad M S	19503
52		Jonathan Alex James			
53	Samyuktha Shankar				
54	Sridevi Mahendra				
55	Anusha M Patil	Cloning of Hypothetical proteins in triple negative breast cancer	Divijendra natha reddy	17510	
56	Chetana P Jain				
57	Nivedita Sharma				
58	Saloni Jain				
59	Jennifer Richika William	Extraction and purification of bromelain enzyme from pineapple peels	Dr.Saisha Vinjamuri	23980	
60	Lavanya R B				
61	Aishwarya S	Isolation and Characterization of Keratanase producing organisms for extraction of amino acids from chicken feathers	Dr.M.Rajyalakshmi	11437	
62	Aishwarya Murthy				
63	Deepthi D R	Bioinspires porous nanocarbons derived from bioresources for antimicrobial studies	Asnok Kumar S	19991	
64	Hamsanandhini				
65	Yashaswini				
66	Manasa K H	Isolation and purification of vice alkaloids from endophyte isolated from catharanthus roseus	Hedagali Ashoka	24300	
67	Ruby Jain				
68	Civil Engineering	Akhil A M	Health monitoring/mineral admixtures concrete technology	Dr.S.Girish	15000
69		Arunkumar G P			
70		Ahanushree J Natekar			
71		Pavithra Raghunathan			
TOTAL					418657

BMS COLLEGE OF ENGINEERING, BENGALURU
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II
List of proposals by faculty guide towards research projects of PG students approved for financial assistance under COE

Sl.No.	Department	Programme	Name of the student	Project Title	Guide	Amount
1	Civil Engineering	Environmental Engineering	Sheeba Arjun	Stabilization of metal waste using additives	Dr C R Ramakrishnaiah	10000
2	Civil Engineering	Environmental Engineering	Anusha J	Comparative study of adsorption using rice husk ash and activated carbon	Dr M C Sampath Kumar	6000
3	Civil Engineering	Environmental Engineering	Nitesh	Stabilization of vegetable market waste (madiwala) through vermi composting	Dr M C Sampath Kumar	10000
4	Civil Engineering	Environmental Engineering	Tejashwini M Tegghalli	Solidification/ stabilization of metal laden waste	Dr C R Ramakrishnaiah	10000
5	Civil Engineering	Environmental Engineering	V Avinash	Biogas by co-digestion	Dr L Udaya Sinha	10000
6	Chemical Engineering	Bio-Chemical Engineering	Shweta Gawade	Aerobic biodegradation of BTCP by P.aeruginosa and A.faecalis immobilized in PVA gel	Dr C T Puttaswamy	10000
7	Civil Engineering	Transportation Engineering	Rita B Vernekar	Evaluation of rutting performance of polymer modified bituminous concrete mix using granite dust as filler replacement	Dr K Ganesh	13100
8	Civil Engineering	Transportation Engineering	Shredhar Mallapur	Establishment of co-relation between properties of bituminous mix with ultrasonic pulse velocity	Dr H S Jagadeesh	19000
9	Civil Engineering	Transportation Engineering	Suhas H S	Rutting characteristics of polymer bituminous concrete mix using steel slag as filler replacement	Dr K Ganesh	10500
10	Civil Engineering	Environmental Engineering	Shashikala N	Comparative study on removal of congo red dye using tio2 and zno nanoparticles	Smt. Prathima B & Smt. Praphulla	10500
11	Civil Engineering	Environmental Engineering	Neetha S	Removal of heavy metals by using iron oxide nanoparticles	Smt. Prathima B & Smt. Praphulla	8000
12	Civil Engineering	Construction Technology	Sowmya L	Adobe blocks using terrazyme and rice husk ash	Dr H B nagraj	15000
13	Civil Engineering	Construction Technology	Arjun C Babu	CSEB blocks using terrazyme and granite sludge	Dr H B nagraj	15000
14	Civil Engineering	Construction Technology	Arunkumar	Use of terrazyme in rammed earth construction	Dr H B nagraj	18000
15	Medical Electronics	Biomedical Signal Processing & Instrumentation	Lakshmi S D	Investigation on antimicrobial property using bio-waste based carbon nanomaterials	Dr Gurumurthy Hegde & Sri. Abhishek M Appaji	12000
16	Chemical Engineering	Bio-Chemical Engineering	Ashwini Rawal	Extraction of c phycocyanin from spirulina by sonication method	Dr Chetan Nayak	15000
17	Chemical Engineering	Bio-Chemical Engineering	Shreedevi S Talikoti	Synthesis and characterization of cerium based mixed catalysts for conversion of crude glycerol from biodiesel to fuel additive	Dr samitra Maltra	20000
18	Chemical Engineering	Bio-Chemical Engineering	Prashant Kumar	Saccharification of lignocellulose substrates using tremetes versicolor for bioethanol production	Dr G N Rameshaiah	20000
19	Chemical Engineering	Bio-Chemical Engineering	Tejashwini D E	Removal of chromium by chemical and biological method	Smt. Y K Suneetha	10000

20	Mechanical Engineering	Manufacturing Science & Engineering	Suhas M B	Comparative study of hand layup, resin transfer moulding and vacuum bagging methods of making fiber reinforced polymer composites of different weave pattern	Sri. Madhav Murthy	16609
21	Mechanical Engineering	Manufacturing Science & Engineering	Prasanna S N	Characterisation of natural fibers reinforced polymer composites	Dr. V S mudakappanavar	20000
22	Mechanical Engineering	Manufacturing Science & Engineering	Akash S	Preparation & characterization of Dupin silk reinforced phenalkmine resin based nano biocomposites	Dr.M.Ramachandra	11630
23	Civil Engineering	Construction Technology	Shashikiran M R	Influence of ultra fine materials on compressive strength of concrete	Dr.R. V Ranganath	12000
24	Civil Engineering	Construction Technology	Naveen A K	Self wiring concrete based	Dr.R.V.Ranganath	15000
25	Civil Engineering	Construction Technology	Saurabh	Pond Ash based geopolymers concrete	Dr.R.V.Ranganath	20000
26	Civil Engineering	Construction Technology	Pallavi Suresh Shetty	Feasibility studies on self compacting concrete using copper slag as filler material	Dr.R.V.Ranganath	20000
TOTAL						357339

BMS COLLEGE OF ENGINEERING, BENGALURU
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II

List of proposals by faculty guide towards research project of research scholars approved for financial assistance under COE

Sl.No.	Department	Title of the proposal	Name of the student	Guide	Amount
1	Chemistry	Physico chemical studies of medicinal components by electro analytical techniques	Malini S	Dr.Kalyan Raj	30376
2		Catalyzed oxidation Kinetics of some drug molecules	N Suresha	Dr.Kalyan Raj	11629
TOTAL					42005



BMS COLLEGE OF ENGINEERING, BENGALURU-560 019
[Autonomous College under VTU]
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II[1.2]
LIST OF M.Tech STUDENTS [ADMITTED DURING 2016-17] AWARDED
TEACHING ASSISTANTSHIP OF Rs.8,000/- PM FROM 1.10.16 TO 31.1.2017

Sl. No.	Name of the student	Title of the M.Tech Programme
1.	Manu Y	Construction Technology
2.	Vijaykumar K	Construction Technology
3.	Sujith K	Construction Technology
4.	Shivalingayya	Construction Technology
5.	Anusha Bekal	Construction Technology
6.	Akshay Shankargouda Patil	Transportation Engineering & Management
7.	Shashidhar Shankar Bhat	Transportation Engineering & Management
8.	Swathikrishna B	Transportation Engineering & Management
9.	Kiran V	Transportation Engineering & Management
10.	Darshan S V	Transportation Engineering & Management
11.	M Akshatha	Transportation Engineering & Management
12.	Chaitra S Hokrani	Transportation Engineering & Management
13.	Akash D Sajjanar	Transportation Engineering & Management
14.	Irshad Ahmed H A	Transportation Engineering & Management
15.	Panith K R	Transportation Engineering & Management
16.	Madan Gowda N	Transportation Engineering & Management
17.	Sanjay Kumar S	Transportation Engineering & Management
18.	Shravya H D	Transportation Engineering & Management
19.	Sharanabasava V Patil	Transportation Engineering & Management
20.	Eratte Vinod Babu	Transportation Engineering & Management
21.	Raju	Transportation Engineering & Management
22.	Akshitha Raj B N	Biomedical Signal Processing & Instrumentation
23.	Amulya H	Biomedical Signal Processing & Instrumentation
24.	Anantha Padmanabha A G	Biomedical Signal Processing & Instrumentation
25.	C N Soumya Amritha Kirthi	Biomedical Signal Processing & Instrumentation
26.	Farzana A	Biomedical Signal Processing & Instrumentation
27.	Harshitha S	Biomedical Signal Processing & Instrumentation
28.	Mohammed Sameer M	Biomedical Signal Processing & Instrumentation
29.	Mohammed Tanzim Shoaib	Biomedical Signal Processing & Instrumentation
30.	Ramya H R	Biomedical Signal Processing & Instrumentation
31.	Rashmi L B	Biomedical Signal Processing & Instrumentation
32.	Shalini K	Biomedical Signal Processing & Instrumentation
33.	Sheher Banu	Biomedical Signal Processing & Instrumentation
34.	Uma D	Biomedical Signal Processing & Instrumentation
35.	Ujwal Vijaykumar	Biomedical Signal Processing & Instrumentation
36.	Suma G R	Digital Communication
37.	Santhosh V	Digital Communication
38.	Chandan B S	Digital Communication
39.	Shivakumar S Mulagundmath	Digital Communication



BMS COLLEGE OF ENGINEERING, BENGALURU-560 019
[Autonomous College under VTU]
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II[1.2]
LIST OF M.Tech STUDENTS [ADMITTED DURING 2016-17] AWARDED
TEACHING ASSISTANTSHIP OF Rs.8,000/- PM FROM 1.10.16 TO 31.1.2017

40.	Sadanand	Digital Communication
41.	S. Nandini	Digital Communication
42.	Namitha M Haveri	Digital Communication
43.	Gagan G	Digital Communication
44.	Surekha	Digital Communication
45.	Lekhashree K S	Digital Communication
46.	Sanath V Bharadwaj	Digital Communication
47.	Samartha Gurunatha G Gopali	Digital Communication
48.	Susheela K	Digital Communication
49.	Akshata	Electronics
50.	Bharghavi J P	Electronics
51.	Darshan N	Electronics
52.	Pradeep Mallappa Kumbar	Electronics
53.	Prajai J Shetty	Electronics
54.	Shivaprasad Bhimappa Wagh	Electronics
55.	Vinayak Gandage	Electronics
56.	Vindhya P V	Electronics
57.	Ganesh B N	Electronics
58.	Channabasappa	Power Electronics
59.	Divya Nagesh Gouda	Power Electronics
60.	Kashinath Sangappa	Power Electronics
61.	Kaushik M B	Power Electronics
62.	Muzaffar Alam	Power Electronics
63.	Pavithramala S P	Power Electronics
64.	Sunita Hubballi	Power Electronics
65.	Raghavendra Naik K	Power Electronics
66.	Tilin Oommen	Power Electronics
67.	Bhavana R	VLSI Design & Embedded Systems
68.	Misbah Rehman Z	VLSI Design & Embedded Systems
69.	Chandrakantha M.S	VLSI Design & Embedded Systems
70.	Bhagyashree K	VLSI Design & Embedded Systems
71.	Shrisha M R	VLSI Design & Embedded Systems
72.	Kavya S	VLSI Design & Embedded Systems
73.	Dhatri M B	VLSI Design & Embedded Systems
74.	G J Thejesh Reddy	VLSI Design & Embedded Systems
75.	Avinash M R	Computer Networking Engineering
76.	Nityashree N M	Computer Networking Engineering
77.	Anusha H R	Computer Networking Engineering
78.	Deepthi M	Computer Networking Engineering
79.	Srillakshmi Gorur	Computer Networking Engineering



BMS COLLEGE OF ENGINEERING, BENGALURU-560 019
[Autonomous College under VTU]
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II[1.2]

**LIST OF M.Tech STUDENTS [ADMITTED DURING 2016-17] AWARDED
TEACHING ASSISTANTSHIP OF Rs.8,000/- PM FROM 1.10.16 TO 31.1.2017**

80.	Mamatha	Computer Networking Engineering
81.	Jhanavi Jyothish	Computer Networking Engineering
82.	Leena R	Computer Networking Engineering
83.	Kishore Shreyas S	Computer Networking Engineering
84.	Chaitra Mara	Computer Networking Engineering
85.	H.R.Pavan	Computer Networking Engineering
86.	Divya Yadav N	Computer Networking Engineering
87.	Suman Patil	Computer Networking Engineering
88.	Santoshi Savant	Computer Networking Engineering
89.	Roopika	Computer Networking Engineering
90.	Chandrappa D.R	Computer Networking Engineering
91.	Meghana Bhatt S	Environmental Engineering
92.	Hariyakrishna A	Environmental Engineering
93.	Sharal Martis	Environmental Engineering
94.	Abhilash G	Environmental Engineering
95.	Shashidhara K	Environmental Engineering
96.	Deepak B Sajjanar	Environmental Engineering
97.	Snehalatha Bharthi	Environmental Engineering
98.	Swetha R	Environmental Engineering
99.	Aquib Nasir Razi	Environmental Engineering
100.	Sunil G Mumbaraddi	Environmental Engineering
101.	Aparna P M	Environmental Engineering
102.	Deepashree Chalageri	Environmental Engineering
103.	Lad Virabh Bhikaji	Environmental Engineering
104.	Kanthraj K S	Environmental Engineering
105.	Vinay N V	Environmental Engineering
106.	Mahammadsameer	Environmental Engineering
107.	Waseem Raza	Environmental Engineering
108.	Sharon Ranjitha Paul	Environmental Engineering
109.	Gajendra Prasad J	Biochemical Engineering
110.	Sahana Channaveeresh Hiremath	Biochemical Engineering
111.	Dhriti V	Biochemical Engineering
112.	Shwetha	Biochemical Engineering
113.	Manasa A	Biochemical Engineering
114.	D N Naga Rajeswari	Biochemical Engineering
115.	Vidyashree	Biochemical Engineering
116.	Abida Khatoun	Computer Science & Engineering
117.	Chandan J	Computer Science & Engineering
118.	Meghana D R	Computer Science & Engineering
119.	Nagarjuna Sagar V R	Computer Science & Engineering



BMS COLLEGE OF ENGINEERING, BENGALURU-560 019
[Autonomous College under VTU]
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II[1.2]
LIST OF M.Tech STUDENTS [ADMITTED DURING 2016-17] AWARDED
TEACHING ASSISTANTSHIP OF Rs.8,000/- PM FROM 1.10.16 TO 31.1.2017

120.	Pooja J	Computer Science & Engineering
121.	Shalini U S	Computer Science & Engineering
122.	Shashidhar B Honnali	Computer Science & Engineering
123.	Vinay S	Computer Science & Engineering
124.	Venu Gopal K	Machine Design

BMS COLLEGE OF ENGINEERING, BANGALORE
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II
CENTER OF EXCELLENCE ADVANCED MATERIALS

Annexure-5

List of research proposals by faculty members approved for award of seed money

Sl No	Title of the Proposal	Dept	Name of the Investigator	Designation	Amount
1	Design and Development of EEG cap and Skin Impedance Measuring System	ML	Dr.Vijayalakshmi K	Associate Professor	80000.00
2	Development of microfluidic Impedance Flow Cytometry based cost effective rapid malaria diagnosing System	ML	Dr.M.S.Suma	Professor	90000.00
3	Fabrication of low cost friction stir welding(FSW)machine	ME	Dr. Anilchandra	Assistant Professor	70000.00
4	Development of SLA 3D Printer	ME	Sreekanth N V	Assistant Professor	100000.00
5	Studies on ewly conceptualized padded seal fabricationand testing under static and dynamic condition	ME	Dr.J.Sharana Basavaraja	Associate Professor	40000.00
6	Design & fabrication smart wheel	ME	Nirupama Mohan	Assistant Professor	84950.00
7	Investigations on select te chalcogenides to evaluate their sustainability in sensor applications	ECE	Dr.K.P.Lakshmi	Associate Professor	100000
8	Research Investigations on Materials for Anode,cathode, Separator and electrolytes of lithium ion based cells for electric mobility	ECE	Dr.B.S.Nagabhushana	Professor	100000
9	Water Management System in Government Bus Depatement of Bangalore Phase I	CV	Dr.Suresh Ramaswamyreddy	Professor & COE	60000.00
10	Experimental Investigator on Geopolymer Concrete	CV	Sri. Sreenivasa Murthy A	Assistant Professor	36000.00
11	Moving walls in construction	CV	Dr.Sakey Shamu	Professor & Director, BMSTRI	100000.00
12	Influence of ultra fine mineral admistures on the properties of concrete	CV	Dr.R.V.Ranganath	Professor	95000.00
13	Development of lime pozzolana-cement geopolymer binders and blocks	CV	Dr. S.Raghunath	Professor	80000.00
14	Study on the role of chalcoes as an inhibitor of the hedgehog pathway with special reference to smo	BT	Dr.M.Rajyalakshmi	Professor	100000
15	Variation in expression of beta-amyloid protein in SH-SY5Y	BT	Dr.Savithri Bhat	Associate Professor & HOD	100000
16	Isolation and Purification of vinca alkaloids from endophytes isolated from catharanthus roseus	BT	Hadagali Ashoka	Assistant Professor	100000
17	Study on application of Ginsenoside phytosome nanoparticles for drug delivery system	BT	N Prathiba	Assistant Professor	100000
18	Applications of shockwaves to enhance the properties of compounds in stevia plant	BT	Pradeep S	Assistant Professor	82796.00
19	Carbon Nanomaterial -Porphyrin hybrid as advanced Material for catalytic reactions	R & D	Dr.Gurumurthy Hegde	Professor CNR Rao Chair Professor	100000
20	Experimental investigation of burning behavior of biomass blends in oxy-fuel environment	CH	Sri.R.Shivakumar	Assistant Professor	55000
21	Photocatalytic degradation of environmental pollutants	CH	Dr.G.Keerthiga	Assistant Professor	29910.00
Total					1703656.00

BMSCE

Viceprincipal - <viceprincipal@bmsce.ac.in>

*Annexure - 6***TEQIP-III: MOST URGENT _ Selection of Mentor Institutions****National Project Implementation Unit** <npiuw@bmsce.ac.in>

17 February 2017 at 14:25

To: "ps@ee.iests.ac.in" <ps@ee.iests.ac.in>, "vc@dcrustm.org" <vc@dcrustm.org>, "sureshc30@yahoo.co.in" <sureshc30@yahoo.co.in>, "teqip@dcrustm.org" <teqip@dcrustm.org>, "pg_tewari@bvb.edu" <pg_tewari@bvb.edu>, "tqcoord@bvb.edu" <tqcoord@bvb.edu>, "swamy_vtu@yahoo.com" <swamy_vtu@yahoo.com>, "swamy1964ait@gmail.com" <swamy1964ait@gmail.com>, "lcsteqipait@gmail.com" <lcsteqipait@gmail.com>, "principal@nie.ac.in" <principal@nie.ac.in>, "principalnie@yahoo.com" <principalnie@yahoo.com>, "hdphanee@yahoo.com" <hdphanee@yahoo.com>, "nie.teqip.mysore@gmail.com" <nie.teqip.mysore@gmail.com>, "drkmbabu@gmail.com" <drkmbabu@gmail.com>, "principal@bmsce.ac.in" <principal@bmsce.ac.in>, "viceprincipal@bmsce.ac.in" <viceprincipal@bmsce.ac.in>, "ravibmsce@yahoo.com" <ravibmsce@yahoo.com>, "ravi.mech@bmsce.ac.in" <ravi.mech@bmsce.ac.in>, "venusridhar@yahoo.com" <venusridhar@yahoo.com>, "mailhoovera@yahoo.com" <mailhoovera@yahoo.com>, "becprincipal@yahoo.com" <becprincipal@yahoo.com>, "becteipco@gmail.com" <becteipco@gmail.com>, "pssreejith@cusat.ac.in" <pssreejith@cusat.ac.in>, "benny@cusat.ac.in" <benny@cusat.ac.in>, "principal@spce.ac.in" <principal@spce.ac.in>, "phsawant@hotmail.com" <phsawant@hotmail.com>, "m_murudi@spce.ac.in" <m_murudi@spce.ac.in>, "pmkhodke@yahoo.com" <pmkhodke@yahoo.com>, "teqipkarad@gmail.com" <teqipkarad@gmail.com>, "girishkulkarni63@gmail.com" <girishkulkarni63@gmail.com>, "director.tech@unishivaji.ac.in" <director.tech@unishivaji.ac.in>, "smb_tech@unishivaji.ac.in" <smb_tech@unishivaji.ac.in>, "registrar@nmu.ac.in" <registrar@nmu.ac.in>, "registrar.nmu@gmail.com" <registrar.nmu@gmail.com>, "profsm@rediffmail.com" <profsm@rediffmail.com>, "kulkamird67@gmail.com" <kulkamird67@gmail.com>, "director@coep.ac.in" <director@coep.ac.in>, "gvp.mech@coep.ac.in" <gvp.mech@coep.ac.in>, "lmwaghamare@sngs.ac.in" <lmwaghamare@sngs.ac.in>, "lmwaghamare@yahoo.com" <lmwaghamare@yahoo.com>, "director@sngs.ac.in" <director@sngs.ac.in>, "director.walchand@gmail.com" <director.walchand@gmail.com>, "director@walchandsangli.ac.in" <director@walchandsangli.ac.in>, "teqip.coordinator@walchandsangli.ac.in" <teqip.coordinator@walchandsangli.ac.in>, "psadwani@yahoo.com" <psadwani@yahoo.com>, "principalgeca@yahoo.com" <principalgeca@yahoo.com>, "teqip.abad@gmail.com" <teqip.abad@gmail.com>, "hirekhansunil@yahoo.com" <hirekhansunil@yahoo.com>, "directorvjti@vjti.org.in" <directorvjti@vjti.org.in>, "ogkakde@cse.vnit.ac.in" <ogkakde@cse.vnit.ac.in>, "spborkar@vjti.org.in" <spborkar@vjti.org.in>, "mawale@vjti.org.in" <mawale@vjti.org.in>, "director@ictmumbai.edu.in" <director@ictmumbai.edu.in>, "vc@ictmumbai.edu.in" <vc@ictmumbai.edu.in>, "gd.yadav@ictmumbai.edu.in" <gd.yadav@ictmumbai.edu.in>, "gdyadav@yahoo.com" <gdyadav@yahoo.com>, "vg.gaikar@ictmumbai.edu.in" <vg.gaikar@ictmumbai.edu.in>, "pv.devarajan@ictmumbai.edu.in" <pv.devarajan@ictmumbai.edu.in>, "pvdevarajan@gmail.com" <pvdevarajan@gmail.com>, "teqip.ict@ictmumbai.edu.in" <teqip.ict@ictmumbai.edu.in>, "vcdu@dce.edu" <vcdu@dce.edu>, "dtu.teqip@gmail.com" <dtu.teqip@gmail.com>, "akgupta@dce.edu" <akgupta@dce.edu>, "director@gndec.ac.in" <director@gndec.ac.in>, "jagadanand@gmail.com" <jagadanand@gmail.com>, "tssidhu@rediffmail.com" <tssidhu@rediffmail.com>, "principal@sbscet.ac.in" <principal@sbscet.ac.in>, "anandktyagi@gmail.com" <anandktyagi@gmail.com>, "principalbcetgurdaspur@yahoo.com" <principalbcetgurdaspur@yahoo.com>, "arvind_bcet@yahoo.com" <arvind_bcet@yahoo.com>, "principalgzscet@yahoo.co.in" <principalgzscet@yahoo.co.in>, "jshundal@yahoo.com" <jshundal@yahoo.com>, "teqipgzscampus@gmail.com" <teqipgzscampus@gmail.com>, "principal@gct.ac.in" <principal@gct.ac.in>, "gcebodi@gmail.com" <gcebodi@gmail.com>, "joegct81@yahoo.com" <joegct81@yahoo.com>, "nsuri22@gmail.com" <nsuri22@gmail.com>, "s_rajakumar59@yahoo.co.in" <s_rajakumar59@yahoo.co.in>, "accet.principal@gmail.com" <accet.principal@gmail.com>, "ramadeviramanujam61@gmail.com" <ramadeviramanujam61@gmail.com>, "rsdwb@yahoo.com" <rsdwb@yahoo.com>, "rsdwahidabanu@gmail.com" <rsdwahidabanu@gmail.com>, "principal@psgtech.ac.in" <principal@psgtech.ac.in>, "psgteqip@gmail.com" <psgteqip@gmail.com>, "principal@tce.edu" <principal@tce.edu>, "pnatharaja@gmail.com" <pnatharaja@gmail.com>, "registrar@tce.edu" <registrar@tce.edu>, "principal@cit.edu.in" <principal@cit.edu.in>, "dmurugan@hotmail.com" <dmurugan@hotmail.com>, "vsskumar1958@hotmail.com" <vsskumar1958@hotmail.com>, "schandram@gmail.com" <schandram@gmail.com>, "jayashreanireddy@gmail.com" <jayashreanireddy@gmail.com>, "istteqip@gmail.com" <istteqip@gmail.com>, "mvssgiridhar@gmail.com" <mvssgiridhar@gmail.com>, "principal@jntuceh.ac.in" <principal@jntuceh.ac.in>, "vijayakumari.gunta@gmail.com" <vijayakumari.gunta@gmail.com>, "jntuceh_teqip@yahoo.com" <jntuceh_teqip@yahoo.com>, "vc@pu.ac.in" <vc@pu.ac.in>, "rakeshkumarchhabra@gmail.com" <rakeshkumarchhabra@gmail.com>, "directoruiet@pu.ac.in" <directoruiet@pu.ac.in>, "renuvig@hotmail.com" <renuvig@hotmail.com>, "sukhdalip@yahoo.com" <sukhdalip@yahoo.com>, "meenakshi_chem@yahoo.co.in" <meenakshi_chem@yahoo.co.in>
Cc: "rita.goyal.teqip@gmail.com" <rita.goyal.teqip@gmail.com>

To SPFU's/65 Mentor Institutions

65

16

Sub: TEQIP-III: MOST URGENT _ Selection of Mentor Institutions

Dear Sir,

As you are aware, your institute is shortlisted as Mentor Institute under Sub-Component 1.3 for twinning focus state institutions under Sub-Component 1.1. Further selection of shortlisted institutes through Challenge method will begin from **22nd February 2017** onwards.

Under subcomponent 1.1 (Focus states) a list of potential institutions is being intimated you for mentoring under Twinning arrangement i.e. sub-component 1.3 (Non focus states).

In this regard, you are requested to indicate three institutions in the order of preference from the attached list of institutions for Mentoring purpose. The preference may be given considering the institution geographical locations, accessibility etc where effective mentoring can be done under the Project.

The IDP of focus states institutions shall be available on NPIU website so that the Mentor institute may go through the areas where the focus state institutions require support.

The mentor institute shall be called for meeting at NPIU for presentation before selection committee.

The name of three institutions may be communicated in reply of this mail by evening 6 PM today i.e. 17-02-2017. SPFUs are required to undertake immediate action please.

For more clarification please contact Dr. Rita Goyal / Dr. Prakash Kuniyal.

Please treat this as **"MOST URGENT"**.

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,

66

17



BMS COLLEGE OF ENGINEERING, BENGALURU-19
Autonomous Institute, Affiliated to VTU

TEQIP-III
TECHNICAL EDUCATION QUALITY IMPROVEMENT
PROGRAMME
Phase III

INSTITUTIONAL DEVELOPMENT PROPOSAL
For Sub-component 1.3

Twinning Arrangements to Build Capacity
and Improve Performance of Participating Institutes

Submitted to

NPIU, EDCIL House, NOIDA, Uttar Pradesh

Through

SPFU, Directorate of Technical Education, Bengaluru Karnataka

1. INSTITUTIONAL BASIC INFORMATION

1.1 Institutional Identity

Name and address of the Institution	BMS COLLEGE OF ENGINEERING P.B.No.1908, Bull Temple Road Bengaluru-560 019, Karnataka
Year of establishment	1946
Is the Institution AICTE approved?	Yes
Furnish AICTE approval No.	FNo.South-west/1-2812016223/2016/EOA dated 25.04.2016
Type of Institution	Government Aided
Status of Institution	Autonomous institution, affiliated to VTU
Name and Designation of Head of the institution	Dr. K. Mallikharjuna Babu Principal

1.2 Academic Information

Engineering Under Graduate Programmes offered in Academic year 2016-17

SNo.	Title of Programmes	Level (UG, PG, PhD)	Duration in Years	Year of starting	AICTE Sanctioned Annual Intake	Total Student Strength
1	Civil Engineering	UG	4	1946	120	497
2	Mechanical Engineering	UG	4	1946	180	694
3	Electrical & Electronics	UG	4	1946	60	249
4	Electronics & Communication	UG	4	1971	120	510
5	Industrial Engg. & Mgt.	UG	4	1979	60	244
6	Computer Science & Engg.	UG	4	1983	120	506
7	Telecommunication Engg.	UG	4	1986	60	248
8	Information Science & Engg.	UG	4	1987	90	380
9	Electronics & Instrumentation Engg	UG	4	1991	30	116
10	Medical Electronics	UG	4	1992	30	113
11	Chemical Engineering	UG	4	1995	60	241
12	Biotechnology	UG	4	2002	40	157
Grand Total					970	3955

Engineering Post Graduate programmes offered in academic year 2016-17

1.	Construction Technology	PG	2	1983	18	36
2.	Machine Design	PG	2	1985	18	36
3.	Electronics	PG	2	1986	18	36
4.	Power Electronics	PG	2	1991	18	33
5.	Computer Science	PG	2	1993	18	36
6.	Digital Communication	PG	2	1996	18	36
7.	Environmental Engg.	PG	2	1997	18	36
8.	Transportation Engg. & Mgt.	PG	2	2006	18	36
9.	Computer Networking & Engg	PG	2	2011	18	35
10.	Manufacturing Sc. & Engg.	PG	2	2014	24	41
11.	VLSI and Embedded Systems	PG	2	2014	24	45
12.	Bio Chemical Engg.	PG	2	2013	24	20
13.	Biomedical Signal Proc. & Inst.	PG	2	2013	24	34
Grand Total					144	460

Research Programmes

SNo	Title of Programme	Level	Year of Starting	Number of Scholars	
				Obtained PhD Degree	Registered as on December 2016
1.	Civil Engineering	PhD	2002	13	57
2.	Mechanical Engg		2002	18	24
3.	Electrical & Electronics Engg		2002	05	17
4.	Electronics & Communication		2002	09	40
5.	Industrial Engg & Mgt.		2002	02	06
6.	Chemical Engg		2004	-	06
7.	Mathematics		2004	03	12
8.	Bio-Technology		2009	-	08
9.	Computer Science		2010	-	29
10.	Information Science		2011	-	24
11.	Physics		2011	-	06
12.	Chemistry		2011	-	09
13.	Telecommunication		2013	-	06

MSc (Engg.) by research

SNo	Title of Programme	Level	Year of Starting	Number of Scholars	
				Obtained PhD Degree	Registered as on December 2016
1.	Civil Engineering	MSc (Engg.) by research	2002	06	21
2.	Mechanical Engg		2002	02	09
3.	Electrical & Electronics Engg		2002	-	01
4.	Electronics & Communication		2002	01	01
5.	Industrial Engg & Mgt.		2002	02	-
6.	Chemical Engg		2004	01	01
7.	Biotechnology		2009	01	02
8.	Telecommunication		2013	-	01

NBA Accreditation status of UG and PG programmes as on 31st December 2016

Total number of programmes eligible for accreditation (at least one batch pass out): 21

No. of programmes accredited: 11

No. of programmes applied for accreditation: 10

Status of Faculty Associated with Teaching Engineering Students (Regular & Contract) as on 31st December 2016:

No. of Sanctioned Regular Posts	Present Status : Number in Position by Highest Qualification													Total Number of regular faculty in Position	Total Vacancies	Total Number of contract faculty in Position
	Doctoral Degree				Masters Degree				Bachelor Degree							
	Engineering Disciplines		Supporting Disciplines (Physics, Chemistry, Maths and English/ other		Engineering Disciplines		Supporting Disciplines (Physics, Chemistry, Maths		Engineering Disciplines		Supporting Disciplines (Physics, Chemistry, Maths and English/ other languages					
R	C	R	C	R	C	R	C	R	C	R	C					
1	2	3	4	5	6	7	8	9	10	11	12	13	14= (2+4+6+8+ 10+12)	15=(1-14)	16= (3+5+7+9+ 11+13)	
295	115	-	29	-	166	-	10	-	-	-	-	-	320	-	-	

- 2.1 Give the Executive Summary of the IDP. Also include the mission and vision statement of your institution (max 2 pages).

BMS College of Engineering (BMSCE), Bengaluru has the unique distinction of being the first private engineering college established in the country. BMSCE has completed seven long decades of imparting high quality technical education. The institution owes its existence to the foresighted Vision of its beloved founders Sri.B.M.Sreenivasaiah and his illustrious son Sri.B.S.Narayan.

Currently more than 5000 students are pursuing their higher studies in this esteemed institution. BMSCE is one of the most preferred destinations for the students from across the country which could be attributed to the quality education, infrastructure, healthy teaching-learning practices as well as producing industry ready students. The College strives to develop technical and professional skills as well as individual values in its students that help to create foundation for their success and career opportunities. The institute has played a significant role in developing human resource capital for prosperity of the nation and meet the requirement of humanity in general. Over the past 70 years of its illustrious existence, BMSCE has produced more than 35000 engineers who have enriched the world through their contribution to technology and development. The Vision of the College is "Promoting the prosperity of mankind by augmenting human resource capital through quality technical education & training"

The Mission of the College is "Accomplish excellence in the field of technical education through education, research and service the needs of society"

The founders have envisaged the vision of providing skilled and competent workforce to society by imparting high quality education and training. The founders strongly believed that creation of skilled technical manpower would promote towards nation's building. This vision is relevant even today looking at the young demographic nature of India and the challenges they encounter to meet the changing global market needs. Moving with the times, the institute has developed/adopted the processes and mechanism to enhance the employability as well as to infuse the knowledge amongst the learners.

Through Student-centred learning processes the institution puts the authentic knowledge needs on priority. Teaching-Learning-Practices (TLP) are streamlined for the improvement of academic performance and holistic and wholesome development of the students. The College leaves no stone unturned to ensure that the programs match with industry demands and the graduates enter the workforce with the required skills and to excel in their chosen career fields. The employability factor is one of the prime considerations in the design and development of Outcomes-based curriculum.

The knowledge gained by students is continuously assessed and analysed. Remedial measures are undertaken based on feedback from students. The facilities available at the institutions are another area of focus. Speaking about faculty, the college has always attracted the best of the crop. Its current team of faculty is no different. They are well qualified, meritorious, experienced and highly dedicated. The classrooms and laboratories of the college are best-in-class, well-equipped and sophisticated. The labs are also regularly upgraded in order to stay advanced / relevant. The academic performance (results) and placement record bear testimony to the high standard of education provided by the institution.

Guiding force behind all the development is its Strategic Plan (2013-2020) which has clearly identified the Vision & Mission, Short Term and Long Term Goals. Budgetary approvals for the projections based on the Strategic Plan have been duly approved. The BMS Educational Trust periodically monitors extent of compliance of Strategic plan in all aspects including financial management.

The Institution has brought out a 'Good Governance Document' prepared adhering to the good governance practice guide of Technical Education Quality Improvement Programme and Good Governance principles prescribed by various apex bodies and agencies. It highlights the core principles of Good Governance and organizational structure, function, and responsibility of various functionaries and committees. The GGD is aimed to guide and strengthen the Governing Body of the Institutions in ensuring effective functioning and governance at all levels to the satisfaction of all stakeholders.

BMSCE recognizes collaboration as a way to raise the bar of higher education. It is the only education institution from India adopted by Melton Foundation, USA for promoting global citizenship concepts.

The Research and Development activities of any Institution have vital role to play in the quality determination of the institution. The Institution highly values and encourages research and innovation of student/faculty and hence introduced good number of initiatives in sensitizing/promoting Research climate to supplement the academic activities, the institution has developed many 'Centers of Excellence' and cutting edge laboratories in collaboration with industries/organizations.

The College is also focusing on guiding the students to become entrepreneurs instead of Job-seekers. As BMSCE completes its 70th year, it is time to celebrate its history and preserve its gains and also pledge its commitment to the pursuit of excellence.

Accreditation and Affiliation

Accreditation:

- Accredited with A Grade by NAAC with CGPA of 3.41/4.00 (Valid up to 2018)
- First Institution in the State of Karnataka to be bestowed with NBA Accreditation in Tier I Format (Washington Accord). The College had the unique distinction of representing the Country's private educational institutions.

Affiliation:

- Affiliated to All India Council of Technical Education(AICTE), New Delhi
- Permanently Affiliated to Visvesvaraya Technological University(VTU), Belagavi, Karnataka
- Included under section 2 (f) and 12 (B) of the UGC Act 1956
- Approved as QIP Centre in Engineering & Technology by AICTE, New Delhi
- The College is TEQIP Institution (World Bank Funded Project). Successfully participated in Phase-I performance score of 9.2 on a 10 point scale. Under Phase-II of the Project, the Institution bagged an additional grants owing to its best performance in this phase The institution has also bagged a center of excellence in Advanced Materials Research under TEQIP subcomponent 1.2.1

Survey Outcomes:

The year 2015-16 has been another remarkable year of outstanding achievements for BMSCE. The Institution has been ranked amongst the best Engineering Institutes in the country by various credible ranking agencies and media houses.

- **Times of India Engineering Institutes Ranking Survey, 2016 (Published on 27.05.2016)**
 - a) BMSCE ranked 4th among top 75 Private Engineering Institutes in the Country.
 - b) Ranked 14th among top 150 Engineering Institutes in the Country.
 - c) Ranked 2nd amongst top engineering institutes (South Region).
 - d) Retained its first position amongst engineering institutes in the state.
- **AAAA Grade Career 360 Magazine (2016)**
 - a) Innovation Leadership Award by 8th DNA & Stars of the Industry Group Innovative Education Awards.
 - b) Campus Preparedness Award for Global Excellence: Nominated by VTU.
 - c) Institution of Excellence in Higher Education 2015: Recognized as Best College for its Contribution to higher studies; presented by VIT University.

In TEQIP I, the institution was adjudged with perceived final score of 9.2 out of 10 in the Performance Audit. In TEQIP II, the performance auditor has assessed the institutional performance on a scale of 1-3 and has graded overall evaluation grade "1" that is substantial evidence of good practice in the quality & standard achieved. Culminating the experience of seven decades in the field of imparting the quality technical education and good performance in TEQIP I & II phases, the Institutional Development Plan [IDP] for TEQIP III has been drawn.

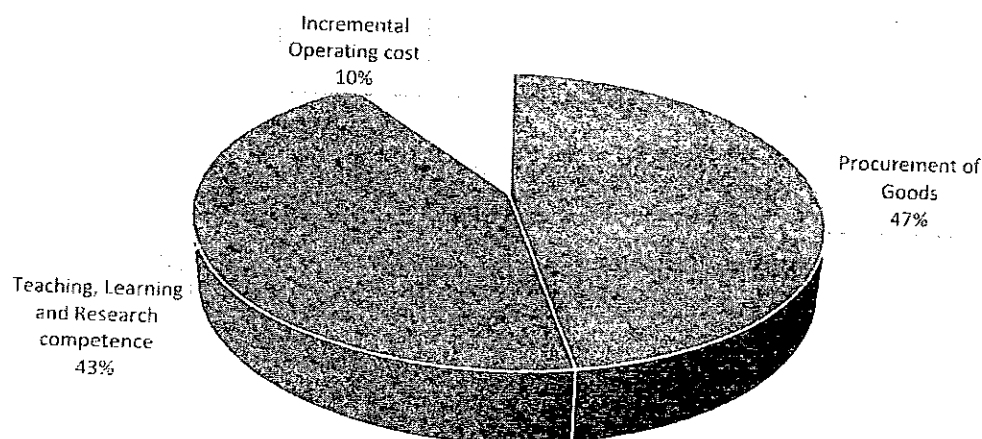
As a mentor institution, the IDP focus on the overall sustainable growth of mentee institution particularly in academic sector with emphasising on the activities such as training, industry collaborations and joint activities.

The IDP aims at empowering the faculty members with requisite improvement in qualification and TLP skills. Various Training programs/conference/seminars are planned ranging from pedagogy to subject specific issues. The programs have also been planned through in-house & online technology. The IDP further envisages in handholding the mentee institution in their reforms activities by way of participation in curriculum revisions, academic & advisory activities for effective twinning with mentor institution for growth and sustainability. It is further proposed to guide the mentee institution in bringing out a good governance document highlighting collective participation of all stake holders of the institution aiming transparency in governance activities & consultancy hand book. Also, it is proposed to enhance the automation facilities of the institution, build a digital repository for lecture capture in difficult & specialised topics so as to have effective dissemination of the same to the mentee institution through online & offline.

Added to the faculty, it is also proposed to equip the technical and administrative staff with latest development in technology tools through conduction of workshops/training in the areas of automation, administrative & communication skills.

The IDP also stress on the need for developing/improving cognitive and non-cognitive skills resulting better employability/ career advancement of the students. It is focussed on imparting online guest lectures, industry interaction activities bridging the gap between the industry and the institute.

Fund allocation proposed by the institution:



2.2. Provide an action plan with timelines for : (not more than 1 page for each sub-activity)

(a) Improving the learning outcomes of the students

BMS College of Engineering is focused on quality action plan to achieve the increased learning outcomes through student centric approach to learning well supported with well equipped laboratories and experienced and well qualified faculty for increase in transition rate of weak students, increase in pass percentage, increase in the performance appraisal of individual students and increase in the satisfaction index of the students and infrastructure.

Activities proposed:

- Interaction with all cadres of faculty, administrator & staff member.
- Seek inputs regarding area of specialization, area of interest/research, soft skill requirements and other training expectations of faculty members.
- Inclination of faculty towards research activities
- Assessment of technical skills, behavioural skills, communication & language skills existing among administrative and technical staff members
- Sensitizing the administrators and senior faculty in the emerging fields of Engineering to increase the enrolments/starting of UG, PG & PhD programs
- Identifying the hotspots in campus and academic area for the Wifi connectivity and enlist and implement/ creation of smart class rooms at each Engineering department. Identifying e-journals in the engineering area and encouraging the library departments for subscription of e-materials
- Identify the slow performers by regularly assessing them by diagnostic tests and conduct remedial classes for improving the skills.
- Sensitizing the faculty in various accreditation process by conducting the trainings regarding preparation of SARs for NBA & NAAC.

ACTION PLAN PROPOSED

Events proposed	2017-18				2018-19				2019-20			
	Quarter				Quarter				Quarter			
	I	II	III	IV	I	II	III	IV	I	II	III	IV
Pedagogy Training for faculty of identified institution												
Training in specialised areas of Engineering for faculty												
Capacity building for administrator												
Workshops on emerging areas in engineering for faculty												
Site survey, proposal & implementation & certification for installation of Wifi & e-resources												
Conduction of diagnostic tests for identifying slow learners & remedial classes for them												
Conduction of workshops for guiding in the preparation of NBA & NAAC SARs & Mock visits by institution experts												

(b) Improving the employability of the students

Activities proposed:

- Regular conduction of guest lecture by industry experts
- Establishment of finishing schools
- Hosting project exhibitions in collaboration with the industries located in the vicinity of the institution.
- Conducting project competitions among the students by choosing local societal issues in collaboration with industry and apex bodies like AICTE, UGC etc
- Identifying and training the industry institution coordinators
- Setting up of career counselling centre and identifying faculty expert for regular career counselling
- Conduction of pre-placement training for pre-final and final year students
- Regular conduction of soft skill trainings

ACTION PLAN PROPOSED

Events proposed	2017-18				2018-19				2019-20			
	Quarter				Quarter				Quarter			
	I	II	III	IV	I	II	III	IV	I	II	III	IV
Conduction of guest lecture												
Establishment of finishing school												
Hosting project exhibitions												
Projects on societal issues												
Pre-placement training												
Soft skill training												

(c) Increasing faculty productivity and motivation

Activities proposed:

- Identifying the thrust areas, faculty from mentee institutions, preparing the proposal in association with industry.
- Encouraging/guiding the faculty in writing R&D proposals in the emerging areas seeking funds from AICTE/CSIR/DRDO etc.
- Handholding the mentee institution in preparing and implementing the guidelines for revenue sharing of consultancy & testing projects
- Incentive for faculty publication and writing proposal for funded projects
- Exposure to industry by deputation for a specific period

ACTION PLAN PROPOSED

Events proposed	2017-18				2018-19				2019-20			
	Quarter				Quarter				Quarter			
	I	II	III	IV	I	II	III	IV	I	II	III	IV
Identification of thrust areas												
Writing R&D proposals												
Preparation of consultancy hand book												

2.3 Describe the following in brief:

1. Is there any ERP/MIS system existing, if yes, then any improvement, modification suggested.

At present, the institution has automated the following activities:

- a) Admission
- b) Examination
- c) Library
- d) Finance
- e) HR
- f) Procurement

The institution intends to consolidate the aforesaid ERPs and to host on institution portal with required cyber security, back up and role based access.

2. Is there any mechanism i.e., special classes being conducted in the institution for improving the GATE score?

Digital and online version of training exists in the campus through streaming server on various competitive exams i.e., GATE, CAT, GRE, TOFEL etc. It is proposed to integrate these facilities hosted on the institution portal with an access of 24/7.

- 2.4 Please identify some endeavours and joint activities that you would undertake with the institution of focus state under sub-component 1.1 for twinning arrangement from among the ones listed below and/or any further ones and provide the yearly action plan for 3 years:

Sl. No	Suggested Activity/Indicator	Proposed Action	Target (number, %age, stage etc.) for institution under sub-component 1.1 over the baseline, if applicable		
			2017-18	2018-19	2019-20
1	Increase in student graduation rates	Effective TLP	3%	5%	8%
2	Improved Placement of graduates a) Placement Rate b) Placement Package	Soft skills & pre-placement trainings, establishment of finishing schools	10%	35%	45%
3	Increase in GATE qualified graduates	Providing special training	2%	3%	4%
4	Smart classrooms	Identifying, procuring & implementing various gadgets	5	10	15
5	e-books and e-Journals	Membership in e-shodhsindhu (UGC infonet), e-resources of IEEE, ASME, science direct etc.	10%	12%	25%
6	Increase in publications in refereed journals	Sensitizing, identifying and access to the top rated journals in the relevant fields	2%	3%	4%
7	Seminars, meetings and conferences for students and faculty for training and academic development	Inviting experts for delivering lectures on cutting edge technologies and workshops on curriculum revision	15	15	20

Sl. No.	Suggested Activity/Indicator	Proposed Action	Target (number, %age, stage etc.) for institution under sub-component 1.1 over the baseline, if applicable		
			2017-18	2018-19	2019-20
8	Sharing of faculty for teaching processes	Deputing subject experts and conducting online FDPs, brainstorm sessions.	10%	10%	10%
9	Faculty exchange for research and development purposes	Identifying the thrust areas and resource person for training, handholding in writing proposals	3	3	3
10	Student exchange at the PhD, Masters and Undergraduate levels	Conducting screening tests and selecting the students	5	10	10
11	Joint supervision of PhD and/or Masters' student	Encouraging mentee institution faculty to identify the key area & expert for joint supervision	30%	40%	50%
12	Joint activities with industry for joint R&D, internships and placement activities	Guiding for setting of a fully equipped placement cell in mentee institution and identify the faculty coordinator for industry collaborative activities under supervision of the institution placement department	6	8	10
13	Seminars and learning forums on improving governance practices	SWOT analysis & guiding in preparation of good governance document & regular training in capacity building	2	3	3
14	Improvement in NBA accreditation (including applied for cases)	Regular mentoring in NBA related activities by institution experts	45%	50%	60%
15	Helping in Grant of UGC Autonomy for non-autonomous institution	Regular mentoring	30%	30%	30%
16	Any other form of endeavour	Training on various aspects of autonomy & curriculum development	5	5	5

- 2.5 Identify the outreach programmes and systems which are already in place in your Institute to succeed in your role of twinning for strengthening of other institutions viz. related to faculty /students/non-teaching staff/industry etc.

BMSCE is committed for building strong links with industry, academia and society. The Institution always looking for opportunities to expand its association with Industry Leaders and academic fraternities of national and international repute.

Collaboration with Foreign Institutions

- Melton Foundation, USA for Global Citizenship programme
- Consortium member in the Indo US Collaboration for Engineering Education, USA
- Member of India Platform, Ghent University, Belgium
- Stanford University, California
- Ghent University, Belgium
- Gothenburg University, Belgium for promoting Institutional academic cultural & scientific exchange
- Faculty sabbatical programme with University of Alabama at Huntsville
- Elipsonics, Singapore for health devices, Monash University for research collaboration in Material Science & Engineering

Partnership with Professional Bodies

a) International professional bodies

- Member IUCEE
- Member Melton Foundation
- Member India Platform
- Member GEDC

b) Professional Bodies/Student Forums/Clubs

- Project Management Institute [PMI]
- Karnataka State Pollution Control Board
- Task Force for Quality Assurance in Public Construction, GOK
- Indian Society for Technical Education [ISTE]
- National Entrepreneur Network [NEN]
- Melton Foundation, USA
- DROID–Student Robotics Forum (Propel Lab 1)
- Society of Automotive Engineers [SAE]
- Aero Space (Propel Lab 3)
- Automobile (Propel Lab 4)
- BMS Quiz Forum
- NATA Test Centre
- Pentagonam, the Mathematics Society of BMSCE
- Rotoract Club of BMSCE
- Student Association of MCA (SAMCA), Programmers Club

Intra & Inter disciplinary collaborations :

- Civil Engineering: ICI, CWRDM, IWA, KSHC, AWAAZ-NGO
- Mechanical Engineering: SAE, MEA, ISAMPE
- Electrical Sciences: IEEE, IEEE-EMBS, IEEE- WIE, IEEE-SSIT, IET, ISA, IESA
- Computer Sciences: IEEE, BITES,
- Chemical Engineering: IICHe
- Biotech: Genome, ISCA, BRSI, AIBA, IPAI
- Management: AIMA, AIMS, BMA
- Hosting the SPEED initiative for students by IUCEE

- 2.6 Identify the academic and/or administrative challenges that you anticipate in your role of twinning and the mechanism that you have put in place and/or intend to put in place, to address these challenges.

Academic and/or administrative challenges anticipated	Mechanism proposed to address the challenge
Socio economic background of students	Regular conduction of online and off line trainings in cognitive & non-cognitive areas
Over lapping of academic calendar	Extensive use of e-resources and video conferencing facility
Proximity of the mentor & mentee institution	Provision of adequate funding for travelling, accommodation & suitable honorarium for the experts of mentor institution Setting up of video conferencing facilities in both the institutions for micro and macro level mentoring and management
Under-utilisation of grants	Periodic mentoring by the experts from mentoring institution

- 2.7 Is there any difficulty in Recruitment and selection of high-quality faculty? If yes, what are the reason & action plan to solve the issue?

As our college is reputed and well known in the state of Karnataka for quality technical education, we do not have any difficulty in recruiting/retaining the high-quality motivated faculty. Further, the implementation of following measures by the college management has resulted in retaining and motivating the high quality faculty members:

- AICTE 6th pay to all the faculty members
- Incentives for receiving funds for R&D from external funding agency, carrying out consultancy activities
- Medical insurance coverage for all the faculty and their families
- Leave benefits
- A seat in Engineering discipline to the wards of the faculty & staff members
- Extension of financial support for personal/purchase of vehicle etc., to all the staff members through BMS Cooperative Education Society

- 2.8 Give an action plan for long term strategic partnership with the mentee institute after the end of the Project.

- Continuous project mentoring
- Online FDPs
- Capacity building training
- Constitution of Internal Quality Assurance Cell
- Participation of Expert members of the institution in academic bodies of the mentee institution
- Conduction of audit on the usage of facilities created under the project at regular

Activity proposed	2017-18				2018-19				2019-20			
	Quarter				Quarter				Quarter			
	I	II	III	IV	I	II	III	IV	I	II	III	IV
Mentoring	■				■				■			
Online FDPs				■				■				■
Capacity building training			■			■				■		
Auditing				■				■				■

2.9 Describe briefly the participation of departments/faculty/students in the IDP preparation.

The IDP has been prepared after a brainstorming session and meetings of the TEQIP II Coordinators & Nodal Officers, HODs and senior faculty members. The inputs from students have been considered while drafting the IDP.

Annesure - 8

THE DETAILS OF FACULTY 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 (Rs)
01.	Dr.M.S.Suma Professor Medical Electronics	Workshop on "Clinical Data Analytics, Statistical and Machine Learning using R & Python"	MSRIT, Bangalore	January 23-26, 2017	10,500/-
02.	Smt. K. Vijayalakshmi Associate Professor Medical Electronics				6,500/-
03.	Sri .Appaji M Abhishek Assistant Professor Medical Electronics				6,500/-
04.	Sri.Vikranth B M Assistant Professor Computer Science & Engineering	FDP on "Data Analytics with R"	SPFU, DTE, Bangalore	February 03-08, 2017	2,000/-
05.	Sri.Abhijith H V Assistant Professor Information Science & Engineering				2,000/-
06.	Smt. Prathima B Assistant Professor Civil Engineering	10day GIAN workshop on Solid waste Management Feasibility of Technology transfer	SJCE, Mysore	February 10-20, 2017	2,500/-
07.	Dr.G.Varaprasad Associate Professor Computer Science & Engineering	IEEE International Conference on (I-SMAC-2017)	SCAD Institute of Technology, Palladam	February 10-11,2017	12,800/-
08.	Dr. Gurumurthy Hegde Associate Professor Research & Development	4 th International Conference on Nanostructured Materials and Nano Composites (ICNM-2017)	Kottayam, Kerala	February 10-12, 2017	6,000/-
09.	Dr. Michael Raj Kingston Assistant Professor Telecommunication Engineering	QIP short term course in "Signal Processing for Multimedia and Wireless Communication"	Coimbatore Institute of Technology , Coimbatore	February 13-19, 2017	3,500/-
10.	Dr Rathanraj. K.J Professor & HOD Industrial Engineering Management	National Level automobile "eBaja 2017" Competition	Pithampur	February 13-23, 2017	13,907/-
11.	Sri.Rajesh.P Assistant Professor Mechanical Engineering	National Level automobile "eBaja 2017" Competition	Pithampur	February 13-23, 2017	13,187/-
12.	Dr.M.Rajya Lakshmi Professor Biotechnology	Medicinal Chemistry, Drug Discovery & Development India, (MCADDI-2017)	Biocon , Bengaluru	February 14-18, 2017	14,000/-

13.	Sri.Sreenivasa Murthy A Assistant Professor Civil Engineering	One day workshop on "Introduction to Geopolymer Composites Technology"	IIT, Chennai	February 17, 2017	7,450/-
14.	Dr. S. Gowrishankar Professor Computer Science & Engineering	Winter school on "Machine Learning"	IIT, Delhi	February 19-22, 2017	35,000/-
15.	Sri. E.Suresh Assistant Professor Mechanical Engineering	National Seminar in Aerospace Structures XIX	VIT University, Vellore	February 23-25, 2017	12,590/-
16.	Dr.M.S.Dharmaprakash Professor , HOD Chemistry	Global Procurement Summit	New Delhi	February 27-28, 2017	35,000/-
17.	Dr.M. Rajeshwari Hegde Associate Professor & HOD Telecommunication Engineering	International Union of Radio Science on 3 rd Regional Conference on Radio Science -2017	NARL, Tirupati	March 01-04,2017	9,600/-
18.	Smt.P.S.Gowra Associate Professor Telecommunication Engineering				9,600/-
19.	Smt.M.Vasanthalakshmi Assistant Professor Telecommunication Engineering				9,600/-
20.	Sri. K. Balachandra Assistant Professor Telecommunication Engineering				9,600/-
21.	Dr. Anil Chandra Assistant Professor Mechanical Engineering	ISAMPE National Conference on Composites (ICMMM)	CSIR-NAL, Bengaluru	March 02-03, 2017	5,000/-
22.	Sri. E.Suresh Assistant Professor Mechanical Engineering	International Conference on Materials Manufacturing and Modeling(ICMMM)	VIT University, Vellore	March 09-11, 2017	13,650/-
23.	Smt. M.K. Nalini Assistant Professor Information Science & Engineering	International Conference on Recent Advances in Electronics and Communication Technology (ICRAECT-2017)	SJBIT, Bengaluru	March 16-17, 2017	8,500/-

**DETAILS OF INHOUSE PROGRAMS CONDUCTED/PROPOSED TO CONDUCT IN THE COLLEGE
UNDER TEQIP- II/COE THAT WERE APPROVED BY THE SUB-COMMITTEE BY CIRCULATION**

SI No.	Name of the Department	Title of Program	Programme Dates	Amount (Rs)
01.	Information Science & Engineering	One week workshop on "Virtualization and Cloud Security	January 21-22 and 26-29, 2017	48,000/-
02.	Electrical & Electronics Engineering	One week finishing school on "Power Distribution and Power System Protection "	January 30 th to February 04, 2017	1, 05,000/-
03.	Mechanical Engineering	Three day workshop on "Training on 3DExperience"	February 06-08, 2017	7,100/-
04.	Information Science Engineering	Two days hands on workshop on "IOT and Beacon Technology "	February 09-10, 2017	18,000/-
05.	Information Science Engineering & Computer Science & Engineering	Two days' workshop on "Data Storage & Management (SAN) "	February 11-12, 2017	25,000/-
06.	Mechanical Engineering	Technical staff training Programme on "Advanced Manufacturing and Material Characterization"	February 16-18,2017	71,000 /-
07.	Electronics & Communication Engineering	Two days' workshop on "Six Sense Robotics"	February 25-26, 2017	57,000/-
08.	Electrical & Electronics Engineering	One week finishing school on "Power Electronics and Drives- Design Challenges and Issues "	February 27 th to March 03, 2017	1, 54,000/-
09.	Biotechnology	Faculty Development Programme on "Bimolecular Separation Techniques"	February 27 th to March 03, 2017	1,66, 667/-
10.	Information Science & Engineering	One week workshop on "Digital design materials for fabrication of system on a Chip(Soc)"	Feb 28 th and March 01-03, 2017	1, 21,000/-
11.	Electrical & Electronics Engineering	Workshop on "Semiconductor Materials "	Feb 28 th to March 02, 2017	Rs 10,000/-
12.	Electronics and Communication Engineering	Workshop on IPR for faculty and students of Engineering	March 02-03, 2017	21,400/-
13.	Medical Electronics	Workshop on Biomedical Signal Acquisition and Processing	March 02-04, 2017	46,800/-
14.	Electronics & Communication Engineering	Workshop on "Graphical System Design"-DAQ and Signal Conditioning in virtual Instrumentation "	March 04-05, 2017	44,000/-

15.	Electrical & Electronics Engineering	One week workshop on "Recent Advancement in Materials & Technologies in Renewables"	March 06-11, 2017	2,00, 000/-
16.	Electronics & Instrumentation Engineering	Faculty Development Programme on "Instructional Model for Outcome Based Education"	March 10-12, 2017	55,000/-
17.	Industrial Engineering & Management	Faculty Development Programme on "Production and Operation Management "	March 13-18, 2017	1,83,000/-
18.	Chemical Engineering	Faculty Development Programme on "Biomaterials in Health care and Engineering "	March 13-17, 2017	1,37,750/-
19.	Medical Electronics	Workshop on Biomaterials and its applications	March 14, 2017	11,000/-
20.	Mechanical Engineering	Faculty Development Programme on "Non Destructive Evaluation & Diagnosis of Components using Advanced Materials Technology"	March 20-24,2017	1,77,000/-
21.	Chemical Engineering	Three days finishing school on "HPLC Operation and Analysis	March 20-22,2017	82,000/-

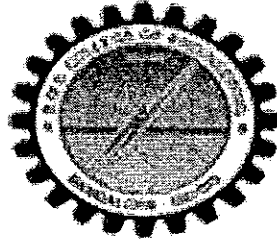
DETAILS OF TRAINING PROGRAM PROPOSED TO BE CONDUCTED AT GEC, KR PET UNDER COE THAT WAS APPROVED BY THE SUB-COMMITTEE BY CIRCULATION

Sl. No.	Title of Program	Programme Dates	Amount in Rupees
1	Training programme on "Aptitude, Soft Skills & Placement" for students of GEC at GEC, KR Pet	March 18-20,2017	1,00,000/-

Annexure-9

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	Date	Amount
01.	Sri. Chethan C L M.Tech Student Mechanical Engineering	ISAMPE National Conference on Composites (ICMMM)	CSIR-NAL, Bengaluru	March 2-3, 2017	1,000/-
02.	Smt. Sutar Rani Ananda Research Scholar Physics	International Conference on Functional Materials (ICFM-2017)	Sri.Chandrasekhare ndra Saraswathi Viswa Mahavidyalaya University, Enathur, Tamilnadu	March 2-3, 2017	4,200/-
03.	Srinivas M D BE student Industrial Engineering & Management	International Value Engineering Academic Summit- 2017	Dayananda Sagar College of Engineering, Bengaluru	March 3-5, 2017	1,700/-
04.	Priyadharshini K S BE student Industrial Engineering & Management				1,700/-



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

TWENTY FIRST MEETING | 05.04.2017 | SUB-COMMITTEE OF BOG

MINUTES



B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTY FIRST MEETING | 05.04.2017 | 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.K.Suresh Ramaswamy Reddy, Nodal Officer – Financial Aspects
4. Dr. S. Gowrishankar, Nodal Officer – Academic Activities
5. Dr. H.S. Guruprasad, Nodal Officer – Academic Activities
6. Dr. M.S. Dharmaprakash, Nodal Officer – Procurement
7. Dr. K. Guruprasad, Nodal Officer – Equity Assurance Plan
8. Dr.C.Lakshiminarayan, Nodal Officer – Equity Assurance Plan
9. Dr.M.Ramachandra, Coordinator - CoE
10. Dr. S. Srinivas, Principal Investigator, CoE
11. Dr. Chandashree Das, Principal Investigator, CoE
12. Dr. M.V. Murugendrappa, Principal Investigator, CoE

The TEQIP Co-ordinator-I extended a cordial welcome to the members for the meeting.

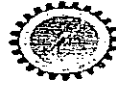
1. Minutes of 20TH meeting of BOG sub-committee by the BOG

The minutes of twentieth meeting of the BOG Sub-Committee held on 06.03.17 were read and recorded. [Annexure-1]

2. Final installment of TEQIP II grants :

The committee noted that the final instalment of TEQIP II grants of Rs.250 Lakhs have been received as detailed below:

S.No.	Date of receipt	Amount in Lakhs
1	20.03.2017	18.75
2	23.03.2017	193.75
3	24.03.2017	37.50
Total		250.00



B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTY FIRST MEETING | 05.04.2017 | SUB-COMMITTEE OF BOG | MINUTES

3. Provision to enhancement of procurement limit by 10%

The committee noted that NPIU vide its email dated 24.03.2017 and SPFU vide its email dated 30.03.2017 have communicated that an additional 10% on project life allocation can be enhanced for the head of procurement. Further the committee noted that new procurement could not be initiated as the minimum time line to get quotations cannot be complied with. [Annexure 2]

4. Project closure and timeline of 31st March 2017

The committee noted that NPIU has mandated vide their emails dated 22.03.2017 that TEQIP-II is being closed with timeline of 31st March 2017 and all the activities shall be completed on/before 31.03.2017. Also the committee noted that no new activities are permitted after 31.03.2017 under the project but payments could be made during the grace period from 1st April 2017 to 31st July 2017 for the activities completed on/before 31.03.2017. The TEQIP Coordinator-I informed the members that all the activities have been completed before 31.03.2017 as stipulated by NPIU/SPFU. [Annexure 3]

5. Ratification of Re-appropriation of funds

The sub-committee of BOG noted the following developments:

- a. 10% additional procurement on life allocation permitted vide NPIU email dated 24.03.2017 and SPFU email dated 30.03.2017. [Annexure 2]
- b. Confirmation to book the Staff maintenance in TEQIP-II/COE Cell for the grace period of April 2017 to July 2017 (four months) vide SPFU email dated 22.03.2017. [Annexure 3]
- c. Procurement completion to the tune of Rs.786.12 lakhs against the permitted allocation of Rs.883.28 lakhs under TEQIP II 1.2 and Rs.310.21 Lakhs against the permitted allocation of Rs.302.50 lakhs under COE 1.2.1.
- d. TEQIP-II 1.2 funds including the interest accrued as on 31.03.2017 being around Rs. 1773.06 Lakhs [interest earned Rs.23.06 Lakhs] and COE funds including the interest accrued as on 31.03.2017 being around Rs.528.93 Lakhs [interest earned Rs.28.93 Lakhs]
- e. The committee also accorded approval for the transfer of a portion of interest earned in COE 1.2.1 grants to TEQIP 1.2 account to meet the proposed expenditure under TEQIP 1.2 as per NPIU guidelines.



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

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II

TWENTY FIRST MEETING | 05.04.2017 | SUB-COMMITTEE OF BOG | MINUTES

Further the Committee approved and ratified that the re-appropriation plan of project fund allocation approved during discussion on 28.03.2017 to book the unspent funds available as below:

TEQIP-II 1.2

Sl. No.	Head of expenditure	Initial Project allocation (as per PIP)	Activity-wise Re-appropriation, approved	Re-appropriation approved (subtotal)
1	Procurement	562.50	786.12	786.12
2	Assistantship	250.00	443.87	891.41
3	Research Development	62.50	96.61	
4	FSD	125.00	174.74	
5	III Cell	62.50	83.24	
6	Capacity Development	25.00	24.60	
7	Reforms	12.50	42.92	
8	Student Support	25.00	25.43	
9	IOC	125.00	111.26	111.26
Total		1250.00	1788.79	1788.79

COE 1.2.1

Sl. No.	Head of expenditure	Allocation	Activity-wise Re-appropriation approved	Re-appropriation approved (subtotal)
1	Procurement	275.00	310.21	310.21
2	Assistantships	50.00	67.62	155.17
3	R&D	50.00	49.10	
4	Faculty & Staff Development	50.00	36.90	
5	III Cells	25.00	1.55	
6	IOC	50.00	47.79	47.79
TOTAL		500.00	513.17	513.17

6. Seeking ratification for approval for Award of research assistantships to Research Scholars and honorarium to Research Advisor under TEQIP –II

The committee ratified the approval accorded on 28.03.2017 during the discussion to release the research assistantships to 15 Research scholars for the month of March 2017, teaching assistantships to 22 M.Tech students [15 of 16-17 Batch & 7 of 15-16 Batch] under SC & ST category till March 2017 and honorarium/remuneration to Dr V. Arun Kumar for the month March 2017 towards the expert guidance rendered to various research projects of department of Mechanical Engineering.



B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTY FIRST MEETING | 05.04.2017 | SUB-COMMITTEE OF BOG | MINUTES

7. Status of TEQIP-II 1.2 funds and expenditure statement

The committee noted the status of TEQIP-II funds and expenditure status as below:

Sl. No.	Head of expenditure	Initial Project allocation (as per PIP)	Re-appropriation approved on 10.01.2017	Maximum allocation permitted	Expenditure incurred up-to 31.03.2017 (Activity-wise)	Expenditure incurred up-to 31.03.2017 (Sub-total)
1	Procurement	562.50	788.69	883.28	786.12	786.12
2	Assistantship	250.00	869.11	725.81	443.87	891.41
3	Research Development	62.50			96.61	
4	FSD	125.00			174.74	
5	III Cell	62.50			83.24	
6	Capacity Development	25.00			24.60	
7	Reforms	12.50			42.92	
8	Student Support	25.00			25.43	
9	IOC	125.00	114.00	178.75	111.26	111.26
Total		1250.00	1771.80	1787.84	1788.79	1788.79

Further the committee noted that the college has spent all the funds received under TEQIP-II 1.2 including the interest accrued and there is no balance funds are left.

8. Status of COE 1.2.1 funds and expenditure statement

Sl. No.	Head of expenditure	Allocation	Maximum mandated allocation	Expenditure incurred up-to 31.03.2017 (Activity-wise)	Expenditure incurred up-to 31.03.2017 (Sub-total)
1	Procurement	275.00	302.50	310.21	310.21
2	Assistantships	50.00	160.67	67.62	155.17
3	R&D	50.00		49.10	
4	Faculty & Staff Development	50.00		36.90	
5	III Cells	25.00		1.55	
6	IOC	50.00	50.00	41.79	41.79
	IOC – committed salary of TEQIP & COE Staff from 4 months - April 17 to July 17			6.00	6.00
TOTAL		500.00	513.17	513.17	513.17

Further the committee noted that the college has spent all the funds received under COE 1.2.1 including the interest accrued and there is no balance funds are left.



B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME. PHASE-II
TWENTY FIRST MEETING | 05.04.2017 | SUB-COMMITTEE OF BOG | MINUTES

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

The committee noted that NPIU through its communication 01.03.2017 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 and conducted the 3rd round of web based Student, Faculty and Staff Satisfaction Survey from 01.03.2017 to 31.03.2017 and the survey outcomes are awaited.

10. Participation in TEQIP III :

- i. The committee noted that NPIU vide its email dated 03.04.2017 has requested to submit fresh bid for mentee institutions for twinning under TEQIP III and response of the college of order of preference of mentee institutions for twinning under TEQIP III as below:

Order of Preference	Name of the state	Name of the mentee institutes
1	Assam	Gauhati University Institute of Science & Technology, Guwahati
2	Madhya Pradesh	Rajiv Gandhi Proudlyogiki Vishwavidyalaya, Bhopal
3	Jammu & Kashmir	Govt.College of Engineering & Technology, Jammu
4	Andaman & Nicobar Islands	Dr.B.R.Ambedkar Institute of Technology, Pahargaon, Port Blair, Andaman & Nicobar Islands
5	Uttarakhand	College of Technology Pantnagar

- ii. Sustainability funds of the TEQIP-III Project institutions

The committee noted that TEQIP III institutes are required to deposit at least 8% of their revenue every year into a Sustainability Fund as per the TEQIP-III guidelines.

3



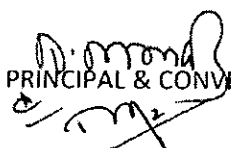
B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME. PHASE-II
TWENTY FIRST MEETING | 05.04.2017 | SUB-COMMITTEE OF BOG | MINUTES

The committee further discussed about the TEQIP-III project objectives and noted the further course of actions could be taken up after the receipt of official confirmation of our participation. [Annexure 4]

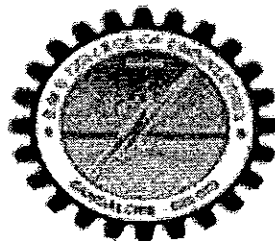
11. Other items.

- A. With regard to the depositing of the utilisation charges/fees generated by the COE 1.2.1 facilities into the Maintenance Funds Account created under TEQIP-II and clarification sought by Dr.M.Ramachandra, COE Coordinator whether the practice be continued, committee noted that the project mandated practice of depositing of the utilisation charges/fess generated by the TEQIP-II 1.2 / COE 1.2.1 facilities into the Maintenance Funds Account be continued till the end of April 2017 and further orders of the committee.
- B. The committee considered the requests of Dr.S.Srinivas and Dr.Chandrasree Das regarding the revision of consultation fees and utilisation charges for their TEQIP-II 1.2 /COE 1.2.1 facilities for other academic institutions and industry, opined that the charges on par with IISc charges may be considered. However the committee advised that matter shall be submitted to the consideration and advice of the BOG. [Annexure 5]
- C. Further the committee deliberated on the utilisation charges on BMSCE Students for utilising TEQIP-II 1.2 / COE 1.2.1 facilities other than XRD Equipment, Scanning Electron Microscope (SEM) and Water Jet Cutting Machine, noted that BMSCE students need not be charged on such utilisation considering the fact that the facilities are created for benefit of BMSCE students and faculty members.

The meeting concluded with thanks to the Chair.


PRINCIPAL & CONVENOR


CHAIRMAN



B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTY FIRST MEETING | 05.04.2017 | SUB-COMMITTEE OF BOG | MINUTES

Annexures

Sl. No	Particulars	Page No.
1	Annexure 1	1 to 6
2	Annexure 2	7 to 8
3	Annexure 3	9
4	Annexure 4	10 to 39
5	Annexure 5	40 to 46



B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTIETH MEETING | 06.03.2017 | 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 Ramaswamyreddy, Nodal Officer – Finance Aspects
4. Dr.M.S.Dharmaprakash, Nodal Officer- Procurement
5. Dr. Gowrishankar, Nodal Officer - Academic Activities
6. Dr. H.S.Guruprasad, Nodal Officer- Academic Activities
7. Dr. K. Guruprasad, Nodal Officer - Equity Assurance Plan Implementation
8. Dr.M.C.Sampath Kumar, Nodal Officer- CV & EM
9. Dr.C.T.Puttaswamy , Nodal Officer – CV & EM
10. Dr. M. Ramachandra, Principal Investigator & Co-ordinator, CoE
11. Dr.S.Srinivas, Principal Investigator, CoE
12. Dr.M.V.Murugendrappa, Principal Investigator, CoE

1. Ratification of Minutes of 19th meeting of BOG sub-committee by the BOG

The committee noted that BOG has approved and ratified the minutes of the nineteenth meeting of Sub-committee of BOG in the 64th Meeting of BOG held on 11.1.17 [Annexure-1].

2. Final installment of TEQIP II grants :

The committee noted that the final instalment of TEQIP II grants of Rs.250 lakhs are yet to be released to the college by SPFU-Karnataka. The committee informed the TEQIP Coordinators to seek advance of Rs.250 lakhs from the management to continue the planned activities till the release of the balance grants from SPFU.



B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTIETH MEETING | 06.03.2017 | SUB-COMMITTEE OF BOG | MINUTES

3. Transfer of funds between TEQIP-II (1.2) and COE 1.2.1.

The committee noted that consequent to the NPIU/SPFU mail dated 22.9.15, an amount of Rs.320 lakhs was apportioned for procurement under COE and subsequent to observation/guidance from SPFU & NPIU officials in the review meeting held on 29.12.16 and the directions of BOG sub-committee, procurement was stopped at Rs.310.21 Lakhs itself under COE. The committee also took a note of the mails sent to NPIU & SPFU requesting them for considering the said expenditure as a special case and also if the approval of the said expenditure was not feasible, atleast to accord permission to allocate the entire interest earned on COE grants to the procurement. Further, the committee noted that the TEQIP Coordinators also contacted the NPIU officials in this regard over telephone.

The committee further noted that, in the expenditure review meeting conducted by NPIU and SPFU on 22 February 2017 at Higher Education Council Conference Hall, Bangalore, represented by the TEQIP Coordinators and COE coordinator, the officials of NPIU and SPFU have clarified that portion of interest earned on TEQIP II & COE grants i.e., 55% of interest earned under COE and 45% of interest earned on TEQIP II grants could be allocated towards the procurement made under COE to meet the excess expenditure made so far to some extent. The committee also noted that NPIU officials had informed that TEQIP II & COE projects would come to an end by 31.3.2017 and a portion of the COE grants could be transferred to TEQIP-II or vice-versa or all the pending proposals of academic and R&D activities [all nature irrespective of the subject they pertain to] could be accepted and booked under academic activities or IOC of COE[sub component 1.2.1].

After detailed deliberations, the committee accorded approval to allocate interest portion to the extent of Rs. 15.03 lakhs [55% of 27.32 lakhs] earned on COE grants and to the extent of Rs.10.38 lakhs [45% of Rs.23.06 lakhs] interest earned on TEQIP II grants to procurement head under COE to adjust the expenditure incurred over and above Rs.275 lakhs [allocation limited by NPIU].

Further, the committee recalled that the BOG in its meeting held on 13.1.14 had approved to extend additional financial support from Management funds towards the procurement under COE and informed the Principal to seek necessary management funds to the extent of Rs. 9.8 lakhs i.e., the difference between actual expenses incurred and approved allocation including interest apportioned [Rs.310.21 lakhs - Rs.300.41 lakhs].



B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTIETH MEETING | 06.03.2017 | SUB-COMMITTEE OF BOG | MINUTES

4. Re-appropriation of funds under TEQIP II & COE

The committee took a note of the activities conducted so far under TEQIP II & COE and corresponding financial assistance extended from TEQIP II[sub component 1.2] & COE [sub component 1.2.1] respectively and approved the same.

The committee also noted the activities proposed under TEQIP II [sub component 1.2] & COE [sub component 1.2.1] till 31st March 2017 and after deliberations, the committee accorded approval for the appropriation of funds as mentioned below:

RE-APPROPRIATION OF FUNDS UNDER COE [sub component 1.2.1] : (Rs. in lakhs)

Sl. No.	Head of expenditure	Allocation	Amount spent as on 28.02.2017	Total Allocation as on 31.03.2017 [grants + interest earned]
1	Procurement	275.00	310.21	300.41
2	Assistantships	175.00	57.22	66.20
3	R&D		11.11	57.5
4	Faculty & Staff Development		29.49	41.94
5	III Cells		0.96	3.41
6	IOC	50.00	37.56	45.55
	TOTAL	500.00	446.55	515.01

Further, the committee accorded approval for the transfer of an amount of Rs. 22.69 lakhs from COE [sub component 1.2.1] to TEQIP II [sub component 1.2] .

RE-APPROPRIATION OF FUNDS UNDER TEQIP- II [sub component 1.2] : (Rs. in lakhs)

Sl. No.	Head of expenditure	Total Life Allocation Approved previously	Expenditure incurred up-to 28.02.2017	Total Allocation as on 31.03.2017 [grants + interest]
1	Procurement	788.69	701.39	788.17
2	Assistantship	869.11	359.55	439.55
3	Research Development		86.79	90.62
4	FSD		167.34	173.02
5	III Cell		80.07	82.57
6	Capacity Development		24.60	24.62
7	Reforms		42.73	43.50
8	Student Support		23.09	25.54
9	IOC	114	109.40	117.78
	Total	1771.80	1594.96	1785.37



B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTIETH MEETING | 06.03.2017 | SUB-COMMITTEE OF BOG | MINUTES

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

5. Award of financial assistance to UG/PG projects under TEQIP –II & COE

The committee took a note that at the department level, committee comprising of the HOD and few faculty members have reviewed the project proposals received from the UG & PG students and have recommended for the award of fiscal incentive to UG students and reimbursement of expenses to be incurred by PG students. In few departments, opinion of external experts have also been sought in this regard. The committee took a note of the list of project proposal recommended by the committee for financial assistance/ fiscal incentive under COE[sub component 1.2.1] and TEQIP II [sub component 1.2] .

After detailed deliberations, the committee accorded the approval for the sanction of fiscal incentive/financial assistance to the UG/PG students' projects & research scholars proposals under TEQIP II [sub component 1.2] as per the list at annexure – 2 and further accorded approval for extending financial assistance to faculty guide towards the UG/PG students projects & to research scholars for their proposals under COE [sub component 1.2.1] as per the list at annexure – 3 .

6. Award of teaching assistantship to PG students under TEQIP –II

The committee noted that in the 19th meeting of sub-committee of BOG, approval was accorded to sanction teaching assistantship of Rs.5,000/-, per month to 124 students admitted to M.Tech course during 2016-17 for 5 months. After deliberations, the committee noted the availability of funds, and accorded approval for the sanction of teaching assistantship of Rs. 8,000/- per month for 4 months [w.e.f 1st October 2016 to 31st January 2017] to the said 124 students admitted to M.Tech course during 2016-17 under TEQIP II [Annexure-4].

7. Award of Seed money to faculty for research under COE

The committee noted that Research proposals for the award of seed money were called from the faculty members and also took a note of the list recommended by the review committee comprising of TEQIP II & COE Coordinators, concerned HOD, faculty experts and external experts. After detailed deliberations, the committee accorded approval



B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTIETH MEETING | 06.03.2017 | SUB-COMMITTEE OF BOG | MINUTES

for the sanction of seed money to the faculty members for research activities under COE as per the list at Annexure- 5.

8. TEQIP II impact evaluation study:

The committee noted that Questionnaire was provided by IIT Delhi through its mail dated 3.2.2017 towards impact evaluation study of TEQIP II Programme and also took a note of the response submitted by the college in this regard.

9. SWOT analysis and case study for TEQIP-III KIC - TEQIP, IIT Guwahati

The committee noted that a key panel of KIC - TEQIP, IIT Guwahati comprising of Dr. Sunil Khijwania, Head, Center of Educational Technology and Dr. Gaurav Trivedi, from the department of Electrical & Electronics Engineering, with Sri. Manohar G Nayak, State Project Coordinator, SPFU visited the college on 16th February 2017 for SWOT analysis and case study for TEQIP-III. The committee further noted that the said team interacted with BMSCE TEQIP team for feedback.

10. TEQIP III Participation:

The committee took a note of NPIU's communication dated 17.2.2017 [Annexure-6] informing that our institute has been shortlisted as Mentor Institute under Sub-Component 1.3 for twining focus state institutions under Sub-Component 1.1 and that selection of shortlisted institutes through Challenge method would begin from 22nd February 2017 onwards. The committee also noted that the mail from NPIU requested to indicate three institutions in the order of preference from the attached list of institutions for Mentoring purpose. The committee noted that the college sent the following names of the institutes as preferred for mentoring and ratified the same:

1. NIT Manipur, Manipur
2. Atal Bihari Vajpai Govt. Institute of Engineering & Technology, Shimla, Himachal Pradesh
3. Jawaharlal Nehru Govt. Engineering College, Sundernagar, Himachal Pradesh

The committee further took a note of the Institutional Development Proposal [IDP] for TEQIP-III submitted by the college to NPIU & SPFU on 18.02.17 and ratified the same [Annexure-7].



B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II
TWENTIETH MEETING | 06.03.2017 | SUB-COMMITTEE OF BOG | MINUTES

11. Progress Review meeting of TEQIP-II institutions:

The committee noted that Dr.B.V.Ravishankar, TEQIP Coordinator-I & Vice Principal, Dr. L. Ravikumar, TEQIP Coordinator-II and Dr.M.Ramachandra, COE Coordinator attended the 'Expenditure Review Meeting of TEQIP II institutions' held on 22nd February 2017 at Higher Education Council Conference hall, DTE, Karnataka. The committee also noted that TEQIP Coordinators made a presentation on the progress achieved so far under TEQIP-II & COE and status of expenditure incurred before the NPIU & SPFU officials.

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

The committee took a note of the NPIU's communication dated 01.03.2017 informing that online web based satisfaction survey for Students, Faculty & Staff is a mandatory activity under TEQIP-II for assessing the performance of the institutions and all the students and staff members are expected to participate in the same and complete the 3rd round of web based survey on/before 20.03.2017.

13. Approval to faculty & students for attending programs and conduction of programs:

- a) The committee took a note of the consolidated list of the approvals of the sub-committee received by circulation for deputing faculty members to attend various programs & conducting programs under TEQIP II/COE placed at Annexure-8.
- b) The committee took a note of the consolidated list of the approvals of the sub-committee received by circulation for attending various programs by the students under TEQIP II/COE placed at Annexure -9.

Dr.L.Ravikumar, TEQIP Coordinator-II expressed sincere thanks to the sub-committee of BOG for their able and timely guidance to TEQIP Team of the college throughout the Project. He further thanked the TEQIP team of the college for their cooperation and participation in the TEQIP-II & COE activities leading towards the successful completion of the project by 31st March 2017.

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


DR.K.MALLIKHARJUNA BABU
PRINCIPAL & CONVENOR


Prof.D.THUKARAM
CHAIRMAN

100

Annexure - 2

From: National Project Implementation Unit <npiuwb@hotmail.com>

Date: Fri, Mar 24, 2017 at 2:52 PM

Subject: TEQIP II – Enhancement of Procurement limit by 10%

To: "drkmbabu@bmsce.ac.in" <drkmbabu@bmsce.ac.in>, "drkmbabu@gmail.com" <drkmbabu@gmail.com>, "viceprincipal@bmsce.ac.in" <viceprincipal@bmsce.ac.in>, "ravibmsce@yahoo.com" <ravibmsce@yahoo.com>, "ravi.mech@bmsce.ac.in" <ravi.mech@bmsce.ac.in>, Cc: Rupali Jha <rupali.jha.teqip@gmail.com>, Rajiv K Mishra <rajiv.mishra.teqip@gmail.com>

No.P/TQ/II/SPFU/2017/

24th March, 2017

To,
All Project Institutions & SPFUs

Sub: TEQIP II – Enhancement of Procurement limit by 10%

Sir,

It is to inform you that MHRD has enhanced the limit of procurement by 10% of the project life allocation as a special case to expedite remaining expenditure considering the closure of the Project and unspent balance lying with the institutions.

In this connection, Project institutions can make additional procurement by 10% of the project life allocation with the approval of their BOG's subject to the availability of funds. However, there should not be any increase in Project life Allocation.

All procurement activities should be completed by 31st March, 2017. No new procurement activities can be started and paid for after 31st March 2017. During the four-month grace period from 1st April 2017 to 31st July 2017, only payments can be made for goods delivered, works completed and services rendered till 31st March 2017".

SPFUs are requested to kindly monitor the above work at their level and ensure the adherence of the given guidelines.

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

From: **spfu karnataka** <spfukarnataka@gmail.com>
Date: Thu, Mar 30, 2017 at 3:23 PM
Subject: Fwd: TEQIP II – Enhancement of Procurement limit by 10%
To: Mallikharjuna Babu Kayala <drkmbabu@gmail.com>, BMS Bangalore
<viceprincipal@bmsce.ac.in>, Ravi Kumar <lrkmech@gmail.com>,

To,
The Principals & Co-ordinators
TEQIP Institutions

Sir,

Sub: TEQIP II – Enhancement of Procurement limit by 10%

With reference to NPIU e-mail No. P/TQ II/SPFU/2017 dated: 24th March 2017 and telephonic conversation with Associate Consultant (procurement), NPIU-MHRD in respect of enhancement of procurement limit by 10% the following few points may be noted by the Institutions.

- 1) The upper cap for procurement has been enhanced by 10% of the project life allocation.
- 2) All the procurements should be completed on or before 31st March 2017 in respect of all stages of procurement including initiation, issue of PO, delivery of items except the payment which can be done after 1st April 2017.
- 3) No procurement should be initiated afresh now as they cannot be completed within 31st March 2017. If any procurements are initiated then the institutions have to bear the expenditure from their own funds and not from TEQIP-II funds.
- 4) If the institutions have crossed their respective upper ceiling of procurement allocation they can be regularized to maximum 10%.
- 5) For any clarifications, Project Officer (Procurement), SPFU-Karnataka may be contacted.

With regards,

Manohar G Nayak
State Project Coordinator,
SPFU Karnataka,

Swatch Bharath | Print only if necessary | Save Trees

Annexure - 3

From: **spfu karnataka** <spfukarnataka@gmail.com>

Date: Sat, Mar 25, 2017 at 11:15 AM

Subject: Fwd: TEQIP-II---Project Closure -- Staff Maintenance in TEQIP Cell in SPFU & institutions for the period from 1st April to 31st July, 2017

To: Mallikharjuna Babu Kayala <drkmbabu@gmail.com>, BMS Bangalore <viceprincipal@bmsce.ac.in>, Ravi Kumar <lrkmech@gmail.com>

To,

The Principals, TEQIP institutions

Sir,

Please find herewith NPIU E-mail and attachment regarding TEQIP-II---Project Closure -- Staff Maintenance in TEQIP Cell in SPFU & institutions for the period from 1st April to 31st July, 2017 for your kind information and needful action.

With regards

Manohar G Nayak

State Project Coordinator, SPFU Karnataka,

Swatch Bharath | Print only if necessary | Save Trees

----- Forwarded message -----

From: **National Project Implementation Unit** <npiuwb@hotmail.com>

Date: Wed, Mar 22, 2017 at 2:53 PM

Subject: TEQIP-II---Project Closure -- Staff Maintenance in TEQIP Cell in SPFU & institutions for the period from 1st April to 31st July, 2017

To: KARNATAKA SPFU <hutalawar@yahoo.co.in>, KARNATAKA DTE <hutalawar@yahoo.co.in>, KARNATAKA SPFU COORDINATOR <mgn_204@yahoo.co.in>, KARNATAKA S P F U <spfukarnataka@gmail.com>

Cc: N S Agnihotri <nand.agnihotri.teqip@gmail.com>, Rajkumar Arya <raj.arya.teqip@gmail.com>

(By E-mail)

22nd March, 2017

To: Directors -- SPFU Karnataka

Sub.: TEQIP-II---Project Closure -- Staff Maintenance in TEQIP Cell in SPFU & institutions for the period from 1st April to 31st July, 2017

Sir,

The TEQIP-II project is upto 31st March, 2017. As per the World Bank instructions :

"All activities should be completed by 31st March, 2017. No new activities can be started and paid for after 31st March, 2017. During the four month grace period from 1st April 2017 to 31st July, 2017, payments can be made for goods delivered, works completed and services rendered till 31st March, 2017."

In this connection, the TEQIP staff shall be required to be maintained for the above work and other closure related work. Therefore, the expenditure details on maintenance of the staff at SPFU/institutions were called.

MHRD have approved the Staff maintenance in TEQIP Cell in SPFUs, institutions/CFIs for the period from 1st April 2017 to 31st July, 2017 as per the expenditure details submitted by you. Accordingly, your state has submitted the expenditure plan amounting to Rs. 25,05,032/- as per the list enclosed.

The necessary compliance may be made accordingly.

Thanking you

Yours faithfully
(N.S.Agnihotri)
Consultant (Finance)

CC to: TEQIP Coordinators -- SPFU Karnataka

Annexure - 4

From: **N P I U** <teqip.npiu@gmail.com>

Date: 3 April 2017 at 16:08

Subject: MOST URGENT - TEQIP-III : FRESH BID for Twinning under Sub-component 1.3.reg

To: drkmbabu@gmail.com, principal@bmsce.ac.in, viceprincipal@bmsce.ac.in, ravibmsce@yahoo.com, ravi.mech@bmsce.ac.in,

Cc: npiuwb@hotmail.com, Dr Rita Goyal <rita.goyal.teqip@gmail.com>, Dr Prakash Chandra Kuniyal <prakash.kuniyal.teqip@gmail.com>

MOST URGENT

Dear Sir

As you are aware, the selection of institutions for twinning between institutes (from Focus States) under Sub-Component 1.1 and 1.3 (from non-Focus States) is under way. As of now, twinning of some institutes has been identified by the selection Committee for final approval by MHRD. For the remaining 1.1 institutions, the fresh bids are being invited from 1.3 institutions as listed in **Annex-1**.

In this regard, the institutes under Sub-component 1.3 are requested to bid three institutes of Sub-Component 1.1 of the Focus states (attached as **Annex-II**). The requisite information should be submitted to NPIU latest by **5th April 2017**. SPFU is requested to undertake a follow up action.

With 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-1 (Sub Component 1.3)**TEQIP-III LIST OF INSTITUTIONS TO BE CALLED FOR FRESH BID FOR PARTICIPATION IN SUB-COMPONENT 1.3 (TWINING PARTNER)**

SL. NO.	NAME OF STATE	INSTITUTIONS TO BE CALLED FOR FRESH BID
1	ANDHRA PRADESH	JNTU College of Engineering, Anantpur
2	ANDHRA PRADESH	Andhra University College of Engineering, Vishakhapatnam
3	ANDHRA PRADESH	SVU College of Engineering, Tirupati
4	CFTI	VNIT, Nagpur
5	CFTI	NIT, Warangal
6	CFTI	ZHCET-AMU, Aligarh
7	CFTI	NIT, Silchar
8	CFTI	MNIT, Bhopal
9	CFTI	NIT, Trichy
10	CFTI	NIT, Durgapur
11	CFTI	MNIT, Jaipur
12	CFTI	IEST, Shibpur
13	KARNATAKA	Dr. Ambedkar Institute of Technology, Bangalore
14	KARNATAKA	BVB College of Engineering & Technology, Hubli
15	KARNATAKA	The National Institute of Engineering, Mysore
16	KARNATAKA	Basaveshwar Engineering College, Bagalkot
17	KARNATAKA	PES College of Engineering, Mandya
18	KARNATAKA	H.K.E.S's PDA College of Engineering, Gulbarga
19	KARNATAKA	BMS College of Engineering, Bangalore
20	KERALA	School of Engineering, Cochin University of Science & Technology, Cochin
21	MAHARASHTRA	Shri Guru Gobind Singhji Institute of Engineering & Technology, Nanded
22	MAHARASHTRA	BVB's Sardar Patel College of Engineering, Mumbai
23	MAHARASHTRA	Government College of Engineering, Karad
24	MAHARASHTRA	Department of Technology, Shivaji University, Kolhapur
25	MAHARASHTRA	University Department of Chemical Technology, North Maharashtra University, Jalgaon
26	PUNJAB	SBS College of Engineering & Technology, Ferozepur
27	PUNJAB	Beant College of Engineering & Technology, Gurdaspur
28	PUNJAB	GZS College of Engineering & Technology, Bhatinda
29	TAMIL NADU	Govt. College of Technology, Coimbatore
30	TAMIL NADU	Alagappa Chettiar College of Engineering and Technology, Karaikudi
31	TAMIL NADU	Government College of Engineering, Salem
32	TELANGANA	JNTU College of Engineering, Hyderabad
33	UT-CHANDIGARH	University Institute of Engineering & Technology, Chandigarh
34	UT-CHANDIGARH	University Institute of Chemical Engineering and Technology, PU, Chandigarh
35	WEST BENGAL	University Institute of Technology, Burdwan University
36	WEST BENGAL	West Bengal University of Technology, Kolkata
37	WEST BENGAL	University College of Technology-Calcutta University
38	WEST BENGAL	Faculty of Engineering and Technology - Jadavpur University, Jadavpur

Annex-2 (Sub-component 1.1 (Focus States)

**TEQIP_III: LIST OF MENTEE INSTITUTIONS FOR WHICH TWINNING TO BE
DONE**

No.	NAME OF STATES	NAME OF INSTITUTES
1	Andaman & Nicobar Islands	Dr. B.R.Ambedkar Institute of Technology, Pahargaon, Port Blair, Andaman & Nicobar Islands
2	Assam	Dibrugarh University Institute of Engineering & Technology, Dibrugarh
3	Assam	Gauhati University Institute of Science & Technology, Guwahati
4	Assam	Jorhat Engineering College, Jorhat
5	Assam	Jorhat Institute of Science & Technology, Jorhat
6	Bihar	Bhagalpur College of Engineering, Bhagalpur
7	Himachal Pradesh	Rajiv Gandhi Govt. Institute of Engineering & Technology, Nagrota, Kangra
8	Jharkhand	University College of Engineering and Technology (UCET), Vinoba Bhave University, Hazaribag
9	Jammu & Kashmir	Baba Ghulam Shah Badshah University, Rajouri
10	Jammu & Kashmir	Govt. College of Engineering & Technology, Jammu
11	Jammu & Kashmir	Shri Mata Vaishno Devi University, Katra
12	Jammu & Kashmir	Islamic University of Science & Technology, Pulwana
13	CFTI	NIT Srinagar
14	Jharkhand	Techno India Ramgarh
15	Jharkhand	Techno India Chaibasa
16	Jharkhand	Techno India Dumka
17	Madhya Pradesh	Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal
18	Madhya Pradesh	Rewa Engineering College, Rewa
19	Madhya Pradesh	Samrat Ashok Technological Institute, Engg. College, Vidisha(M.P.)
20	Madhya Pradesh	Indira Gandhi Engineering College, Sagar
21	Odisha	IGIT Sarang
22	Rajasthan	Govt. College of Engineering & Technology Bikaner
23	Rajasthan	University College of Engineering, RTU Kota
24	Rajasthan	MLV Textile & Engg College, Bhilwara
25	Uttar Pradesh	FET MJP Rohilkhand University, Bareilly (UP)
26	Uttar Pradesh	Bundelkhand Institute of Engineering & Technology, Jhansi
27	Uttar Pradesh	Dr. Ambedkar Institute of Technology for Handicapped UP, Awadhpur, Kanpur (U.P.) 208024
28	Uttar Pradesh	Uttar Pradesh Textile Technology Institue, Kanpur
29	Uttar Pradesh	Feroze Gandhi Institute of Engineering & Technology, Raebareli
30	Uttar Pradesh	Rajkiya Engineering College Bijnor Jalilpur Block Road, Near Eidgah, Chandpur, District Bijnor (UP) Pin 246725
31	Uttar Pradesh	Rajkiya Engineering College, Banda-210201 UP India
32	Uttar Pradesh	Institute of Engineering & Technology, Dr. RML Awadh University, Faizabad, UP
33	Uttar Pradesh	Uma Nath Singh Institute of Engineering & Technology, VBS Purvanchal University, Jaunpur, UP
34	Uttarakhand	College of Technology Pantnagar
35	Uttarakhand	GBPEC Pauri Garhwal
36	Uttarakhand	BKIT Dwarhat, Almora
37	Uttarakhand	THDC Institute of Hydropower Engineering & Technology, Tehri Grahwal

From: **Viceprincipal** - <viceprincipal@bmsce.ac.in>

Date: Tue, Apr 4, 2017 at 2:45 PM

Subject: Re: MOST URGENT - TEQIP-III : FRESH BID for Twinning under Sub-component 1.3.reg

To: N P I U <teqip.npiu@gmail.com>, spfu karnataka <spfukarnataka@gmail.com>

Cc: Principal - <principal@bmsce.ac.in>, Ps2principal - <ps2principal@bmsce.ac.in>, Ravi Kumar <lrkmech@gmail.com>

Dear Sir/Madam

Greetings from BMS College of Engineering, Bengaluru

In response to your mail, our order of preference of mentee institutions for twinning under TEQIP III would be as mentioned below:

Order of Preference	Name of the state	Name of the mentee institutes
1	Assam	Gauhati University Institute of Science & Technology, Guwahati
2	Madhya Pradesh	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
3	Jammu & Kashmir	Govt.College of Engineering & Technology, Jammu
4	Andaman & Nicobar Islands	Dr.B.R.Ambedkar Institute of Technology, Pahargaon, Port Blair, Andaman & Nicobar Islands
5	Uttarakhand	College of Technology Pantnagar

With best wishes

Dr. B.V. Ravishankar

Vice Principal & TEQIP Coordinator-I

BMS College of Engineering,

Bangalore - 560 019.

Phone/Fax: +91 080 26603963

Mobile: +91 9945517699

THE PROJECT (TEQIP-III)

1 Introduction

The Project, Third phase of Technical Education Quality Improvement Programme (referred to as TEQIP-III) is fully integrated with the Twelfth Five-year Plan objectives for Technical Education as a key component for improving the quality of Engineering Education in existing institutions with a special consideration for Low Income States and Special Category States and support to strengthen few affiliated technical universities to improve their policy, academic and management practices.

2 Project Objectives:

The Project will focus on the following objectives:

- (a) Improving quality and equity in engineering institutions in focus states viz. 7 Low Income States (LIS¹), eight states in the North-East of India, three Hill states viz. Himachal Pradesh, Jammu & Kashmir, Uttarakhand and Andaman and Nicobar Islands (a union territory (UT)),
- (b) System-level initiatives to strengthen sector governance and performance which include widening the scope of Affiliating Technical Universities (ATUs) to improve their policy, academic and management practices towards affiliated institutions, and
- (c) Twinning Arrangements to Build Capacity and Improve Performance of institutions and ATUs participating in focus states.

3 Project Scope:

Only the Government and Government aided AICTE approved Engineering institutions/Engineering faculty/Engineering Teaching Department/Constituent Institutions of Universities/Deemed to be Universities and new centrally funded institutions in SCS will be the part of the project.

An estimated 180 Government and Government funded Engineering institutions and 10 Affiliating Technical Universities (ATUs) will be selected under different sub-components in one or two cycles.

4. Project Strategy:

The project will be implemented in alignment with the 12th Five Year Plan (2012-17), based on faster, sustainable, and inclusive growth. It emphasizes increasing the supply of highly-skilled workers to drive the economy, as well as helping low-income states catch up with their more advanced neighbours.

The Project will be implemented through the Ministry of Human Resource Development (MHRD) of the Government of India as a **Central Sector Scheme (CSS)**, wherein 100% funds will be provided as grants to the States, Institutions & ATUs.

¹ The LIS States are Bihar, Chhattisgarh, Jharkhand, Madhya Pradesh, Odisha, Rajasthan & Uttar Pradesh.

A set of Government orders for States and UTs is to be issued to achieve a high and sustained impact of the Project. These orders are to give the project institutions adequate decision making powers that will enable and encourage them to deliver quality education and undertake research in an efficient manner. The primary focus is to increase empowerment of institutions for self-governance and create incentives for achieving excellence in engineering education.

The project institutions will be required to implement academic and non-academic reforms within their self-conceived development programmes that focus on quality and relevance, excellence, resource mobilization, greater institutional autonomy with accountability, research and equity.

Professional development programmes for engineering-education policy planners, administrators and implementers at the Central, State and University levels will be organized. The Project will also support development of more efficient governance activities.

The Project will lay major emphasis on monitoring and evaluation. The prime responsibility of monitoring will lie with the institutions themselves. The management structure at the Institutional level i.e. the Board of Governors (BoG) along with Head of the institution will monitor the progress of Institutional projects on a regular basis and provide guidance for improving the performance of institution in project implementation. The information from project institutions will be collected through a scalable web-based Management Information System (MIS). State Governments will also regularly monitor and evaluate the progress of institutions. The Government of India and the World Bank will conduct bi-annual Joint Reviews of the Project with assistance from the National Project Implementation Unit (NPIU). The monitoring will be based on Institutional Development Plans (IDPs) and Action Plans for ATUs prepared by each project institution and achievements will be measured through a set of performance indicators. The monitoring will focus on implementation of reforms by institutions, achievements in project activities under different sub-components, procurement of resources and services, utilization of financial allocations and achievements in faculty and staff development and management development activities.

In the project, the technical assistance to AICTE is planned which will include designing an assessment system to track student learning at different points of the undergraduate program. Surveys of students, faculty, non-teaching staff and administrators will deepen insight into how institutes address specific problems related to student learning. Assessments will be designed to provide feedback to institutes on how and where to improve, without putting undue pressure on students.

In this project, the fund will be linked to the Disbursement Linked Indicators (DLIs) and will be disbursed only after achieving and verification of some of the indicators.

5 Project Design:

TEQIP seeks to enhance quality and equity in participating engineering education institutions and improve the efficiency of the engineering education system in focus states.

The Project will support two components:

Component - 1: Improving quality and equity in engineering institutions in focus states

➤ **Sub-component 1.1 : Institutional Development for Participating Institutions**

An estimated 90 Engineering Education institutions meeting (progressively) the enabling mechanisms and based on quality of Institutional Development Proposals (IDPs), will be selected.

Institutions are required to define the activities in their IDP that they want to carry out in the project. These activities should be under the scope of the project and are those that fulfil the objectives of the project. However, some of the suggested activities under the scope of the project are given below:

- Procurement of Goods (equipment, furniture, books LR, software and minor items) and Minor civil works.
- Improvement in Teaching, Learning and Research competence.
 - Improve student learning,
 - Student employability,
 - Increasing faculty productivity and motivation,
 - Establishing a twinning system,
 - Twinning arrangements with high performing institutions under Sub-component 1.3 to build capacity and improved performance
 - Recruitment and retention of high quality faculty (through better faculty appraisal systems and the faculty recruitment plan).
(Consultant services if required, can also be procured for the above said activities.)

➤ **Sub-component 1.2 : Widening Impact through ATUs in focus states**

An estimated 8 ATUs meeting the enabling mechanisms will be selected with matching contribution equal to project allocation.

The various activities are to be supported by the Action Plans from the ATUs. Some of the suggested activities are:

- **Procurement of Goods (equipment, furniture, books LR, software and minor items)**
 - Establishing/improving ERP/management information system for student, staff and faculty data
 - Improving financial management and procurement
 - A modern HR system for efficient personnel management
- **Improvement in Teaching, Learning and Research Competence of affiliated institutions**

- Mentoring of affiliated institutions and promoting of applications to UGC/NBA
- Increasing faculty productivity and motivation
- Twinning arrangements with ATUs under Sub-component 1.3 to build capacity and improved performance
- Preparation of massive open online courses (also referred to as MOOCs), facilitating access of institutions to MOOCs
- Filling up of faculty vacancies
- Developing credit-based systems such that students in institutions could use select e-learning courses as part of their degree programs
- Greater access to digital resources
- Integration with Swayam platform etc.
- Improving institutional governance
- Improve student learning
- Student employability
- Centralized Research hubs opened to all faculty

(Consultant services if required, can also be procured for the above said activities.)

➤ **Sub-component 1.3 : Twinning Arrangements to Build Capacity and Improve Performance of Participating Institutions and ATUs**

Institutions (already participated in TEQIP-I and/or II)/ATUs will be selected on a competitive basis based on pre-defined eligibility criteria. The evaluation will be based on quality of IDPs. The proposal should include establishing a mentoring system for twinning arrangements to build the capacity and improvement in performance of institution/ATUs participating under sub-component 1.1/1.2 respectively.

Institutions are required to define the activities in their IDP that they want to carry out in the project. These activities should be under the scope of the project and are those that fulfil the objectives of the project. However, some of the suggested activities under the scope of the project are given below:

- Procurement of Goods (equipment, furniture, books LRs, software and minor items) and Minor civil works
- Improvement in Teaching, Learning and Research competence
 - Improve student learning
 - Student employability
 - Increasing faculty productivity and motivation
 - Establishing a twinning system
 - Twinning arrangements with institutions under Sub-component 1.1 to build capacity and improved performance
 - Individual Institutional mentors

(Consultant services if required, can also be procured for the above said activities.)

Component-2: System Level initiatives to strengthen sector governance and performance

This component will support MHRD and key apex bodies in engineering education, including AICTE and NBA, to strengthen the overall system of engineering education. The activities are:

- Provide technical assistance to AICTE and NBA,
- Professional development of Technical Education and TEQIP administrators in the project States and project institutions,
- Initiatives for Effective Governance System of institutions at the level of Board of Governors,
- Implementing Direct Benefit Transfer System to ensure fund transfer electronically to SPIUs and institutions, and
- Project monitoring & evaluation.
- All institutes and ATUs in the Project, as well as those government and government-aided institutes who participated in TEQIP I and II but are not participating in TEQIP III and ATUs not in focus states, will be linked to the National Knowledge Network. Last mile connectivity will be provided by the Project.
- 24/7 broadband connectivity and Wi-Fi access in all academic and administrative buildings and hostels.
- Developing or establishing technology learning centers at all universities which affiliate engineering colleges

6 Sustainability of the Project institutions:

The overall project focus on institutional development has sustainability built in the design of the project. The project's emphasis on well-functioning government bodies, more delegated authority to manage their affairs, and capacity to generate own revenues, involve changing behaviour of key players at a fundamental level. TEQIP I and II required institutes to put aside specific funds for the ongoing maintenance and development of the institute once the project period ended; this will continue in TEQIP III.

- TEQIP III institutes will be required to deposit at least 8% of their revenue every year into a Sustainability Fund. In TEQIP II, this amount has been growing every year – we expect the same trend in TEQIP III.
- A key aspect of the Twinning Arrangements proposed in the project is to develop long-term relationships between colleges. This will help sustain reforms in teaching, learning, research and institutional governance envisaged under the project. Similarly, the IITs and IIMs have been working on strengthening internal systems for sustaining reforms.
- The Faculty Recruitment envisaged for each focus state will build a system for recruiting and retaining adequate numbers of high-quality faculty. This Plan will be expected to provide a long-term solution to the problem of faculty recruitment and retention (not just during the project period).
- The governance-related reforms under the Project, such as UGC autonomy, high-quality BoG and accreditation are expected to put colleges on a long-term path of excellence, which will include innovations in areas relating to internal revenue generation

DETAILED PROJECT DESCRIPTION

COMPONENT 1 : IMPROVE QUALITY AND EQUITY IN ENGINEERING INSTITUTIONS IN FOCUS STATES

Sub-component 1.3 : Twinning Arrangements to Build Capacity and Improve Performance of Participating Institutions and ATUs

1. Objective

To support the priorities identified by Sub-component 1.1 and 1.2 institutions in their IDPs and Action Plans through twinning arrangements to build capacity and improve performance.

2. Scope

Following types of educational institutions will be eligible for submission of IDPs and if selected, for funding under this Sub-component:

- Autonomous Government and Government aided affiliated institutions from States other than specified in Sub-component 1.1,
- Non affiliating Technical Universities/Deemed to be Universities or their single (Engineering Faculty/ Departments/non-autonomous Constituent Institutions), and if multiple (autonomous Constituent Institutions) from States other than specified in Sub-component 1.1, and
- Affiliating Technical Universities (ATUs) for twinning with ATUs under Sub-component 1.2

The institutions and ATUs (approximately 2-3) totalling the same number of institutions and ATUs selected under Sub-component 1.1 will be short listed based on quality of their IDPs if

- Agreed for twinning arrangements with institutions or ATUs under sub-component 1.1 or 1.2
- fulfil the pre-defined eligibility criteria

The twinning between the institutions will be based on decision of a Committee constituted by MHRD considering the geographical location of the institutions, area of interest and expertise, merit of their proposals, their category etc. Although the institutions / ATUs under Sub-component 1.3 may continue to do their own development activities till the institution under Sub-component 1.1 or ATUs under Sub-component 1.2 meet the enabling mechanism pre-defined in the project.

The selection of the institutions will be opened till October 2018.

Following types of educational institutions/departments **will not be** eligible for being funded directly under this Sub-component:

- Institutions or ATUs eligible for participation under Sub-component 1.1 and 1.2

- Non autonomous institutions
- Polytechnic institutions,
- Architecture, Management and Pharmacy institutions or departments,
- Master of Computer Application Departments/institutions, and
- Private unaided institutions.

3. Strategy:

Sub-component 1.3 institutes – all of whom will have obtained academic autonomy from UGC – will receive an initial allocation of INR 2 Cr. so that they have the incentive to participate effectively in twinning activities as well as continue their own institutional development, upon which such twinning depends. These institutes will be eligible for additional resources (totalling around INR 7 Cr.) depending upon how effectively they meet obligations identified in their Twinning Agreements.

Institutions participating in this Sub-component cannot apply for Sub-component 1.1 & 1.2.

4. Deliverables:

The institutions participating under this Sub-component will be responsible for the following set of deliverables:

- a. Increase in the average score of students participating in tests designed to measure technical and critical thinking skills
- b. Increase in percentage points of NBA accredited Undergraduate programs and Post-graduate programs
- c. Increase in Transition rate of undergraduate engineering students from the first year to second year
- d. Percentage of students from traditionally disadvantaged groups in total enrolment in participating institutions
 - i. SC/ST
 - ii. Women
- e. Direct project beneficiaries
 - i. Total number
 - ii. Female beneficiaries
- f. Increase in percentage of PhD students in total enrolment in engineering disciplines
- g. Percentage of sanctioned faculty positions in participating institutions filled by regular or contract faculty, contracted as per AICTE norms
- h. Number of Faculty Trained in either their subject domain, pedagogy or management
- i. Percentage of externally funded research and development projects and consultancies in total revenue
- j. Student, Staff and Faculty Satisfaction Survey
- k. Improved employer satisfaction with engineers recruited in the past year
- l. Board of Governors or Institution/ Department Management Committee meets at least 3 times every calendar and publicly discloses the minutes of all meetings

5. Evaluation and Selection:

Institutions (already participated in TEQIP-I and/or II)/ATUs will be selected on a competitive basis based on pre-defined eligibility criteria. The evaluation will be based on quality of IDPs prepared using the prescribed formats. The proposal should include establishing a mentoring system for twinning arrangements to build the capacity and improvement in performance of institution/ATUs participating under sub-component 1.1/1.2 respectively. Information given in the formats should be **verifiable**, concise and supported by documents.

6. Funding pattern:

The Institutions and ATUs under this Sub-component will receive an initial allocation of INR 2 Cr. that can be increased to INR 7 Cr based on their performance.

For planning of fund requirements under various groups of activities for the institutions, refer Annex-A.

Further allocations may be made based on institutional performance against certain benchmarks, on a basis to be determined by MHRD in agreement with the World Bank from time to time. Allocation may also be reduced for non-fulfilment of benchmarks.

7. Possible activities under this Sub-component:

Institutions are required to define the activities in their IDP that they want to carry out in the project. These activities should be under the scope of the project and are those that fulfil the objectives of the project. However, some of the suggested activities under the scope of the project are given below:

- Procurement of Goods (equipment, furniture, books LRs, software and minor items) and civil works
- Improvement in Teaching, Learning and Research competence
 - Improve student learning
 - Student employability
 - Increasing faculty productivity and motivation
 - Establishing a twinning system

- Twinning arrangements with institutions under Sub-component 1.1 to build capacity and improved performance
- Individual Institutional mentors

(Consultant services if required, can also be procured for the above said activities.)

The details of possible activities under the Sub-component 1.3 are :

(I) Improvement in Teaching, Training and Learning facilities

Procurement of Goods [equipment; furniture; books & LRs, softwares; and minor items] and minor civil works that may be required under the Project for improvement in teaching, training and learning facilities. A maximum of 60% (Sub-component 1.1) & 50% (Sub-component 1.3) of total project allocation can be made for procurement by each project institution for this activity.

The various possible sub-activities may be as follows:

(a) ***Modernization and strengthening of laboratories, establishment of new laboratories and R&D activities :***

- modernization and strengthening of laboratories for existing UG and PG programmes
- establishment of new laboratories for new and existing UG and PG programmes
- Equipment needed for research and consultancy projects

(b) ***Modernization of Classrooms:*** Classrooms could be modernized with Smart Boards and Computer linked LCD Projectors with screen, which would capture better attention of the students than mere oral lecturing. V-SAT, Video Conferencing and Audio-Conferencing facilities can also be considered for Guest lectures or class lectures depending upon need and feasibility. Classrooms need to be well-lit and ventilated.

(c) ***Updation of Learning Resources:*** Continuous updating of Learning Resources (books, e-books, e-journals, CDs and professional software) and procuring the same is part of the improvement to be brought about in the teaching learning process. Course specific software to improve teaching learning process may be procured, as required. The faculty needs to be encouraged and trained to use these time saving modern facilities.

(d) ***Procurement of Furniture:*** Furniture may be required for modernization of existing laboratories, establishment of new laboratories, libraries, Computer Centres and classrooms. Provision would need to be made for such procurement in the Institutional Development Proposal.

(e) ***Establishment/Up gradation of Central and Departmental Computer Centres:*** Institutions may need to focus on modernize/upgrade Computer Centres to meet curricular and research requirements. It is desirable that Computer Centres be kept open for extended periods beyond working hours and on non-working days. Proper connectivity with Campus-wide Networking is essential. Purchase of the required Computers at one go may be avoided; it may be phased to ensure that the latest systems are procured.

Institutions would need to enter into Annual Maintenance Contracts after the expiry of warranty period for the computers and associated hardware procured under the Project. Wherever possible, replacement of computers/components by the suppliers/manufacturers to ensure upgradation of the computers procured may be considered.

(f) ***Modernization/Improvements of Supporting Departments²:*** Upgradation of teaching and training facilities in the supporting Departments may be considered and included in the IDP so that their contribution is enhanced.

(g) ***Modernization and strengthening of libraries and increasing access to knowledge resources:*** Libraries, which are part of every institution, promote self-learning and also support the teaching learning processes. There is a widespread need to keep the libraries open to the maximum extent. There are institutions where libraries are kept open for 24 hours a day throughout the week.

² Physics, Chemistry, Mathematics and English/other languages

Modernization of libraries could include conversion to Digital Libraries, which would occupy lesser space and make space available for other activities. The institutions can also become member of Indian National Digital Library in Engineering Sciences and Technology Consortium (INDEST-AICTE Consortium). Purchase of books should be through CDs to the extent possible. Even old books, which are available on CDs, should be located and purchased. There needs to be a CD Bank with proper identification and accessibility. The library could be reorganized with adequate computers and connectivity to hostels and Departments through Campus-wide Networking. Subscription to the latest e-Journals could be made. The IDP should clearly indicate the actions that are proposed to be taken for Modernization of Libraries including the cost involved.

(h) **Minor Civil Works:** The minor civil works to be undertaken by the institutions are to be prioritized as suggested below:

- Repair works: The works under this category could be repair of old structures and/or non-functional components of the existing building.
- Refurbishment works: The works under this category could be related to changing the existing functions of a room to a new proposed function. For example: provision of electrical, water supply and/or waste disposal arrangements in an existing room which is proposed to be used as a laboratory.
- Extension to Existing Buildings: Institutions can construct an additional area in continuation to an existing building within the campus. However, institutions will need to provide justification on the extension works proposed.

Note : *The project institution should follow scrupulously the agreed rules and procedures as set out in the Financial Management and Procurement Manual.*

(II) Improvement in Teaching, Learning and Research Competence

The aim of the academic processes should be to improve the learning outcomes and employability of undergraduates and the research pursued under post-graduate programs. The activities will also address fundamental system-level challenges.

The various possible sub-activities are as follows:

(a) Improve student learning

• Faculty and staff training

This activity should be closely linked to the overall goals of the institution as also to fulfil individuals' justifiable professional aspirations.

1. **Faculty training** (Applicable for faculty of engineering discipline and supporting departments)

The suggested activities to be conducted are:

(i) **Qualification Upgradation :**

Institutions are expected to encourage faculty to upgrade their qualification from Bachelors to Masters and from Masters to Doctoral degree. If the facilities are available within the institution, the same need to be maximally utilized. Alternatively, the faculty could be deputed to other institutions (within India) for

enhancement of qualification. Part-time or sandwich programmes may also be made use of where feasible and necessary.

(ii) Enhancing knowledge and research competence:

- **Subject upgradation and research competence :** Subject knowledge upgradation is to make the faculty aware of the advances in knowledge, technologies and research methodologies for improving his/her own performance and for the benefit of students. Short-term and long-term courses are available within India including Summer Schools arranged by Government organizations, institutions and professional Societies. Faculty should be on the lookout for appropriate opportunities.
- **Continuing Education Programmes (CEPs) :** The CEPs at project institutions are to be targeted at the working professionals. The duration of the programmes must be at least one week (5 working days). The participants should preferably be representatives of industries, faculty from other AICTE recognized Engineering institutions and a few faculty of the host institution. The Continuing Education Programmes should be conducted preferably in cutting edge technologies.
- **Participation in Seminars, Conferences, Workshops, etc.:** Faculty is to be encouraged to participate in seminars, conferences and workshops, both National and International. Participation in these would give a good exposure on the developments taking place in different areas. The faculty participating in these should be encouraged to visit close-by institutions and laboratories of his/her interest. Besides, accrual of benefits to students and in their own researches, such participation is expected to bring about collaborations with academic institutions and R&D organizations within and outside the country. The institutions are required to establish such collaborations through MoUs.

(iii) Pedagogical Training : The need for Pedagogical Training at institution using the latest teaching methodologies is strongly felt for improving the teaching and training competence of faculty. The target is to cover maximum number of faculty from the project institutions.

2. Staff training :

The staff in an Engineering Education institution fall under two categories:

- (i) Technical Staff:** The Technical Staff in laboratories and workshops need to be trained in their functional areas including operation and routine maintenance of both the existing and new equipment. They also need training on workshop instructions, upkeep of institutional service facilities, etc. The technical staff also need to be motivated and encouraged to participate in training and to use the newly acquired expertise for the benefit of students and the institution. Institutions are expected to encourage staff to upgrade their qualification. If the facilities are available within the institution, the same need to be maximally utilized. Alternatively, the staff could be deputed to other institutions (within India) for enhancement of qualification. Part-time or sandwich programmes may also be made use of where feasible and necessary
- (ii) Administrative Staff:** The Administrative Staff also need training in respective functional areas, particularly in the use of modern office equipment, software, office automation, maintenance of records, procedures, etc. The training should also cover

motivation for time and material efficiency, and friendliness towards faculty and students.

- **Increasing capacity for postgraduate education and establishing teaching and research**

Increased capacity of PG and PhD programmes is of crucial importance for meeting the large requirements of faculty and for meeting the needs of the Industry. It is also essential to encourage Graduates to join Masters programmes and also pursue Research programmes for being employed as faculty. Institutions receiving funds under the Project are encouraged to seek enhancement of Masters degree seats from AICTE so as to increase the enrolment in Masters programmes. Institutions may also seek permission to convert the unfilled GATE and Industry sponsored seats to non-GATE and non-Industry sponsored seats respectively so that seats do not remain vacant.

GATE qualified students enrolled in Masters courses will receive scholarships as per AICTE norms from the Government sources. The meritorious students admitted by the institutions for Masters Courses that do not receive GATE/other scholarships, may receive Teaching Assistantships from TEQIP funds.

The institutions could also provide Research Assistantships through TEQIP funds to the enrolled Doctoral students that do not get any scholarships through NDF/other schemes.

The Teaching and Research Assistantships are to be provided by institutions on proportionate basis as per the prevalent UGC/AICTE norms or as decided by the BoG of the institution. The students receiving Teaching or Research Assistantships will be required to devote 8-10 hours per week for teaching or research, as the case may be.

The assistantships can also be provided to the Master and PhD students in supporting departments viz. Physics, Chemistry, Maths and English / other languages.

- **Improving transition rates of all categories of students and improving non-cognitive skills of students**

Institutions need to identify those students who need extra support and the type of support needed to reduce their risk of dropping out of college. Some of the reasons for these students needing extra support include: low entry level marks (i.e., inadequate preparedness for the rigorous engineering curriculum), irregular attendance of classes, lack of self-confidence, low proficiency in the medium of instruction (English) or even in the main vernacular language.

Some possible interventions to improve the performance of weak students are given below:

- Diagnosing Student Weaknesses and Continuous Tracking of Performance
- Improving Performance in Academic Subjects
- Improving non-cognitive skills of students
- Peer Learning Groups
- Appointing Faculty Advisers for Students
- Timing of Remedial Courses and Repeat Exams.
- Improving teacher effectiveness
- Bridge courses

The activities are detailed out in the Equity Action Plan which should be a mandatory part of the IDP.

- **Instituting academic and non-academic reforms**

The eligibility criteria for selection of institutions envisage willingness for implementation of academic and non-academic reforms. For non-academic reforms, institutions are expected to utilize their own funds.

I. Academic Reforms:

- **Curricular Reforms:** The main purpose of revision of curricula and syllabi for Engineering Education disciplines at UG and PG levels is to effectively prepare students to meet the labour market requirements. Involvement of employers including core Industry in curricular reforms is an essential requirement.

Project institutions, which are affiliated to Universities, will need to get the revisions in the curricula approved by the Competent Authorities till they attain Autonomous Institution status.

Institutions, which are autonomous, can carry out the curricula development and revision themselves by establishing mechanism that would ensure that the curricula meet labour market requirements.

All new and revised curricula, among others, need to imbibe the following:

- Innovations in teaching and student evaluation methodologies;
 - Design skills, communication skills, entrepreneurial skills, information processing, creative and innovative thinking, leadership skills;
 - Problem solving projects from Industry;
 - Elective courses;
 - Extensive use of media;
 - Invited expert lectures from Industry and field;
 - Visits to and training in Industry; and
 - Multi-level and multi-background entry credit exemptions.
- **Improved Student Performance Evaluation:** Evaluation of students has to be done on a continuous basis, in order to provide opportunities for improvement. Students should be encouraged to participate in tests designed by the National Testing Agency as described in Component 2. Publication of results in the shortest period and allowing the students to see the evaluated papers are some of the innovative measures that can be adopted. Students and faculty will benefit largely from this reformation of student evaluation process. The faculty may identify the academic weaknesses and then counsel the students as to how they may improve their performance. A brainstorming by faculty with students can help to identify various options for performance improvement. Transparency, fairness, consistency and accountability in grading must be ensured. The aggrieved student may be allowed to see the evaluation. Weak students should be given every opportunity to improve. This will develop a greater respect for the institution by the students. The details are given in the Equity Action Plan.
 - **Performance appraisal of faculty by students:** Evaluation of faculty performance on a periodic basis should be implemented. The results of this should be used for taking remedial actions for improvement of teaching learning process. The main purpose is to help faculty member to improve his/her teaching/training skills. The assessment by students and the counselling which may follow such assessment needs to be aimed at helping faculty recognize weaknesses and remedy them to improve student learning. An exit assessment taken at the end of the course gives an insight into the total effectiveness of the course, learning achievements and shortcomings and may be useful for future delivery of the course by the faculty. Faculty must be taken into confidence during each

assessment and the benefits to the faculty/student and the improvement in quality of education should be well explained. Faculty should be continuously motivated to improve performance. This will ensure a proper mix of proficiency and efficiency in the quality of instruction offered to students.

- **Faculty incentive for Continuing Education (CE), Consultancy and R&D:** The initiatives taken by faculty should be encouraged through proper incentives and clear guidelines. All faculty are to be encouraged to participate in organizing and/or attending CE programmes, to offer consultancy to Industry and to take part in R&D activities in the institution. Institution should prepare at the beginning of every semester, a faculty engagement chart which should indicate not only the faculty teaching commitments, but also his/her expected involvement in administration, Continuing Education, collaborative activities, research and development activities including curriculum and laboratory development, consultancy, etc. Faculty efforts for good achievements in this direction should be suitably recognized by the BoG. Institutional efforts for consulting to Industry and involvement in R&D should also be adequately encouraged.

2. Non Academic Reforms :

- (i) **Exercise of autonomies— Academic, Administrative, Managerial and Financial:** For institutions selected under the Sub-component 1.1, obtaining Autonomous Institution status during the Project is mandatory. Institutions are also expected to obtain and exercise reasonable levels of Administrative, Financial and Managerial autonomies.
- (ii) **Establishment of Corpus Fund, Faculty Development Fund, Equipment Replacement Fund and Maintenance Fund:** Establishment of the four Funds is essential to ensure that the developmental activities continue beyond the Project period. It is, therefore, compulsory that all institutions establish the Four Funds and put substantial amount in each Fund, as per the prescribed mechanism from the institutions own funds but not from the project funds
- (iii) **Generation, retention and utilization of revenue generated through variety of activities:** In accordance with the eligibility criteria for States and Union Territories, all project institutions are to be permitted to generate, retain and utilize the entire revenue generated by them including income from tuition fee and other fees and charges from students. All project institutions are expected to increase revenue generation from a variety of activities such as conducting self-financing teaching and training programmes, testing services, consultancy and research, innovations, patents, commercialization of R&D outputs, sharing of high-tech equipment with Industries, public usage of infrastructure for academic activities, etc. (see Annex-I for details).
Institutions are to utilize the revenue for building up the four funds, development activities, offering incentives to faculty and staff, instituting awards and rewards for students, faculty and staff, etc. with approval from the BoG in accordance with rules developed in consonance with Government Guidelines, if any. These rules need to be in place in each institution within 2 years of joining the Project. Institutions are to periodically report increases in the IRG generated.
- (iv) **Filling-up existing teaching and staff vacancies:** Project institutions are to be authorized by States/UTs to fill-up all faculty vacancies on a regular basis (over and above the benchmark value). Till such time that these vacancies are filled-up on a regular basis, appointments on 11-month or longer contract need to be permitted by the States/UTs.

Where needed, the Board of Governors may recruit the desired faculty with incentives. The institutions should also make utmost efforts to fill staff vacancies.

- (v) **Delegation of decision-making powers to senior institutional functionaries with accountability:** Delegation of adequate powers to senior functionaries like Deans and HoDs with accountability is expected to help better implementation of institutional projects. The powers and responsibilities of the Director/Principal, Deans, HoDs, Professors and other senior faculty in the department, laboratory in-charges and other functionaries should be clearly spelt out in a decentralized administrative environment. Even junior faculty and staff should know their authority and responsibility for which they would be held accountable.

As a measure of financial reforms, adequate financial powers to the Director/Principal of the institution and other functionaries are to be delegated by the Board of Governors. All actions of the Director in connection with Continuing Education, consultancy, faculty development, seminars and conferences should be reported to Board of Governors.

(b) Student employability

- **increasing interaction with industry**

Industry-Institute-Interaction Cell (IIC) can be formed in the institution to promote links to benefit students and faculty and to promote collaborative interdisciplinary research for offering solutions to real life problems.

- (1) The key activity areas in which Industry can participate for the benefit of the institutions are:
- Participating in curriculum design, curriculum implementation, student assessment, training of students, exposing students to new technologies, and providing experts for certain instructional sessions;
 - Providing opportunities for student groups to undertake problem-solving projects;
 - Providing exposure to faculty on industrial practices and latest technologies;
 - Participating in such bodies as the Board of Governors, Academic Council, Boards of Studies, faculty recruitment, etc.;
 - Assisting institutions in establishing new laboratories, providing literature on new technologies, and offering their shop floors as substitutes for laboratories;
 - Training students, faculty and technical staff in new technologies and processes;
 - Collaborating in sandwich programme offerings;
 - Participating in joint R&D activities;
 - Delivering expert lectures;
 - Industry senior personnel serving as adjunct faculty;
 - Utilizing institutional resources (manpower and physical) for industrial manpower training;
 - Developing Postgraduate Education in areas of current and potential high demand; and
 - Providing assistance for improving employability including entrepreneurial training, specialized skill training, and training in softer skills required by Industry.
 - Conducting short term training programmes in collaboration with institutions.
 - Students' internship in Industry.

(2) The key areas in which academic institutions can benefit Industries:

- The existing expertise available with project institutions can be utilized by the Industries for technology assessment, up-gradation and absorption.
- Laboratories in the institutions, especially in select areas of excellence, can be shared with industries on agreed terms.
- Develop innovations, products and technologies which can be adopted by Industries.
- Faculty can be deputed to Industry for problem solving and for joint projects.

• **Student career counselling and placement**

The Career Counseling Cell of the institution shall provide placement assistance to the students in relevant industries/company and also help the students of the institutions in their career planning, preparation for selection tests, summer placement, internship and final placements.

The Career Counseling Cell shall be working on liaising with the senior executives of reputed industries/company for the development of the effective communication links with many prominent industrial and professional organizations.

The Career Counseling Cell shall be making all-out effort to match student's career aspirations with the requirements of the industries or organizations. Keeping in view the demand and preference of the various industries, the Cell shall also be looking for the development of the students. In this direction, various activities like Aptitude test, Group Discussion, Guest Lectures from corporate personalities shall be organized from time to time by the placement cell for the students.

- Program Implementation
- Consultation
- Classroom Instruction
- Assessment
- Career Information
- Counseling
- Placement
- Referral
- Outreach
- Follow-up
- Work Experience

c. increasing faculty productivity and motivation

- Sponsored research, consultancy and other revenue generating activities

The selected institutions are to promote increased participation of faculty in research, R&D projects and consultancy, for example through merit recognition and fiscal and career incentives. Institutions that already have Doctoral programmes should encourage Masters Students to join Doctoral programmes, as explained in the paragraph above. Institutions need to market their services to the industry. The industry should be encouraged to give live problems to the institution for solutions. The faculty who have expertise should be encouraged to take up consultancy assignments, which would directly

and indirectly benefit the institution, faculty and students. Internal Revenue Generation (IRG) should receive a boost, and some of the income should be shared with faculty, staff and students as per the norms approved by the Institute's Board of Governors (BoG). Regular interactions through consultancy are likely to promote a healthy and useful relationship between industries and institutions. Care should be taken that consultancy services offered to Industry do not affect the teaching schedules and processes. Institutions need to develop a strategy for enabling faculty to secure consultancy assignments and to complete them timely and successfully. The strategy in this regard is to be detailed in the IDP.

The institution is also expected to encourage UG and Masters students to get associated with Industry oriented/sponsored research programmes under the guidance of senior faculty. This is expected to increase their interest in higher education and research.

Institutions are also expected to offer "Seed grant" for research to faculty members and / or students to venture into innovative research and to strengthen research culture in institutions.

d. Establishing Twinning System: The twinning system will be based upon

- **Twinning Arrangements to Build Capacity and Improve Performance:**

The institutions under Sub-component 1.1 will make twinning arrangements with high-performing state-government engineering institutions (earlier participated in TEQIP-I & or TEQIP-II) selected under Sub-component 1.3. The primary objective of the twinning arrangements will be to support the priorities identified by Sub-component 1.1 institutes in their IDPs and Action Plans respectively. Sub-component 1.3 institutes will provide training and guidance to build the capacity of participating institutes. Twinning arrangements will be formalized through Twinning Agreements between the two institutes. The focus of these Agreements will be knowledge transfer, exchange of experience, optimizing the use of resources and developing long-term strategic partnerships. The exact nature of twinning activity would be determined mutually between the two institutes, but could include interactions at four levels: board of governors (BoG); institute's management/leadership; faculty and students. For instance, activities could entail faculty and student exchange, joint conferences, and management coaching with close contacts between the members of the two BoGs, the two principals, and the deans.

- **Individual Institutional Mentors for Sub-component 1.3 institutions :**

Mentoring is a strengthening mechanism by the third party at the institutional level. Mentors provide the institutions with clear guidance on reforms, implementations plans, and remedial actions to improve performance of the institutions. Mentors will be assigned to all project institutions to provide continuous guidance for Project implementation 2 to 3 times in a year based on institutional requirements. All expenses for mentoring will be met by the mentored institution. The Mentors will also act as the Performance Auditors at different Institutions and assess the progress made by individual Institutions. Kindly refer "Handbook for Mentors and Performance Auditors".

Note : The approving authority for these activities is BoG / Competent Authority of the institutions except few cases of procurement (including services) where World Bank's No objection is required. In addition, institution may also conduct other activities (not listed here) under the scope of the project and those fulfil the objectives of the project with the approval of BoG/Competent Authority of the institution.

EQUITY ACTION PLAN (INDIGENOUS PEOPLE'S POLICY FRAMEWORK)

1 Objective:

To ensure that all students and faculty in the project institutions have equal opportunity to avail the benefits of the Project with substantial improvement in the performance of students with special attention to the needy and ST and SC categories

2 Scope:

All project assisted institutions will be responsible for preparing and implementing the Equity Action Plan (EAP) as an integral part of project implementation for TEQIP-III.

3 Strategy:

Every institution faces a different challenge to improve academic performance. In addition to the caliber of students in an institution, its facilities, management, quality and efficiency of the teaching faculty, and measures to address students' felt needs including relating non-cognitive skills and behavioral issues have a bearing on student performance. The Project institutions are to make Equity Action Plans (EAP/IIPF) to improve learning outcomes for students and employability of graduates with special attention to the needy ones including those from the SC and ST categories. The project aims to ensure that all participating institutions improve the transition rate of First Year (enrolled) students to the Second Year (a key performance indicator of the project). Institutional targets are set for all students with special attention to socially and economically underprivileged groups including SC, ST, OBC and Women students. Achievement must be maintained during subsequent years so that high graduation rates are achieved by every institution. All Institutions should include Institutional EAP in their Institutional Development Proposals. The EAP should be a part of each Institution's MoU with the concerned project authorities.

The NPIU and the SPIUs will assess the efforts of project institutions in the implementation of the Equity Action Plan to ensure equity at all levels in the project institutions.

Measures for Improving Academic Performance of students: Institutions need to identify and support students who need extra support. Various criteria might be used to identify the students in need, including for example, those who fail more than 40 or 50 percent of their subjects in a given year, lose a year or more during their degree programme, or consistently get low marks. Some students may fail to secure employment at the end of their degree programme because of overall low performance or inadequate skills at the completion of the course. Some of the reasons for these weaknesses are: low entry level marks (i.e., inadequate preparedness for the rigorous engineering curriculum), irregular attendance of classes, low self-confidence, weak language skills in English, which is the medium of instruction or even in the main vernacular language. Generally it

is observed that that weaker students do not communicate their difficulties and do not seek help due to factors including low self-esteem or even self-inflicted stigma. In addition, students may not do well because of a number of institutional factors, including vacancies in faculty and technical staff positions, deficiencies in faculty teaching skills, lack of library facilities or restricted opening times, poor academic support, inadequate student support services, lack of effective monitoring of student performance, or regular feedback to students, inadequate hostel facilities, poor quality placement offices, etc.

Some possible interventions to improve the performance of students with special attention to the needy:

1. The participating institutions should strive to ensure that all students perform well academically and achieve their post-institution goals i.e. securing good jobs or entering post-graduate courses, according to their choice, suited to their capabilities, and in line with the education they have received. Institutions must also ensure that all the faculty be well trained in Pedagogy especially with regard to addressing the needs of weak students. Some possible interventions to improve the performance of weak students include the following.
2. **Diagnosing Student Weaknesses and Continuous Tracking of Performance** through academic screening on entry and steps to bridge the knowledge gaps in specific areas requiring attention. It is essential that such screening tests are professionally planned and executed, which could benefit from a number of commercially available test modules. In addition, institutions should ensure that tests are appropriate (some test assess academic achievement while others test learning skills and others yet test the psychological profile of students). Properly devised tests on entry and at the start of semesters can provide information about specific areas where a student needs help. Such tests can be particularly be helpful before 'tough' subjects begin each semester, and efforts can be made to strengthen classroom strategy and additional academic support by a student mentor, or faculty. The institutions will establish procedures and mechanisms to monitor the progress of students at various stages of the academic tenure. Reviewing student attendance in connection with performance and advising students to attend classes and make up missed classes will be emphasized.
3. **Improving Performance in Academic Subjects.** Students can be helped with **remedial classes** during semester hours or during vacations can be helpful. Additional classes can be held during institution hours when no classes are held but **teachers** are available to help students address their weaknesses. Extra inputs could be provided in more innovative ways such as: **tutorial classes** where students interact with each other and also with a faculty / PG student. The institutions will prepare and offer "**Bridge Courses**" for the students in need during the first year which could include extra classes, notes and guidance where teachers are available to students formally and informally. Institutions should also remember that having the same faculty simply re-teaching the same classes to the same students – without variation in approach or teaching methodology – is unlikely to be successful.
4. **Enhancing English and Communication and Presentation Skills.** One key factor affecting academic performance of students and employability of graduates is their inability to effectively communicate in the English language. The EAP/IPPF therefore

emphasizes taking measures to help students improve their proficiency in English. The strategy could include English language labs, tutorials for technical and everyday English, opportunities to make presentations in the classroom, etc. Language and soft-skills development should be provided throughout the degree programme and not only in the final semesters in preparation for job interviews. Interactive and confidence-building programmes should also be implemented.

5. ***Building Students' Non-cognitive Skills.*** Non cognitive attributes refer to academically and occupationally relevant skills and traits which may not be purely intellectual or analytical in nature. Non cognitive skills are personality and motivational habits and attitudes that aid academic and professional performance of students. Non cognitive traits, skills, and characteristics include perseverance, motivation, self-control, and other aspects of conscientiousness. Non cognitive skills deficit may accumulate over time and affect overall success in life. Non cognitive skills development can help in reversing or limiting delays or deficiencies in cognitive development and academic performance. The EAP could include conducting non-cognitive labs to help students understand and deal with their habits and traits accounting for their learning deficiencies and poor academic performance.
6. ***Promoting Peer Learning Groups and Fostering School Spirit.*** Certain institutions have established peer learning groups during TEQIP-II, which has benefitted students. Peer learning groups help students share their experiences and address their academic difficulties. Students often like to study in groups, and forming groups of 10-12 good and weak mixed students can be effective. They can revise lessons and undertake group projects also. Good students can help weak ones – the act of tutoring also helps good students.
7. ***Student Mentors and Faculty Advisers for Students'*** peer-to-peer mentorship and tutoring worked well in some institutions during TEQIP-II, since students feel comfortable with other students. Faculty mentors played an integral role in observing and monitoring student progress and serve as guides throughout students' higher education experience. Therefore, TEQIP-III will emphasize 'vertical' integration with senior students mentoring juniors and facilitating student-faculty interactions with faculty acting as resource person to the student groups. Faculty Advisers (FA) can be appointed to support Student Mentors aiding a group of 6-8 students entering the first year. The process can help establish a close relationship with fresh students, orienting them regarding institution practices and monitoring their progress through semesters. Students in all four years may need this guidance as different problems develop at different times. The relationship can be more informal than formal, allowing students to ask for help when they need it and share their problems without fear. The FA could identify any non-academic reasons for a student's weak or declining performance, and accordingly advise her/him on appropriate remedial measures. The FA can also mediate between a student and other faculty, if necessary, or seek help from an HOD, Dean, Principal, etc., and get in touch with parents when necessary. Faculty may be given some professional training in mentoring and counseling to play this role.

8. ***Better Scheduling Remedial Courses and Repeat Exams.*** An important difference that emerged between institutions in the Equity study that partly explains why some institutions have a large backlog of students in the final year is the timing of the repeat exams that can be taken by students who fail in several subjects. In the better situation, make-up exams are held within a month or so of the original exams, while in the other institutions they are held a semester or a year later. This has two important negative fall-outs – the students have a heavy load as they must take exams simultaneously for both the new semester's subjects as well as for the subjects they fail; and they cannot attend classes in the subjects they have failed as either the syllabi or the institution do not allow this. Thus, they do not get any additional teaching in the subjects in which they are weak unless they resort to coaching classes or other private means. This may in turn result in cumulative failures, leading some students to take six, seven or even more years to complete the four-year engineering course! In the better situation, on the other hand, remedial classes are provided by the institution during the month before the repeat exams, which is usually during vacation, and the combination of the additional teaching and exams immediately thereafter enables the students to go on to the next year without a burdensome backlog. A committee appointed by NPIU could help develop a Guidance Note on how to execute transition support plans.
9. ***Improving teacher effectiveness*** will require several measures including the following:
Updating Domain Knowledge to enable faculty members keep abreast of latest developments in domain knowledge. (ii) Training in Pedagogy will support teachers in select undergraduate institutions to undertake refresher training in pedagogy to enhance their effectiveness. (iii) Fostering Positive Teacher Behaviors will involve behavioral training to the teachers to enhance their self-understanding, improve their sensitivity, leadership and management skills. A third important area for improvement of teacher performance is their behavior toward students (especially weak ones). An important 'first resort' is to counsel teachers who show bad behaviors, help and guide them. Besides having a formal Counselor, Faculty Mentoring program could be introduced to help faculty members that are younger and may seek help. (iv) Faculty Appraisal can be undertaken with using self-assessment forms and under the oversight of the HOD, Deans, Faculty Committee, etc. It can usefully include student evaluations but also monitor content delivery in accordance with the course file (ref. Guidance brief).
10. ***Supporting Innovation and Knowledge Sharing:*** TEQIP-III will support the institutions of excellence to bi-annually organize innovation and knowledge sharing forums for the benefit of students and young researchers from surrounding institutions. These events will promote competition amongst institutions to show case innovations and enable students to share their learning experiences, facilitate interaction with industries and private/public R&D institutions and thus expose them to break through technologies.
11. ***Implementation Arrangements:*** Each participating institution will prepare and include the EAP/IPPF in the Institution Development Plan submitted for funding. There shall be institution level student-faculty committees to approve and monitor the implementation of the EAPs. The Dean, Students' Welfare will be generally the nodal officer responsible for implementing the EAP. The institutional arrangements will integrate professional capacity and expertise to plan and implement actions in fulfilment of the EAP/IPPF. The

NPIU, SPIUs and other project institutions will have a nodal officer responsible for monitoring and supporting the EAP implementation.

12. **Monitoring and Evaluation:** The EAP/IPPF implementation shall be monitored as a part of the overall project monitoring. TEQIP II has built a strong web-based MIS, which has helped in project monitoring and evaluation, specifically in using performance information to provide incentives to institutions. In TEQIP III, a special effort will be made to build on existing MIS systems wherever possible, and ensure the MIS is adapted to each institution's specific needs, allowing it to report on TEQIP III indicators as well as other indicators deemed useful for the institution's own internal decision-making. The MIS system will also be designed to generate the data on the students' performance with special attention to the vulnerable categories. In addition, the project will work with the AICTE, the NBA and ATUs to harmonize their reporting requirements, to further simplify the reporting process for institutions. A core database, linked to existing MIS systems at institutions will be created and maintained, with server access provided by the MHRD. For institutions without an MIS in place, a supplementing database will be created and linked to the core database. This will enable the MIS system to provide policy-makers, at national, state and institutional levels, a summary analysis of the collected data through an interactive, web-based application capable of generating reports for all TEQIP III indicators and providing the unit level data required for the computation of each indicator. The system will incorporate a series of validity checks to avoid spurious data entry. An IT firm will be hired for the development, installation, training, and capacity building for the TEQIP III MIS and databases. The MIS will be funded through Component 2. Training provided to M&E staff at the national, state and institutional levels will strengthen M&E capacity.

The Table below summarizes the EAP/IPPF Actions for the students and faculty.

Details of Equity Action Plan

S. No	Items	Actions	Implementation Agency	Frequency	Monitoring Indicators
(i)	To identify weaknesses in all students and take remedial steps	Institutions to plan and administer diagnostic tests at the beginning of each semester in order to identify the types of assistance required. Accordingly, institutions will execute bridge courses/remedial teaching (e.g. extra classes, tutorials to be conducted by other faculty) and other measures to bring all students to the required level of proficiency to cope with the main subjects	Project institutions	Diagnostic tests and plans completed at the beginning of each semester; remedial measures carried out continuously thereafter	Percent of students transiting from First to Second year with all first year courses passed

S. No	Items	Actions	Implementation Agency	Frequency	Monitoring Indicators
(ii)	To improve language competency, soft skills and confidence levels	The preparation of guidance tools for teachers to transact with students that are culturally or linguistically less exposed to professional technical education / by including English as part of the main syllabus	Project institution	Continuous	Better transition rates for first and second year students
(iii)	Institution to improve non-cognitive and soft skills including communication and presentation skills through their wide use in curricula / project based work, and where needed, to provide special skills training to students with priority to the weak students	To be decided by the institution. This could include special labs or workshops or sessions with external experts/ consultants	Project institutions	Continuous	Improvement in job placement of students, especially among those with disadvantaged backgrounds
(iv)	Give under-qualified teachers priority in opportunities to upgrade their domain knowledge	Institutions to identify needs and indicate in their Faculty Development Plan how they would build equity to upgrade faculty qualifications and skills	Project institutions and SPIUs	Yearly	Increase in the percentage of teachers enrolled in M. Tech. and Ph. D. reported yearly
(v)	Training of teachers in subject matter and pedagogy, particularly to improve the performance of weak students	Training Needs Analysis (TNA) to be carried out for all teachers in all project institutions by appropriately qualified/trained experts, especially to teach weak students	Project institutions and SPIUs	TNA to be done before the preparation of Institutional Development Proposals; reporting every six months and remedial actions on a continuous basis	Percent of planned training completed as reported/ aggregated 6 monthly
		All institutions to prepare Faculty Development Plan for the Project period (using identified providers for Pedagogy or National Training Calendar for subject training), giving priority to the teachers with the most significant gaps in knowledge and skills as diagnosed by the TNA	Project institutions and SPIUs		

S. No	Items	Actions	Implementation Agency	Frequency	Monitoring Indicators
		All teachers are to be covered by training in pedagogy including teaching of weak students, helping students with special needs achieve their learning goals, and an understanding of equity and equality, students' rights and entitlements, i.e. non-discriminatory practices	Project institutions and SPIUs		
		Domain training is to be done on the basis of need/ link up with industry to keep abreast of cutting edge technology	Project institutions and SPIUs		
		Institutions to report to the SPIUs on progress in training plan every 6 months (by name, department, individual characteristics (including SC/ST/OBC, M/F, age, years of service, level, degree qualifications), type and duration of training received, etc., and the SPIUs to send aggregated reports to the NPIU	Project institutions		
		Training providers to furnish training evaluation results (which indicate the extent to which the gaps in a trainee's knowledge or skills including teaching of weak students have been addressed) to Institutions and the SPIUs	Project institutions and SPIUs		
		In addition the Project would carry out Satisfaction Surveys to assess training achievements	Project institutions and SPIUs		
(vi)	Make campuses physically and socially gender-friendly; especially provide adequate and suitable facilities to women students and faculty	Institutions to specify in their IDPs what actions they would take to ensure a gender—friendly campus—both 'soft' actions, and minor civil works where necessary	Project institutions	At the time of IDP and actions implemented as proposed	Institutions to provide descriptive reports of actions taken including number of beneficiaries
(viii)	Hold innovation and Knowledge Sharing Workshops yearly to improve knowledge	The SPIUs and key Institutions to organize workshops with thematic focus	NPIU / SPIUs	Yearly	

S. No	Items	Actions	Implementation Agency	Frequency	Monitoring Indicators
	sharing				
(viii)	Sharing information and knowledge about engineering courses and institutions	By organising rural camps at the school level	SPIU / State Govt. Dept. dealing with secondary and technical education	Yearly	
(ix)	Provide appropriate infrastructure for physically challenged students	By providing ramps, lifts, toilets and hostel facilities	Project institutions	As required	
(x)	Special efforts for training/ internship/ placement of weak students	By greater networking with industry	Project institutions	Continuous	
(xi)	A two tier grievance redress mechanism (GRM)	Introduce, and publicise widely, a two tier GRM at the (i) institution; (ii) State level. In addition to a hotline (telephone), an email address would ensure anonymity.	Project Institutions and SPIUs	Continuous	
(xii)	Ensure that institutional mechanisms to protect and address the needs and concerns of women students are established.	Strengthen/ establish Gender Committees in each institution	Project Institutions/SPIUs	Continuous	
(xiii)	Develop a standard model for tracking of student progress *				
(xiv)	Peer Learning Groups of students	Develop Peer Learning Groups of students for joint study and joint projects (Senior student and faculty may be the resource person)	Project Institutions	Continuous	
(xv)	Appointing Student Mentors and Faculty Advisers for Students	Assigning Student mentors for 6-8 junior students and Appointing Faculty Advisers for 10-15 Students/student mentors. Faculty Advisors can guide the students and monitor their progress	Project Institutions	Continuous	

* Shall be developed by the experts (from IITs and NITs)

Indicative Category-wise Funding for Key Activities per Project Institution (Government Funded and Government Aided Institution) selected under Sub-component 1.3

S. No.	Key activities	Category of Expenditure (Head of expenditure)	Percentage (%)	Cost (Rs. in crore)
1	Procurement of Goods (equipment, furniture, books LRs, software and minor items) and civil works for improvement in teaching, training and learning facilities	Procurement	Up to 50%	3.50
2	Improvement in Teaching, Learning and Research competence' <ul style="list-style-type: none"> ▪ Improve student learning ▪ Student employability ▪ Increasing faculty productivity and motivation ▪ Establishing a twinning system <ul style="list-style-type: none"> ○ Twinning arrangements with institutions under Sub-component 1.1 to build capacity and improved performance ○ Individual institutional mentors 	Academic	At least 40%	2.80
3	Incremental Operating Cost	IOC	Up to 10%	0.70
TOTAL			100	7.00

Note:

- The Incremental Operating Cost means the costs of operation and maintenance of equipment, office expenses, hiring of vehicles, consumables, salaries and allowances of regular and contract faculty and staff against posts created under the Project. It will also include travel costs incurred for the Project Management activities i.e. visit to the NPIU, the SPIU, Universities, etc.
- Procurement of consultant services, if required, for the activities bulleted at Sr. No. 2 are permitted. The expenditure on procurement of consultant services is to be booked against the "Academic" head of expenditure. The services of consultant are to be procured by following the World Bank norms and procedures through the PMSS.
- Fund from Procurement and IOC Head of expenditure can also be re-appropriated to Head of expenditure for academic activities but not vice versa.

Annexure 2

To,
The Principal,
B.M.S College of Engineering,
Bengaluru - 19.

Date 23/3/2017

From,
Dr. Chandasree Das,
Associate Professor,
Dept of EEE,
BMSCE
Bengaluru- 19.


Sub: Permission for extension of equipment for consultation purpose.
Dear Sir,

It is to bring to your notice that in the Phase Change Memory Materials Lab, an instrument for sealing of quartz ampoule is available. As some colleges are approaching me to avail the facility, I seek your permission to extend the facility for consultation purpose. I have attached the cost estimation for sealing of one ampoule for your perusal.

Kindly do the needful and oblige.

Thanking You.


Yours Sincerely


(Dr. Chandasree Das)

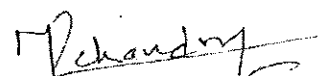
TO

concern

As per discussion with Dr. Ramechandra & Dr. S. Srinivas
along with Dr. Chandasree Das, it has been decided
to adopt the same procedure as it has followed
in CUE of BMSCE till further order


23/3/17

134


23/3/17
PND

Estimation for Sealing of one ampoule

Oxygen Cylinder

One oxygen cylinder = 50 ampoules

Cost of oxygen cylinder = Rs 1616

Cost of oxygen for sealing one ampoule = $1616/50 = \text{Rs } 32$

Power

Required power = 4 KWh

1 KWh = Rs 8.50

Power usage for sealing one ampoule = $4 \times 2 \times 8.50 = \text{Rs } 68$

Equipment

Cost of equipment = Rs 18 lakh

Depreciation @ 7.5% = Rs 1,35,000

Depreciation for 2 hours = $(135000 \times 2)/1536 = \text{Rs } 176$

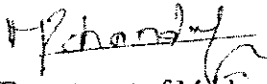


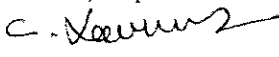
Human Resource

Salary for 26 days = Rs 18,000

Salary for 2 hours = $(18000 \times 2)/208 = \text{Rs } 173$

Total cost for sealing one ampoule = $\text{Rs}(32+68+176+173) = \text{Rs } 449 \approx 450 / \text{sample}$

Minutes of meeting held on 24/03/2017

1. An advisory committee has been formed to decide upon the fixing rate for sealing an ampoule under vacuum comprising the following members.
2. The detail estimation of cost on the basis of usage of oxygen cylinder, power, equipment and human resource has been done and the rate is fixed for sealing an ampoule as Rs 450/-. (Four hundred and fifty only). (Details are attached)
3. Approval of the committee members for fixing rate of sealing an ampoule using the facilities in Phase Change Memory Materials Lab has been taken.
4. All committee members have given their consent on this.
 - (i) Dr. M. Ramachandra. (CoE Coordinator & Professor, Department of Mechanical Engineering, BMSCE, Bangalore). 
 - (ii) Dr. S. Srinivas (Associate professor, Department of Mechanical Engineering, BMSCE, Bangalore, PI, CoE) 
 - (iii) Dr. Murugendrappa M V (Associate professor, Department of Physics, BMSCE, Bangalore, PI, CoE) 
 - (iv) Dr. C. Lakshminarayana (Professor & Head, Department of Electrical & Electronics Engineering, BMSCE, Bangalore) 

136

Submitted by


Dr. Chandasree Das

PI, CoE

Date: 04-04-2017

To,
The Principal
BMS College of Engineering,
Bengaluru

Through:
Professor and Head,
Department of Mechanical Engineering,
BMS College of Engineering,
Bengaluru

Forwarded

PROFESSOR & HEAD
Department of Mechanical Engineering
B.M.S. College of Engineering
BANGALORE - 560 011

Dear Sir,

Sub: Machining charges for Wire Cut EDM – Reg.,

As per Wire Cut EDM industries and the supplier of the Wire Cut EDM machine, the actual machining charges per hour is Rs 150/-. This includes Deionized water, electrical power, labor and wire electrode. Keeping the future maintenance and expenses on spares, the machining charges per hour can be kept at Rs 100/- for BMSCE students, Rs 200/- for outside students and Rs 300/- for industries. The emails received from the industries in this regard are enclosed for your reference. Hence we are requesting you to give permission to charge the above said amount for the usage of Wire cut EDM. Kindly do the needful.

Thanking you,

Yours' sincerely

G. Ugrasen *Dr. S. Srinivas*
Mr. Ugrasen G and Dr. S. Srinivas

Principal Investigators
BMSCE

137

Date: 04-04-2017

Submitted to:

Principal,
BMSCE,
Bengaluru-19

Dear sir,

Sub: Machining charges for wire cut EDM

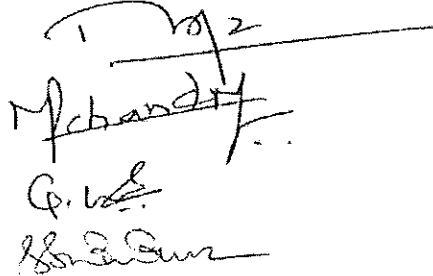
A meeting was conducted to fix the machining charges for Wire cut EDM today at 10:45am in MESH. The committee agreed to fix the amount as proposed by Mr. Ugrasen G and Dr S Srinivas. The per hour machining charges are Rs 100/- for BMSCE students, Rs 200/- for outside students and Rs 300/- for industries. This amount is fixed after discussing with supplier and other EDM industries.

This is for your kind information and approval.

Committee Members

1. Dr. L Ravikaumar, Prof. & Head
2. Dr. M Ramachandra, Coordinator, COE
3. Mr. Ugrasen G. Principal Investigator
4. Dr. S Srinivas, Co-investigator

Signature

The block contains four handwritten signatures corresponding to the committee members listed on the left. The first signature is for Dr. L Ravikaumar, the second for Dr. M Ramachandra, the third for Mr. Ugrasen G, and the fourth for Dr. S Srinivas.

Ind for needful
and approval

PP/L)

138

AADITYA
P R E C I S I O N

AADITYA PRECISION MOULDINGS PVT. LTD.

No. A-157/1, 3rd Cross, 1st Stage, Peenya Industrial Estate, Bangalore - 560 058.

Telephone : 080-41171317, 28376393, E-mail : apml@concordunited.com

Ref: APML-BMS

Date: 04.01.2017

To,
BMS College of Engineering
Basavanagudi
Bangalore

Kind attn: Prof. Ugrasen

Dear Sir,

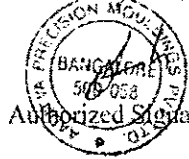
Sub: Quotation for wire-cut EDM job work

We thank you very much for your enquiry. We would like to inform you that we take up wire cut job work on hourly basis @ Rs.150 ~ Rs.180.00 and on Sq.mm basis @ Rs.0.10 ~ Rs.0.12 (depending on the volume).

Min. Charge is Rs. 250.00

Thanking you.

For Aaditya Precision Moulding Pvt. Ltd.



Authorized Signatory

139

CONCORD UNITED PRODUCTS PVT. LTD.

No. A-157, 3rd Cross, 1st Stage, Peenya Industrial Estate, Bangalore - 560 058.
Phone : 91-80-41171317, 28376393 Fax : 91-80-41171318
Email : info@concordunited.com Website : www.concordunited.com



Ref: CUPL/BMS/BLR

04.01.2017

To,
BMS College of Engineering
Bangalore

Kind attn: Mr. Ugrasen

Dear Sir,

Sub: Quote for wire cut EDM job work

With reference to our discussion, please note our wire cut job work prices are as below:

1. Hourly basis - Rs.150.00 per hour (Time calculation as per standard practice)
2. Sq.mm basis - Rs.0.10 per Sq. mm

Min. Charge is Rs. 150.00

This is for your kind information.

For Concord United Products Pvt. Ltd.

A handwritten signature in dark ink is written over a circular official stamp. The stamp contains text around its perimeter, including 'CONCORD UNITED PRODUCTS PVT. LTD.' and 'BANGALORE'.

Authorized Signatory

140