

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, at least 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.


D.R.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 (802-11a) a hardware platform to utilize TNws using wifi radio | M.N.Suma | 10150 |
| 2 | | Abhay Narasimha K S | | | |
| 3 | | Manesh N | | | |
| 4 | | Asif Ahmad | | | |
| 5 | | Ganesh Prabhu S | Prototyping a sign language translator | S.Lalitha | 10074 |
| 6 | | Ashmitha Vinod | | | |
| 7 | | Alkshatha Ashok | | | |
| 8 | | Geetha Bhat | Computer aided tongue diagnosis tool for ayurvedic practices | Dr.Manisha Joshi | 20000 |
| 9 | | Keerthana Rao | | | |
| 10 | | Megha Megharaj | 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 | Kalpana R | 12000 |
| 15 | | Muniraju Y S | | | |
| 16 | | Shwetha M | | | |
| 17 | | Civil Engineering | Dinakara S N | Modelling of environmental parameters in an Industrial suburb | Dr. M.C.Sampath Kumar |
| 18 | | Hemantha kumar P R | | | |
| 19 | | Manjesh B | | | |
| 20 | | Manjunatha B | | | |
| 21 | | Prashnath A | | | |
| 22 | | Afa Khan | Evaluation of marshall properties of polymer modified bituminous concrete mix with fillit replacement | Dr.K.Ganesh | 11000 |
| 23 | | Dikshiya Ghinire | | | |
| 24 | | Rukesh Manuru | Evaluation of marshall properties of polymer modified bituminous concrete mix with styeel slag gas filler replacement | Dr.K.Ganesh | 11000 |
| 25 | | Sonia Devi | | | |
| 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 | | Navveen K S | | | |
| 32 | | Amit C Joshi | Fabrication testing on repalcive based magnetic coupling | E Suresh | 26390 |
| 33 | | Anupa R Kamath | | | |
| 34 | | Karthick B N | | | |
| 35 | | Kiran K | | | |
| 36 | | Deepti B | | | |
| 37 | | Manju M B | Vibration analysis of think curved plates | Dr.Y.S.Rammohan | 25900 |
| 38 | | Nikhil K S | | | |
| 39 | | Nishanth D | | | |
| 40 | | Saivignesh K S | | | |
| 41 | | Narendra Pandit | | | |
| 42 | | Raghuandan A B | | | |
| 43 | | Rhythm Agarwal | | | |
| 44 | | Shyam chfekar | | | |
| 45 | | Sourabh Anur | Design & Fabrication of an all terrain wheel chair | G.Dilip Maruthi | 45600 |

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|--------------|--------------------------------------|---------------------|--|---------------------|------------------|
| 46 | Mechanical Engineering | Thagnatha S Prasad | Design and fabrication of automatic cloth folding machine | G.Karthick | 22000 |
| 47 | | Shilpa Vijayakumar | | | |
| 48 | | Priyanka S Hubli | | | |
| 49 | | Alekhyas Soruppu | | | |
| 50 | | Ajayya V | Segmented studies on urban driving cycle and traffic pattern | Dr.Rajeshwari Hegde | 27438.25 |
| 51 | | Niranjana M | | | |
| 52 | | Skanda R Patil | Smart metro rail system | Shreenivas B | 4075 |
| 53 | | Srivas M C | | | |
| 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 | | Dilam Sneha | | | |
| 59 | | Kunal Sakhuja | | | |
| 60 | | Tanya R Diwedi | Farmboat -automated forming robot using armil for self cultivation | Archana K | 17800 |
| 61 | | Kunal Gangal S | | | |
| 62 | | Meghana R | | | |
| 63 | | Prathibha G | | | |
| 64 | | Ramya D | Automatic billing system using Lr-f Module | Archana K | 13650 |
| 65 | | Suma N | | | |
| 66 | | Ranjitha K S | | | |
| 67 | Electrical & Electronics Engineering | Chinmayi Mohan | Discharge based gas cleaning with newly developed high voltage rotary spark gap switch | D.Ramesh Kumar | 59900 |
| 68 | | Deeksha H C | | | |
| 69 | | M Sheyamala | | | |
| 70 | | Priyanka Kalival | | | |
| 71 | Industrial Engineering & Management | Siddarth S Metri | Generation of electricity using piezo electric material | B. Ramesh Nayak | 20000 |
| 72 | | Ganesh M S | | | |
| 73 | | Anrudha C | | | |
| 74 | | Apporna N S | Design & development of rack system with exchangeable shelves | Dr. K. J. Rathnaraj | 15000 |
| 75 | | Krushika Konnur | | | |
| 76 | | Kanishka | | | |
| 77 | | Utpal N Sharma | Design & Fabrication of strider | B.Ramesh Nayak | 20000 |
| 78 | | Ganeshha Shetty | | | |
| 79 | | Varthasvi 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 axially 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 | Mruthyunjy Kadvyanaramath | 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 Chinamsey 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 | 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 celluloid 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 | Mahesh | 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 |

| | | | | | | |
|--------------|--------------------------------------|---|----------------------|--|-----------------------------|---------------|
| 18 | Civil Engineering | Construction Technology | Smitha Nagaraaj | A study on rheological properties a concrete fiber reinforced selfcompacting concrete | Dr.S.Girish | 8000 |
| 19 | Civil Engineering | Construction Technology | Rajashaker R Sobanad | Effect of partial replacement of cement by flyash, ricehusk ash with using polypropylene fiber in concrete | Dr.Arunkumar | 10000 |
| 20 | Civil Engineering | Construction Technology | Puneeth K | Strength and workability characteristics fiber reinforced self comacing concrete | Dr.S.Girish | 8000 |
| 21 | Civil Engineering | Construction Technology | Deepak K P | Travel Behaviour analysis | Dheeraj Kumar N , Parthan K | 7000 |
| 22 | Civil Engineering | Transportation Engineering & Management | Gururaj K | Travel Behaviour Modeling | Parthan K | 7000 |
| 23 | Civil Engineering | Transportation Engineering & Management | Veeresh Patil | Travel Behaviour analysis | Dheeraj Kumar N , Parthan K | 7000 |
| 24 | Civil Engineering | Environmental Engineering | Praveen Goudar | Study of feasibility of codigester of different waste | Dr.L.Udayasimha | 5000 |
| 25 | Civil Engineering | Transportation Engineering & Management | Sagar Dasare | Travel Behaviour analysis Modeling | Parthan K | 7000 |
| 26 | Electrical & Electronics Engineering | Power Electronics | Aneesha Mamachan | Power supply desihn for pump monitoring system used for smart energy management | Dr.P.Meena | 20600 |
| 27 | Civil Engineering | Construction Technology | Pariraj A C | SIFCON | Dr.Arunkumar | 8000 |
| TOTAL | | | | | | 232500 |

**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 | Averil 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 | | Harshitha Bhuvanendra | | | |
| 20 | | Kamsala Karthik | | | |
| 21 | Civil Engineering | Parichhed ghale gurlung | Laboratory investigation of subgrade soil using nanochemical as additives | Dheeraj Kumar N | 15000 |
| 22 | | shubhank singh | | | |
| 23 | | Shabir Ahmed Sankalap | | | |
| 24 | | Swami Terence Chirom | | | |
| 25 | Chemical Engineering & Chemistry | S Niranjan | Isolation and Optimization of Hca from garcinia species | Dr.Madhū G | 30000 |
| 26 | | Mohammed Rayaz | | | |
| 27 | | Mohammed Mustag Ali | | | |
| 28 | | Naman Verma | | | |
| 29 | Mechanical Engineering | Asarsh S Bhardwal | Study of leading edge protuberances for low speed horizontal axis wind turbines | Dr.V.S.Mudakappanavar | 40000 |
| 30 | | Ashish Kangeen | | | |
| 31 | | Abhijith Ambert paramanand | | | |
| 32 | | Brendan C D'SA | | | |
| 33 | Mechanical Engineering | Mandeep Singh | Desihn and fabrication of energy harvesting system | Rajesh P | 34350 |
| 34 | | Bharath Kumar S | | | |
| 35 | Mechanical Engineering | 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 | Armeen Sabi D S | Characterization and detection of toxin producing algal blooms in aquatic systems | Dr.Savitri Bhat | 21000 |
| 44 | | A T Neethi Darya | | | |
| 45 | | Poornima N Lakshmi | | | |
| 46 | | Meghana M R | Detection of cytokines by ftr 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 | Praphulla | 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 nattha reddy | 17510 |
| 56 | | Chetana P Jani | | | |
| 57 | | Nivedita Sharma | | | |
| 58 | | Saloni Jain | | | |
| 59 | | Jennifer Rithika 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 Keratanise 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 | Ashok Kumar S | 19991 |
| 64 | | Hamsanandhini | | | |
| 65 | | Yashaswini | | | |
| 66 | | Manasa K H | Isolation and purification of vica alkaloids from endophyte isolated from catharanthus roseus | Hadagali 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 | | Pavitra 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 Anjum | 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 Simha | 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 laya 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 tio ₂ 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 Maitra | 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 phenalkriline 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 geopolymer 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.Saakey 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 chalcones as an inhibitor of the hedgehog pathway with special reference to smo | BT | Dr.M.Rajyalakshmi | Professor | 100000 |
| 15 | Variation in expression of beta-amlyloid protein in SH-SY5Y | BT | Dr.Savithri Bhat | Associate Professor & HOD | 100000 |
| 16 | Isolation and Purification of vinca alkaloids from endophytes isolated from catharathans roseus | BT | Hadagali Ashoka | Assistant Professor | 100000 |
| 17 | Study on application of Ginsenoside phytosome nanoparticles for drug delivery system | BT | N Prathibha | 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@hotmai.com>

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>, "becteqipco@gmail.com" <becteqipco@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>, "kulkarnird67@gmail.com" <kulkarnird67@gmail.com>, "director@coep.ac.in" <director@coep.ac.in>, "gvp.mech@coep.ac.in" <gvp.mech@coep.ac.in>, "lmwaghmare@sggs.ac.in" <lmwaghmare@sggs.ac.in>, "lmwaghmare@yahoo.com" <lmwaghmare@yahoo.com>, "director@sggs.ac.in" <director@sggs.ac.in>, "director.walchand@gmail.com" <director.walchand@gmail.com>, "director@walchandsangli.ac.in" <director@walchandsangli.ac.in>, "teqip.coordinator.wce@gmail.com" <teqip.coordinator.wce@gmail.com>, "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>, "jayashreeanireddy@gmail.com" <jayashreeanireddy@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

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,



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

I. 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.

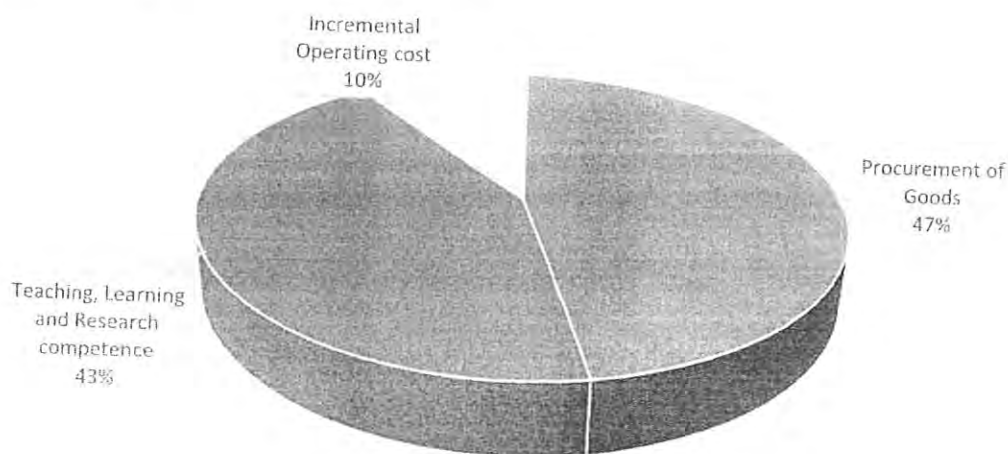
As a mentor institution, the IDP focus on the overall sustainable growth of mentee institution particularly in academic sector with emphasising on the activities such as training, industry collaborations and joint activities.

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
- Pentagram, 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.

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Annexure - 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

| SI 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.Chandrasekharendra 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/- |

