



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**CONTENTS**

Section	Subject	Page No.
<b>SECTION1: CONFIRMATION OF THE MINUTES &amp; ACTION TAKEN</b>		
<b>1</b>	1.1 Confirmation of the Minutes of the 69 <sup>th</sup> & 70 <sup>th</sup> meetings of BOG held on 23 <sup>rd</sup> April 2018 & 4 <sup>th</sup> May 2018	5
	1.2 To note the action taken on the decisions / resolutions of the 69 <sup>th</sup> & 70 <sup>th</sup> meetings of BOG held on 23 <sup>rd</sup> April 2018 & 4 <sup>th</sup> May 2018	5
<b>SECTION 2: INFORMATION ITEMS</b>		
<b>2</b>	2.1 Report of the Academic Activities of the College	5
	2.2 Report on status of Accreditation by NBA & NAAC	6
	2.3 Grant of approvals by VTU	7
	2.4 Report regarding complying with the Hon'ble Supreme Court order in Civil Appeal No.17869-870/2017	9
	2.5 Report on i3RC Times fifth Engineering Institute Rankings 2018	10
	2.6 Report on Stanford Research Report on SLA for BMSCE	10
	2.7 Report on Setting up of Student 'Test Practice Centers' (TPC) for National Testing Agency (NTA)	10
<b>SECTION 3: ITEMS FOR RATIFICATION</b>		
<b>3</b>	3.1 Report on faculty members pursuing PhD under QIP	11
	3.2 Appointments made to teaching positions	13
	3.3 Grant of higher Annual Grade Pay (AGP) under Career Advancement Scheme (CAS) to the faculty working under Grant-in-Aid	13
	3.4 Ratification and post facto approval of the appointment of Smt.N.Bharathi to the post of Assistant Librarian	14
	3.5 Report on extension of AICTE Scale of Pay (VI Pay) to the Faculty members appointed under Management on consolidated salary	15
	3.6 Report on extension of State Scale of Pay to the Non-Teaching staff members appointed under Management on consolidated salary	17
	3.7 Implementation of Revised State Scales of Pay (VI Pay)	18
	3.8 Implementation of Dearness Allowance for the faculty under AICTE Scales of Pay	18
	3.9 Implementation of Dearness Allowance for the Non-Teaching employees under State Scales of Pay	19



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

Section	Subject	Page No.
<b>SECTION 4: ITEMS FOR APPROVAL</b>		
<b>4</b>	4.1 Revised AICTE norms for faculty requirements and recommended cadre ratio for Engineering (Technical) Institutions 2018-19	20
	4.2 Consideration to revise the award of cash incentives for research publications in the referred National / International Journals by the faculty members	20
	4.3 Grant of Annual Grade Pay (AGP) under Career Advancement Scheme (CAS) to the faculty working under Management	21
	4.4 Report regarding non-completion of PhD by faculty	23
	4.5 Report on Smt.D.Sharadamma, FDA, Stores Section	24
	4.6 Observation by the Audit Team of the Office of the Directorate of Technical Education with regard to Maternity Leave	25
	4.7 Minutes of the 15 <sup>th</sup> meeting of the Academic Council held on 30.05.2018	25
	4.8 Minutes of the 3 <sup>rd</sup> Meeting of the Sub-Committee of BOG of TEQIP - III held on 27.07.2018	25
<b>SECTION 5: Any other subject/s with the permission of the Chair</b>		
<b>5</b>	5.1 Placement of TEQIP Co-ordinator	27
	5.2 Representation from Smt.P.V.Padmini and Smt.M.K.Shilpa working in the Office of the TEQIP, requesting to extend State Scale of Pay	28
	5.3 Consideration of Seed Money for incubates at CIIE	28
	5.4 Report on NAAC Accreditation	30
	5.5 Compliance to the Strategic Planning (2013 – 2020)	30
	5.6 Brief presentation by Placement Officer	30
Annexure-I	VTU letter with regard to Supreme Court Order	31
Annexure-II	Stanford Research Report on SLA	35
Annexure-III	Minutes of the 3 <sup>rd</sup> Meeting of the Sub-Committee of BOG for TEQIP - III	44
Annexure-IV	Strategic Plan	103

  
MEMBER SECRETARY



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**MEMBERS PRESENT:**

○ Dr.P.Dayananda Pai	Chairman
○ Dr.B.S.Ragini Narayan	Member
○ Dr.S.K.Shivkumar	Member
○ Dr.H.N.Suma	Member
○ Sri.M.Krishnaswamy	Member
○ Dr.C.N.Chandrappa	Member
○ Dr.B.V.Ravishankar	Member-Secretary

**INVITEES:**

- Dr.D.Thukaram
- Dr.K.Guruprasad
- Dr.Annamma Abraham
- Dr.H.S.Jagadeesh
- Sri.Gautham Kalathur
- Sri.Muralikrishna K Mysore
- Col. (Retd.,) K.V.N.Swamy
- Sri.Panchakshari
- Dr.Samita Maitra
- Dr.C.Lakshminarayana
- Dr.B.Kanmani

**LEAVE OF ABSENCE:**

- |                              |        |
|------------------------------|--------|
| ○ Col. (Retd.,) H.S.Shankar  | Member |
| ○ Sri.H.U.Talawar            | Member |
| ○ Prof.Shweta Shinoy Devaraj | Member |

The Chairman, BOG, extended a cordial welcome to all the Members & Invitees to the meeting. The Chairman also mentioned about the induction of new member Dr.S.K.Shivakumar, Trustee, BMSET and appointment/placement of Dr.B.V.Ravishankar as Principal (additional charge), BMSCE.

The Chairman requested the Member-Secretary to present the agenda.

*Ry*



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**  
**Minutes of 71st Meeting**

**October 29, 2018**

Before taking up the slated agenda, the Member-Secretary welcomed all the Board Members & Invitees and informed the following:

- The Donor Trustee & Chairperson, BMSET has reconstituted the Council of Trustees since the tenure of the Trustees is completed. In view of this, Padmashree Dr.S.K.Shivakumar, Former Director, ISRO and Trustee, BMSET has been nominated as member of the BOG of BMSCE in place of Sri.K.Jairaj, IAS (Retd). On behalf of the BOG, the Member-Secretary extended a cordial welcome to Dr.S.K.Shivakumar.

The BOG took note of the same and welcomed Dr.S.K.Shivakumar on the Board.

On behalf of the BOG, the Member-Secretary expressed sincere thanks and gratitude to Sri.K.Jairaj for his valuable guidance & advice provided for the overall development of the institution during his tenure as Member, BOG.

While noting the same, the BOG thanked Sri.K.Jairaj for his services and placed on record the contributions made for the overall development of the institution during his tenure as Member, BOG.

- The Member-Secretary apprised that the Council of Trustees, BMSET, at its meeting held on 16.08.2018 felt that the appointment of Principal should be tenure based as per the provisions of the UGC/AICTE guidelines with regard to tenure of Principal. The Council of Trustees noted that the present Principal, Dr.K.Mallikharjuna Babu was appointed as Principal, BMSCE in the year 2008 and has completed his tenure as per the UGC/AICTE guidelines. Accordingly, the Council of Trustees placed on record the good work done by Dr.K.Mallikharjuna Babu and offered the position as Director, B.M.S. University. Further, the Council of Trustees resolved to appoint/place Dr.B.V.Ravishankar, Professor, Department of Civil Engineering and Vice Principal as Principal (additional charge) until further orders. Accordingly, Dr.B.V.Ravishankar has assumed charge as Principal (additional charge) on the afternoon of 29<sup>th</sup> August 2018 vide OM Ref.No.BMS/BOG/2018-19 dated 29.08.2018.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

The Member-Secretary further apprised that Dr.K.Mallikharjuna Babu, Principal, has submitted representation on 04.09.2018 requesting for voluntary retirement from service w.e.f. 30.11.2018. Further, he has also requested for leave from 29.08.2018 onwards. Accordingly, he has been sanctioned leave and his request for Voluntary Retirement from Service has been accepted and forwarded to the DTE for approval.

The Board took note of the decision of the Council of Trustees, BMSET, at its meeting held on 16.08.2018 and the Board approved the appointment/placement of Dr.B.V.Ravishankar as Principal (additional charge) w.e.f. 29<sup>th</sup> August 2018 and congratulated Dr.B.V.Ravishankar.

The Board also noted and approved the request of Dr.K.Mallikharjuna Babu, Principal, for voluntary retirement from service w.e.f. 30.11.2018 and leave from 29.08.2018 onwards.

**Section 1: ITEMS FOR CONFIRMATION & ACTION TAKEN REPORT**

**1.1 CONFIRMATION OF THE MINUTES OF THE 69<sup>TH</sup> & 70<sup>TH</sup> MEETINGS OF BOG HELD ON 23<sup>RD</sup> APRIL 2018 AND 4<sup>TH</sup> MAY 2018**

The minutes of the 69<sup>th</sup> & 70<sup>th</sup> meetings of the Board of Governors (BOG) held on 23<sup>rd</sup> April 2018 and 4<sup>th</sup> May 2018 were confirmed.

**1.2 TO NOTE THE ACTION TAKEN ON THE DECISIONS/RESOLUTIONS OF THE 69<sup>TH</sup> & 70<sup>TH</sup> MEETINGS OF BOG HELD ON 23<sup>RD</sup> APRIL 2018 AND 4<sup>TH</sup> MAY 2018**

The Board noted the action taken on the decisions/resolutions of the 69<sup>th</sup> & 70<sup>th</sup> meetings of the BOG held on 23<sup>rd</sup> April 2018 and 4<sup>th</sup> May 2018.

**Section 2: INFORMATION ITEMS**

**2.1 REPORT OF THE ACADEMIC ACTIVITIES OF THE COLLEGE**

The Board noted that the monthly activity report of the College has been shared through email (during the second/third week of every month). The Board noted and appreciated.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**2.2 REPORT ON STATUS OF ACCREDITATION BY NBA & NAAC**

**2.2.1 NBA ACCREDITATION**

The Board took note of the communications dated 09.06.2018 & 11.06.2018 from the Member-Secretary regarding the status of NBA accreditation. The Member-Secretary apprised that overall 81% of the programmes offered in the institution are accredited by NBA. The Board noted the accreditation status of all the programs (listed below).

SNo	Prog.	Title of Programme	Intake	Accreditation Status	
				2018-19	Valid Upto
1	UG	Civil Engineering	180	Yes	30.06.2019
2	UG	Mechanical Engineering	180	Yes	31.12.2018
3	UG	Electronics & Communication Engg.	180	Yes	30.06.2023
4	UG	Industrial Engineering & Management	60	Yes	30.06.2019
5	UG	Telecommunication Engineering	60	Yes	30.06.2019
6	UG	Chemical Engineering	60	Yes	30.06.2019
7	UG	Electronics & Instrumentation Engg.	60	Yes	30.06.2020
8	UG	Bio-Technology	60	Yes	30.06.2020
9	UG	Computer Science & Engineering	120	Yes	30.06.2020
11	UG	Electrical & Electronics Engineering	60	Yes	30.06.2020
12	UG	Information Science & Engineering	120	Yes	30.06.2020
13	UG	Medical Electronics	60	Yes	30.06.2020
14	PG	Construction Technology	18	Yes	30.06.2022
15	PG	Power Electronics	18	Yes	30.06.2019
16	PG	Environmental Engineering	18	Yes	30.06.2019
17	PG	Computer Science & Engineering	18	Yes	30.06.2022
18	PG	Machine Design	18	Yes	30.06.2023
19	PG	Electronics	18	Yes	30.06.2020
20	PG	Computer Network Engineering	18	Yes	30.06.2020
21	PG	Digital Communication	18	Yes	30.06.2020
22	PG	Transportation Engineering	18	Yes	30.06.2020
23	PG	Biomedical Signal Processing & Inst.	18	Applied	
24	PG	Manufacturing Science & Engineering	24	Applied	
25	PG	VLSI & Embedded Systems	24	Applied	
26	PG	Master of Computer Application	60	Applied	
27	PG	Master of Business Administration	120	Applied	
28	PG	Bio-Chemical Engineering	18	Not Eligible	

Prog.	Total Number	Eligible	Not Eligible	Accredited	% of Programmes Accredited by NBA	Overall % of Programmes Currently accredited by NBA
UG	12	12	00	12	100%	81%
PG	15	14	01	09	65%	



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**2.2.2 NAAC ACCREDITATION**

The Member-Secretary apprised that the accreditation by National Assessment & Accreditation Council [NAAC] has been expired on 04.01.2018 and submission of Self-study Report (SSR) for next Cycle is under process. The Board noted the same.

**2.3 GRANT OF APPROVALS BY VTU**

**2.3.1 RECOGNITION / CONTINUATION (EXTENSION) OF RESEARCH CENTERS TO OFFER PhD/M.Sc. (ENGG.) BY RESEARCH**

The Board noted the communication dated 25.05.2018 from the Registrar, VTU granting recognition for continuation (extension) of Research Centre to offer PhD/M.Sc. (Engg.) by Research programs in the following Departments:

SNo	Departments	Period of Recognition
1	Electronics & Communication Engg.	2018-19 & 2019-20
2	Mechanical Engineering	
3	Electrical Engineering	
4	Civil Engineering	
5	Industrial Engineering & Management	
6	MBA	
7	Mathematics	
8	Biotechnology	
9	Information Science & Engineering	
10	Chemistry	
11	Telecommunication Engineering	

**2.3.2. PERMANENT AFFILIATION**

The Board took note that the term of the existing Permanently affiliated courses have been extended from the period of 5 years to 6 years adhering to the XI Plan UGC Guidelines as per VTU Affiliation Notification dated 21.07.2018.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

The Board also noted the status of affiliation of all the programmes (listed below).

SNo	UG/ PG	Programme	Present Affiliation Status & Period	
1	UG	Civil Engineering	Permanent	2013-14 to 2018-19
2	UG	Mechanical Engineering	Permanent	2013-14 to 2018-19
3	UG	Industrial Engineering & Management	Permanent	2013-14 to 2018-19
4	UG	Telecommunication Engineering	Permanent	2013-14 to 2018-19
5	UG	Chemical Engineering	Permanent	2013-14 to 2018-19
6	UG	Electronics & Communication Engg.	Permanent	2013-14 to 2018-19
7	UG	Electrical & Electronics Engineering	Permanent	2013-14 to 2018-19
8	UG	Computer Science & Engineering	Permanent	2013-14 to 2018-19
9	UG	Information Science & Engineering	Permanent	2013-14 to 2018-19
10	UG	Electronics & Instrumentation Engg.	Permanent	2013-14 to 2018-19
11	UG	Bio-Technology	Permanent	2013-14 to 2018-19
12	UG	B.Architecture	Permanent	2013-14 to 2018-19
13	PG	Construction Technology	Permanent	2013-14 to 2018-19
14	PG	Power Electronics	Permanent	2013-14 to 2018-19
15	PG	Computer Science & Engineering	Permanent	2013-14 to 2018-19
16	PG	Environmental Engineering	Permanent	2013-14 to 2018-19
17	PG	Machine Design	Permanent	2013-14 to 2018-19
18	PG	Transportation Engineering	Permanent	2013-14 to 2018-19
19	PG	Digital Communication	Permanent	2013-14 to 2018-19
20	PG	Electronics	Permanent	2013-14 to 2018-19
21	PG	Master of Computer Application	Permanent	2013-14 to 2018-19
22	PG	Master of Business Administration	Permanent	2013-14 to 2018-19
23	UG	Medical Electronics	Temporary	2018-19
24	PG	Computer Network Engineering	Temporary	2018-19
25	PG	Bio-Chemical Engineering	Temporary	2018-19
26	PG	Biomedical Signal Processing & Inst.	Temporary	2018-19
27	PG	VLSI & Embedded Systems	Temporary	2018-19
28	PG	Manufacturing Science & Engineering	Temporary	2018-19





**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**  
**Minutes of 71st Meeting**

**October 29, 2018**

**2.4 REPORT REGARDING COMPLYING WITH THE HON'BLE SUPREME COURT ORDER IN CIVIL APPEAL NO.17869-870/2017**

The Board took note of the communication dated 03.05.2018 from the Registrar, VTU that the Hon'ble Supreme Court by its order in Civil Appeal No.17869-870/2017 (arising out of SLP (C) No.19087-19808/2012) has suspended the Degrees i.e., Diploma / PG Diploma / Degree /M.E. / M.Tech in Engineering for the academic years 2001 to 2005 and Degrees obtained from the following Universities after 2005 are also recalled and cancelled.

1. JRN Rajasthan Vidyapeeth, Rajasthan
2. Institute of Advanced Studies in Education, Rajasthan
3. Allahabad Agricultural Research Institute, Allahabad
4. Vinayak Mission's Research Foundation, Salem, Tamil Nadu

The Board also noted that the Degrees obtained after 2005 by the faculty from the aforesaid Universities stands cancelled and would not meet the eligibility criteria as prescribed by AICTE.

The Member-Secretary apprised that based on the above mentioned Supreme Court Order and the VTU Executive Council resolution dated 20.03.2018, the Registrar, VTU directed all the Colleges to submit the details of such employees who have obtained degrees from the aforesaid Universities. Accordingly, the details of Dr.M.N.Mamatha, Associate Professor & HOD of Electronics & Instrumentation Engineering and Dr.K.Vijayalakshmi, Associate Professor, Department of Medical Electronics who have obtained Doctorate Degree from Vinayaka Mission's Research Foundation during 2012 and 2016 respectively has been sent to VTU (details listed at Annexure-I).

After detailed deliberations, the Board directed the Member-Secretary to forward the subject to the Council of Trustees.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**2.5 REPORT ON i3RC TIMES FIFTH ENGINEERING INSTITUTE RANKINGS 2018**

The Board took note that the i3RC Times conducts survey of India's best Engineering Colleges every year. The Board also noted that as per the i3RC Times Top 150 Engineering Institute Rankings 2018 (published in Times of India on 26.05.2018), BMSCE stands

- 14<sup>th</sup> among top 150 Engineering Institutes in India
- 6th among Top 100 Private Engineering Institutes in India
- 3rd in the South India
- 3rd among Top 50 Private Institutes for Placement, and
- 4th among Top Engineering Institutes on Research Capability

The Board congratulated the Principal and all the faculty members for their efforts in various activities which has enabled the institution in getting top rankings. The Board also directed the Member-Secretary to convey its appreciation to all the stakeholders.

**2.6 REPORT ON STANFORD RESEARCH REPORT ON SLA FOR BMSCE**

The Member-Secretary apprised that the Research Team from Stanford University conducted survey of 118 TEQIP-III Colleges offering CS/IS/EE/EC programmes on Student Learning Assessment (SLA). The Member-Secretary also apprised that the performance of the students of BMSCE is much above the Indian average. The Report is enclosed at Annexure-II. The Board noted the same.

**2.7 REPORT ON SETTING UP OF STUDENT 'TEST PRACTICE CENTERS' (TPC) FOR NATIONAL TESTING AGENCY (NTA)**

The Member-Secretary apprised that the Ministry of Human Resource Development (MHRD), Government of India has set up "National Testing Agency" (NTA), a premier testing organization to conduct computer based entrance examinations for higher educational institutions in order to bring in transparency and qualitative difference in competitive



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**  
**Minutes of 71st Meeting**

**October 29, 2018**

examination process. Initially, the NTA is planning to conduct JEE (Main) and NEET (UG) tests. The NTA is poised to establish a network of "Test Practice Centres" (TPC) for the students of rural areas and others to provide them an opportunity to practice before the exam. The MHRD has decided to engage all the AICTE approved institutions having 30 or more LAN/Wi-Fi connected PCs/Laptops at one location. The TPCs approved by the NTA will have to be kept open for student practice starting from 3<sup>rd</sup> week of August 2018 on free of charge.

The Member-Secretary also apprised that the Chairman, AICTE (letter dated 19.07.2018) has directed to extend cooperation for setting up of TPC in BMSCE and to designate a senior faculty as "Nodal Officer TPC" to look after the activities of TPC on regular basis. Accordingly, Dr.B.Ravishankar, Professor, Department of Industrial Engineering & Management and Placement Officer has been informed to look after the activities of TPC and an MOU has been signed with National Testing Agency. So far 62 students have been assigned and students are yet to report.

The Board noted the same.

**Section 3: ITEMS FOR RATIFICATION**

**3.1 REPORT ON FACULTY MEMBERS PURSUING PhD UNDER QIP**

- a) The Board ratified the deputation of the following faculty members working under Management Cadre to pursue PhD under Quality Improvement Programme (QIP) for the year 2018-19.

SNo	Name of the faculty / Designation	Department	Institution	Deputation Duration (three years)
1	Sri.Venkatesh Boddapati Asst. Prof.	Electrical	NIT, Trichy	02.07.2018 to 01.07.2021
2	Smt.Nirupama Mohan Asst. Prof.	Mechanical	IIT, Roorkee	03.07.2018 to 02.07.2021
3	Smt.Tejaswi Patil Asst. Prof.	MBA	IIT, Roorkee	04.07.2018 to 03.07.2021



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

SNo	Name of the faculty / Designation	Department	Institution	Deputation Duration (three years)
4	Smt.Praphulla Asst. Prof	Biotechnology	IIT, Madras	07.07.2018 to 06.07.2021
5	Sri.K.Sainath Asst. Prof	Chemical	IIT, Bombay	10.07.2018 to 09.07.2021
6	Smt.B.Prathima Assistant Professor	Civil	IISc., Bangalore	25.07.2018 to 24.07.2021

Further, the Board took note that currently five faculty members from ME-1/EC-2/CS-1/MAT-1 (excluding above faculty members) are under deputation.

b) The Board also noted that the following faculty members have been awarded/acquired PhD (May 2018 to September 2018).

SNo	Name of the faculty / Designation	Department	Institution	PhD Awarded
1	Dr.Bharathi V Assistant Professor	Mechanical	VTU, Belagavi	24.04.2018
2	Dr.Manjunath P.S. Assistant Professor	Telecommunication	Sri.Venkateshwara University, Tirupati	19.05.2018
3	Dr.Kalpana R Assistant Professor	Medical Electronics	Anna University	24.07.2018

c) The Board ratified the forwardal of the applications of the following faculty members to pursue PhD under QIP during the ensuing Academic Year 2019-20.

SNo	Name of the faculty	Designation	Department
1	Sri.Dilip Maruthi	Assistant Professor	Mechanical Engineering
2	Sri.Arjun C.C.		
3	Sri.Sreekanth N.V.		
4	Sri.Devaraj K		
5	Sri.Narendra Babu N		
6	Smt.Harshitha B		Electronics Engineering
7	Sri.Harish V Mekhali		Electronics & Instrumentation Engineering
8	Sri.Ajay Kumar Devarapalli		



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**3.2 APPOINTMENTS MADE TO TEACHING POSITIONS**

The Member-Secretary apprised that the Local Inquiry Committee of VTU has observed the shortfalls of faculty for M.Tech programmes offered in the Departments of Electronics Engineering, Computer Science and Chemical Engineering. In view of this, applications were invited through advertisement in dailies. The eligible candidates were called for interview and based on the recommendations of the Board of Appointments (BOA), the following candidates were issued appointment orders pending approval of the BOG.

SNo	Name	Post	Dept.	Remarks
1	Smt.Antara Roy Choudhury	Assistant Professor	CS	Reported
2	Dr.G.N.Rameshaiah	Professor	CH	Reported
3	Dr.C.T.Puttaswamy	Professor	CH	Reported
4	Dr.K.S.Vasundhara Patel	Professor	EC	Reported
5	Dr.K.P.Lakshmi	Professor	EC	Reported

The Board ratified the recommendations of the Board of Appointments (BOA) and approved the appointment of the above said candidates.

**3.3 GRANT OF HIGHER ANNUAL GRADE PAY (AGP) UNDER CAREER ADVANCEMENT SCHEME (CAS) TO THE FACULTY WORKING UNDER GRANT-IN-AID**

The Board ratified the implementation of grant of higher Annual Grade Pay (AGP) under Career Advancement Scheme (CAS) to the following faculty members working under Grant-in-Aid in accordance with the approval of the DTE (letters dated 23.05.2018, 06.07.2018, 17.07.2018 & 18.08.2018).

SNo	Name & Designation	Dept	Existing Pay Band	Sanctioned Pay Scale under CAS	W.E.F.
1	Dr.H.B.Nagaraj Associate Prof	CV	Rs.37400 - 67000 + AGP Rs.9000	Rs.37400 - 67000 + AGP Rs.10000	23.10.12
2	Dr.M.C.Sampath Kumar Associate Prof	CV			23.08.14
3	Dr.H.R.Bhagyalakshmi Associate Prof	EC			06.10.14



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

SNo	Name & Designation	Dept	Existing Pay Band	Sanctioned Pay Scale under CAS	W.E.F.
4	Dr.H.K.Rangavittal Associate Prof	ME	Rs.37400 - 67000 +	Rs.37400 - 67000 +	09.06.15
5	Dr.K.Padmavathi Associate Prof	EE	AGP Rs.9000	AGP Rs.10000	18.07.15
6	Sri.T.Rajanna Assistant Professor	CV	Rs.15600- 39100 + AGP Rs.6000	Rs.15600- 39100 + AGP Rs.7000	23.07.12
7	Smt.Shaila V Hegde Assistant Professor	EC	Rs.15600- 39100 + AGP Rs.8000	Rs.37400 - 67000 + AGP Rs.9000 Associate Prof.	28.07.13

**3.4 RATIFICATION AND POST FACTO APPROVAL OF THE APPOINTMENT OF SMT.N.BHARATHI TO THE POST OF ASSISTANT LIBRARIAN**

The Member-Secretary apprised that Smt.N.Bharathi was appointed as First Division Clerk (Lib) through Direct Recruitment during 1985 as per the staffing pattern of BDT Engineering College (which is applicable to all Aided Engineering Colleges). Further, one post of Assistant Librarian was sanctioned in State Scale of Pay with B.Lib Science or Diploma in Lib. Science qualification and one year professional experience vide DTE Order No.DTE PPP DVP (1) 83 dated 02.01.1984. Accordingly, Smt.N.Bharathi who was working as First Division Clerk (Lib) was shown against the post of Assistant Librarian in the Vacancy Register as she was possessing the said qualification and experience. The entries designating Smt.N.Bharathi as Assistant Librarian in the Vacancy Register have been certified by the then Principal and the DTE during 1986 and also the DTE has accorded approval vide letter No.DTE 106 EST(4) 90 dated 21.12.1992 as a special case on the condition that the said change shall be approved by the Management.

Further, the Member-Secretary apprised that the said matter was not placed before the Board during that time. In the recent auditing by the DTE Audit Team for the period from 2011 to 2017 have observed that the Management approval has not been obtained as per the condition laid down by the DTE with regard to the change of designation in respect of Smt.N.Bharathi. The



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**  
**Minutes of 71st Meeting**

**October 29, 2018**

auditors suggested to obtain post facto approval by the Management otherwise her retirement benefits cannot be settled.

The Member-Secretary also apprised that Smt.N.Bharathi has been superannuated from service on 31.07.2018. After detailed deliberations, the Board resolved to approve the designation of Smt.N.Bharathi as Assistant Librarian against the sanctioned one post of Assistant Librarian as per DTE Order No.DTE PPP DVP (1) 83 dated 02.01.1984 with retrospective effect i.e., 22.05.1985 in the State Scale of Pay.

**3.5 REPORT ON EXTENSION OF AICTE SCALE OF PAY (VI PAY) TO THE FACULTY MEMBERS APPOINTED UNDER MANAGEMENT ON CONSOLIDATED SALARY**

- a) The Board noted that the Council of Trustees, BMSET in its meeting held on 21.09.2011 resolved to extend revised AICTE Scale of Pay to the faculty members who are appointed on consolidated salary and who have completed more than one year of service in the College by following the regular recruitment procedure. The faculty members (listed below) have been interviewed and recommended by the Board of Appointments (BOA) to extend revised AICTE Scale of Pay except Sl.No.8 and Sl.No.9. The Board ratified the same.

SNo	Name & Designation	Department	Recommendations of BOA
1	Dr.DivijendraNath Reddy Associate Professor	Biotechnology	AICTE Pay Scale of Assoc. Prof.
2	Smt.Chaitanya L Assistant Professor	Electrical Engg.	AICTE Pay Scale of Asst. Prof.
3	Smt.Disha M Nayak Assistant Professor	Indl. Engg. & Mgmt.	AICTE Pay Scale of Asst. Prof.
4	Smt.Rekha G.S. Assistant Professor	Computer Science	AICTE Pay Scale of Asst. Prof.
5	Smt.Indra R Assistant Professor	Information Science	AICTE Pay Scale of Asst. Prof.
6	Sri.Soumen Panda Assistant Professor	Chemical Engg.	AICTE Pay Scale of Asst. Prof. (Rs.65,000)



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**  
**Minutes of 71st Meeting**

**October 29, 2018**

SNo	Name & Designation	Department	Recommendations of BOA
7	Smt.Sanjana T Assistant Professor	Electronics Engg.	AICTE Pay Scale of Asst. Prof.
8	Smt.Bhavana H.T. Academic Intern	Electronics Engg.	Re-designated as Asst. Prof. on consolidated pay of Rs.45,000/- PM
9	Smt.Pushpa K Academic Intern	Electronics Engg.	Re-designated as Asst. Prof. on consolidated pay of Rs.40,000/- PM
10	Sri.Praveen T Hunashikatti Assistant Professor	Mechanical Engg.	AICTE Pay Scale of Asst. Prof. (Rs.65,000)
11	Sri.RaghuYograj Assistant Professor	Mechanical Engg.	AICTE Pay Scale of Asst. Prof. (Rs.60,000)
12	Smt.Rashmi R Assistant Professor	Mechanical Engg.	AICTE Pay Scale of Asst. Prof.
13	Sri.Kiran Kumar K.U. Assistant Professor	Mechanical Engg.	AICTE Pay Scale of Asst. Prof.
14	Dr.Anil Chandra Assistant Professor	Mechanical Engg.	AICTE Pay Scale of Asst. Prof. (Rs.80,000) (one increment upto Rs.87000)
15	Dr.Sathisha H.M. Assistant Professor	Mechanical Engg.	AICTE Pay Scale of Asst. Prof. (Rs.73,000) (one increment upto Rs.80000)
16	Dr.Ravi L. Assistant Professor	Mechanical Engg.	AICTE Pay Scale of Asst. Prof. (Rs.65,000) (one increment upto Rs.80000)
17	Dr.Chaitra L Assistant Professor	Mathematics	AICTE Pay Scale of Asst. Prof. (Rs.65,000)

b) The Board ratified the extension of AICTE Scale of Pay (VI Pay) to the faculties listed below from the dates of their obtaining PhD Degree.

SNo	Name& Designation	Department	Date of entry into service
1	Dr.Venkatesh T Lamani Assistant Professor	Mechanical	25.10.2017
2	Dr.Suhas B.G. Assistant Professor	Mechanical	21.02.2018





**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**3.6 REPORT ON EXTENSION OF STATE SCALE OF PAY TO THE NON-TEACHING STAFF MEMBERS APPOINTED UNDER MANAGEMENT ON CONSOLIDATED SALARY**

The Board noted that the Council of Trustees, BMSET in its meeting held on 10.01.2014 resolved to extend State Scale of Pay to the staff members who are appointed on consolidated salary as and when they complete four years of service in the College by following the regular recruitment procedure. The staff members (listed below) have been interviewed and recommended by the Board of Appointment (BOA) to extend State Scale of Pay effective from their date of eligibility. The Board ratified the same.

SNo	Name& Designation	Department	Date of extending state scale of pay
1	Smt.Padma M Office Assistant	Mathematics	10.11.2016
2	Smt.Sreedevi P Office Assistant	R&D	05.11.2017
3	Smt.Shamala N Bhat Assistant Instructor	Telecommunication	06.03.2017
4	Smt.Yashashwini Assistant Instructor	Electronics	06.03.2017
5	Sri.Umesh R Assistant Instructor	Electronics	23.11.2016
6	Smt.Vanishree S Assistant Instructor	Biotechnology	28.10.2016
7	Sri.Mahesh K.B. Mechanic	Indl. Engg. & Mgmt.	28.10.2016
8	Sri.Anil Kumar S.V. Attender	R&D	08.02.2018
9	Smt.Ravi M Electrician	Building Section	01.04.2017
10	Sri.Yogesh N.S. Site Engineer	Building Section	01.10.2017
11	Sri.Subhas Site Engineer	Building Section	01.10.2017
12	Sri.Shrinidhi S Work Inspector	Building Section	01.10.2017
13	Sri.Manju R Attender	Office	01.10.2017



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**3.7 IMPLEMENTATION OF REVISED STATE SCALES OF PAY (VI PAY)**

The Board noted and ratified the approval of the Chairman, BOG and Donor Trustee & Chairperson, BMSET (29.08.2018) to extend the Revised State Scales of Pay (VI pay) to all the employees (both Aided and Management) in accordance with the GO No.FD 06 SRP 2018 dated 01.03.2018 and GO No.ED 90 DTE 2018 dated 21.08.2018. The Board also noted and approved that the pay has been fixed notionally w.e.f. 01.07.2017 with monetary benefit from 01.04.2018 and the amount incurred (shown below) towards implementation of Revised State Scales of Pay (VI pay).

SNo	Account Head	Number of Employees	Financial implication	
			Per Month	Per Year
1	Grant-in-Aid (15% Mgt. Share)	74	1,14,430	13,73,160
2	Management	180	13,65,963	1,63,91,556
Total		247	14,80,393	1,77,64,716

While on the subject, the Member-Secretary informed that BMSCE is the first college to implement Revised State Scales of Pay (VI pay) and conveyed the gratitude and thanks expressed by the non-teaching employees to the Board.

**3.8 IMPLEMENTATION OF DEARNESS ALLOWANCE FOR FACULTY UNDER AICTE SCALES OF PAY**

The Board noted and ratified the approval of the Chairman, BOG and Donor Trustee & Chairperson, BMSET on 14.08.2018 & 15.08.2018 respectively regarding the implementation of Dearness Allowance to the Teaching Staff members (both Aided and Management) who are on AICTE Scales of pay **from the existing 139% to 142%** of the basic pay w.e.f. 01.01.2018 (GO No.FD 11 SRP 2018 dated 23.06.2018).



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

The BOG also noted the total DA arrears of Rs.31,38,783/- was disbursed.

SNo	Account Head	Number of Employees	Difference Per Month	Arrears of DA Period from January 2018 to July 2018
1	Grant-in-Aid (15% Mgmt. Share)	71	1,68,685	11,80,799
2	Management	190	2,17,224	15,20,568
3	PG	47	62,488	4,37,416
TOTAL		308	4,48,397	31,38,783

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

The Board noted and ratified the approval of the Chairman, BOG and Donor Trustee & Chairperson, BMSET on 18.09.2018 and 22.09.2018 respectively regarding the implementation of Dearness Allowance to the non-teaching staff members (both Aided and Management) who are on Revised State Scale of Pay (VI Pay) at the rate of 1.75% of the basic pay w.e.f. 01.01.2018 (GO No.FD 12 SRP 2018 dated 18.06.2018).

The BOG also noted the total DA arrears of Rs.6,50,000/- was disbursed.

SINo	Account Head	Number of Employees	Difference Per Month	Arrears of DA Period from April 2018 to August 2018
1	Grant-in-Aid (15% Mgt. Share)	74	45,000	2,25,000
2	Management	163	75,000	3,75,000
3	P.G.	18	10,000	50,000
TOTAL		252	1,30,000	6,50,000



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**Section 4: ITEMS FOR APPROVAL**

**4.1 REVISED AICTE NORMS FOR FACULTY REQUIREMENTS AND RECOMMENDED CADRE RATIO FOR ENGINEERING (TECHNICAL) INSTITUTIONS 2018-19**

The Member-Secretary apprised that the All India Council for Technical Education (AICTE), New Delhi has approved few changes in the approval process 2018-19 for Engineering Colleges. As per the revised guidelines, the faculty requirements and recommended cadre ratio for UG-Engineering & Technology (B.E.) and programmes such as MBA and MCA has been revised from 1:15 to 1:20. The AICTE has also stated that "Downsizing the teaching faculty due to revision of faculty student ratio norms is not accepted in any case, and the ratio can only be adjusted on superannuation of faculty or resignation on their own".

The Member-Secretary further apprised that the VTU considers FSR 1:20 whereas NBA/NAAC authorities considers FSR 1:15 for according approval for a period of six years and hence it is proposed to continue FSR 1:15.

The Board approved the proposal and resolved to continue FSR 1:15.

**4.2 CONSIDERATION TO REVISE THE AWARD OF CASH INCENTIVES FOR RESEARCH PUBLICATIONS IN THE REFERRED INTERNATIONAL / NATIONAL JOURNALS BY THE FACULTY MEMBERS**

The Member-Secretary apprised that the BOG in its 55<sup>th</sup> meeting held on 07.04.2014 revised cash incentive for research publications by faculty in refereed journals (non-paid and having impact factor 0.5 and above) as noted below:

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

The Member-Secretary further apprised that it has been observed that many researchers who are working in the less cited areas like civil engineering, computational research, theoretical approaches etc., where journal impact



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

factor is low but quality of the journals are excellent and in such cases, the authors will get less incentive for high quality publications. The Journal citation reports have solved this problem by way of ranking the journal based on their quality rather than impact factor - Q1 means extremely high quality, Q2 mean high quality, Q3 means medium quality, Q4 means acceptable quality. All these papers are cited in Web of Science and Scopus. Hence, it is proposed to introduce the quality measure instead of impact factor and accordingly to revise the award of cash incentive as Q1, Q2, Q3 and Q4. The proposed quality-wise revision in the award of cash incentive is shown below:

SNo	Quality Range	Incentive
1	Q1	Rs.15,000
2	Q2	Rs.10,000
3	Q3	Rs.5,000
4	Q4	Rs.2,500

The Member-Secretary also apprised that the above proposal of introducing quality measure not only help us to check the institute performance and also the faculty members can be encouraged to publish in Q1 papers as much as possible which directly help for better NIRF ranking.

After detailed deliberations, the Board accepted the proposal and resolved to introduce the quality measure instead of impact factor for awarding cash incentive for research publications by faculty in refereed journals (non-paid). The Board also accepted the proposal to revise the award of cash incentive quality-wise and resolved to extend cash incentive quality-wise as mentioned above. The Board has also directed the Principal & Member-Secretary to initiate appropriate measures to enhance the quantity and quality of publications by the faculties.

**4.3 GRANT OF ANNUAL GRADE PAY (AGP) UNDER CAREER ADVANCEMENT SCHEME (CAS) TO THE FACULTY WORKING UNDER MANAGEMENT**

The Member-Secretary noted that the DTE has accorded approval for grant of higher Annual Grade Pay (AGP) under Career Advancement Scheme (CAS) in respect of faculty members working under Grant-in-Aid. The Board also

*[Handwritten signature]*



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

noted that it is proposed to extend the same to the faculty working under Management as per AICTE norms/guidelines and also rules/norms prescribed by the Management.

The Board approved the proposal and resolved to extend higher Annual Grade Pay (AGP) under Career Advancement Scheme (CAS) to the faculty members working under Management. The Board also resolved that in addition to the AICTE norms, the faculty should have put in 10 years of service in BMSCE as detailed below:

- To extend higher AGP of Rs.10,000/- to the faculty who have completed 10 years of service out of which 3 years of service in the AGP of Rs.9000/-
- To extend higher AGP of Rs.9,000/- to the faculty who have completed 10 years of service out of which 3 years of service in the AGP of Rs.8000/-
- To extend higher AGP of Rs.8,000/- to the faculty who have completed 10 years of service out of which 5 years of service in the AGP of Rs.7000/-
- To extend AGP of Rs.7,000/- to the faculty who have completed 10 years of service

The Board also noted the financial implication (shown below) towards implementation of the above said benefit.

SNo	Higher AGP	Number of Employees	Higher AGP with 3% increment & Approximate financial implication	
			Per Month	Per Year
1	Rs.10,000/-	30	2,19,811	26,37,732
2	Rs.9,000/-	11	65,484	7,85,808
3	Rs.8,000/-	27	1,41,212	16,94,544
4	Rs.7,000/-	29	1,50,430	18,05,160
TOTAL		97	5,76,937	69,23,244



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**  
**Minutes of 71st Meeting**

**October 29, 2018**

**4.4 REPORT REGARDING NON-COMPLETION OF PhD BY FACULTY**

The Member-Secretary apprised that the faculty members working under Grant-in-Aid and Management are being deputed to pursue PhD under QIP for a period of three years as per Government regulations/rules and Management norms respectively. The following faculty members were deputed for a period of 3 years and have reported after completion of deputation period of three years but yet to submit their thesis.

SNo	Name & Designation	Dept	University	Date of Deputation	Date of reporting to duty after deputation	No. of completed years from date of reporting to duty after deputation
<b>Grant-in-Aid</b>						
1	Sri.Ramesh K.T. Assistant Prof.	IM	IIT Kharagpur	16.07.2011	16.07.2014	4 Yrs.
2	Sri.Prakash H.R. Assistant Prof.	ME	IIT Kharagpur	06.07.2013	13.07.2016	2 Yrs.
3	Smt.Latha H.N. Assistant Prof.	EC	IIT Kharagpur	07.07.2014	10.07.2017	1 Yr.
4	Smt.Umavathi M Assistant Prof.	EE	Anna University	03.07.2014	04.07.2017	1 Yr.
5	Sri.Sudarshan B Assistant Prof.	ME	IISc., Bangalore	14.07.2015	14.07.2018	Recently Reported*
<b>Management</b>						
1	Sri.Shirasappa Y Pattar Associate Prof.	ML	IISc., Bangalore	01.08.2008	01.08.2011	7 Yrs.
2	Sri.Ashok Kumar S Assistant Prof.	BT	IIT, Madras	21.07.2010	24.07.2013	5 Yrs.
3	Sri.Satish S Assistant Prof.	AT	IIT, Guwahati	18.07.2011	22.07.2014	4 Yrs.
4	Sri.Chandra Prasad Assistant Prof.	BT	IIT, Madras	14.07.2012	16.07.2015	3 Yrs.
5	Sri.Balachandra K Assistant Prof.	TE	IISc., Bangalore	01.08.2013	01.08.2016	2Yrs

\*Sri.Sudarshan has requested to extend his deputation period for a further period of one year. Proposal has been sent to the DTE

The Member-Secretary also apprised that if the faculty working under Grant-in-Aid deputed to pursue PhD fails to complete the studies, the faculty on

*[Signature]*





**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

deputation and the surety shall be jointly and severely liable for the repayment of full amount of expenditure incurred to the Government on the account of deputation with such interest thereon not exceeding ten percent per annum as the Government may, at their option, fix and demand whereas action is yet to be initiated in respect of faculty working under Management.

After detailed deliberations, the Board approved to initiate action and resolved to recover the expenditure incurred to the Management on account of deputation.

**4.5 REPORT ON SMT.D.SHARADAMMA, FDA, STORES SECTION**

The Member-Secretary apprised that Smt.D.Sharadamma, First Division Assistant & Incharge Superintendent, Stores Section was suspended for her misbehavior and misconduct on 25.08.2014 in the Principal's Chamber and disciplinary enquiry proceedings was commenced from 11.02.2015. Further, the Board decided to impose the penalty of removal from service on Smt.D.Sharadamma by following necessary procedures and approval from the DTE in this regard and accordingly proposal seeking approval for removal from service was sent to the DTE vide letter dated 02.05.2016. In the meantime, Smt.D.Sharadamma tendered her resignation letter dated 30.06.2016 to accept her voluntary resignation to her post leaving the date of acceptance of her resignation to the institution. The Board in its 63<sup>rd</sup> meeting held on 04.08.2016 accepted the resignation of Smt.D.Sharadamma with immediate effect i.e., 04.08.2016 and directed to inform the DTE accordingly.

The Member-Secretary also apprised that the Office of the DTE in their letter dated 14.08.2018 has informed that it is not permissible as per rules to accord approval to accept the resignation of Smt.D.Sharadamma w.e.f. 04.08.2016 in view of disciplinary action already initiated against her and hence to resubmit the proposal to the DTE for approval to remove her from service as recommended by the Board in its 61<sup>st</sup> meeting held on 23.11.2015 prior to acceptance of her resignation by the Board in its meeting held on 04.08.2016.

The Board directed the Member-Secretary to forward the subject to the Council of Trustees.





**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**4.6 OBSERVATION BY THE AUDIT TEAM OF THE OFFICE OF THE  
DIRECTORATE OF TECHNICAL EDUCATION WITH REGARD TO  
MATERNITY LEAVE**

The Board noted that in its 63<sup>rd</sup> meeting held on 04.08.2016 resolved to enhance the period of Maternity Leave from 135 days to 180 days to the female employees working under GIA & Management. In the recent auditing by the DTE Audit Team for the period from 2011 to 2017 have observed that enhancement of Maternity Leave from 135 days to 180 days to the female employees has not yet extended to the Government Aided institutions. The Board also noted that Maternity leave of 180 days has not been availed by the GIA staff but same has been sanctioned to six staff members working under Management.

After detailed deliberations, the Board resolved to reduce the Maternity leave from 180 days to 135 days till the said benefit is extended to Government Aided institutions. The Board also resolved not to debit the excess Maternity leave of 45 days sanctioned since they have already availed.

**4.7 MINUTES OF THE 15<sup>TH</sup> MEETING OF THE ACADEMIC COUNCIL HELD  
ON 30.05.2018**

The Board approved the minutes of the 15<sup>th</sup> meeting of the Academic Council held on 30.05.2018.

**4.8 MINUTES OF THE 3<sup>RD</sup> MEETING OF THE SUB-COMMITTEE OF BOG OF  
TEQIP - III HELD ON 27.07.2018**

The TEQIP Nodal Officer (Academic) presented a brief report on the activities of TEQIP-III along with component wise details of amount sanctioned and expenditure incurred. The Nodal Officer (Academic) also apprised that the activities and other related matters were placed before the sub-committee of BOG for TEQIP-III in the 3<sup>rd</sup> meeting held on 27.07.2018 for detail discussion and approval.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

The following are the items discussed and recommended by the sub-committee of BOG for TEQIP-III.

<b>Information Items</b>	<b>Ratification &amp; Approval Items</b>
Ratification of Minutes of 2 <sup>nd</sup> meeting of sub-committee of BOG	Action Plan
Appointment of National Project Director	Status of Expenditure
Modifications in the application for international travel under TEQIP	Award of Research Assistantship
New location of NPIU Office	Fiscal incentive / Financial Assistant to UG/PG students' project under TEQIP III
Information about implementation of AICTE Mandates	Availing services of single vendor for providing vehicles towards industrial visit etc
Student, Faculty, Staff satisfaction survey 2018	Annual increment for TEQIP Office Staff
Performance Auditing and Mentoring of the project institutes	Good Governance Development Plan
Quarterly activity progress of Startup Cells established in Institutions	Procurement under TEQIP III
Hiring of services for employability skills training and GATE training	Conduction of International Conference (ICNEWS 2018)
Expert name for NBA guidance	Conduction of Induction program for students
BOG meetings information	Audit of TEQIP III accounts
Financial Management indicators for the period from 01.04.2017 to 31.03.2018	Deputation of faculty to WOSA 2018
Video feedback from the institutes on TEQIP III implementation	Nomination of Environmental Coordinator
MIS training program	Approval to the faculty/students for attending programs & conduction of programs
Wi Fi services/facility in the project institution	Financial assistance to faculty members for those registered for PhD
Formulating the policy of assessment of internship of students	Patenting the research product/work
Performance Management System for faculty of TEQIP institutions	Financial assistant to Research Scholars of the college towards consumables etc



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**  
**Minutes of 71st Meeting**

**October 29, 2018**

<b>Information Items</b>	<b>Ratification &amp; Approval Items</b>
Implementation of AICTE Examination Reforms	Conduction of various activities
Action Plan for implementation of AICTE model curriculum	Training programme on Financial Management and PFMS
Fund allocation for institutions under sub-component 1.3	Conduction of Phase Shift 2018
Establishment of SPIU, Karnataka	
Student Learning Assessment Survey	

The Board noted all the activities discussed/recommended/approved by the sub-committee of BOG for TEQIP-III. The Board approved/ratified the minutes (enclosed at Annexure-III) of the 3<sup>rd</sup> meeting of the sub-committee of BOG for TEQIP-III held on 27.07.2018.

**Section 5: ANY OTHER ITEMS**

**ANY OTHER SUBJECT/S WITH THE PERMISSION OF THE CHAIR**

**5.1 PLACEMENT OF TEQIP CO-ORDINATOR**

The Member-Secretary apprised that Dr.B.V.Ravishankar, Professor, Department of Civil Engineering, Vice Principal and TEQIP Co-ordinator has been appointed/placed as Principal (additional charge) w.e.f. 29.08.2018 and hence it is proposed to place Dr.L.Ravi Kumar, Professor, Department of Mechanical Engineering and presently TEQIP Nodal Officer (Academic) as TEQIP Coordinator.

The Board approved the proposal and resolved to place Dr.L.Ravi Kumar, Professor, Department of Mechanical Engineering and presently TEQIP Nodal Officer (Academic) as TEQIP Coordinator.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19  
BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**5.2 REPRESENTATION FROM SMT.P.V.PADMINI AND SMT.M.K.SHILPA  
WORKING IN THE OFFICE OF THE TEQIP, REQUESTING TO EXTEND  
STATE SCALE OF PAY**

The Member-Secretary apprised that Smt.P.V.Padmini, MIS Data Entry Operator and Smt.M.K.Shilpa, Office Assistant are working since 2013 in the Office of the TEQIP on consolidated salary and their services are being continued by enhancing their salary by 10% every year. They have submitted representation requesting to extend State Scale of Pay as is being extended to the Non-teaching staff working in the College under Management.

The Board approved and resolved to extend State Scale of Pay to Smt.P.V.Padmini, MIS Data Entry Operator and Smt.M.K.Shilpa, Office Assistant working in the Office of the TEQIP as is being extended to the Non-teaching staff working in the College under Management.

**5.3 CONSIDERATION OF SEED MONEY FOR INCUBATES AT CIIE**

The Member-Secretary requested Dr.H.N.Suma, Professor, Department of Medical Electronics and incharge of the Centre for Innovation Incubation and Entrepreneurship (CIIE) to present the activities.

Dr.Suma presented that the Centre for Innovation Incubation and Entrepreneurship (CIIE) was established during 2017 (11.01.2017) so as to enable the faculty and students to participate and provide professional services to the start-up and also to raise consultancy. The CIIE started BMSCE Startup Week sponsored by TEQIP-III. As an outcome, 5 start-up groups were given seed money of Rs.50,000/- each and three are in the process of registering their own company.

**5.3.1 Seed money for Incubates at CIIE:**

Dr.Suma presented that there is need of seed money for incubates at CIIE for fostering their ideas which inculcates start-up culture amongst student & faculty and also provides research & Entrepreneurship. Hence it is proposed to give seed money of Rs.25,000/- to each incubate limiting to 20 (Rs.5,00,000/-) per annum.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**5.3.2 Initiate product development forum through industry sponsored propel labs**

Dr.Suma presented that it is proposed to initiate product development forum through industry sponsored propel labs with the following objectives:

- In-house product development opportunity with industry backup.
- Community based projects to contribute devices which improve the wellbeing of the society.
- Internships for students by the industry which would involve live project implementation by students.
- Exposure to students about the work patterns and mode of work of the industry.
- Improve the technical infrastructure of the college in consultation with industry in tune with latest technological development.

Dr.Suma also presented that initial discussions have already been held with the following industries:

- DHP &Renalyx for Intelligent Imaging systems, Autonomous systems, Point of care systems and Nanomaterial
- ARM, MediaTek, TES, NGX, ALS, Nuvoton, nanopix, e-yantra, Nuetch for Robotics and Embedded Systems
- Hasoft for Innovative Power systems
- Autobot India for Electric car
- MECPower Solutions Pvt. Ltd. For Solar Power systems
- Power Grids for MECPower Solutions Pvt. Ltd.

The Board noted the activities of CIIE. After detailed deliberations, the Board resolved to constitute a Committee to select multidisciplinary representatives from all the departments. The Board also approved and resolved to give seed money of Rs.50,000/- each for five groups/members from the Management.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**BOARD OF GOVERNORS (BOG)**

**Minutes of 71st Meeting**

**October 29, 2018**

**5.4 REPORT ON NAAC ACCREDITATION**

The Member-Secretary apprised that BMSCE has been accredited by National Assessment & Accreditation Council [NAAC] with CGPA of 3.41 on four point scale with 'A' grade valid from 05.01.2013 upto 04.01.2018. The accreditation process for the first time is referred to as Cycle 1 and the consecutive five year periods as Cycles 2, 3, etc.

The Member-Secretary also apprised that the process of preparation of IIQA/Extended Profile towards NAAC (Cycle-2) Accreditation along with necessary attachments has been completed with the co-operation and support of all the stakeholders. After the acceptance of IIQA, the institution will be asked to fill the SSR with the required document to be uploaded in the portal of NAAC website. The institution is proposing to submit its application (IIQA/Extended Profile along with all necessary documents/attachments) towards Cycle-II Accreditation from NAAC on 31.10.2018.

The Board noted the same.

**5.5 COMPLIANCE TO THE STRATEGIC PLANNING (2013 – 2020)**

The Member-Secretary apprised the Board that long term goals and short term goals were adopted in the Strategic Planning both at the department and institute levels. The Member-Secretary presented the Compliance to the Strategic Planning for the period from 01.07.2017 till date (2013-2020) (shown at Annexure-IV). The Board noted the progress towards the implementation of Strategic plan and expressed its satisfaction.

**5.6 BRIEF PRESENTATION BY PLACEMENT OFFICER**

The Placement Officer presented the status of Placement activities. The Board directed the Placement Officer to present the status of placement activities in detail along with the Assistant Placement Officer. The Board also directed to submit the hard copy of the presentation in advance.

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

  
MEMBER SECRETARY

  
CHAIRMAN



# BMS COLLEGE OF ENGINEERING

Autonomous Institute Affiliated to VTU, Bengaluru

Ref: BMS 17 EST (U) 2018

Date: 28.05.2018

To,

*Annexure-I*

The Registrar  
Visvesvaraya Technological University  
Jnana Sangam  
Belgavi - 590 018  
Karnataka State

Sir,

Sub: Complying with the Hon'ble Supreme Court order  
in Civil Appeal No. 17869-870/2017 reg.

Ref:1. VTU circular No. VTU/BGM/Aca-OS/Apex Court  
order/2018-19/1042 dated: 03.05.2018

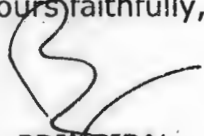
2. This office letter No. BMS 17 EST (U) 2018 dtd: 10.05.2018

Greetings from BMS College of Engineering, Bengaluru

With reference to the above, the details of the faculties who have obtained degrees from the universities referred in the VTU circular dtd: 03.05.2018 has already been submitted in this office letter dated 10.05.2018 referred above. However a copy of the details already furnished in the prescribed format is once again enclosed herewith for your consideration.

Thanking you,

Yours faithfully,

  
PRINCIPAL

Enclosure: Desired formats


*PS*  
*Call place it in Not Box*  
031

...28)



**BMS COLLEGE OF ENGINEERING**  
Bull Temple Road, Bengaluru - 560 019

Sl No	Name of the employee/staff	Name of University (only listed in Apex court order Civil appeal 17869 - 870/2017)	Degree obtained	Year of registration	Year of award	Registered for Exam during June/July to be jointly conducted by AICTE & UGC as per Apex Court order		Length of service in the college	Whether guiding VTU Research scholars. Give completed details as per table 2 & 3
						Yes	No		
1	Dr. Mamatha M N	Vinayaka Mission's Research Foundation, Salem, Tamil Nadu	PhD	2008	2012	Not applicable for PhD candidates		23 Years	Yes
2	Dr. Vijayalakshmi K	Vinayaka Mission's Research Foundation, Salem, Tamil Nadu	PhD	2008	2016			22 Years	Yes

  
Principal  
B.M.S. College of Engineering  
(Autonomous College under VTU)  
Bangalore - 560 019

032

29)





**BMS COLLEGE OF ENGINEERING**  
Bull Temple Road, Bengaluru - 560 019

Sl No	Name of the employee/staff	Name of the VTU Research Scholar	MSc (Engg) by Research	PhD	Status of Research
1	Dr. Mamatha M N	Vani A	--	PhD	Admission in Mar 2014 Course work completed
2	Dr. Vijayalakshmi K	Aishwarya S	--	PhD	Admission in Jan 2018

Date: 11.05.2018

SIGNATURE

(Dr. K Mallikharjuna Babu)

Principal

B.M.S. College of Engineering

(Autonomous College under VTU)

Bangalore - 560 019

033

30



# Visvesvaraya Technological University

"Jnana Sangama"

Belagavi - 590-018, Karnataka State

Dr. H.N. Jagannatha Reddy B.E., M.E., Ph.D.  
REGISTRAR

Phone : (0831) 2498100

Fax : (0831) 2405467

Ref: VTU/BGM/Aca-OS/Apex Court order/2018-19/1042

Date : 3 MAY 2018

## CIRCULAR

Sub: Complying with the Hon'ble Supreme Court order in  
Civil Appeal No. 17869-870/2017 - reg..

Ref: 1. Hon'ble Supreme Court order in Civil Appeal No. 17869-870/2017  
2. VTU's Executive Council Resolution 8.2. dt: 20.3.2018 (139<sup>th</sup> meeting)

The Hon'ble Supreme Court by its order in Civil Appeal No. 17869-870/2017 (arising out of SLP (C) No. 19807-19808/2012) has suspended the Degrees i.e Diploma/PG Diploma/ Degree/ M.E./M.Tech. in Engineering for the academic years 2001 to 2005 and Degrees obtained from the following Universities after 2005 are also recalled and cancelled.

1. JRN Rajasthan Vidyapeeth, Rajasthan
2. Institute of Advanced Studies in Education, Rajasthan
3. Allahabad Agricultural Research Institute, Allahabad
4. Vinayak Mission's Research Foundation, Salem, Tamil Nadu.

Hence, pursuant to the Hon'ble Supreme Court order in Civil Appeal No. 17869-870/2017 and the VTU Executive Council resolution referred above, all the colleges are requested to comply with aforesaid Apex Court order.

The degrees obtained after 2005 by the faculty from the aforesaid Universities stands canceled and would not meet the eligibility criteria as prescribed by AICTE. The Colleges are requested to take appropriate action by considering the aforesaid Judgment of the Hon'ble Supreme Court.

In this regard the colleges are informed to submit the details of such employees who have obtained degrees from the aforesaid Universities in the enclosed format on or before 10<sup>th</sup> May, 2018 (softcopy shall also be e-mailed to [registrar@vtu.ac.in](mailto:registrar@vtu.ac.in)). If no such employee exists in your college, a NIL statement shall be submitted.

For immediate necessary compliance.

Sd/-  
Registrar,  
VTU Belagavi

To,

- 1) The Principals of all affiliated/Autonomous colleges under the ambit of VTU Belagavi.
- 2) The Heads of Research Centres recognized by VTU
- 3) The Principals of UBDT College of Engineering Davanagere.
- 4) The PG Coordinators of all PG Centers.

Copy to:

- 1) The Secretary to VC, VTU, Belagavi.
- 2) The Regional Directors(I/o) of all regional offices of VTU.
- 3) The Special officers of Academic Section, VTU Belagavi
- 4) The Special officer of Ph.D. Section, VTU Belagavi
- 5) The computer Network Centre to upload on VTU website

For  
Circulation  
Jagannatha Reddy  
4/5/18

*[Signature]*  
03.05.18  
REGISTRAR

**Assessing and Improving the Quality of Engineering Education Program**

**Survey report for BMS College Of Engineering, Bangalore**

**Ministry of Human Resource Development**

**National Project Implementation Unit**

**World Bank**

**Research Team from Stanford University**

New Delhi

June 2018

## Survey Report: BMS College O

### Assessing and Improving the Quality of Engineering Education Program

#### **Background and Motivation:**

A major goal of university systems is to produce skilled graduates. Specifically, their goal is to help students gain higher levels of *academic skills* (e.g. maths and physics) and *higher order thinking skills* (e.g. critical thinking and quantitative reasoning). Such skills contribute towards productivity and innovation and help students compete in the global knowledge economy.

Despite the importance of improving students' academic and higher order thinking skills during college, there has been no direct and representative evaluation in India of whether students are learning these skills.

In view of this critical gap in knowledge, the NPIU has collaborated with researchers from Stanford University to implement the "*Assessing and Improving the Quality of Engineering Education*" program at TEQIP III institutions. The program is designed to measure and benchmark levels and gains in academic and higher-order thinking skills of students in undergraduate technical programs and to understand the various factors that affect skill development. Ultimately, the study will enable TEQIP III institutions to assess the competitiveness of their students and to create a more effective system of technical higher education.

#### **Objectives:**

The program has two main goals:

- 1) Assess university student skills (levels and gains) and compare student skills across institutions
- 2) Examine which types of factors (institutional, faculty, instructional, curricular, student behavioral) help students develop skills

*Please note that this report is confidential and is only being shared with your institute. We would like to take this opportunity to extend our sincerest gratitude to the students, faculty, and administrators at your institute who participated in the study. We are also deeply grateful to the staff who helped us smoothly administer the survey. We greatly appreciate both your enthusiasm and support.*

### **Approach:**

We have surveyed 118 TEQIP III colleges that offer CS/CSE/IT<sup>1</sup> or EE/EEE/ECE<sup>2</sup> programs across India. We randomly chose 1 CS/CSE/IT department and 1 EE/EEE/ECE department to survey from each college.

Altogether, we have assessed and surveyed:

- Approximately 27500 Year 1 and Year 3 students
- Approximately 4300 of the students' faculty
- Approximately 200 department heads (HoDs)

We assessed students on their academic skills (mathematics and physics) and higher-order thinking skills (critical thinking, quantitative literacy, and relational reasoning).

The assessments we used have the following properties:

- a) Desirable psychometric properties – reliability, validity, and fairness;
- b) Where possible, the ability to measure skill gains over time (vertical-scaling);
- c) Comparability of skill levels and gains across institutions

### **Results:**

Our results describe the 'mean scaled score' for your college on each of the five assessments administered to the students. The 'mean scaled score' for your college is the average score of all surveyed students on a particular assessment, adjusted to a scale of 0 to 100. All scores have been scaled in line with preservation of desirable psychometric properties. As a result of scaling, the mean score for India on a 0-100 scale is 50 for each assessment category. These scaled scores should *not* be confused with percentage scores.

---

<sup>1</sup> Computer Science/Computer Science Engineering/Information Technology

<sup>2</sup> Electrical Engineering/Electronics and Electrical Engineering/Electronics and Communication Engineering

Figures 1-5 compare average skill level of students at your college with the average skill level of students nationally on academic skills (mathematics skills and physics skills) and on higher order thinking skills (critical thinking skills, quantitative literacy skills, and relational reasoning skills).

Figure 1. Comparison of Mathematics Skill Levels

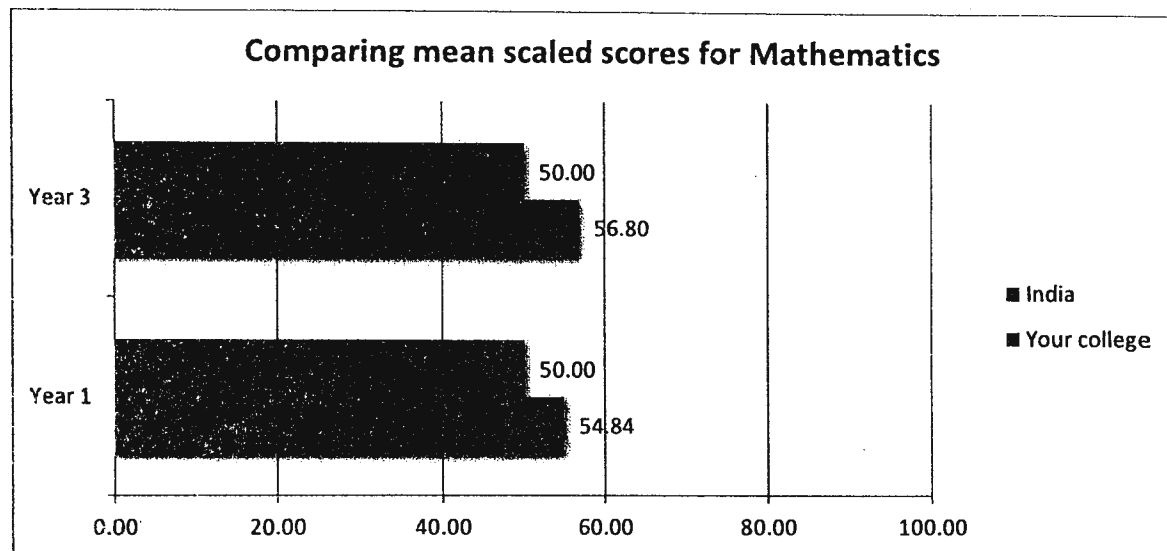


Figure 2. Comparison of Physics Skill Levels

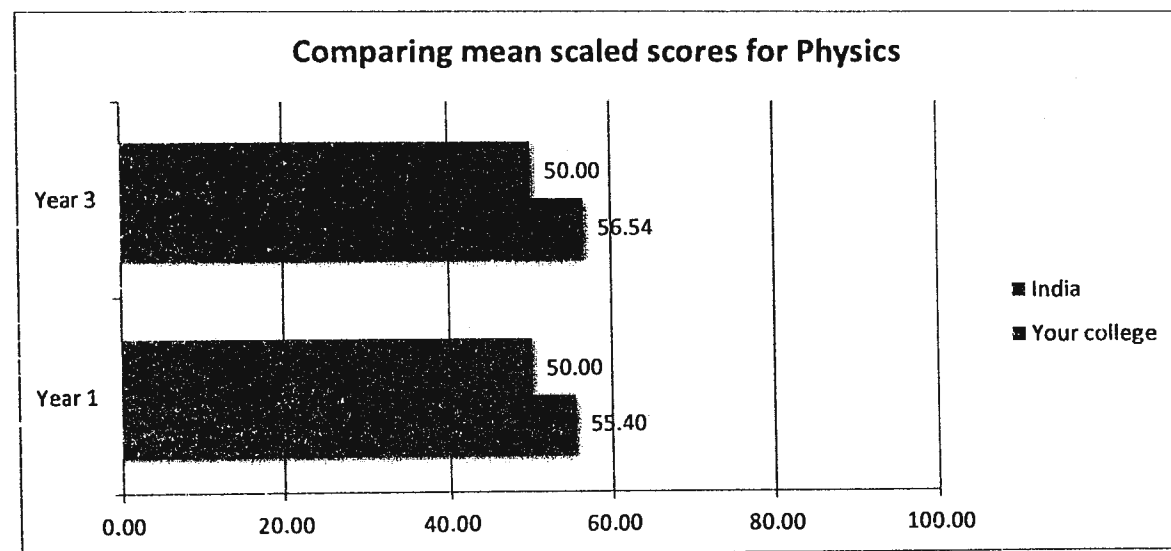


Figure 3. Comparison of Critical Thinking Skill Levels

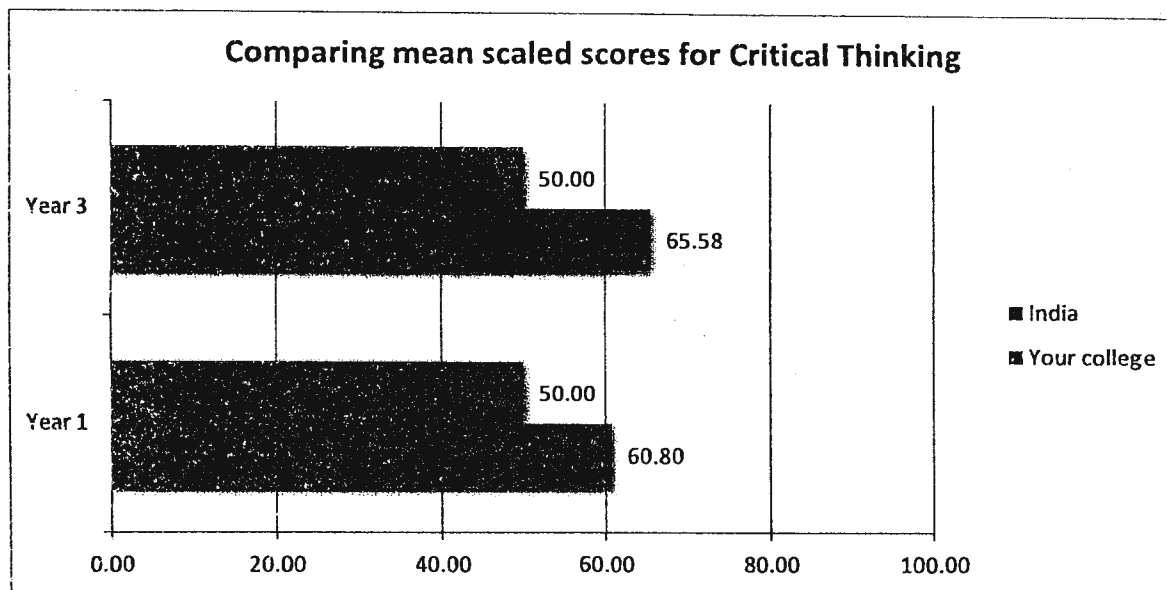


Figure 4. Comparison of Quantitative Literacy Skill Levels

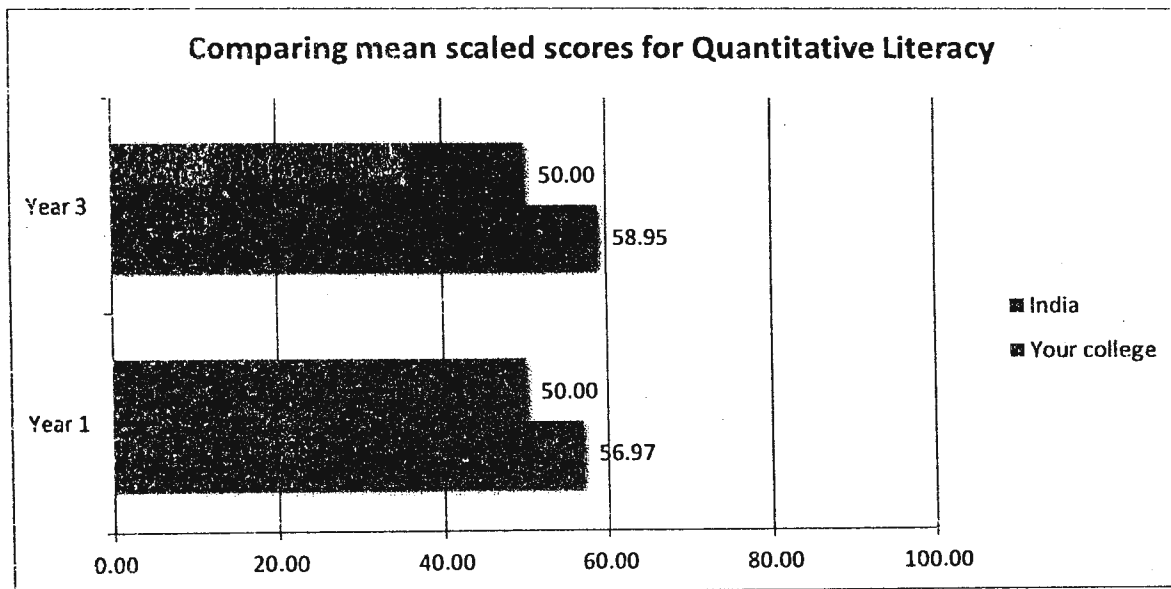
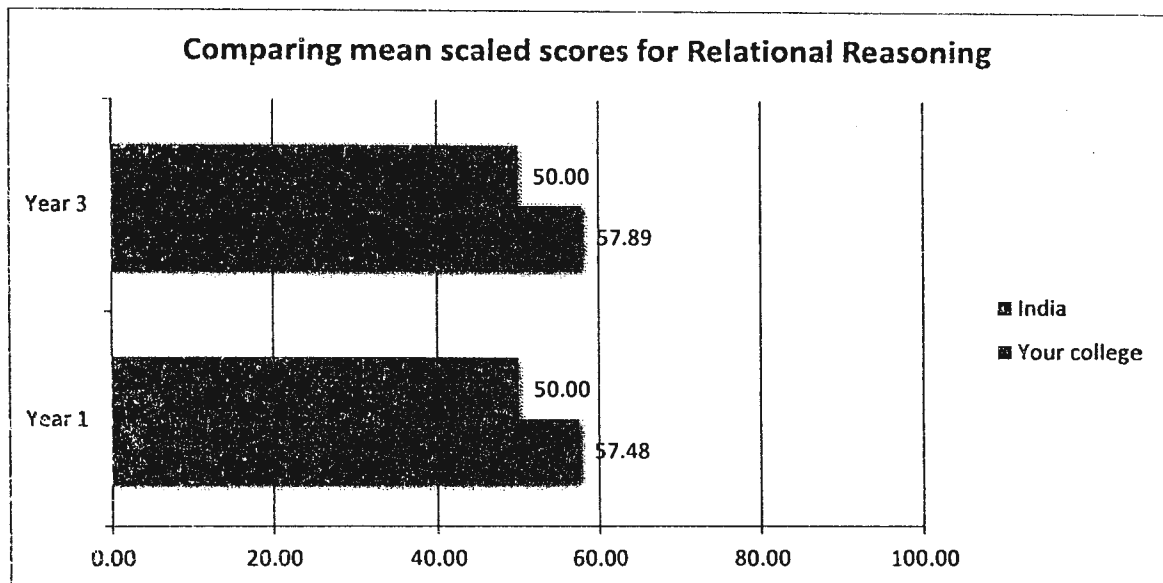


Figure 5. Comparison of Relational Reasoning Skill Levels





Figures 6 & 7 represent the mean scaled scores for different assessments for first and third year students at your college and how they compare nationally.

Figure 6. Mean Scaled Scores for 1<sup>st</sup> Year Students at your College versus the National Average

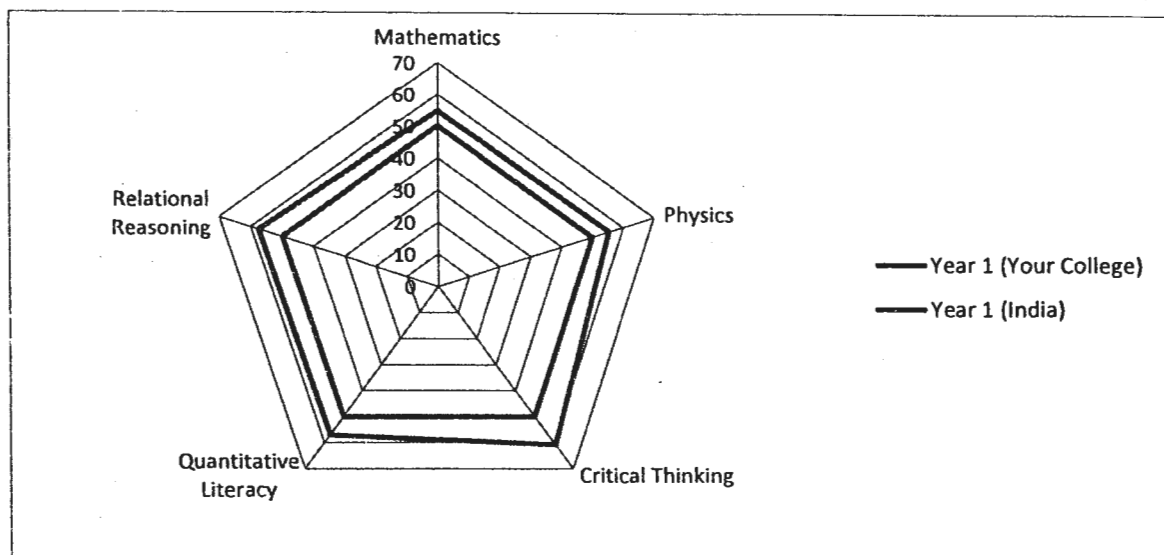
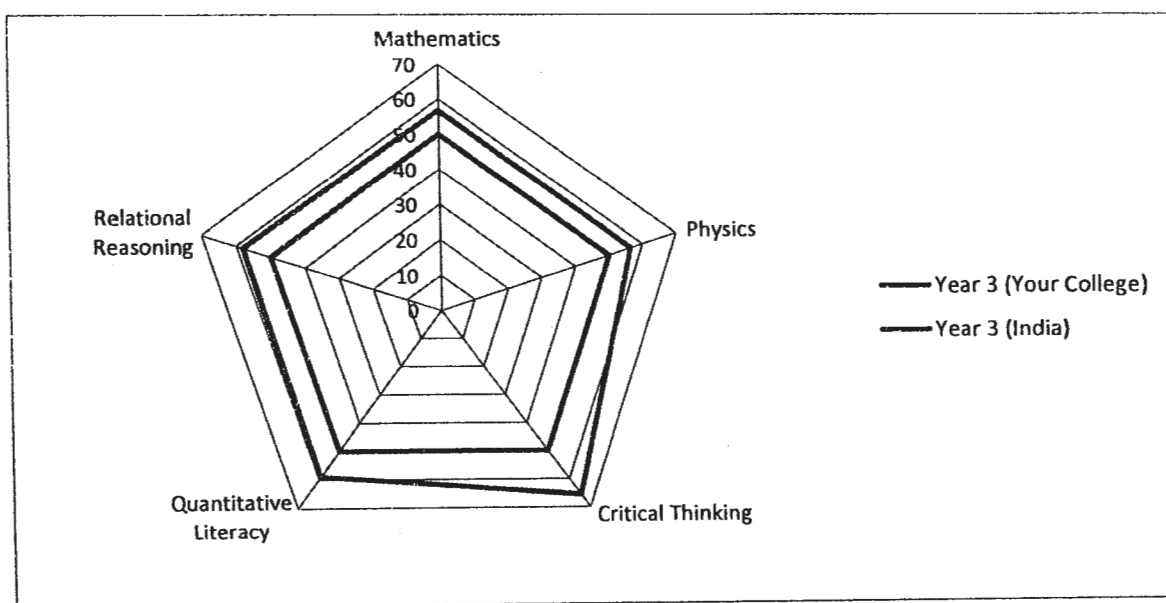


Figure 7. Mean Scaled Scores for 3<sup>rd</sup> Year Students at your College versus the National Average



Tables 1 & 2 provide the mean scaled scores for different topics (content areas) in Physics and Mathematics for students at your college alongside the national average.

*Table 1. Mean Scaled Scores by Topic, Physics*

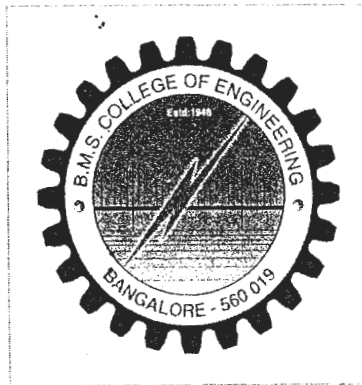
	Topic	Mean scaled score for your college	Mean scaled score for India
Year 1	Circuits	56.64	50.00
	Electric Fields	54.88	50.00
	Electromagnetic Induction	56.42	50.00
	Mechanics	50.88	50.00
	Oscillation and Mechanical Waves	56.32	50.00
	Optics	56.63	50.00
Year 3	Electric Fields	53.33	50.00
	Magnetism and Magnetic Fields	55.98	50.00
	Electromagnetic Induction	50.45	50.00
	Mechanics (including oscillation and waves)	57.48	50.00
	Optics	56.71	50.00
	Relativity and Quantum Physics	56.19	50.00

Table 2. Mean Scaled Scores by Topic, Mathematics

	Topic	Mean scaled score for your college	Mean scaled score for India
Year 1	Single Variable Differentiation	53.76	50.00
	Derivatives and their applications	53.55	50.00
	Equations	52.06	50.00
	Functions and Domains	52.42	50.00
	Inequalities	51.59	50.00
	Mathematical Reasoning and Logic	61.06	50.00
	Trigonometric Functions and Equations	49.40	50.00
Year 3	Single Variable Differentiation	58.45	50.00
	Single Variable Functions	55.80	50.00
	Single Variable Integration	50.07	50.00
	Linear Algebra	54.70	50.00
	Multivariate Differentiation	55.47	50.00
	Mathematical Reasoning and Logic	58.73	50.00
	Differential Equations, Probability, Statistics, and Series	52.11	50.00
	Trigonometric Functions and Equations	55.78	50.00

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

**THIRD MEETING OF THE SUB-COMMITTEE OF BOG**



**MINUTES**

**DATE : 27.07.2018**

**VENUE: BOARD ROOM**

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

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**

**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

---

**CONTENT**

<b>S.No.</b>	<b>Particulars</b>	<b>Page No.</b>
1	Minutes	1-16
	ANNEXURES	
2	Annexure-1	1-2
3	Annexure-2	3-8
4	Annexure-3	9-10
5	Annexure-4	11
6	Annexure-5	12-14
7	Annexure-6	15
8	Annexure-7	16-21
9	Annexure-8	22-27
10	Annexure-9	28-32
11	Annexure-10	33-38
12	Annexure-11	39
13	Annexure-12	40



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

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III

THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES

#### Section 1: INFORMATION ITEMS

##### 1.1 Ratification of Minutes of 2<sup>nd</sup> meeting of BOG sub-committee by BOG

The committee noted that BOG has approved and ratified the minutes of the 2<sup>nd</sup> meeting of sub-committee of BOG for TEQIP III held on 6.3.2018 in the 69<sup>th</sup> meeting of BOG held on 23.04.18 (Annexure-1).

##### 1.2 Appointment of National Project Director

The committee noted that NPIU through its mail dated 14.3.2018 has communicated that **Dr. S. S. Sandhu, Additional Secretary (TE)** has been appointed as **National Project Director (NPD)** for Technical Education Quality Improvement Programme of Government of India (TEQIP).

##### 1.3 Modifications in the application for international travel under TEQIP

The committee noted that NPIU through its mail dated 16<sup>th</sup> March 2018 has sent a revised format of application for international travel under TEQIP and the criteria & other conditions remaining the same as specified earlier. Further, the committee noted that statement of purpose as mentioned below has been included to the previous application format.

Sr. No	Existing	Revised															
Page No.8	NIL	(iii) Post Visit Report <ul style="list-style-type: none"><li>The candidate, is expected to give presentation to BoG.</li><li>The person taking international travel shall submit post-visit report in Annexure-IV (as given below) at the time of final settlement of bills.</li></ul>															
Page No. 12 (Annex-I)	Nil	Additional point is inserted as: <b>8(a) Statement of Purpose before undertaking International Travel in respect of Dr/Prof/Mr from</b> <table><tr><td>1</td><td>Name of the participants undertaking the tour with Designation and Contact Number</td><td></td></tr><tr><td>2</td><td>(i) Details of events (ii) Main Theme</td><td></td></tr><tr><td>3</td><td>Issue</td><td></td></tr><tr><td>4</td><td>Your Role</td><td></td></tr><tr><td>5</td><td>Any other special point</td><td></td></tr></table>	1	Name of the participants undertaking the tour with Designation and Contact Number		2	(i) Details of events (ii) Main Theme		3	Issue		4	Your Role		5	Any other special point	
1	Name of the participants undertaking the tour with Designation and Contact Number																
2	(i) Details of events (ii) Main Theme																
3	Issue																
4	Your Role																
5	Any other special point																



**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**  
**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

New Annexure- IV	Nil	Annex-IV	
		4 (iii) Post visit report to be submitted in respect of	
		Dr/Prof/Mr _____	from _____
		1	Name of the participants undertaken the tour with Designation and Contact Number ( A brief Bio-Data to be enclosed)
		2	Conclusions and Decisions
		3	Role played by India/Institute
		4	Take-away for India/ Institute
		5	(i) Any other important observation (ii) What is next?

**1.4 New location of NPIU Office**

The committee noted that National Project Implementation Unit (NPIU) has been shifted to a new location as mentioned below with effect from 2<sup>nd</sup> April 2018.

National Project Implementation Unit (NPIU)  
Copia Corporate Suits, 301-302, 3<sup>rd</sup> Floor,  
Jasola Vihar, New Delhi 110025

**1.5 Information about implementation of AICTE Mandates**

The committee noted that NPIU through its mail dated 25.3.2018 sought the information about the implementation of AICTE Mandates and also took a note of the answers provided for the questionnaire through google format.

**1.6 Student, Faculty, Staff Satisfaction survey, 2018**

The committee noted that during April 2018, the NPIU conducted survey involving feedback from the major stake-holders i.e., students, faculty and staff to measure the extent of improvement in the institution under TEQIP III. The committee also noted that the increase in satisfaction is one of the Key Performance Indicators (KPIs) included in the result framework signed between Department of External Affairs, GoI and the World Bank. Further, the committee noted that the faculty, staff and students have participated in the said survey.



**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**  
**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

**1.7 Performance Auditing and mentoring of the project institutes**

The committee noted that NPIU through its mail dated 17<sup>th</sup> April, informed the institutions that in order to assess the progress made by each of the project institutions/ATUs in the context of the result framework precisely and factually, the Performance Auditing and Mentoring have been envisaged as the important activities under TEQIP-III and the first Performance Audit followed by Mentoring would be conducted during July-September 2018 by the experts assigned to the institution.

Further, the committee took a note of the contents sent by NPIU through its mail dated 19.4.2018. The committee further noted that as per the communication received from NPIU during June 2018, the following experts have been identified as Performance Auditor and Mentor to our college and our mentee institution.

Institute	Mentor	Performance Auditor
BMSCE	Dr. Yagyadutt Sharma Arya Pro Vice Chancellor Computer Science & Engineering Invertis University, Near Transport Nagar, Bareilly, U.P	Prof. Avinash Gajanan Keskar Professor, Electronics & Computer Science Visvesvariah National Institute of Technology, Nagpur, Maharastra
FET MJP Rohilkhand Univ.		Prof. Dilip Sharma Department of Mechanical Engineering, MNIT, Malaviya Nagar, J.L.N.Marg Jaipur

The committee further noted that the Performance audit of our institution by Prof.Avinash Gajanan Keskar has been scheduled during August 27-29, 2018 as per the mail from SPIU, UP.

The committee also noted that Dr.K.Mallikharjuna Babu, Principal and Dr.L.Ravi Kumar, Nodal Officer (Academic) have been identified as Performance Auditors for 2-3 institutions outside the state.

**1.8 Quarterly Activity Progress of Startup Cells established in Institutions**

The committee noted that NPIU had sought for the quarterly activity progress of start-up cells established in the institution for the period from Jan.2018 to March 2018 and also took a note of the quarterly activity progress report (Annexure-2) sent to NPIU & AICTE.





**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**  
**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

---

**1.9 Hiring of services for employability skills training and GATE training:**

The committee took a note of the NPIU's communication, informing the institutions that it has empanelled the competent and professional service providers for the **Employability skills training** and **GATE training** based on the quality, and the interested institutes may hire the services by inviting financial bids/quotes from them on the basis of ToRs provided. Further, the committee noted that NPIU sought for the details of services hired in this regard through a google format.

**1.10 Expert name for NBA guidance**

The committee noted that NPIU through its mail dated 26.4.2018 sought for names of expert faculty members who could provide guidance for 3-5 days per program per institute in preparing their SAR through a google format and also took a note of the names of the faculty members sent to NPIU.

**1.11 BOG Meetings-information**

The committee noted that NPIU sought for the details of BOG meetings held from 1<sup>st</sup> April 2017 till date through google format and the required information were submitted to NPIU.

**1.12 Financial Management Indicators for the period from 01.04.2017 to 31.03.2018**

The committee took a note of the Financial Management Indicators for the period from 1<sup>st</sup> April 2017 to 31<sup>st</sup> March 2018 (Annexure-3) sent to NPIU.

**1.13 Video feedback from the institutes on TEQIP-III implementation:**

The committee noted that NPIU through its mail dated 12<sup>th</sup> June 2018 informed the institutes that they would like to hear from the students about the outcome of TEQIP-III in terms of quality enhanced in teaching, research, employability, etc., through a video and a video containing the views of few research scholars and M.Tech Student were sent to NPIU.



**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**  
**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

---

**1.14 MIS training program**

The committee noted that NPIU conducted one day MIS training Programme on 27<sup>th</sup> June 2018 at VJTI, Mumbai and Sri. Balaji attended the same. Further, the committee noted that the NPIU has communicated that data in the MIS is required to be filled latest by July 10, 2018.

**1.15 Wi-Fi services/facility in the project institution**

The committee noted that NPIU through its mail during June 2018 has communicated that MHRD/NPIU has given emphasis on converting all TEQIP-III institutions into a new dimension of Digital Campus through a modern state-of-art Wi-Fi facility and this drive would enable the students & faculty of those institutions where uninterrupted connectivity is a major concern, to access educational contents in technical studies. As such, NPIU has empanelled M/s Reliance Jio Infocomm Ltd., Nariman Point, Mumbai for providing Wi-Fi internet connectivity to students, faculty and staff from TEQIP-III institutions as an individual user. The plan called as "TEQIP-III Wi-Fi plan" shall be:

***Internet Data of 30 GB/User/Month on FUP basis of 1 GB per day at the Cost of Rs. 100/-, per month (Exclusive Tax)***

The committee also noted that NPIU has informed that interested institutes can proceed further for engaging the empanelled service provider as per Terms of Reference (ToR).

**1.16 Formulating the policy of assessment of internship of students**

The committee took a note of the NPIU's communication dated 8<sup>th</sup> June 2018 communicating that MHRD intends that TEQIP III institutes formulate the policy of assessment of internship of students and also took a note of the guidelines/methodology to evaluate the performance of the students on internship proposed by NPIU.

The members opined that the task of finding internship for all the students would be quite challenging.

**1.17 Performance Management System for Faculty of TEQIP Institutions**

The committee noted that NPIU through its mail during June 2018 communicated that it opines to measure the performance of faculty under TEQIP III and invited Dr.B.V.Ravishankar, Vice Principal & TEQIP Coordinator to be a member of the



**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**  
**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

---

committee of experts constituted for guiding in the development of a system to be implemented to measure the performance of faculty of TEQIP III institutions.

Further, the committee also noted that Dr.B.V.Ravishankar attended the meeting of the said expert committee scheduled at NPIU, Delhi on 10<sup>th</sup> July 2018.

**1.18 Implementation of AICTE Examination Reforms**

The committee noted that NPIU through its mail dated 10<sup>th</sup> July 2018 communicated that MHRD has decided to implement the AICTE Examination Reforms in the TEQIP III project institutes from academic session, 2018-19 and as per MHRD's instructions, the affiliating Technical Universities and the autonomous institutes are required to refer AICTE Examination Reform Document and start its execution from 2018-19 .

**1.19 Action Plan for implementation of AICTE Model curriculum**

The committee noted that NPIU through its mail dated 11<sup>th</sup> July 2018 sought for an action plan through google form towards implementation of AICTE model curriculum from the academic session, 2018-19 and also took a note of the answers provided by the college in this regard.

**1.20 Fund allocation for institutions under sub-component 1.3**

The committee took a note of the NPIU's mail dated 11<sup>th</sup> July 2018 informing the institutions that :

- 1) The project TEQIP-III envisages that sub-component 1.3 institutes will receive an initial allocation of INR 2 Cr., so that they have the incentive to participate effectively in twinning activities as well as continue their own institutional development, upon which such twinning depends.
- 2) These institutes will be eligible for additional resources (totalling around INR 7 Cr.) depending upon how effectively they meet obligations identified in their Twinning Agreements.
- 3) Institutions' Action Plan from Jan-June 2018 would be evaluated by performance auditors during July-August 2018. Twinning component has a share of 30% marks in performance audit report format. The funds may be allocated beyond Rs.2 crore subject to meeting certain cut-off (to be decided) for every performance audit.
- 4) Institutions expected to incur expenditure above Rs.2 crore shortly are requested to expedite the performance audit process in their institution and facilitate the submission of report at the earliest.



**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**  
**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

---

**1.21 Establishment of SPIU, Karnataka**

The committee noted that SPIU, Karnataka through its mail dated 22.7.2018 has informed that State Project Implementation Unit (SPIU) has been established with effect from July 2018 and Sri. Manohar G Nayak, former State Project Coordinator, SPFU TEQIP-II has been appointed as "Nodal Officer" for SPIU – TEQIP-III, Karnataka.

**1.22 Student Learning Assessment Survey**

The committee noted that National Project Implementation Unit (NPIU), in collaboration with Stanford University, implemented a large-scale program to assess and improve the skills of engineering students in India. The assessment/survey was part of a larger international research program to assess the quality of engineering education in India and other countries such as China, Russia, Korea and the United States. The committee also noted that the said survey which assessed students on their academic skills (Mathematics & Physics) and higher-order thinking skills (critical thinking, quantitative literacy and relational reasoning) was conducted in the college during November 2017.

Further, the committee noted that as per the survey report received from research team of Stanford University, mean scaled scores of our college students are higher than that of the national average.

**Interaction with stakeholders:**

At this juncture, seven research scholars pursuing PhD at various departments of the college and availing research assistantship were invited to interact with the members of the sub-committee of BOG. The research scholars expressed their satisfaction about the regular sanction of monthly research assistantship and also financial support extended by the college through TEQIP III for their participation in conference, trainings, research activities and also towards development of laboratories.

Dr. Sharanabasavaraja, Associate Professor in the department of Mechanical Engineering was also invited for an interaction. He thanked the members of sub-committee of BOG for extending financial support through TEQIP for faculty development activities by way of deputation of faculty to conferences, trainings and also conduction of FDPs, workshops in the college.

326



**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**  
**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

**Section 2: ITEMS FOR APPROVAL/RATIFICATION**

**2.1 Action Plan**

The committee noted that the fund allocation made for March 2018 was not spent in full due to non-availability of funds and some operating hitches. The committee also noted that as per NPIU's guidance, proposal for extra allocation of funds for the period, April-June 2018 was submitted to NPIU by the college. Further, the committee took a note of the said action plan for additional fund allocation(Annexure-4) and approved the same pending ratification by BOG.

The committee took a note of the action plan for the quarter, July-Sept 2018 sent to NPIU on 28.5.2018 and approved the same (Annexure-5) pending ratification by BOG.

**2.2 Status of Expenditure**

The committee took a note of the status of expenditure as on 25<sup>th</sup> July 2018 as mentioned below:

Sub-Comp Head	Sub Component Name	Cumulative Exp. since Inception till 20-07-2018
1.3.1 - Procurement of goods	1.3.1.1 – Equipment	1,836,080.00
1.3.2 - Academic processes	1.3.2.1 - Improve students learning	989,528.00
	1.3.2.10 - Services	55,000.00
	1.3.2.11 - Industry-Institute Interaction	525,551.00
	1.3.2.2 - Assistantships	4,104,000.00
	1.3.2.3 - Graduates employability	180,455.00
	1.3.2.4 - Faculty/staff dev. & motivation	1,881,381.00
	1.3.2.5 - Research and development	1,415,991.00
	1.3.2.6 - MOOCs and digital learning	12,277.00
	1.3.2.7 - Mentoring/Twinning system	562,964.00
	1.3.2.8 - Reforms and governance	846,661.00
1.3.3 - Operating costs	1.3.3.1 - Consumables	42,405.00
	1.3.3.2 - Operation & maintenance of equipment	525,920.00
	1.3.3.3 - Office expenses	25,101.00
	1.3.3.4 - Meetings	87,567.00
	1.3.3.6 - Travel cost	332,171.00
	1.3.3.7 - Salary	708,543.00
Total		14,131,595.00

After detailed deliberations, the committee approved the aforesaid expenditure pending ratification by BOG.



**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**  
**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

---

**2.3 Award of Research Assistantship**

The committee was apprised that applications were called from the newly registered full time research scholars pursuing PhD in the institution for the award of Research Assistantship as permitted in 2<sup>nd</sup> meeting of sub-committee of BOG held on 06.03.2018 and in response, ten (10) applications were received from the fulltime PhD Scholars registered during 2017-18. The committee noted that after scrutiny of the applications received, the nodal officers and TEQIP Co-ordinator recommended for the award of Research assistantship of Rs.18,000/-, per month with effect from 01.04.2018 to all the 10 scholars subject to the availability of the funds during the project period. The committee also noticed that the list of 10 research scholars were approved by the committee by circulation (list enclosed at Annexure-6 ).

Further, the committee noted that Smt. S. Aishwarya in the department of Electronics & Communication had represented that she needs to carry out initial data collection and study trails at ELBIT Diagnostic Centre towards her research work for 8-10 months from May 2018 with a nominal remuneration from ELBIT Diagnostic Centre and hence opted not to avail Research Assistantship for the said period. The committee after detailed deliberations approved the same pending ratification by BOG.

The committee also noted that the nine research scholars (excluding Smt.S.Aishwarya) have been awarded Research Assistantship with effect from 1<sup>st</sup> April 2018 and approved the same pending ratification by BOG.

The committee was apprised that Smt.Shefali Jagwani, Research Scholar in the department of Electrical & Electronics Engg and Smt. V.Jagadishwari, Research Scholar in the department of Computer Science & Engg have been awarded Research Assistantship of Rs.18,000/-, per month from July 2017 to December 2017 as approved in the first meeting but was inadvertently left out in the list provided during the previous meeting. The committee took a note of the same and approved pending ratification by BOG.

The committee took a note of the application for the award of Research Assistantship submitted by Sri.Nagaraj, a research scholar in the department of Electronics & Communication whose conversion from Part-time PhD.to Full-time PhD course has been approved by VTU. After detailed deliberations, the committee approved for the award of research assistantship of Rs.18,000/-, pm from the month of his conversion to full-time PhD in the college pending ratification by BOG.



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

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**

**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

The committee also took a note of the requisition for award of Research Assistantship submitted by Ms.Sasha Azimi, research scholar recently transferred to the department of Civil Engineering of the college from NMIT, Bengaluru with the approval of VTU. The committee noted that the said research scholar is a foreign national and. after deliberations felt that award of Research Assistant to a foreign national under TEQIP III would not be feasible.

The committee further noted that Smt. Jyothi P. Patak, a research scholar in the department of Electrical and Electronics Engineering pursuing PhD since Dec.2014 and availing research assistantship has submitted an application to VTU for changing from Full time PhD to Part-time PhD citing family commitments. After detailed deliberations, the committee approved for the discontinuance of Research Assistantship to the said research scholar from the month of her conversion from full-time PhD to Part-time PhD pending ratification by BOG.

**2.4 Fiscal incentive / Financial Assistance to UG/PG Students' projects under TEQIP-III**

The committee was apprised that as per the approval accorded in the previous meeting of sub-committee of BOG, the students'(UG/PG) project proposals(107 Nos.) were placed before the review committee consisting of the concerned HOD, Nodal Officer(Academic), Nodal Officer(Finance) and external expert/s. The committee noted that based on the said review committee's recommendation, the sub-committee of BOG (approval obtained by circulation) accorded approval for sanction of fiscal incentive / financial assistance amounting to Rs.12,08,646/-, pertaining to 105 (UG/PG) Projects (Annexure-7).

The committee further noted that out of the above, as on date, an amount of Rs.9,29,513/-, has been disbursed towards the 82 projects based on the claims submitted by the students (Annexure-8) and approved the same pending ratification by BOG.

**2.5 Availing services of Single vendor for providing vehicles towards Industrial Visit etc.**

The committee noted that vehicles are being hired by the departments towards industrial visits/visit to other institutions and in few occasions for the external experts/committee members towards attending meetings/workshops/conferences etc., conducted at the college under TEQIP III activities. The committee was apprised that competitive quotations for providing transport vehicles for aforesaid occasions were



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

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**

**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

called from three travel agencies situated in the vicinity of the college premises. The committee further noted that quotations received from the said travel concerns were tabulated and the college TEQIP team noticed that rates quoted by M/s Aries Travels found to be the lowest among the bidders and hence, recommended for hiring vehicles from M/s Aries Travels for TEQIP activities of the college.

After detailed deliberations, the committee approved for hiring vehicles from M/s Aries Travels for TEQIP activities of the college pending ratification by BOG.

**2.6 Annual increment for TEQIP Office Staff:**

The committee noted that annual increment in salary for the office assistants working in the TEQIP office have been sanctioned as per the college norms as mentioned below and approved the same pending ratification by BOG:

Sl.No.	Name of the Office Assistant	Annual Increment in salary effected from the month of
1.	Smt.M.K.Shilpa	July 2017
2.	Smt.S.S.Meenakshi	May 2018
3.	Sri.Suresh D.	April 2018

The committee noted that the MIS Data entry Operator, Smt.P.V.Padmini, working in TEQIP Office has reported back to her duties in the TEQIP office on 1<sup>st</sup> February 2018 after availing maternity leave and subsequent leave without pay.

The committee noted that Sri.Suresh D., office assistant in TEQIP Office has attained superannuation on 3<sup>rd</sup> July 2018 but based on his well versed knowledge in the TEQIP procurement procedures, his service in TEQIP office has been extended upto 31.7.2019 or till the completion of procurement activities under TEQIP III whichever is earlier and approved the same pending ratification by BOG.

**2.7 Good Governance Development Plan**

The committee noted that NPIU sought for Good Governance Development Plan and the same was sent on 8<sup>th</sup> June 2018. The committee perused the Good Governance Development Plan (Annexure-9) and approved the same pending ratification by BOG.





**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**  
**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

**2.8 Procurement under TEQIP-III**

**a) Status of Procurement:**

The committee took a note of the status of procurement as mentioned below and approved the same pending ratification by BOG.

Particulars	No. of packages	Value (Rs. in Lakhs)
Total TEQIP III procurement proposals as per the plan previously approved	27	350.98
Purchase completed(payment released)	3	18.35
Purchase completed (payment in process)	1	10.44
Purchase orders released till date	4	73.62
Proposals for which quotations are invited	6	37.50
Proposals for which specifications/revised specifications to be received	13	211.07

**b) Change of proposal-“Smart Computing Centre” to “Cloud Computing Lab”**

The committee noted that joint proposal submitted by departments of Electronics & Communication Engg., and Computer Sc. & Engg., for procuring 'Smart Computing Centre' was uploaded to PMSS. Further, the committee took a note of the revised proposal submitted by the concerned faculty members to procure “Cloud Computing Lab” instead of “Smart Computing Centre” as proposed earlier due to non-availability of few components required for the concerned project without change in the financial allocation made previously. After detailed deliberations, the committee approved for procuring ‘cloud computing lab’ pending ratification by BOG.

**c) AMC for Atomic Absorption Spectrophotometer :**

The committee took a note of the proposal from the department of Civil Engineering seeking financial assistance towards AMC for Atomic Absorption Spectrophotometer (procured under TEQIP-II) installed in Environmental Engineering research Lab and approved the same pending ratification by BOG.

**d) AMC for IBM Flex servers and IBM storage:**

The committee took a note of the proposal submitted by the Data Center of the college seeking financial assistance towards renewal of AMC for IBM Flex Servers and IBM Storage with M/s Binary Systems Pvt. Ltd., the authorised vendor of OEM for the aforesaid products and approved the same pending ratification by BOG.



**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**  
**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

---

**e) AMC for SEM :**

The committee took a note of the proposal seeking financial assistance towards AMC for SEM procured under TEQIP-II COE and after deliberations, approved for AMC for the same pending ratification by BOG.

**f) Procurement of printers**

The committee took a note of the proposal for procuring 2 printers for TEQIP Office to replace the non-functioning printer stationed at TEQIP office that has become irreparable. After deliberations, the committee approved for procuring two printers pending ratification by BOG.

**2.9 Conduction of International Conference (ICNEWS-2018)**

The committee took a note of the proposal submitted by the department of Electronics and Communication Engineering seeking financial assistance for conducting International Conference on Networking, Embedded and Wireless Systems (ICNEWS-2018) in the college during December, 27-28, 2018. After detailed deliberations, the committee approved for extending financial support to the maximum extent of Rs.2 lakhs for the said conference pending ratification by BOG.

**2.10 Conduction of Induction Program for students**

The committee was apprised that as per the AICTE mandates, induction program of three weeks has been scheduled during August 2018 for the students admitted to BE courses of 2018-19 and is proposed to meet the said expenses under TEQIP III. After detailed deliberations, the committee accorded approval for meeting the expenses towards the conduction of the said program under TEQIP III funds pending ratification by BOG.

**2.11 Audit of TEQIP III accounts**

The committee noted that internal auditors, M/s H.R.Suresh & Co., have conducted internal audit of TEQIP III accounts for the period since inception till 31<sup>st</sup> March 2018 and the audit report is awaited.

The committee noted that BN Jayaram and Co., nominated as statutory auditor for TEQIP III accounts have expressed their inability to take up the audit of TEQIP III accounts of the college citing one of the criteria mentioned in the Financial Management Manual for appointment of auditors. Further, the committee noted that



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

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**

**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

MNS & Co., has been identified as statutory auditor for TEQIP III accounts and took a note of the profile of MNS & Co. The committee also noted that the NPIU has informed the project institutions to submit internal audit report and statutory audit report for the year 2017-18 by 20<sup>th</sup> August 2018. Further, the committee approved the nomination of MNS & Co., as statutory auditor of TEQIP III accounts of the college pending ratification by BOG.

**2.12 Deputation of faculty to WOSA 2018**

The committee was apprised that NBA is organizing the fourth World Summit on Accreditation (WOSA 2018) from 07th to 09th September 2018 at Dr. Ambedkar International Centre, New Delhi and NPIU has informed that the Principal and NBA Coordinator shall attend the summit and also to encourage the participation of concerned faculty members.

The committee noted that it has been decided to depute the TEQIP team and interested Deans & HODs to the said summit from the college. Further, the committee noted that it is proposed to extend financial assistance (Regn. fee, TA, DA & hotel expenses) towards deputation of following faculty members to WOSA 2018 from TEQIP III funds which would be amounting to around Rs.3 Lakhs.

Sl.No.	Name of the faculty member	Designation
1	Dr.B.V.Ravishankar	Vice Principal & TEQIP Coordinator
2	Dr.Maya Naik	HOD-CV
3	Dr.Bheemsha	HOD-ME
4	Dr.C.Lakshminarayana	HOD-EE
5	Dr.G.Poornima	HOD-EC
6	Dr.K.J.Rathanraj	HOD-IM & Nodal Officer(Finance)
7	Dr.L.Ravikumar	Nodal Officer (Academic)

After detailed deliberations, the committee approved for deputing the aforesaid faculty members to WOSA 2018 with financial assistance from TEQIP III funds pending ratification by BOG.

**2.13 Nomination of Environmental Coordinator**

The committee noted that NPIU through its mail dated 24.7.2018 has informed that Environmental Management Framework(EMF) is one of the important parts under the project and the World Bank expects to have EMF in place at project institutions so as to mitigate the environmental impacts that arises due to project activity. Further, the committee noted that to have the framework in place, all project institutes are informed to appoint Environmental Coordinator preferably Professor/Associate Professor from Civil/Environmental Engineering discipline and the said faculty should have some



**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**  
**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

---

experience related to Environmental field.

The committee was apprised that it is proposed to nominate Dr.C.R.Ramakrishnaiah, Associate Professor in the department of Civil Engineering of the college as Environmental Coordinator. After detailed deliberations, the committee recommended for nomination of Dr.C.R.Ramakrishnaiah as Environmental Coordinator pending approval by BOG.

**2.14 Approval to the faculty/students for attending programs & conduction of Programs**

- a) The committee took a note of the consolidated list of approvals of the sub-committee received by circulation for deputing faculty/students to attend various programs Annexure-10.
- b) The committee took a note of the consolidated list of approvals of the sub-committee received by circulation for conducting/conducted various programs (Annexure-11).
- c) The committee took a note of the proposals for attending various programs by faculty/staff and after deliberations approved the same (Annexure-12) pending ratification by BOG.

**2.15 Financial Assistance to Faculty members for those registered for PhD**

The committee took a note of the current status of availability of TEQIP funds and accorded approval for reimbursement as mentioned below to the faculty members registered for PhD:

- a) Course fee paid by the faculty member after August 2017 to their research centre to a maximum extent of Rs.30,000/-, per annum for three academic years during the project period subject to the availability of TEQIP III fund.
- b) The expenditure to a maximum extent of Rs.20,000/-, incurred by the faculty member towards consumables/characterisation of samples required for their research work/ for printing and binding of their PhD thesis during the project period .

**2.16 Patenting the research product/work**

With a view of encouraging the research activities at BMSCE, the committee approved for extending financial assistance towards the fee payable to the Government for patenting a research product/work of the faculty members/students under TEQIP III pending ratification by BOG.



**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-III**  
**THIRD MEETING | 27.07.2018 | SUB-COMMITTEE OF BOG | MINUTES**

---

**2.17 Financial Assistance to Research Scholars of the college towards consumables etc.**

The committee accorded approval to reimburse the expenditure incurred by the research scholars who have registered for PhD(full time) in any of the research centres of the college as mentioned below based on the current financial status of TEQIP funds pending ratification by BOG -

Reimbursement of the expenditure to a maximum extent of Rs.20,000/-, incurred by the research scholar towards consumables/characterisation of samples required for their research work/ for printing and binding of their PhD thesis during the project period duly recommended by the concerned guide and the HOD.

**2.18 Conduction of various Activities**

The committee noted that TEQIP III activities in the college are being conducted as per the permissible norms of NPIU and the expenditure under TEQIP Funds are also being done as per the specified norms.

The committee authorized the Principal to decide about the hospitality and other sundry expenses regarding any TEQIP III activity and also authorized to initiate/conduct the activities under TEQIP III and incur the permissible expenditure as per the NPIU norms.

**2.19 Training Programme on Financial Management and PFMS**

The committee noted that NPIU has organised training programme on Financial Management and PFMS at Dr.Ambedkar Institute Technology, Bengaluru during July 30-31, 2018 and approved for deputing Dr.Rathan Raj, Nodal Officer(Finance) and the staff members working at the TEQIP Office, Smt.S.S.Meenakshi, Smt.M.K.Shilpa and Smt.P.V.Padmini for the said training program pending ratification by BOG.

**Section 3 : Any other item with the permission of the Chair.**

**3.1 Conduction of Phase Shift 2018**

The committee was apprised about the conduction of PHASE SHIFT 2018 ( Annual Tech Symposium) in the college during Sept. 15<sup>th</sup> & 16<sup>th</sup>, 2018. After deliberations, the committee accorded approval for extending financial support to an extent of Rs.2.5 lakhs for the said event from TEQIP III funds pending ratification by BOG.

The meeting concluded with vote of thanks to the Chair.

  
DR.R.MALLIKHARJUNA BABU  
PRINCIPAL & CONVENOR

  
Prof.D.THUKARAM  
CHAIRMAN

---

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

**THIRD MEETING | 27.7.2018 | SUB-COMMITTEE OF BOG | MINUTES**

---

**ANNEXURES**



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
Autonomous Institute, Affiliated to VTU

**EXTRACT OF THE MINUTES OF THE 69<sup>TH</sup> MEETING OF THE BOARD OF GOVERNORS HELD ON 23<sup>RD</sup> APRIL 2018**

**4.6 MINUTES OF THE 2<sup>ND</sup> MEETING OF THE SUB-COMMITTEE OF BOG OF TEQIP - III HELD ON 06.03.2018**

The Vice-Principal and the TEQIP-III Coordinator presented a brief report on the activities of TEQIP-III along with component wise details of amount sanctioned and expenditure incurred. The TEQIP-III Coordinator also apprised that the activities and other related matters, detailed below, were placed before the sub-committee of BOG for TEQIP-III in the 2<sup>nd</sup> meeting held on 06.03.2018 for detail discussion and approval.

Nominations for Mentors and Performance auditors for TEQIP - III	Hiring of Consultant services
Mandatory Internships	Award of Research Assistantship
Revised TA/DA norms	Status of expenditure
Review of twinning arrangements	Procurement process a) Permission to add new packages for procurement b) Permission for change of items in the approved list and cost escalation from the initially estimated costs c) Composition of Central Procurement Committee (CPC)
Two day workshop on Outcome Based Education	Fiscal incentive / Financial assistance to UG & PG students project and Research Scholars
Nomination of Expert Faculty for conducting workshop on Outcome Based Education in focus state institutions	Availing the services of Expert for R&D activities
Audit of TEQIP-II & COE accounts by the auditors	Nomination of Internship Coordinator
Submission of Action Plan to NPIU	Nomination of IIIC Coordinator
Establishing Start-up Cell	Approval to the faculty/students for attending programs & conduction of programs
Six months Micro Action Plan for BMSCE Startup Cell	AMC for Abrasive Water Jet Cutting Machine
Activities undertaken by mentor institution under twinning arrangements	Expenditure on NBA Accreditation Fee
Appointment of Auditors	Financial assistance towards Patenting
GATE 2018 data for Disbursement Linked Indicator (DLI)	



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
Autonomous Institute, Affiliated to VTU

-2-

The Board noted that all the activities are discussed/recommended/approved by the sub-committee of BOG for TEQIP-III. The Board approved/ratified the minutes (Annexure-XI) of the 2<sup>nd</sup> meeting of the sub-committee of BOG for TEQIP-III held on 06.03.2018.

  
MEMBER-SECRETARY



## Quarterly Progress Report on Planned Start-up Activities in Institutes

Institute Name &amp; Address: B M S College of Engineering, Bull temple road, Bengaluru-19

Name of Start-up Cell: BMSCE STARTUP

Start-up centre Address:

- Start-up Centre Location Address: BMSCE
- Area (min 600-sq ft) allotted for Start-up Centre: Around 1000 sq ft is earmarked in the new building
- List of Non -IT & IT Facilities Available at Present ( If not then Please mentions NA) :

Sl No	Facility Particular	Purpose	Functional Status
		NA	

List Other Centres/Facilities at Institute to Support Innovations &amp; Start-ups: (EDC, IEDC, Innovation Centre, TBI, Research Park, Maker's Space etc)

Centre/Facility Name	Support / Focus Area	Person In charge	Correspondence Email	Contact No
Centre for Innovation in Medical Electronics (GIME)	Medical device development	Sri. Appaji M Abhishek	Abhishek.ml@bmsce.ac.in	9844923632
PROPEL LAB - 1	Robotics and Embedded Systems	Sri. Harish V Mekali	hvm.ece@bmsce.ac.in	9538765141
PROPEL LAB - II	3 D PRINTING	Sri. Sreekanth N V	sreekanthnagar.mech@bmsce.ac.in	8050464696
PROPEL LAB-III	AEROSPACE	Sri. Ram Rohit	ramrohit.mech@bmsce.ac.in	9986141999
PROPEL LAB - IV	SAE Auto	Sri. Rajesh P	rajeshp.mech@bmsce.ac.in	9620208877
EDC	Entrepreneurship	Dr Shubha B N	bns.mba@bmsce.ac.in	9886264753
PRODUCT INNOVATION LAB	Product Development	Dr. Ravikumar. R.N	rnravi.mech@bmsce.ac.in	9035485886

Start-up Cell Coordinator Name &amp; Contact Details:

Team Members	Designation	Stream/Discipline	Email	Contact
Dr H N Suma	Professor	Medical Electronics	hns.ml@bmsce.ac.in	+91 9448394974

Team Detail (list of Faculty Facilitators with Designation and Stream) &amp; Student Coordinators name and their Contact Details (email &amp; Cell no): If any already identified and there is no limit of number.

Team Members	Designation	Stream/Discipline	Email	Contact
Dr. Shubha B N	Associate Professor	MBA	bns.mba@bmsce.ac.in	9886264753
Dr. Veena Hegde	Associate Professor	Electronics & Instrumentation	veenahegdebms.intn@bmsce.ac.in	9886081532
Dr. B R Shambhavi	Associate Professor	Information Science & Engineering	shambhavibr.ise@bmsce.ac.in	9886784959
Sri Sreekanth N V	Assistant professor	Mechanical Engineering	sreekanthnagar.mech@bmsce.ac.in	8050464696
Dr. Saisha Vinjamuri	Assistant professor	Biotechnology	saishav.bt@bmsce.ac.in	9448093424
Sri. Harish V Mekali	Assistant professor	Electronics & Communication	hvm.ece@bmsce.ac.in	9538765141

**Objective of Start-up Cell:**

1. To Develop a Critical Mass of Motivated Students & Faculties with Entrepreneurial Orientation & Skill
2. To Build Infrastructure Support for Innovation & Early Stage Enterprise development and Enabling Access to Resource & Facilities at Institute
3. To Enhance In-House Competency Development to Serve Potential and Early Stage Entrepreneurs and Student Innovators at the Institute.
4. To Strengthen the Inter Department and Inter-Institutional linkage, Incubators and Other Ecosystem Enablers at Different Levels.

**Time Line:**

Objective	Planned Activities	Time Line					
		Q1			Q2		
		Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
1. To Develop a Critical Mass of Motivated Students & Faculties with Entrepreneurial Orientation & Skill	1.1 Assessment of General Enterprise Tendency (GET)* of Students and Faculties	Achieved - GET Assessment conducted for 100 students. Will continue for the remaining students					
	1.2 Conduct of Entrepreneurship Motivation Talk delivered by Successful 4 <sup>th</sup> Generation Entrepreneurs/Start-ups	Conducted Two talks - 1. Motivational talk by Anupama Gowda at the Startup conclave. 2. Medical Device Innovation to Commercialization in Industry & Academia - A 28 Year Journey of Failures and Successes by Dr. Dr. Balakrishna Haridas, Texas A&M University, College Station, TX					
	1.3 Workshop on Design Innovation/Problem Identification/Rapid Prototyping	Achieved - TEQIP - III Sponsored One day Workshop on Medical Technology Innovation on 9th Feb 2018.					
	1.4 Workshop on Idea Generation (Conduct a Boot Camp or Campus Hackathons in Campus for target Students)	Achieved - Progress through Entrepreneurship, One Day GD-Hackathon 8 <sup>th</sup> March 2018					
	1.5 Make aware about various free e-learning programs on Entrepreneurship & Innovation available at UPGRADE, PMYUVA, SWAYAM, MOOC, CURSERA, EDX etc. among students and faculties to enrol and earn certificates	Ongoing					

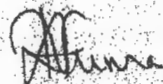
	1.6 Motivate more students to take Entrepreneurship course as an Elective Subject & earn equivalent Credits through above e-learning and take internship in NGOs, Start-ups etc.	Ongoing			
	1.7 Orient students for the formation of 3 Different Student Clubs (* Idea Club, ** Innovation Club, ***Start-up Club) & Student Membership	Ongoing			
2. To Build Infrastructure Support for Innovation & Early Stage Enterprise development and Enabling Access to Resource Facilities at Institute	2.1 Development of Six Month Activity Plan for Start-up Cell ( Micro Action Plan)				
	2.2 Space Allocation for Start-up Cell if not yet done ( Min of 600 Sqm area)			Allotted - Ground floor in Platinum jubilee academic block	
	2.3 Procurement of Furniture and Equipments and IT infrastructure for the Start-up Cell				
	2.4 Provision small grant requirement for Sponsoring or Supporting various Student Clubs activities promoted under Start-up Cell Umbrella.				
	2.5 Design and develop portfolio of support services to be offered at Start-up Cell and Guidelines, manuals etc.				
	2.6 Design and Print Promotion Material for Start-up Cell				
	2.7 Team Development of Start-up Cell ( Identify and Finalize interested faculty facilitators and student leaders to join and implement the above planned activities)			Team formed	
	2.8 Establish a 3-5 member Screening Committee comprises representative from Academia, discipline, industry, start-ups etc. for the screening of Ideas and Innovations to be supported				
	2.9 Create provision for Seed money to support through start-up cell				
	<ul style="list-style-type: none"> <li>Idea/Problems for Proof of Concept/Prototype/Innovations</li> <li>PoCs/Prototype/Innovation to Business Model Development</li> </ul>				



Objective	Planned Activities	Time Line					
		Q1			Q2		
		Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
3. To Enhance In-House Competency of faculties to Serve Mentor and Advisory Services to Potential and Early Stage Entrepreneurs and Student Innovators at the Institute.	3.1 Identify and Setup of In-house Expert Pool of Faculties and Experienced Students as Mentors and Advisory Services on Innovation & Enterprise Development						
	3.2 Capacity Development of Empanelled Faculty and Student Experts in Specific Areas - IPR and Technology Transfer, & Commercialization	"Start-ups: Skill Development and Opportunities" Workshop, sponsored by TEQIP-III and organized by Department of Biotechnology and Department of Civil Engineering, BMS College of Engineering on 29th - 30th January 2018.					
	3.3 Faculty Development Program (FDP) for Identified Faculty Experts: Sub Focus Areas Includes Design Innovation, UI/UX Design, Rapid Prototype, Enterprise Development and Business Modelling, Market Research Tools etc.						
	4.1 Support/Sponsor Student Body/Club to organize an Inter-Institutional tech-innovation & Student Start-up Exhibition or E-Summit or B-Plan Competitions. (Regularise this kind of Programs in campus Once in every Six Month).						
	4.2 Encourage Students to participate and present their Ideas/Start-up models in various B-Plan Competitions/Events/Workshops organized by other Lead institutes.						
	4.3 Explore and Leverage Other Central and State Govt Schemes and programs ( In Addition TEQIP -III Fund) and CSR fund to Support Start-up Activities at Start-up Cell and to fund Student Ideas, Innovations and Business Models and Early Stage Start-ups	Applied for Funds from DST-TBI and IEDC					

Please list the THREE major challenges and difficulties are facing during implementation of Start-up Cell

1. Need for Seed money good enough to motivate and sustain the innovative student entrepreneurs
2. Channelizing the student and faculty Innovative minds towards entrepreneurial bent of mind
3. Driving Innovation beyond proof of concept and/or prototype under the constraints of academic activities.

Dr. H. N. Suma 

Name & Sign

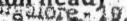
(Start-up Cell Coordinator)



Dr. K. MALLIKARJUNA BABU

Name & Sign

Principal  
College of Engineering  
(Institution head)



8

070

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME [TEQIP]					
PHASE - III					
FINANCIAL MANAGEMENT INDICATORS for the period from 01.04.2017 to 31.03.2018					
Name of the State/Project Institution/ATU :					
Position of the Staff in Finance and Accounts Department					
SL No.	Name of State/Project Institute/ATU	No. of Vacancies of Account Staff sanctioned for TEQIP-III	No. of Vacancies filled in	No. of Vacant Post	
1	BMS COLLEGE OF ENGINEERING	2	2	0	
Training of Finance Personnel					
SL No.	No. of Persons attended the training	Mention dates on which training was conducted during the quarter	Total no. of training programme attended till date		
1	1	04.08.2017	1		
Delegation of adequate Financial and Administrative Powers					
SL No.	Delegation of Financial Powers	To whom delegation has been given Please mention designation			
1	Rs.1 to 500000	Vice Principal (TEQIP Co-ordinator)	PFMS		
2	Rs. 500001 to 5000000	Principal (Institute Implement director) with Consent of Chairman	PFMS		
1	Rs.1 to 300000	Principal & Vice Principal (TEQIP Co-ordinator)	INSTITUTE		
2	Rs. 500001 to 5000000	Principal & Chairman	INSTITUTE		
Adequate infrastructure facilities like computers, printers, telephone, fax, internet connection, etc. provided to Finance and Accounts staff					
Yes or No.	If 'YES' Please specify items provided				
Yes	computers, printers, telephone, internet connection				
Accounting Software					
Is Accounting Software being used? Mention 'Yes' or 'No'		If 'yes', specify Name of Accounting Software			
Yes		PFMS, TALLY ERP 9.			
Whether Reconciliation Statement (RS) is prepared monthly for reconciling the figures with PFMS expenditure report as per books of accounts					
Up to which month RS has been prepared		Mention Name of the month	Monthly- April 2018		
Who is authorized signatory for TEQIP funds?		Mention designation of official			
Rs.1 to 500000		Vice Principal (TEQIP Co-ordinator)			
Rs. 500001 to 5000000		Principal (Institute Project Director)			

Appointment of Statutory Auditor (Applicable to SPIU and 13 mentor institutes/ATUs)					
SL No.	Financial Year	Whether Statutory Auditor Appointed Yes/No	If not appointed likely date of appointment	Likely date of submission of Audit Report	
1	2017-18	Yes		End June 2018	
Appointment of Internal Auditor (Applicable to SPIU and 13 mentor institutes/ATUs)					
SL No.	Financial Year	Whether Internal Auditor Appointed Yes/No	If not appointed likely date of appointment	Likely date of submission of Internal Audit Report for the half year	
1	2017-18	Yes		End June 2018	
Status of resolution of Audit Observations					
SL No.	Financial Year	No. of Audit Observations	No. of Settlement of the Audit	Remarks, If any	
1	2017-18			Auditing is initiated	
Status of resolution of Audit Disallowances					
SL No.	Financial Year	Amount of Audit Disallowance	Amount of Audit disallowance	Remarks, If any	
1	2017-18			Auditing is initiated	



**B.M.S.COLLEGE OF ENGINEERING, BENGALURU-560 019**  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-III (Comp 1.3)**

Sl. No.	Sub Component	Present Allocation of fund according to M-32 Report in PFMS	Requirement of additional fund			Total Revised allocation of fund	Remark
			April	May	June		
1	1.3.1.1 - Equipments	5,820,000.00	0	0	0	5,820,000.00	Enhancement not needed
2	1.3.1.2 - Learning resources	0.00	0	0	0	0.00	Enhancement not needed
3	1.3.2.1 - Improve students learning	42,000.00	20000	0	0	62,000.00	March expenditure is booked in April.
4	1.3.2.10 - Services	39,600.00	0	10000	20000	69,600.00	Committed remuneration to Expert for guidance in R & D Projects of MF department
5	1.3.2.11 - Industry-Institute Interaction	42,000.00	250000	0	0	292,000.00	March expenditure is booked in April.
6	1.3.2.2 - Assistantships	874,800.00	0	0	259200	1,134,000.00	Committed Award of Assistantship to 21 Research Scholars at Rs.18,000/- per month
7	1.3.2.3 - Graduates employability	78,000.00	0	0	0	78,000.00	Enhancement not needed
8	1.3.2.4 - Faculty/staff development and motivation	420,000.00	0	0	0	420,000.00	Enhancement not needed
9	1.3.2.5 - Research and development	300,000.00	0	950000	0	1,250,000.00	Committed Expenditure of Rs.1200000/- towards UG/PG Students Projects.
10	1.3.2.6 - MOOCs and digital learning	42,000.00	0	0	0	42,000.00	Enhancement not needed
11	1.3.2.7 - Mentoring/Twinning system	240,000.00	0	50000	100000	390,000.00	Committed proposals of mentee institute visit for progress review/conduction of workshops, STTP etc.
12	1.3.2.8 - Reforms and governance	850,000.00	0	0	0	850,000.00	Enhancement not needed
13	1.3.2.9 - Management capacity development	90,000.00	0	0	0	90,000.00	Enhancement not needed
14	1.3.3.1 - Consumables	120,000.00	0	0	0	120,000.00	Enhancement not needed
15	1.3.3.2 - Operation & maintenance of equipments	500,000.00	0	0	0	500,000.00	Enhancement not needed
16	1.3.3.3 - Office expenses	45,000.00	0	0	0	45,000.00	Enhancement not needed
17	1.3.3.4 - Meetings	300,000.00	0	0	0	300,000.00	Enhancement not needed
18	1.3.3.5 - Hiring of vehicles	0.00	0	0	0	0.00	Enhancement not needed
19	1.3.3.6 - Travel cost	450,000.00	0	0	0	450,000.00	Enhancement not needed
20	1.3.3.7 - Salary	225,000.00	0	0	0	225,000.00	Enhancement not needed
Total		10,478,400.00	270,000.00	1,010,000.00	379,200.00	12,137,600.00	

Annexure - 4

**TEQIP-III Annual Action Plan: 2018-19**

**Subcomponent 1.3: Twinning Arrangement**

Name of the Institute :

(Amount in Rs.)

Heads		Sub-Heads	Specific Activities	July, 2018	Aug, 2018	Sept, 2018	Total Expenditure Estimates
				Estimated Exp.	Estimated Exp.	Estimated Exp.	
Procurement of goods	1.3.1.1	Equipments (for hostel, sports and any non academic activity not permitted)	Equipments	10,00,000.00	37,00,000.00	50,00,000.00	97,00,000.00
	1.3.1.2	Learning resources (e-books, e-journals, softwares, text book etc.)		-	-	-	-
	1.3.1.3	Furniture (for hostel, sports and any non academic activity not permitted, but allowed for TEQIP Cell)		-	-	-	-
	1.3.1.4	Minor civil works (for hostel, sports and any non academic activity not permitted, no new building), (repair, maintenance & extension allowed)		-	-	-	-
074	1.3.2.1	Improve student learning (The activities include: IIT/ NIT training to students at IIT/NIT or in parent institute; Induction Training; GATE Preparation Classes; Career Counselling, Student Counselling; Psychometric/ Diagnostic Test; Remedial Classes; Peer Learning; Student Visits to IIT & R&D organizations; Sponsorship of 20% on academic activities in Tech Fest; Registration Fees and TA/DA for students participating in Tech Fest of IIT/NIT; GATE Orientation Programme, etc.)	IIT/ NIT training to students at IIT/NIT or in parent institute; Induction Training; Career Counselling, Student Counselling; Psychometric/ Diagnostic Test; Remedial Classes; Peer Learning; Student Visits to IIT & R&D organizations; Sponsorship of 20% on academic activities in Tech Fest; Registration Fees and TA/DA for students participating in Tech Fest of IIT/NIT; GATE Orientation Programme, etc.)	50000.00	200000.00	300000.00	5,50,000.00
	1.3.2.2	Research Assistantships (The activities include: Research Assistantship for full time Ph.D. students excluding QIP candidates, etc.)	The activities include: Research Assistantship for full time Ph.D.	504000.00	504000.00	504000.00	15,12,000.00
	1.3.2.3	Graduates employability (The activities include: Start up activity; Soft Skill training (Industry Readiness); Finishing Schools, etc.)	The activities include: Start up activity; Soft Skill training (Industry Readiness); Finishing Schools, etc.	300000.00	100000.00	100000.00	5,00,000.00

12

074

Annexure-5

**TEQIP-III Annual Action Plan: 2018-19**

**Subcomponent 1.3: Twinning Arrangement**

Name of the Institute :

(Amount in Rs.)

Heads		Sub-Heads	Specific Activities	July, 2018	Aug, 2018	Sept, 2018	Total Expenditure Estimates
				Estimated Exp.	Estimated Exp.	Estimated Exp.	
Academic Processes	1.3.2.4	<b>Faculty/Staff Development and motivation</b> (The activities include: Short Term Training Programmes (STTP) in house; Refistration fee and TA/DA for STTP in other reputed institutes; IIT training to faculty at IIT or in parent institute; Attending Conferences/ Seminars/Workshops; Qualification Upgradation; Support Staff training, etc.)	The activities include: Short Term Training Programmes (STTP) in house; Refistration fee and TA/DA for STTP in other reputed institutes; IIT training to faculty at IIT or in parent institute; Attending Conferences/ Seminars/Workshops; Qualification Upgradation; Support Staff training, etc.	800000.00	600000.00	800000.00	22,00,000.00
	1.3.2.5	<b>Research and development</b> (The activities include: Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute; Spares and consumables for UG/ PG student research projectp; Seed Money for R & D for faculty research projects; Publication in peer reviewed journals having citation & impact factor and scopus index; Fees for patent filing for faculty and students, etc.)	The activities include: Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute; Spares and consumables for UG/ PG student research projectp; Seed Money for R & D for faculty research projects; Publication in peer reviewed journals having citation & impact factor and scopus index; Fees for patent filing for faculty and students, etc.)	350000.00	50000.00	50000.00	4,50,000.00
	1.3.2.6	<b>MOOCs and digital learning</b> (The activities include: Certification fees for online courses (MOOC's); Development of MOOC's/ Online courses, etc.)	The activities include: Certification fees for online courses (MOOC's); Development of MOOC's/ Online courses, etc.	10000.00	10000.00	10000.00	30,000.00
	1.3.2.7	<b>Mentoring/Twinning system</b> (should at least spend 5% of the PLA,include non-remunerative activities like: Two way faculty, staff and student exchange programs for training and academic activities; Joint R & D; Arranging seminars, academic meetings and conferences for students and faculty; Organising Industry partnerships for joint R&D, internship and placement activities; Learning forums for improving governance practices, institutional management and reforms; Joint Advisory or consultancy services; any other activities as deemed mutually appropriate)	Two way faculty, staff and student exchange programs for training and academic activities; Joint R & D; Arranging seminars, academic meetings and conferences for students and faculty; Learning forums for improving governance practices, institutional management and reforms; Joint Advisory or consultancy services; any other activities as deemed mutually appropriate	200000.00	200000.00	200000.00	6,00,000.00
	1.3.2.8	<b>Reforms, governance</b> (The activities include: Academic Reforms (ICC, BoS, Academic Council/ Senate, BoG); Accreditation & UGC Autonomy; Student Feedback & Faculty Appraisal, etc)	The activities include: Academic Reforms (ICC, BoS, Academic Council/ Senate, BoG); Accreditation & UGC Autonomy; Student Feedback & Faculty Appraisal, etc	50000.00	750000.00	50000.00	8,50,000.00

075

**TEQIP-III Annual Action Plan: 2018-19**

**Subcomponent 1.3: Twinning Arrangement**

Name of the Institute :

(Amount in Rs.)

Heads		Sub-Heads	Specific Activities	July, 2018	Aug, 2018	Sept, 2018	Total Expenditure Estimates
				Estimated Exp.	Estimated Exp.	Estimated Exp.	
14 976 Operating Cost	1.3.2.9	<b>Management Capacity development</b> (The activities include: Management Capacity Building programmes at IIM; NPIU workshops, etc.)	The activities include: Management Capacity Building programmes at IIM; NPIU workshops, etc.)	100000.00	50000.00	50000.00	2,00,000.00
	1.3.2.10	<b>Hiring Consultancy Services</b> It does not require activity plan (It will be required for all above activities for which the methods given in procurement shall be adopted)	hiring consultancy services in research work of Mechanical Engineering Department (R&D Lab)	25000.00	25000.00	25000.00	75,000.00
	1.3.2.11	<b>Industry-Institute Interaction</b> (The activities include: Internships; Industry expert lectures; Placement Activities & Hospitality; Industry Visits, etc.)	The activities include: Internships; Industry expert lectures; Placement Activities & Hospitality; Industry Visits, etc.	50000.00	100000.00	150000.00	3,00,000.00
	1.3.3.1	<b>Consumables</b>	Consumables for Research work of Full time research scholars under teqip and TEQIP office consumables for inhouse seminars/workshop/symposium etc.,	100000.00	100000.00	100000.00	3,00,000.00
	1.3.3.2	<b>Operation and maintenance of equipments</b>	AMC for equipments procured under TEQIP II and AMC for teqip Office xerox machine, Purchase of Printer for TEQIP Office	475000.00	250000.00	0.00	7,25,000.00
	1.3.3.3	<b>Office expenses</b> (The activities include: stationary; printing, etc.)	The activities include: stationary; printing, etc.	20000.00	20000.00	20000.00	60,000.00
	1.3.3.4	<b>Meetings (only project related meetings)</b>	BOG,NPIU,TEQIP Meetings	100000.00	100000.00	100000.00	3,00,000.00
	1.3.3.5	<b>Hiring of Vehicles (only for project activities)</b>		0.00	0.00	0.00	-
	1.3.3.6	<b>Travel Cost (only for project activities)</b>	Travel cost for Attending BOG,NPIU,TEQIP Meetings	200000.00	150000.00	150000.00	5,00,000.00
	1.3.3.7	<b>Salary (for TEQIP office staff)</b>	Salary for TEQIP Office staff	90000.00	90000.00	90000.00	2,70,000.00
<b>TOTAL</b>				<b>4,24,000.00</b>	<b>4,19,000.00</b>	<b>75,99,000.00</b>	<b>1,91,22,000.00</b>

**List of full time Research Scholars (2017-18 batch) approved by BOG sub-committee by circulation for the award of Research Assistantship**

Sl. No.	Research Scholar	Department	Title of PhD thesis	Guide's Name
1	Anusha T. M.	CV	Performance Studies on Gap-Gapped and Open-Graded Mixes Using Marginal Materials	Dr. H. S. Jagadeesh
2	Sunil Kumar T.A.	ME	Synthesis, Characterization & Design analysis of FRP in Application to Advanced Aero-Foil Structures	Dr. M. Ramachandra
3	Yathish Muddappa P.	ME	Enhanced Damping Treatment for Composite Laminates	Dr. G. Giridhara
4	Sandeep S.	ECE	Electronic Device for Detection and Reduction of Intussusception	Dr. M.S. Suma
5	Aishwarya S.	ECE	Design and Development of Real-Time Wireless Fetal Electrocardiogram Monitoring System	Dr. K. Vijayalakshmi
6	Gayetri	ECE	Improvisation of QOS, QOE in SG Network for D2D Communication	Dr. Arathi R. Shankar
7	Neha Jagwani	ECE	Implementation of Fault Tolerance Techniques in Environment Monitoring System	Dr. G. Poornima
8	Rajeshwari Madli	CSE	Optimizing Communication Handoffs using Predictive Modeling in Vehicular Ad Hoc Networks	Dr. G. Varaprasad
9	Feroz Morab	TCE	High Resolution DAO and Fast Convergence Beam former for Mobile Communication	Dr. Veena N. Hegde
10	Sumantha H S	PHY	Synthesis & Characterization of Nanoporous Anode for Li Batteries	Dr. B L Suresha

# Annexure - 7

## LIST OF STUDENTS APPROVED FOR AWARD OF FINANCIAL ASSISTANCE UNDER TEQIP III TOWARDS THEIR RESEARCH PROJECTS DURING THE ACADEMIC YEAR 2017-18

Sl. No	Name of the students	Department	Project names	Name of the guide	Amount approved for award of financial assistance (Rs)
1	Syed Adman Arif	CV	Relationship Between MOE & Prism Strength for Masonry	Dr.Mangala Keshava	15000.00
2	Praveen Kumar T L	CV	Studies onAcrylic Based Mortar Composites	Sri.S.Raghunath	10075.00
3	Munikrushnappa V	CV	An Experimental Study on Behaviour of HCB Masonry Made With Recycled Mortar	Dr.Mangala Keshava	14250.00
4	Chaitra S Hokrani	CV	Parking Studies & Management at Metro Station	Sri.Dheeraj Kumar N	10000.00
5	Swathi Krishna B	CV	Speed Flow Relationship Along Metro Corridor	Sri.Dheeraj Kumar N	10000.00
6	Akash D Sajjanar	CV	Singal Synchronization Along Metro Line	Sri.Dheeraj Kumar N	15000.00
7	Vijaykumar K	CV	Experimental Evaluation Geogrid Reinforced Cementitious Matrix on the Performance of Masonary Infills	Dr.A S ArunKumar	15000.00
8	Rakesh S	CV	Energy Aspects in Recycled Aggregate	Dr.Mangala Keshava	3000.00
9	Meghana	CV	Evaluation of Relationship Between Compressive Strength & Modulus of Elasticity of Masonry Materails	Dr.Mangala Keshava	11400.00
10	Bhanuprasad H	CV	Combined Effect of Waste Foundry Sand,Galss Fibre and Fly Ash in Concrete	Dr.A S ArunKumar	14700.00
11	Shivalingayya	CV	Develpoment of Ultra-high Performance Fiber Reinforced Concrete	Dr.Ranganath R V	14490.00
12	Nikesh Jain	CV	Study on the role of wet-density to achieve ultra high perfomance concrete	Dr.Ranganath R V	14060.00
13	Akshay Shankar gowda patil	CV	Studies on use of Emulsion in warm mix Asphalts	Dr.H S Jagadeesh	15000.00
14	Kiran V	CV	Experimental Studies to Characterize Gradation Segregation of Asphalt Mix	Dr.H S Jagadeesh	15000.00
15	Irshad Ahmed H A	CV	Experimental Investigation of OGFC using RAP	Dr.H S Jagadeesh	9000.00
16	Sharon Ranjitha	CV	Solidification/Stafilization of Expired Chemicals	Dr.C R Ramakrisnaiah	5450.00
17	Aparna P M	CV	Cadmium Removal From Industrial Effluent Using Natural Adsorbents	Dr M C Sampath Kumar	7000.00
18	Varun Kumar V	CV	Development of Methodology for Construction of Shallow Masonry Dopmes ithout form work	Dr. S Raghunath	15000.00
19	Sujith K	CV	Suitability of Soils with Non-kaolinitic Minerals for Rammed Earth	Dr.Prasanna Kumar	15000.00

Sl. No	Name of the students in the group	Department	Project names	Name of the guide	Amount approved for award of financial assistance (Rs)
20	Veekshith Kumar Rai	CV	Study on Geopolymer mortar using waste foundry sand	Dr.Ranganath R V	3080.00
21	Hitheswara Reddy	CV	Rammed earth with gabs as stabilizer properties and performance	Dr.Prasanna Kumar	12000.00
22	Shashidhara K	CV	Removal of Heavy Metals from aqueous solutions using waste eggshells	Smt.Prathima B	10000.00
23	Deepak B Sajjanar	CV	An Experimental Study on Removal of Heavy Metals Using Low Cost Adsorbents from Waste Water	Dr. M C Sampath Kumar	11000.00
24	Waseem Raza	CV	Adsorption Studies to Evaluate the Containment Transport Rates of Copper ION in Black-Cotton Soil and Flyash Mixtures	Dr.Maya Naik	15000.00
25	Sharal Marts	CV	Distribution and Migration of Heavy metals around Bellandur Lake area	Dr.C R Ramakrisnaiah	10870.00
26	Meghana Bhatt S	CV	Removal of Dyes Using Nano-material	Smt.Prathima B	8000.00
27	Abhilash G	CV	Removal of Heavy metals using adsorption technique	Dr.C R Ramakrisnaiah	9500.00
28	Sharanabasava V Patel	CV	Experimental assesment of ceramic waste as replacement of filler material for BC-II mix	Sri.H S Sathish	12250.00
29	Karthik K B	CV	Experimental investigation of partial replacement of natural aggregates with recycled aggregates	Sri.H S Sathish	10000.00
30	Shravya H D	CV	Study on Expansive Soil Treated with Copper Slag (PG Study)	Dr.Sureka Naagesh	10000.00
31	Madan Gowda N	CV	Study on Engineering Properties of BC Soil treated with RBI grade81 and Sisal fibres	Dr.Sureka Naagesh	12000.00
32	Adarsh N V	CV	Experimental Study on Utilization of Industrial Waste Materials in Self-Compacting Concrete	Dr.Girish S	15000.00
33	Gowtham C	CV	Evaluation of Rutting Performance in Plain & Modified Bituminous Concrete mix using steel slag as partial filler Replacement	Dr.K.Ganesh	14300.00
34	Harijayakrishna A	CV	Evalvation of red earth,bentonite & GGBS mixture as liner material to contain chomium in waste	Dr.Maya Naik	15000.00
35	Darshan S V	CV	Effect of Flakiness Index on Rutting Characteristics in plain & Modified Bituminous Concrete Mixes	Dr.K.Ganesh	14000.00
36	M Akshatha	CV	Rutting Studies on Plain & Modified Bituminous Concrete Mix Using Foundry Sand By Partial Filler Replacement	Dr.K.Ganesh	15000.00



Sl. No	Name of the students in the group	Department	Project names	Name of the guide	Amount approved for award of financial assistance (Rs)
37	Prajwal D T	CV	Studies on Tensile strength characteristics of modified SMA Mix with partial fibre replacement of validation of fatigue test	Dr. K.Ganesh	5850.00
38	Shobhit Chandra	CV	Laboratory Investigation on modified DBM Mix with GGBS as partial filler replacement for validation of Indirect Tensile Fatigue Test	Dr. K.Ganesh	8600.00
39	Raju	CV	Experimental investigation of GFC using C & D waste material	Dr.H.S.Jagadeesh	10000.00
40	Kanthraj K S	CV	Regression analysis of noise data	Dr.L.Udaya Simha	5000.00
41	Mahammad Sameer	CV	Removal of Hexavalent chromium by using active agent extracted from biocoagulant	Dr.L.Udaya Simha	8000.00
42	Susheel	ME	Vibration attenuation using damping medium for rotating shaft	Dr.G.Gridhara	15000.00
43	Madhu Kumar K P	ME	Studies on E glass, S glass Hybrid Polymer Matrix Composites	Sri.Madhav Murthy	15000.00
44	Pooja B R Anoop Kiran A Sindhu Priya R	ECE	Design & Implementation of multi processor system using Rpi SBCs and MPI standard interface	Dr.B.S.Nagabhushana	7510.00
45	Kashinath H Meghana Govardhan Pooja N Bhat	ECE	GPU Accelerators for AI Applications (Purchase In USD-299)	Dr.Veena M B	10000.00
46	Shreevidya S Vinutha T S	ISE	Girl Children anti-rape safety belt	Dr.M Dakshayini	7728.00
47	Akshay G Darshan Kumar S B Jayashree H Mahith M Shwetha	ISE	Smart Room Automation	Dr.Radhika K R	7370.00
48		CHL	Development of biodegradable water bottles and testing of those bottles	Dr.G.N.Rameshaiah	9650.00
49	Gajendra Prasad J	CHL	Electricity production from continuous microbial fuel cell using poultry waste water	Sri.Soumen Panda	17300.00
50	Dhriti V	CHL	Aqueous two phase extraction for purification of C-Phycocyanin pigments	Dr.Chetan A Nayak	12688.00
51	Manasa A	CHL	Preparation of edible water bubble	Dr.G.N.Rameshaiah	8880.00
52	Sahana Channaveeresh Hiremath	CHL	Isolation of Omega 3 Fatty acid from fish oil	Dr.C.T.Puttaswamy	16450.00
53	Vidyashree	CHL	Preparation of flat sheet composite membranes of cellulose acetate for forward osmosis membrane process	Dr.Chetan A Nayak	7250.00
54	Yathish Muddappa P P	ME	Enhancing the damping techniques in composite laminates	Dr.G.Giridhara	15000.00
<b>Total</b>					<b>612701.00</b>



**LIST OF STUDENT BATCHES APPROVED FOR AWARD OF FISCAL INCENTIVE TOWARDS PROMOTING RESEARCH INTEREST  
AMONG THE UG STUDENTS UNDER TEQIP-III DURING THE ACADEMIC YEAR 2017-18**

Sl. No	Name of the students in the group	Department	Project names	Name of the guide	Amount approved for award of fiscal incentive (Rs)
1	Ashraf Ali Ayushman A Simha Chaitanya Giridhar Kunal Kumar Nitish Kumar	CV	Parking Management for Metro Station	Sri.Dheeraj Kumar N	10000.00
2	Utkarsh Singh Asiwal Abhinav Pandey Arina Chauhan Aashutosh Kumar Thakur	CV	Travel Demand Estimation along Metro Corridor	Sri.Dheeraj Kumar N	10000.00
3	Rahul E Mohammed Arbaz K Prakash Sajjan Nandish P S Pavan B	CV	A study on Influence of Terrazyme & Rice Husk Ash as admixtures on the Engineering of Compressed Stabilized Earth Blocks	Dr.H B Nagaraj	15000.00
4	Sandeep Yadav Y Rohan Tandure Sachin Kumar D Ramesh B M Sathish Kumar M	CV	Experiment investigation of impact resistance on Geo polymer concrete	Sri.Sreenivasa Murthy A	15000.00
5	Manmohan Balaji Mahesha Patil Nikhil B Jain Prasad D Rakesh B	CV	Study of effects of Marshall properties in plain & modified Bituminous concrete mix with foundry sand as partial filler replacement	Dr.K.Ganesh	10000.00
6	Ashish Gagan B R Mudit Raj Lakshmikanth Pawar Kuludeep Singh V R	CV	Comparative studies on tensile strength characteristics for plain & modified Bituminous concrete mix with rice husk ash as partial filler replacement	Dr.K.Ganesh	10000.00
7	Nithin Gowda H D Abhilash Reddy B S Abhishek Bharath Praveen B J Adarsh M	CV	Scientific assesment of work ability SCC by using marginal materials	Dr.Girish S	15000.00
8	Sunil Chavan Jagadeesh S N	CV	Durability Aspects of Geopolymer Concrete	Sri.Sreenivasa Murthy A	15000.00
9	Manaswini M M Nishal Sharon Pranav S Rishab Jain Ashwin Zachariah	CV	Application of nanotechnology for the rejuvenation of varthur lake water(Pilot Study)	Dr.M C Sampath Kumar	15000.00
10	Mohamed Saqlain C K Pooran H M Suhass D B Manjunath S C	CV	Structural Masonry with Geopolymer Mortar	Dr.P.Prasanna Kumar	15000.00
11	Amit Kumar Dileep Gauri Misale Nirmala M Jayashree S	CV	Strength properties of Geopolymer mortar for table moulded brick masonry	Dr.P.Prasanna Kumar	14900.00
12	Sahana P M Siddhi Mangal Srija S Saatvik Reddy Raiesh Dev	CV	Behaviour of geogrid reinforced elements	Dr.B.V.Ravishankar	15000.00
13	Muttaraju Nauall S Suraj Prashanth S Sumit Kulkarni Santhosh Giddassavar Swaroop S O	CV	Adobe blocks with Rice Husk Ash and Terrazyme	Sri. Nagaraj H B	15000.00
14	Uday S Tejas Gowda S Madhunaik N	CV	Travel behaviour and Activity analysis along Namma Metro	Sri.Dheeraj Kumar N	10000.00
15	Nayana M Shivaranjini A Manya S Santosh M R Prathan T	CV	A study on using artificial aggregate in concrete	Dr.S Girish	15000.00
16	Tejas Vishweshwara P Chinmaya Rajath A V Madhusudhan N Suhass A Kedilaya	ME	Fluidic Thrust Vectoring by Shock Vector Control	Sri.Ramesh M C	15000.00

17	Shivam Kumar R Shreyas Kamath Varun Acharya Yash Bhupal	ME	Designing a prototype stair claiming wheel chair	Dr.Giridhar G	15000.00
18	Jaikrishna Y Lokesh J K Mahesh Tom Naveen C	ME	Designing & analysis of PIV system	Sri.K.Ramesh	15000.00
19	Adhithya Krishna Akash R J Akshay R Deogir Gautham G	ME	Dynamic vibration control of a washing machine using magneto-rheological fluid damper	Sri.Rajesh P	15000.00
20	Rakesh G P Pranav Swaroop B N R Abhishek Prabhat Savanur	ME	Robot Automation	Dr.Vinod C Aralimatti	15000.00
21	Abhilash S Ashrit Bheemappa Madar Prathamesh Shivpuri Rahul Vadarge	ME	Fabrication of Automatic Gear Shifting in Two Wheeler	Dr.M G Patil	15000.00
22	Helmut Ngathem Kapil Chhetri Mayur Panduranga Kodikal Myron Chris Menezes	ME	Fabrication and Performance Analysis of Thermo Acoustic Refrigerator Made of Pvc	Dr.Bheemsha	15000.00
23	Abdullah Khan A Darshan H R Thilak H S Ullas Reddy	ME	Lumped Thermal Capacitance method of Transient Temperature Analysis	Dr.L.Raviumar	15000.00
24	Srikanth K B Suchith K Sandeep R Prajwal S	ECE	Vision based automotive system with V2V communication	Dr.G.Poornima	13500.00
25	Heethesh Vhavle Naresh Adithya Bhat K Akshay U Hegde	ECE	Ardop 2.0	Sri.Harish V Mekeli	10000.00
26	Aravind G Madhusudan Santhosha K S Shrikanta V	ECE	Smart class room-Inhouse solution	Dr.M.N.Suma	10910.00
27	Akshay S Rao Akshay S S Gaurav	IEM	Design and Development of Wearable Chair	Dr.K J Rathanraj	15000.00
28	Manav Mehra Mohammed Zohaib Nesar Prafulla Ronak Mehta	CSE	Analysis and Automation of Plant Growth in a Hydroponic System	Smt.Panimozhi K	10000.00
29	Aishwarya K S Harish M Prathibhashree S	CSE	Automated Aquaponics	Smt.Panimozhi K	6295.00
30	Ankitha B K Chandana E Rashmi K Suma K	TCE	Smart Auto-Detection Vehicle System	Sri.Manjunath P S	8200.00
31	Ajith G Narasimha Bharadwaj C Naveen Kumar T S Sriharsha Nag T S	TCE	UAV aided Irrigation using Object Detection through wireless communication technology	Dr.C Gururaj	14000.00
32	Kiran V Parvatekar Shebin M Zacharia Shreya V Sheelvant Tanya Nanaiah	TCE	Enviro-dron-A Drone That Purifies Air	Smt.Ambika K	12300.00

33	Harshini V C Harshita B Nikhil Srikar	TCE	Ignition Interlock System	Dr.Rajeshwari Hegde	10000.00
34	Lavanya K N Nischitha B R Ramya Shree D T Asha	TCE	Vision Interfaced War Field Robot with Wireless Video Transmission	Dr.C Gururaj	8200.00
35	Divya Prakash Harshita Radesh Shruthi Janardhan	TCE	A Threshold Based Reliable Fall Detection Algorithm Sensor Using Tri Axial Accelerometer	Dr.Prasanna Kumar	10000.00
36	Tejashwini G Chaitra S Yuvashree K Ranjita C V	TCE	Voice Controlled Spy Robot	Sri.Shreenivas B	5000.00
37	C B Manikantha Sushanth S Raghu P	TCE	Drive Cycle Analysis for Indian Roads	Dr.Rajeshwari Hegde	14700.00
38	Rohit Rozario P Vinutha G H	ML	Barille based SMS System for the visually challenged	Dr.Manisha Joshi	1000.00
39	Shivani K M Vaishnavi T N	ML	Cloud based real time monitoring of vital parameters	Dr.S.B.Bhanu Prashanth	5940.00
40	Manan Singhal Adaikkammai S Evangeline Smita	ML	Virtual Reality in rehabilitating amputees with phantom limb pain	Sri.Abhishek Appaji	5000.00
41	Vindhiya K Masthi Akash B Kaushal R.Neelakandan Chaitra Chikkagoudar	CH	CFD Simulation analysis through a experimental based study of heat transfer enhancement in heat exchanger using nano fluid.	Smt.Shabnam Siddiqui	10000.00
42	Harsha R Rao K.S.Shraddha S.Sai Swetha Srishti Gupta	CH	Ozone assisted photocatalytic degradation OF Laundry Grey Water	Dr.G.Keerthiga	5250.00
43	Ashritha Anand Deeshani Laxmesh Salian	BT	Screening of antifungal bioactive components from Euphorbia nerifolia for prevention of stem bleeding disease in cocount trees	Sri.Chandraprasad M S	12000.00
44	Anish Raju R Amara Chandan B K	BT	Screening of Anti-Cancer Compounds from Phyllanthus Embelica	Sri.Ashok Kumar	9000.00
45	B V Sai Sinduri Ranjitha Guttapadu	BT	Screening for Herbicidal Properties of Phytochemicals Extracted from Pomegranate Peel	Sri.Pradeep S	10000.00
46	Piyusha K Varshini L Swathi S	BT	Synthesis Characterisation and Application of Ginesinoside Phytosomes	Smt.Praphulla Rao	10000.00
47	Apoorva B S S Deepak	BT	Production and Characterization of Biodiesel by Enzymatic Method	Sri.Ashok Kumar	10000.00
48	Anup Ghimire S Varsha Vismitha S	BT	Degradation Feather A Poultry Waste Product by Keratinolytic Bacteria and Fungi	Dr. M Rajyalakshmi	13500.00
49	Adhithi Venkatesh Aishwarya V A Sastry Apeksha Kaushik Sharashi Siri	BT	Purification of Methanol Tolerant Bacterial Lipases & Study of Factors Affecting Their Efficiency in Biodiesel Production	Sri.Chandraprasad M S	10500.00
50	Midhun Mandhar Rachana D S Yash Kaundlya Sudhiksha Kaushik	BT	Designing of Microbial Fuel Cell for Waste Water Treatment and Generation of Electricity	Smt.Prathibha N	12000.00
51	Megha Suresh Nandini B S	BT	Comparison of elicitors on production of indole alkaloids from Catharanthus roseus	Sri.Hadagali Ashok	8000.00
<b>Total</b>					<b>590195.00</b>

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME -III [Comp 1.3]  
DETAILS OF DISBURSEMENT OF FISCAL INCENTIVE/FINANCIAL ASSISTANCE TO UG / PG  
STUDENTS' PROJECTS**

Sl. No	Dept	UG/PG	Names of the students	Project Title	Name of the guide	Amount disbursed (Rs)
1	CV	UG	Ashraf Ali Ayushman A Simha Chaitanya Giridhar Kunal Kumar Nitish Kumar	parking Management for Metro Station	Sri.Dheeraj Kumar N	10,000.00
2	CV	UG	Utkarsh Singh Aswal Abhinav Pandey Arina Chauhan Aashutosh Kumar Thakur	Travel Demand Estimation along Metro Corridor	Sri.Dheeraj Kumar N	9,950.00
3	ME	UG	Tejas Vishweshwara P Chinmaya Rajath A V Madhusudhan N Suhas A Kedilaya	Fluidic Thrust Vectoring by Shock Vector Control	Sri.Ramesh M C	15,000.00
4	BT	UG	Ashritha Anand Deeshani Laxmesh Salian	Screening of antifungal bioactive components from Euphorbia nerifolia for prevention of stem bleeding disease in coconut trees	Sri.Chandraprasad M S	12,000.00
5	BT	UG	Anish Raju R Amara Chandan B K	Screening of Anti-Cancer Compounds from Phyllanthus Embelica	Sri.Ashok Kumar	9,000.00
6	BT	UG	B V Sai Sinduri Ranjitha Guttapadu	Screening for Herbicidal Properties of Phytochemicals extracted from Pomegranate Peel	Sri.Pradeep S	9,994.00
7	BT	UG	Piyusha K Varshini L Swathi S	Synthesis Characterisation and Application of Ginesinoside Phytosomes	Smt.Praphulla Rao	10,000.00
8	BT	UG	Apoorva B S S Deepak	Production and Characterization of Biodiesel by Enzymatic Method	Sri.Ashok Kumar	9,991.00
9	BT	UG	Anup Ghimire S Varsha Vismitha S	Degradation Feather A Poultry Waste Product by Keratinolytic Bacteria and Fungi	Dr.M Rajyalakshmi	13,500.00
10	CV	PG	Uday S Tejas Gowda S Madhunaik N	Travel behaviour and Activity analysis along Namma Metro	Sri.Dheeraj Kumar N	9,980.00
11	CV	UG	Rahul E Mohammed Arbaz K Prakash Sajjan Nandish P S Pavan B	A study on Influence of Terrazyme & Rice Husk Ash as admixtures on the Engineering of Compressed Stabilized Earth Blocks	Dr.H B Nagaraj	15,000.00
12	TCE	UG	Ankitha B K Chandana E Rashmi K Suma K	Smart Auto-Detection Vehicle System	Sri.Manjunath P S	8,200.00
13	TCE	UG	Ajith G Narasimha Bharadwaj C Naveen Kumar T S Sriharsha Nag T S	UAV aided Irrigation using Object Detection through wireless communication technology	Dr.C Gururaj	14,000.00

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME -III [Comp 1.3]  
DETAILS OF DISBURSEMENT OF FISCAL INCENTIVE/FINANCIAL ASSISTANCE TO UG / PG  
STUDENTS' PROJECTS**

Sl. No	Dept	UG/PG	Names of the students	Project Title	Name of the guide	Amount disbursed (Rs)
14	TCE	UG	Kiran V Parvatekar Shebin M Zacharia Shreya V Sheelvant Tanya Nanaiah	Envidron-A Drone That Purifies Air	Smt.Ambika K	12,300.00
15	TCE	UG	Harshini V C Harshita B Nikhil Srikar	Ignition Interlock System	Dr.Nagabhushana	10,000.00
16	TCE	UG	Lavanya K N Nischitha B R Ramya Shree D T Asha	Vision Interfaced War Field Robot with Wireless Video Transmission	Dr.C Gururaj	8,200.00
17	TCE	UG	Divya Prakash Harshita Radesh Shruthi Janardhan	A Threshold Based Reliable Fall Detection Algorithm Sensor Using Tri Axial Accelerometer	Dr.Prasanna Kumar	10,000.00
18	CV	UG	Sandeep Yadav Y Rohan Tandure Sachin Kumar D Ramesh B M Sathish Kumar M	Experiment investigation of impact resistance on Geo polymer concrete	Sri.Sreenivasa Murthy A	15,000.00
19	CV	PG	Syed Adman Arif	Relationship Between MOE & Prism Strength for Masonry	Dr.Mangala Keshava	15,000.00
20	CV	PG	Praveen Kumar T L	Studies onAcrylic Based Mortar Composites	Dr.S.Raghunath	10,075.00
21	CV	PG	Munikrushnappa V	An Experimental Study on Behaviour of HCB Masonry Made With Recycled Mortar	Dr.Mangala Keshava	14,250.00
22	CV	PG	Chaitra S Hokrani	Parking Studies & Management at Metro Station	Sri.Dheeraj Kumar N	10,000.00
23	CV	PG	Swathi Krishna B	Speed Flow Relationship Along Metro Corridor	Sri.Dheeraj Kumar N	10,000.00
24	CV	PG	Akash D Sajjanar	Singal Synchronization Along Metro Line	Sri.Dheeraj Kumar N	15,000.00
25	CV	PG	Vijaykumar K	Experimental Evauation Geogrid Reinforced Cementatious Matrix on the Performance of Masonary Infilis	Dr.A S ArunKumar	15,000.00
26	CV	PG	Meghana	Evaluation of Relationship Between Compressive Strength & Modulus of Elasticitu of Masonry Materails	Dr.Mangala Keshava	11,400.00

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME -III [Comp 1.3]  
DETAILS OF DISBURSEMENT OF FISCAL INCENTIVE/FINANCIAL ASSISTANCE TO UG / PG  
STUDENTS' PROJECTS**

Sl. No	Dept	UG/PG	Names of the students	Project Title	Name of the guide	Amount disbursed (Rs)
27	CV	PG	Bhanuprasad H	Combined Effect of Waste Foundry Sand, Galss Fibre and Fly Ash in Concrete	Dr.A S ArunKumar	13,173.00
28	CV	PG	Shivalingayya	Develpoment of Ultra-high Performance Fiber Reinforced Concrete	Dr.Ranganath R V	14,490.00
29	CV	PG	Nikesh Jain	Study on the role of wet-density to achieve ultra high performance concrete	Dr.Ranganath R V	14,060.00
30	BT	UG	Adhithi Venkatesh	Purification of Methanol Tolerant Bacterial Lipases & Study of Factors Affecting Their Efficiency in Biodiesel Production	Sri.Chandraprasad M S	10,500.00
			Aishwarya V A Sastry			
			Apeksha Kaushik			
			Sharashi Siri			
31	CV	PG	Akshay Shankar gowda patil	Studies on use of Emulsion in warm mix Asphalts	Dr.H S Jagadeesh	15,000.00
32	CV	PG	Kiran V	Experimental Studies to Characterize Gradation Segregation of Asphalt Mix	Dr.H S Jagadeesh	15,000.00
33	CV	PG	Irshad Ahmed H A	Experimental Investigation of OGFC using RAP	Dr.H S Jagadeesh	9,000.00
34	CV	PG	Sharon Ranjitha	Solidification/Stabilization of Expired Chemicals	Dr.C R Ramakrisnaiah	5,500.00
35	CV	PG	Aparna P M	Cadmium Removal From Industrial Effluent Using Natural Adsorbents	Dr M C Sampath Kumar	7,000.00
36	CV	PG	Varun Kumar V	Development of Construction Methodology & strength evaluation of Shallow Masonry Dams without form work	Dr. S Raghunath	15,000.00
37	CV	PG	Sujith K	Suitability of Soils with Non-kaolinitic Minerals for Rammed Earth	Dr.Prasanna Kumar	15,000.00
38	CV	PG	Veekshith Kumar Rai	Study on Geopolymer mortar using waste foundry sand	Dr.Ranganath R V	3,080.00
39	CV	PG	Hitheswara Reddy	Rammed earth with gabs as steblizer properties and perfarmce	Dr.Prasanna Kumar	12,000.00
40	CV	PG	Meghana Bhatt S	Removal of Dyes Using Nano-material	Smt.Prathima B	8,000.00
41	CV	PG	Abhilash G	Removal of Heavy metals using adsorption technique	Dr.C R Ramakrisnaiah	6,136.00
42	CV	UG	Manmohan Balaji	Study of effects of Marshall properties in plain & modified Bituminious concrete mix with foundary sand as partial filler replacement	Dr.K.Ganesh	10,000.00
			Mahesha Patil			
			Nikhil B Jain			
			Prasad D			
			Rakesh B			
43	CV	UG	Ashish	Comparative studies on tensil strength characterstics for plain & modified Bituminious concrete mix with rice husk ash as partial filler replacement	Dr.K.Ganesh	10,000.00
			Gagan B R			
			Mudit Raj			
			Lakshmikanth Pawar			
			Kuludcep Singh V R			

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME -III [Comp 1.3]  
DETAILS OF DISBURSEMENT OF FISCAL INCENTIVE/FINANCIAL ASSISTANCE TO UG / PG  
STUDENTS' PROJECTS**

Sl. No	Dept	UG/PG	Names of the students	Project Title	Name of the guide	Amount disbursed (Rs)
44	CV	UG	Nithin Gowda H D Adarsh M Abhilash Reddy B S Abhishek Bharath Praveen B J	Scientific assesement of work ability SCC by using maraginal materials	Dr.Girish S	15,000.00
45	ME	UG	Shivam Kumar R Shreyas Kamath Varun Acharya Yash Bhupal	Designing a prototype stair claiming wheel chair	Dr.Giridhar G	15,000.00
46	ME	UG	Jaikrishna Y Lokesh J K Mahesh Tom Naveen C	Designing & analysis of PIV system	Sri.K.Ramesh	15,000.00
47	ME	UG	Adhithya Krishna Akash R J Akshay R Deogir Gautham G	Dynamic vinbration control of a washinh machine using magneto-rcheological fluid damper	Sri.Rajesh P	12,663.00
48	CV	PG	Sharanabasava V Patel	Experimental assesment of ceramic waste as replacement of filler material for BC-II mix	Sri.H S Sathish	12,250.00
49	CV	PG	Karthik K B	Experimental investigation of partial replacement of natural aggregates with recycled aggregates	Sri.H S Sathish	10,000.00
50	CV	PG	Shravya H D	Study on Expansive Soil Treated with Copper Slag (PG Study)	Dr.Sureka Naagesh	10,000.00
51	CV	PG	Madan Gowda N	Study on Engineering Properties of BC Soil treated with RBI grade81 and Sisal fibres	Dr.Sureka Naagesh	12,000.00
52	CV	PG	Adarsh N V	Experimental Study on Utilization of Industrial Waste Materials in Self-Compacting Concrete	Dr.Girish S	14,223.00
53	CV	PG	Gowtham C	Evaluation of Rutting Performance in Plain & Modified Bituminous Concrete mix using steel slag as partial filler Replacement	Dr.K.Ganesh	14,300.00
54	CV	PG	Darshan S V	Effect of Flakiness Index on Rutting Characteristics in plain & Modified Bituminous Concrete Mixes	Dr.K.Ganesh	14,000.00
55	Cv	PG	M Akshatha	Rutting Studies on Plain & Modified Bituminous Concrete Mix Using Foundry Sand By Partial Filler Replacement	Dr.K.Ganesh	15,000.00
56	IEM	UG	Akshay S Rao Akshay S S Gaurav	Design and Development of Wearable Chair	Dr K J Rathanraj	15,000.00
57	CV	UG	Sunil Chavan Jagadeesh S N	Durability Aspects of Geopolymer Concrete	Sri.Sreenivasa Murthy A	15,000.00
58	CV	UG	Manaswini M M Nishal Sharon Pranav S Rishab Jain Ashwin Zachariah	Application of nanotechnology for the rejuvenation of varthur lake water(Pilot Study)	Dr.M C Sampath Kumar	15,000.00

25

087

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME -III [Comp 1.3]**  
**DETAILS OF DISBURSEMENT OF FISCAL INCENTIVE/FINANCIAL ASSISTANCE TO UG / PG**  
**STUDENTS' PROJECTS**

Sl. No	Dept	UG/PG	Names of the students	Project Title	Name of the guide	Amount disbursed (Rs)
59	CV	UG	Amit Kumar Dileep Gauri Misale Nirmala M Jayashree S	Strength properties of Geopolymer mortar for table moulded brick masonry	Dr.P.Prasanna Kumar	9,673.00
60	CV	PG	Raju	Experimental investigation of GFC using C & D waste material	Dr.H.S.Jagadeesh	10,000.00
61	ECE	UG	Srikanth K B Suchith K Sandeep R Prajwal S	Vision based automotive system with V2V communication	Dr.G.Poornima	13,175.00
62	ECE	PG	Aravind G Madhusudan Santhosha K S Shrikanta V	Smart class room-Inhouse solution	Dr.M.N.Suma	10,910.00
63	ECE	PG	Heethesh Vhavie Naresh Adithya Bhat K Akshay U Hegde	Ardop 2.0	Sri.Harish V Mekeli	10,000.00
64	ML	PG	Rohit Rozario P Vinutha G.H	Barille based SMS System for the visually challenged	Dr.Manisha Joshi	1,000.00
65	CV	UG	Sahana P M Siddhi Mangal Srija S Saatvik Reddy Rajesh Dey	Behaviour of geogrid reinforced elements	Dr.B.V.Ravishankar	14,070.00
66	ML	PG	Shivani K M Vaishnavi T N	Cloud based real time monitoring of vital parameters	Dr.S.B.Bhanu Prashanth	4,518.00
67	ML	PG	Manan Singhal Adaikkammai S Evangeline Smita	Virtual Reality in rehabilitating amputees with phantom limb pain	Sri.Abhishek Appaji	2,595.00
68	CH	PG	Gajendra Prasad J	Electricity production from continuous microbial fuel cell using poultry waste water	Sri.Soumen Panda	15,000.00
69	CH	PG	Dhriti V	Aqueous two phase extraction for purification of C-Phycocyanin pigments	Dr.Chetan A Nayak	5,890.00
70	CH	PG	Sahana Channaveeresh Hiremath	Isolation of Omega 3 Fatty acid from fish oil	Dr.C.T.Puttaswamy	10,396.00
71	CH	PG	Vidyashree	Preperation of flat sheet composite membranes of cellulose acetate for forward osmosis membrane process	Dr.Chetan A Nayak	6,395.00
72	CH	UG	Vindhiya K Masthi Akash B Kaushal R.Neelakandan Chaitra Chikkagoudar	CFD Simulation analysis through a experimental based study of heat transfer enhancement in heat exchanger using nano fluid.	Smt.Shabnam Siddiqui	9,195.00
73	CH	UG	Harsha R Rao K.S.Shraddha S.Sai Swetha Srishti Gupta	Ozone assisted photocatalytic degradation OF Laundry Grey Water	Dr.G.Keerthiga	5,250.00
74	CV	UG	Muttaraju Nauali S Suraj Prashanth S Sumit Kulkarni Santhosh Giddassasavar Swaroop S O	Adobe blocks with Rice Husk Ash and Terrazyme	Dr.Nagaraj H B	15,000.00
75	CV	UG	Nayana M Shivaranjini A Manya S Santhosh M R Prathap T	A Study on using Aritifical Aggregate in Concrete	Dr S Girish	15,000.00



**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME -III [Comp 1.3]  
DETAILS OF DISBURSEMENT OF FISCAL INCENTIVE/FINANCIAL ASSISTANCE TO UG / PG  
STUDENTS' PROJECTS**

Sl. No	Dept	UG/PG	Names of the students	Project Title	Name of the guide	Amount disbursed (Rs)
76	BT	UG	Midhun Mandhar Rachana D S Yash Kaundlya Sudhiksha Kaushik	Designing of Microbial Fuel Cell for Waste Water Treatment and Generation of Electricity	Smt.Prathibha N	12,000.00
77	BT	UG	Megha Suresh Nandini B S	Comparison of elicitors on production of indole alkaloids from Catharanthus roseus	Sri.Hadagali Ashok	8,024.00
78	TCE	UG	C B Manikantha Sushanth S Raghu P	Drive Cycle Analysis for Indian Roads	Dr.Rajeshwari Hegde	11,207.00
79	ME	PG	Madhu Kumar K P	Studies on E glass,S glass Hybrid Polymer Matrix Composites	Sri.Madhav Murthy	15,000.00
80	ME	UG	Abhilash S Ashrit Bheemappa Madar Prathamesh Shivpuri Rahul Vadarge	Fabrication of Automatic Gear Shifting in Two Wheeler	Dr.M G Patil	15,000.00
81	ME	UG	Helmut Ngathem Kapil Chhetri Mayur Panduranga Kodikal Myron Chris Menezes	Fabrication and Performance Analysis of Thermo Acoustic Refrigerator Made of Pvc	Dr.Bheemsha	15,000.00
82	TCE	UG	Tejashwini G Chaitra S Yuvashree K Ranjita C V	Voice Controlled Spy Robot	Sri.Shreenivas B	5,000.00
<b>Total</b>						<b>9,29,513.00</b>

# Annexure - 9

Annexure-I

Name of the Institution: B.M.S. College of Engineering, Bengaluru 560 019, Karnataka

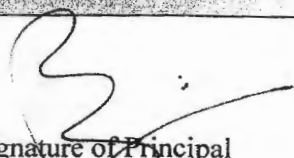
GOOD GOVERNANCE DEVELOPMENT PLAN (GDP)		
A. PRIMARY ACCOUNTABILITIES	ASSESSMENT SCALE Circle the number best reflects the quality and standard of Governance Practiced at the Institution. 0= Non-existent, not aware 1= Extensive improvements needed (25% or less clear supporting evidence) 4= Annual monitoring shows clear evidence of good governance in all areas, as well as year-on-year development. (75% or more clear evidence)	SUPPORTING EVIDENCE 1. Give at least two of the STRONGEST EXAMPLES that support each grade/question under each section. 2. Give an overall summary assessment grade based on the evidence gathered for each section.
1. Has the Governing Body approved the institutional strategic vision, mission and plan - identifying a clear development path for the institution through its long-term business plans and annual budgets?	0 1 2 3 (4)	The Board of Governors (BOG) is constituted as per the UGC guidelines for Government Funded /Aided Autonomous Institution. The BOG meets 3-4 times in a year. The BOG approves the Strategic Plan both (short term and long term) and continuously monitor its implementation through designated committees.
2. Has the Governing Body ensured the establishment and monitoring of proper, effective and efficient system of control and accountability to ensure financial sustainability (Including financial and operational controls, risk assessment and management, clear procedures for managing physical and human resources)	0 1 2 3 (4)	The BOG ensures the establishment and monitoring of proper, effective and efficient system of control and accountability to ensure financial sustainability by way constituting statutory and non-statutory committees. The role and responsibilities of these committees are defined. The BOG has constituted subcommittee comprising of BOG members exclusively to monitor the TEQIP III activities and its quality implementation.
3. Is the Governing Body monitoring institutional performance and quality assurance arrangements? Are these benchmarked against other institutions (including accreditation, and alignment with national and international quality assurance systems) to show that they are broadly keeping pace with the institutions they would regard as	0 1 2 3 (4)	The BOG periodically reviews the academic performance of all the Departments and also interact with the stakeholders concerned. A robust system of academic audit is in place to ensure the academic processes are meeting the desired outcomes. The BOG also takes cognizance several external audits/inspection reports by

their peers or competitors to ensure and enhance institutional reputation?		various apex bodies and brings in modifications if any in the concerned processes.
4. Has the Governing Body put in place suitable arrangements for monitoring the head of the institution's performance?	0 1 2 3 ④	The Head of the institution performance is monitored by process of obtaining annual feedback by all the faculty members. The BOG also monitors progress of the institution by several activities conducted and the report submitted by the head of the institution on the extent of compliance to the strategic plan, which is a reflection of the progress through performance.
<b>AVERAGE GRADE</b>	<b>4</b>	
<b>TOTAL POSSIBLE POINTS</b>	<b>16</b>	
<b>B. OPENNESS &amp; TRANSPARENCY IN THE OPERATION OF GOVERNING BODIES</b>	<b>ASSESSMENT SCALE</b> Circle the number best reflects the quality and standard of Governance Practiced at the Institution. 0= Non-existent, not aware 1= Extensive improvements needed (25% or less clear supporting evidence) 4= Annual monitoring shows clear evidence of good Governance in all areas as well as continuous development. (75% or more clear evidence)	<b>SUPPORTING EVIDENCE</b> 1. Give at least two of the <b>STRONGEST EXAMPLES</b> that support each grade/question under each section. 2. Give an overall summary assessment grade based on the evidence gathered for each section.
1. Does the Governing Body publish an annual report on institutional performance?	0 1 2 3 ④	The BOG reviews the Monthly report of activities conducted at the department & institution level in digital form. In addition Annual Quality Assurance Report is also prepared. The annual and periodical reports also presented by the Head of the institution in the BOG meetings. All the reports are published on the college website as an act of transparency.
2. Does the Governing Body maintain, and publicly disclose, a register of interests of members of its governing body?	0 1 2 3 ④	Yes
3. Is the Governing Body conducted in an open manner, and does it provide as much information as possible to students, faculty, the general public and potential employers on all	0 1 2 3 ④	Yes

aspects of institutional activity related to academic, performance, finance and management?		
<b>AVERAGE GRADE</b>	<b>4</b>	
<b>TOTAL POSSIBLE POINTS</b>	<b>12</b>	
<b>C. KEY ATTRIBUTES OF GOVERNING BODIES</b>	<b>ASSESSMENT SCALE</b> Circle the number best reflects the quality and standard of Governance Practiced at the Institution. 0= Non-existent, not aware 1= Extensive improvements needed (25% or less clear supporting evidence) 4= Annual monitoring shows clear evidence of good governance in all areas, as well as year-on-year development. (75% or more clear evidence)	<b>SUPPORTING EVIDENCE</b> 1. Give at least two of the <b>STRONGEST EXAMPLES</b> that support each grade/question under each section. 2. Give an overall summary assessment grade based on the evidence gathered for each section.
1. Are the size, skills, competences and experiences of the Governing Body, such that it is able to carry out its primary accountabilities effectively and efficiently and ensure the confidence of its stakeholders and constituents?	0 1 2 3 (4)	The BOG has been constituted as prescribed in the statutes of the UGC. The BOG members are highly qualified comprising of senior faculty, alumni, industrialists and educationalists. The BOG is sufficient to carry out its primary accountabilities effectively and efficiently.
2. Are the recruitment processes and procedures for governing body members rigorous and transparent?	0 1 2 3 (4)	The recruitment process & procedures adopted for BOG are transparent as the nominations are made by various apex bodies such as University, State Government, UGC following the UGC guidelines.
3. Does the Governing Body have actively involved independent members and is the institution free from direct political interference to ensure academic freedom and focus on long term educational objectives?	0 1 2 3 (4)	The institution is free from political interference and the BOG ensures smooth functioning of the academic activities.
4. Are the role and responsibilities of the Chair of the Governing Body, the Head of the Institution and the Member Secretary serving the governing body clearly stated?	0 1 2 3 (4)	Yes
5. Does the Governing Body meet regularly? Is there clear evidence that members of the governing body attend regularly and participate actively?	0 1 2 3 (4)	The BOG meets regularly; 3-4 meetings are conducted annually and the members are actively attending and participating, contributing to the academic growth and development.
<b>AVERAGE GRADE</b>	<b>4</b>	
<b>TOTAL POSSIBLE POINTS</b>	<b>20</b>	

D. EFFECTIVENESS AND PERFORMANCE REVIEW OF GOVERNING BODIES	ASSESSMENT SCALE Circle the number best reflects the quality and standard of Governance Practiced at the Institution. 0= Non-existent, not aware 1= Extensive improvements needed (25% or less clear supporting evidence) 4= Annual monitoring shows clear evidence of good governance in all areas, as well as year-on-year development. (75% or more clear evidence)	SUPPORTING EVIDENCE 1. Give at least two of the STRONGEST EXAMPLES that support each grade/question under each section. 2. Give an overall summary assessment grade based on the evidence gathered for each section.
1. Does the Governing Body keep their effectiveness under regular review and in reviewing its performance of the institution as a whole in meeting its long-term strategic objectives and its short-term indicators of performance/success?	0 1 2 3 ④	The BOG monitors the implementation of strategic plan of the institution through periodical reviews. The Chairman, BOG interacts with the HODs periodically and assess the progress of activities at the department. The BOG interacts with the student representatives during the meetings and seek their inputs about the existing conditions in the institution.
2. Does the Governing Body ensure that new members are properly inducted, and existing members receive opportunities for further development as deemed necessary?	0 1 2 3 ④	Yes, the existing members ensure that the new members are properly inducted.
AVERAGE GRADE	4	
TOTAL POSSIBLE POINTS	8	
E. REGULATORY COMPLIANCE	ASSESSMENT SCALE Circle the number best reflects the quality and standard of Governance Practiced at the Institution. 0= Non-existent, not aware 1= Extensive improvements needed (25% or less clear supporting evidence) 4= Annual monitoring shows clear evidence of good governance in all areas, as well as year-on-year development. (75% or more clear evidence)	SUPPORTING EVIDENCE 1. Give at least two of the STRONGEST EXAMPLES that support each grade/question under each section. 2. Give an overall summary assessment grade based on the evidence gathered for each section.
1. Does the Governing Body ensure regulatory compliance* and, subject to this, take all final decision on matters of fundamental concern to the institution?	0 1 2 3 ④	Yes, The regulatory compliance will be reviewed by the BOG during its meetings.

2. Does the regulatory compliance include demonstrating compliance with the 'not-for profit' purpose of the education institutions?		Yes
3. Has there been accreditation and/or external quality assurance by a national or professional body? If so, give details: name, status of current accreditation etc.		All the 12 UG programmes are accredited by National Board of Accreditation. In addition, the institution is also accredited by NAAC.
<b>AVERAGE GRADE</b>	<b>4</b>	
<b>TOTAL POSSIBLE POINTS</b>	<b>4</b>	

  
 Signature of Principal  
 Principal  
 BMS College of Engineering  
 Bengaluru-19



**THE DETAILS OF FACULTY/STAFF MEMBERS WHO HAVE ATTENDED/ ATTENDING PROGRAMS OUTSIDE THE COLLEGE UNDER TEQIP-III APPROVED BY BOG SUB-COMMITTEE BY CIRCULATION**

Sl. No	Name of the faculty/staff Designation & Dept	Details of Program	Place	Date	Amount in Rupees
1.	Dr. S. Muralidhara Professor, Civil Engg & Dean (First Year BE)	Two days' workshop on "Outcome Based Education for Engineering Programs"	FET MJP Rohilkhand University, Bareilly	March 20-21, 2018	30,000/-
2.	Dr. B G Prasad Professor & HOD Computer Sc & Engg				30,000/-
3.	Dr. G. Varaprasad Associate Professor Computer Sc & Engg	IEEE Conference on "Wireless Communication, Signal Processing and Networking" (WiSPNET)	SSN College of Engineering, Chennai	March 22-24, 2018	17,760/-
4.	Dr. B G Prasad Professor & HOD Computer Sc & Engg	Workshop on "Document preparation Process of SAR"	FET MJP Rohilkhand University, Bareilly	April 01-02, 2018	40,000/-
5.	Sri. Selva Kumar S Assistant Professor Computer Sc & Engg	Workshop on "Hands-on for Mobile application Development"	FET MJP Rohilkhand University, Bareilly	April 02-06, 2018	15,000/-
6.	Sri. Syed Akram Assistant Professor Computer Sc & Engg				15,000/-
7.	Smt. Beena Ullala Mata Associate Professor Medical Electronics	International Conference on Advances in Science and Technology ICAST 2018	K J Somaiah Institute of Engineering and Information Technology, Mumbai	April 06-07, 2018	17,118/-
8.	Dr. B R Ramji Assistant professor IEM	Short term course on Industrial Relations, Make in India and Skill India: Issues and Challenges	Rajiv Gandhi School of Intellectual Property Law, IIT Kharagpur	May 27-31, 2018	10,000/-
9.	Smt. Shailaja V N Assistant professor IEM				13,000/-
10.	Dr. Gowrishankar Professor Computer Sc & Engg	6th International Conference on Advance Computing and Informatics (ICACNI 2018)	NIT, Silchar, Assam	June 04-06, 2018	36,000/-
11.	Sri. Sudheer Shenoy Instructor Electronics and Communication Engineering	Five days skill development program on proficiency building on Vivado & Matlab Software	BMSIT, Bangalore	June 11-15, 2018	2,500/-
12.	Sri. Umesh R Assistant Instructor Electronics and Communication Engineering	Five days skill development program on proficiency building on Vivado & Matlab Software	BMSIT, Bangalore	June 11-15, 2018	2,500/-
13.	Smt. Yashasvini Technical Assistant Electronics and Communication Engineering				2,500/-

14.	Smt. Anitha H M Assistant professor Information Science and Engineering	International Conference on Intelligent Computing and Control Systems (ICICCS 2018)	Vaigai College of Engineering, Madurai	June 13-15, 2018	12,100/-
15.	Dr Chetan A Nayak Assistant Professor Chemical Engineering	Workshop on "Biomimetic and Biological Soft Materials"	IIT, Hyderabad	June 27-30, 2018	10,472/-
16.	Sri. Balaji R Procurement Manager	One day MIS Training Programme of TEQIP-III	VJTI, Mumbai	June 27, 2018	12,000/-
17.	Smt. Rajeshwari Hedge HOD Telecommunication Engineering	Workshop on summer school on Signal processing, communications and networks	IIT Bombay	July 02- 05 , 2018	16,000/-
18.	Sri. Balachandra K Assistant professor Telecommunication Engineering				16,000/-
19.	Sri. J Ramamurthy Mechanic Electrical & Electronics Engineering	Vocational training short term course on "Electric Motor"	Foreman Training Institute, Bengaluru	July 02-06, 2018	2,350/-
20.	Dr. Vijayalakshmi K Associate professor Medical Electronics	18th IEEE International Conference on "Advanced Learning Technologies	IIT, Bombay	July 09-13, 2018	23,000/-
21.	Smt. Bhagyalakshmi L Foreman Telecommunication Engineering	Workshop on "Electronic Circuit Simulation using ORCAD"	Apex Hitech Institute , Bengaluru	July 09-13, 2018	1,860/-
22.	Smt. A N Saritha Assistant Instructor Telecommunication Engineering				1,860/-
23.	Sri. M S Venkatesh Instructor Telecommunication Engineering				1,860/-
24.	Sri. G L Venkatesha Instructor Medical Electronics				1,860/-
25.	Sri. Manjunath L Assistant Instructor Computer Sc & Engg	Workshop on "Objected oriented Programming using with core java"	Apex Hitech Institute , Bengaluru	July 09-20, 2018	5,600/-
26.	Sri. Kotturesha G Assistant Instructor Computer Sc & Engg				5,600/-
27.	Sri. Naveen G Mechanic Computer Sc & Engg	Workshop on "Objected oriented Programming using with core java"	Apex Hitech Institute , Bengaluru	July 09-20, 2018	5,600/-
28.	Sri.Prathap N Mechanic IEM	Two week short term course on "CNC Programming Turning & Milling"	KGTTI Training Institute, Bengaluru	July 09-20, 2018	10,300/-
29.	Sri. Mahesha K B Mechanic IEM				10,300/-
30.	Sri. Krishnamurthy V Helper IEM				10300/-



31.	Sri. Shivakumar Swamy D Foreman Incharge Electrical & Electronics Engineering	Vocational training and short term course on "Motor Controls"	Foreman Training Institute, Bengaluru	July 09-20, 2018	2,350/-
32.	Sri. R M Shivaraju Instructor Electrical & Electronics Engineering				2,350/-
33.	Sri. Nataraj J Helper Electrical & Electronics Engineering				2,350/-
34.	Dr.B.V.Ravishankar Vice Principal & TEQIP Coordinator	Performance Management System for "Faculty of TEQIP Institutions"	NPIU, New Delhi	July 10, 2018	20,000/-
35.	Sri.Prabhu Swamy N R Assistant professor Mechanical Engineering	International Conference on "Advancements in Materials for Manufacturing" (ICAAMM-2018)	MLR Institute of Technology, Hyderabad	July 13-14, 2018	19,003/-
36.	Smt. Bharathi V Assistant professor Mechanical Engineering				19,003/-
37.	Dr.K.Mallikharjuna Babu Principal	International "Conference on Transformations in Engineering Education" (ICTIEE AP-2018)	SRM University, Amaravathi	July 16-17, 2018	14,000/-
38.	Dr.B.Kanmani Professor Telecommunication Engineering and Dean (Academic)				14,500/-
39.	Dr.Rajeshwari Hegde HOD Telecommunication Engineering				10,000/-
40.	Dr.Savithri M Bhat HOD Biotechnology	International Conference on "Transformations in Engineering Education" (ICTIEE AP-2018)	SRM University, Amaravathi	July 16-17, 2018	14,500/-
41.	Dr. Samita Maitra Professor Chemical Engineering				14,500/-
42.	Dr.H.S.Jagadeesh Professor Civil Engineering				14,500/-
43.	Dr.Aralimatti V C Professor Mechanical Engineering				14,500/-
44.	Dr.Indiramma M Professor Computer Science & Engineering				14,000/-
45.	Dr.Kavitha Sooda Associate Professor Computer Science & Engineering				7,414/-

46.	Smt. T. Anusha Lalitha Assistant Professor Telecommunication Engineering				10,000/-
47.	Smt.Pushpavathi P Assistant Professor Telecommunication Engineering				10,000/-
48.	Sri. Appaji M Abhishek Assistant Professor Medical Electronics				13,200/-
49.	Sri.Shivakumar R Assistant Professor Chemical Engineering				14,583/-
50.	Smt. Muthamma SDA Computer Science & Engineering	Workshop on "Management Development Programme"	Apex Hitech Institute , Bengaluru	July 16-20, 2018	2,850/-
51.	Smt. Yamunaa R Instructor Electronics & Instrumentation Engineering	Workshop on "PCB designing and fabrication using ORCAD"	Apex Hitech Institute , Bengaluru	July 16-20, 2018	1,860/-
52.	Sri. Jagadeesh T N Typist Mechanical Engineering	Course on " Computer Proficiency"	District Training Institute, Bengaluru	July 16-20, 2018	1,250/-
53.	Sri.Shanmukhananda V Foreman Incharge IEM	One week short term course on "Management Skills"	Apex Hi-Tech Training Institute, Bangalore	July 16-20, 2018	3,360/-
54.	Sri. Suresh T S Assistant Instructor IEM				3,360/-
55.	Sri. K Satya Narayana Reddy Technical Assistant R & D center	Workshop on 'Aero modeling RC plane and Quad rotor training program"	Skyfi education labs Pvt Ltd, Bangalore	July 16 -21, 2018	6,370/-
56.	Smt. Disha M Nayak Assistant professor IEM	Workshop on "Data Analysis using R Programming and Predictive Modeling"	JSSATE, Bengaluru	July 23-27, 2018	4,130/-
57.	Sri.Shivarak Kumar M Assistant Instructor Telecommunication Engineering	Workshop on "Arduino Programing"	Apex Hitech Institute , Bengaluru	July 23-27, 2018	1,860/-
58.	Smt.Shamala N Bhat Technical Assistant Telecommunication Engineering				1,860/-
59.	Smt. Milana C P Assistant Instructor Electrical & Electronics Engineering	Short term course on "Micro Controllers & Applications"	Foreman Training Institute, Bengaluru	August 27- 31,2018	4,700/-
60.	Dr. Padmayathi K Associate Professor Electrical & Electronics Engineering	International Conference on "New Trends in Engineering & Technology" (ICNTET)	GRT Institute of Engineering and Technology, Chennai	Sept 07-08, 2018	7,700/-

**THE DETAILS OF STUDENTS WHO HAVE ATTENDED/ATTENDING THE PROGRAMS  
OUTSIDE THE COLLEGE UNDER TEQIP- III APPROVED BY BOG SUB-COMMITTEE BY  
CIRCULATION**

Sl No.	Name of the student, & Dept	Details of Program	Place	Date	Amount in Rupees
1.	Lavanya G S UG student Civil Engineering	Symposium on National Level Competition AAKAAR	IIT Bombay	March 17-18, 2018	1,760/-
2.	Rajeshwari Madli Research scholar Computer Science & Engineering	IEEE Conference on Wireless Communication Signal Processing and Networking	SSN College of Engineering, Tamil Nadu	March 22-24, 2018	9,760/-
3.	Chandrupa D R PG student Information Science and Engineering				10,360/-
4.	Chinmoyi H S Nadig UG Student Electrical & Electronics Engineering	International Conference on Inventive Research in Material Science and Technology	Coimbatore	March 22-24, 2018	12,000/-
5.	Sudha B G Research scholar Computer Science & Engineering	7 <sup>th</sup> International Conference on Communication and Signal Processing (ICCSP 2018)	Adhiparasakthi Engineering College, Melmaruvathur Tamil Nadu	April 03-05, 2018	8,000/-
6.	Snehalatha Bharthi PG student Civil Engineering	International Conference on ICONSET 2018	ACS College of Engineering, Bangalore	April 19-20, 2018	3,000/-
7.	Deepak B Sajjanar PG student Civil Engineering				3,000/-
8.	Sreejita Ghosh PG student Civil Engineering				3,000/-
9.	Manaswini M PG student Civil Engineering				3,000/-
10.	Vinay. S PG student Computer Science & Engineering	Conference on Inventive Communication and Computational Technologies	Coimbatore	April 20-21, 2018	6,750/-
11.	Gowtham K L PG student Mechanical Engineering	National Conference on Advances in Mechanical Engineering	Jawaharlal Nehru National College of Engineering, Shivamogga	April 20-21, 2018	1,411/-
12.	Sriharsha Nag T S UG student Telecommunication Engineering	IEEE International Conference on Trends in Electronics and Informatics (ICOEI 2018)"	SCAD Engineering College & Technology, Thirunelveli, Tamilnadu	May 11-12, 2018	8,450/-
13.	T Asha UG student Telecommunication Engineering				8,450/-

14.	Aprameya C R PG student Mechanical Engineering	5 <sup>th</sup> International Conference on "Applied Science, Engineering and Technology" (ICASET-18))	Sairam College of Engineering, Anekal, Bengaluru	May 17-18, 2018	3,500/-
15.	Krishna R Dixit UG student Computer Science & Engineering	2018 3 <sup>rd</sup> IEEE International Conference on "Recent Trends in Electronics & Communication Engineering"	Venkateshwara College of Engineering, Bengaluru	May 18-19, 2018	4,920/-
16.	Tilin Oommen PG student Electrical & Electronics Engineering				5,200/-
17.	Y Shashi Kiran UG student Telecommunication Engineering	Internship training on FOSSEE Summer Fellowship-IITB	IIT, Bombay	June 01 to 6 July, 2018	7,800/-
18.	Suman Patil PG student Information Science & Engineering	7 <sup>th</sup> International Conference on Innovations in Electronics & Communication Engineering(ICIECE- 2018)	GNI , Hyderabad	July 27-28, 2018	5,500/-
19.	Anirvdh Gururaj Jamkhandi UG student Electrical & Electronics Engineering	IEEE International Conference on "Computing, Power and Communication Technologies 2018" (IEEE GUCON 2018)	Galgotias University, Greater Nodia, UP	September 28-29, 2018	9,700/-

**DETAILS OF INHOUSE PROGRAMS CONDUCTED/PROPOSED TO BE CONDUCTED IN THE COLLEGE UNDER TEQIP- III APPROVED BY BOG SUB-COMMITTEE BY CIRCULATION**

Sl No.	Name of the Department	Title of Program	Programme Dates	Amount (Rs)
1.	Industrial Engineering & Management	Workshop on "Finite Element Analysis"	March 17, 2018	10,500/-
2.	Industrial Engineering Management & Chemical Engineering	Three days Finishing School on "Soft Skills- Assessment and Training"	April 05-07, 2018	83,000/-
3.	Industrial Engineering & Management	Workshop on "Failure Mode Effective Analysis" (FMEA)	April 11, 2018	23,800/-
4.	Mechanical Engineering & Chemical Engineering	Three days Finishing School on "Documentation through MS Office and Latex"	April 17, 19 & 20, 2018	18,600/-
5.	Electrical & Electronics Engineering	Workshop on "Control systems"	April 18-20, 2018	53,800/-
6.	Electrical Electronics Engineering and Electronics & Instrumentation Engineering	FDP on "Multidomain system Modelling and Simulation Using Modelica"	June 04-08, 2018	65,050/-
7.	Electronics and Communication Engineering and Computer Science Engineering	FDP "Big Data and Machine Learning"	June 11-15, 2018	26,250/-
8.	Mechanical Engineering	SDP "Machine Tools Maintenance"	June 18-22, 2018	78,500/-
9.	Startup cell	BMSCE "Start-up Week"	June 18-23, 2018	3,09,000/-
10.	Electronics and Communication Engineering and Electronics & Instrumentation Engineering	SDP on "Professionalism and Skill Development"	July 02-13, 2018	68,000/-
12.	Industrial Engineering and Management	Training on "Welding"	July 09-13, 2018 and July 16-20, 2018	67,220/-
13.	Industrial Engineering Management	FDP on "Design for Sustainability"	July 16-20, 2018	95,000/-
14.	Electronics & Communication Engineering and Computer Science & Engineering	Student Internship on Hands on in "Network Lab"	July 23-27, 2018	21,500/-
15.	Industrial Engineering Management & Chemical Engineering	Three days' workshop on "Use of Chemicals in Laboratory - Safety"	August 02-04, 2018	10,350/-

**THE DETAILS OF FACULTY MEMBERS WHO HAVE PROPOSED FOR ATTENDING PROGRAMS  
OUTSIDE THE COLLEGE UNDER TEQIP-III**

Sl. No	Name of the faculty/staff Designation & Dept	Details of Program	Place	Date	Amount in Rupees
01.	Dr. J. Sharana Basavaraj Associate Professor Mechanical Engineering	Five day workshop on "CAD Modeling , Matlab and Ansys"	FET MJP Rohilkhand University, Bareilly	August 06-10, 2018	30,000/-
02.	Dr. Shivashankar R Srivatsa Assistant Professor Mechanical Engineering				30,000/-
03.	Dr. Santhosh D Assistant Professor Mechanical Engineering				30,000/-
04.	Sri. Shashiraj Assistant Professor Mechanical Engineering				30,000/-



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
Autonomous Institute, Affiliated to VTU

**IMPLEMENTATION OF STRATEGIC PLAN - 2013-2020**  
For the Period from 01.07.2017 till date

PRESENTED TO  
THE BOARD OF GOVERNORS, B.M.S. COLLEGE OF ENGINEERING  
on 29.10.2018

**STG 1 GET PERMANENT AFFILIATION FOR ALL ELIGIBLE PROGRAMS**

The University (VTU) has accorded Permanent Affiliation status to 12 UG Programmes and 10 eligible PG Programmes for the Period from 2013-14 to 2018-19. (Ref. letter No. VTU/Aca-2018-19 dated 21.07.2018). For the next Academic Year i.e. 2019-20 onwards, the institution has submitted application seeking Permanent Affiliation Status for 18 UG/PG Programmes and Temporary Affiliation for 11 UG/PG Programmes

**STG 2 GET ACADEMIC AUTONOMY FOR PG PROGRAMMES**

The PG programme (M.Tech, MBA & MCA) are run under Autonomous stream from AY 2016-17. It may also be noted that the University Grants Commission (UGC) has granted of Extension of Autonomous Status for a period of six years 2016-17 to 2021-2022 (Current Status). The VTU has confirmed the same. This confirms the complete autonomous status of the Institution uptill 2022.

**STG 3 Strengthening the Campus Facilities/Support System**

Civil	Bitumen, cement, concrete and soil Fatigue Testing Machine, Laboratory California Bearing Ratio Test Apparatus-Electronic, Ductility Testing Machine with digital display and cooling arrangement, Compression testing frame - 3000 kN, Electronic Universal Extensometer/ Compression
ML	Thermal Camera, Open Lab ARM kit, Portable EEG Machine, Eno-Bio 8 Channel EEG Acquisition
MBA	Digitalization of Library using LIBSOFT 9.8.5 Professional Version
IS	Zend and Dreamweaver software is procured to enhance the lab facilities, Lenovo Desktop, Smart Board, Printers etc
TE	The license of QualNet network simulator tool was upgraded from 6.0 to 8.1
EE	The Department in association with CARES inaugurated BMSCE- CARES Centre Of Excellence in Solar Photovoltaics
CH	Gel Rocker, Weighing Balances Chemical Oxygen Demand(COD) Apparatus, Flask Shaker, Mechanical Orbital Shaker, Muffle Furnace, Olympus Magnus Microscope, Vacuum Pump etc



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
Autonomous Institute, Affiliated to VTU

InTN	License for PSPICE –ORCAD capture software obtained for PCB lab-10 numbers, Arduino boards, raspberry pi Boards added, Hardware lab augmented with new equipment's Power supply, CRO, Function generator, Software lab enhanced with DAQ Cards USB 6008, 6009 for data acquisition from various sensors, IC trainer kits added to hardware lab for enhancing Digital lab, Class rooms and seminar hall were fixed with speakers for enhancing course delivery New display/ notice boards are added.
EC	MOU with BLR labs for establishing Incubation center for supporting Training and Research in VLSI Technology.
ME	PLC Trainer Kit, Pneumatic Frame Base, Electro Pneumatic Components, Manual & Electro Hydraulics, Epson LCD Projects
IM	Flexible Manufacturing System: Mitsubishi Robot (6 axes), Fanuc Milling Machine and CNC Center. Lindo, lingo and What's Best Softwares installed.
CSE	Nvidia GPU cards are procured for R&D and TLP.
EE	The Department entered into agreement with Cares Renewables Pvt. Ltd., Coimbatore to modernize renewable energy and innovation lab

#### **STG 4      Improve Teaching Learning Process**

TLP methods adopted across departments are listed hereunder:

**CV:** Think – Pair –Share (TPS), quizzing, crosswords etc. NPTEL video lectures and demonstration of tools which are relevant to the courses etc. Alternate Assessment Tools, Project based Learning, Site Visits, Guest Lecture/Expert Lectures, **ME:** demonstration of machine tools which are relevant to the courses, Project based learning, Literature Survey, Seminar, Assignment with peer review, MOOCS, Wiksate, Open Ended Experiments, Edmodo, Industrial Visits, Guest Lectures, Co-curricular Activities. **IS:** Latest Software ComposeST, In Mobile Application Development course Apps are developed using Android Studio. **CHE:** Floated 4 institutional electives. **EC:** Open ended experiments, Final Project evaluation is done by Industry expert, Exposure to profession/industry through guest lectures, site and industry visits, Electronic circuits are simulated and tested for their results using simulation soft wares before they are actually connected on the bread board or on spring board, Experiment using Virtual Labs, EDMODO, WIKSATE & Information and Communication Technology platforms **ML:** Industry Involvement in teaching, Project/Activity based learning, Flipped classroom, Virtual Device Development and testing. **CH:** Edmodo, Google Classroom, Self-Study etc **EIE:** PPT, AAT, Open Ended Experiments, Project Evaluation by Industry Experts, Guest Lectures, Site & Industrial Visits, Virtual Labs, EDMODO, WIKSATE etc **MBA:** Ivey League Case studies, Course-based projects. **MCA:** quiz, seminars, presentations, Hands-on demos, Open ended Experiments, Self-Study, Alternate Assessment Techniques, Blended learning methods like QEEE, MOOCS, e-learning etc **CS:** project self-studies, project based learning and use of tools to conduct online quizzes: **IEM:** Impartus lecture capturing system, Google docs, Google drive, and Google site VTU Websites, Wiksate, Edmodo, A-View platform for screening the live lectures from IITs, NPTEL lectures, Complementing the Chalk and Talk methods with audio-visual aids using Power Point presentation, Videos and animations **BT:** Impartus, Moodle, screencast-O-matic tool, Edmodo, NPTEL and MOOCS, AAT, MATLAB Model making Virtual labs, Flipped Classroom.: **EE:** Usage of ICT in course delivery **MCA:** quiz, seminars, presentations, Hands-on demos, Open ended Experiments, Self-Study, Alternate Assessment Techniques during Teaching Learning process. Value-addition short-term courses, Student Workshops, IEEE Professional Activities





**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
Autonomous Institute, Affiliated to VTU

**STG 5 Enhance The Output in Research & Consultancy**

The increased number of publications, patents and consultancy summaries the institutions achievement in R&D. The Details of faculty publications/ Departmental activities for the period 2017-18 is listed hereunder.

SNo	Particulars	Total
1	Research publications- faculty in Intl journals	317
2	Research publications- faculty in Ntl journals	18
3	Faculty presented papers in Ntl/Intl Conference in India	201
4	Faculty Presented papers in Conferences abroad	12
5	Seminars/Workshop/Conference/Symposium organized	96
6	Industrial Visits	92
7	Invited/Guest/Expert Lectures organized by Depts	118

The institution has received a total of **22** external projects both from Govt. and Private sectors to the tune of **Rs.435.76** Lakhs for the Financial Year 2017-18.

- Owing to numerous initiatives introduced by the Management, for enthusing faculty to pursue Doctoral Degree, there has been considerable increase in the number of faculty with PhD Degree. Out of 341 faculty, 168 Possess PhD Degree and 83 are currently pursuing the Doctoral Studies.
- The Institution is a beneficiary of Technical Education Quality Improvement Programme [TEQIP] a world Bank assisted project launched by the Union Ministry of Human Resources and Development. A recipient of TEQIP I, TEQIP II and TEQIP-III. A total grant of Rs.2422.20 Lakhs has been received since 2012-13 onwards.
- IRG through consultancy (29 projects ) worth Rs.42.00 lakhs.
- Collaborations with Gothenburg University, Dillard University, India Platform, IUCEE and others.

**STG 6 Enhance Industry-Institute Collaborations**

- The institution has fostered linkages with many reputed industries to facilitate industrial exposure to students and subsequent help in placement of graduates in industries across the country. The Details of MOUs reached with industries for the AY 2018-19 is shown hereunder:

SNo	Industry with which MoU is signed	Year of signing MoU	Dept.
1	Udjan Energy Pvt Ltd.,	2018	ME
2	Solar Green Club	2018	ME
3	BLR LABS Privtae Limited	2018	EC
4	Udjan Energy Private Limited	2018	CH
5	Cognizant Technology services	2018	MBA

Presently a total of 69 MoUs are in vogue. The Departmentwise details of MOUs are presented hereunder



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
Autonomous Institute, Affiliated to VTU

Dept	MOUs	Dept	MOUs
BT	5	IEM	2
CH	3	ISE	2
CS	9	MBA	7
CV	2	MCA	3
EC	13	ME	9
EE	3	ML	8
TE	3		
<b>Total</b>			<b>69</b>

The Departmentwise details of industrial visits for the year 2018-19 is shown hereunder

Dept	Number of Indl Visits	Dept	Number of Indl Visits
CV	06	EI	04
ME	09	ML	02
EE	07	CH	05
EC	02	BT	01
IM	05	MBA	03
CS	02	MCA	05
TE	06	R&D	01
IS	34		
<b>Total</b>			<b>92</b>

Other activities:

- The Institution conducted Phase-Shift 2018 in collaboration with Industry Partners. About 80 industries participated in the Tech-Fest. The students had an opportunity to experience and get exposure to the Industry related problems.
- Industry participation in academic activities, hands on workshop by industry personnel and elective courses with industry support are some of the other activities conducted.
- The Department of EEE in association with CARES inaugurated BMSCE- CARES Centre Of Excellence in Solar Photovoltaics.
- Dr Balakrishna Haridas, Professor, Texas A&M< College Station, USA gave a guest lecture on Medical Device Innovation to Commercialization in Industry and Academia on March 22nd 2018
- Modules were developed in Machine Learning using the ComposeST software under the association with Altair
- Dr. Madhu G has solved three X-ray crystal structures of products of importance to pharma industry (dated 28th Aug 2018)
- Many Industry linked / supported laboratories are strengthened
- Industry participation in academic activities, hands on workshop by industry personnel and elective courses with industry support are some of the other activities conducted.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
Autonomous Institute, Affiliated to VTU

**STG 7 Introduce More PG Programmes**

Following the advice of the management, new PG Programmes was not preferred for the AY 2018-19. A UG Programme of Aerospace Engineering with an intake of 60 has been introduced commencing from 2018-19.

**STG 8 Bring in Innovation and Creativity**

**CV:** Workshop on "Start-ups: Skill Development & Opportunities" conducted/ Students Technical Fest NIRMAAN to promote Innovative Design Ideas. Open ended experiments: **ME:** Finishing school on 'MATLAB and Engineering Applications from 22.02.2018 to 24-02-2018 and on "Documentation through MS Office and LATEX" held from 17.04.2018 to 20-04-2018: **IM** Students trained on Lean Management by Shingo Institute of Japanese Management **CS:** 3 candidates successfully defended their thesis leading to PhD, Cloud computing lab is being setup under TEQIP grants **ISE:** APPCATS –a group of 40 students from ISE department were involved in developing the App for SEE time-table **EI:** Courses like Signaling and communication , IIOT was implemented, Linkage with IIT Bombay for FOSSEE project which is part of the National Mission on Education through ICT **ML** Centre for Innovation in Medical Electronics incubated a company called SASCAN who developed Oral Cancer Screening device, Digital X-Ray DST funded project completed, Smart Eye Kiosk for Community screening funded by NTFHP, Singapore completed **BT:** Student Inter-departmental research/Collaborative Research encouraged, Students are exposed to current research via guest lectures and workshops **MCA:** Making of STRIDE Magazine, Creative Writing, Designing Web pages for real world, Prototype design to simulate concepts and other activities encouraged **MBA:** Students have won a Cash Prize of Rs 25,000 in All India Level Business Plan Competition on Social Initiative Award in "MANTHAN-2018" organized by FKCCI, Bengaluru , June 1, 2018

**STG Introduce Multi-Disciplinary Courses/Projects**

- Open Electives (7<sup>th</sup> & 8<sup>th</sup> Semester)
- Open Elective for M.Tech 2<sup>nd</sup> Semester Students
- More Multi- Disciplinary Courses (electives) are being introduced for higher semester during the process of curriculum revision.

**STG 9 Establish e-Governance**

With a view to deliver transparent, efficient and cost effective services for its stakeholders the institution introduced various e-governance initiatives. The support process and activities of e-governance are listed hereunder:

- The admissions are handled by the customized software developed for the purpose. Electronic governance (e-governance) has been implemented to improve administration and management especially in the process of registration, admission, and student information, calendar of events, classes and reports.
- First year course registration is completely online including re-registration and re-admission.
- Institutional Elective, cluster electives & department electives are offered through online selection.



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
Autonomous Institute, Affiliated to VTU

- Fee payment through online via credit card, debit card, internet banking or wire transfer.
- Notifications of academic activities to students/ parents.
- Automatic generation of ID cards as and when admitted.
- Office records are being digitalized for archiving.
- Digitalization of Proctor Diary.
- Online registration portal for conducting International conference and workshop.
- Manual records converted into digital format.
- Bulk SMS and email facility.
- Generation of hall tickets
- One point access to student information
- Ongoing process for complete automation of college accounts.

Implementation of e-governance in the following areas of operation

<b>Areas of e governance</b>	<b>Name of the Vendor with contact details</b>
Planning and Development	Development of e-governance for making system digitized
Administration	Development of e-governance for making system digitized
Finance and Accounts	Tally Solutions
Student Admission and Support	LYBSYS (Library)
Student Admission and Support	Tech FocZ (Library)
Student Admission and Support	Inflibnet (Library)
Student Admission and Support	Olive Board (Placement)
Student Admission and Support	Data Capture
Student Admission and Support	E-Yantra
Student Admission and Support	Inpods & ELL scholar
Student Admission and Support	Blended MOOCs
Student Admission and Support	MATLAB
Student Admission and Support	ELL Scholar (Language Laboratory)
Student Admission and Support	AKS PLUS (Language Laboratory)
Examination	Examination Software (in-house)