

Agenda Notes  
23<sup>rd</sup> Meeting of Board of Governors



Government Engineering College  
Thrissur-680009

On  
30<sup>th</sup> July 2020 Thursday at 02:30 PM  
held online

## **23<sup>rd</sup> MEETING OF BOARD OF GOVERNORS**

**on 30.07.2020 at 02.30 PM, online**

### **AGENDA**

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1	Confirm the Minutes of 22 <sup>nd</sup> Meeting of the Board of Governors on 13/12/19	3
2	Review the actions taken report on the decisions in the 22 <sup>nd</sup> Meeting of the Board of Governors.	3
3	Presentation of activity reports by nodal officers	
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7	Ratification of activities carried out.	16
8	Approval of the conduct of international conference ICETEST 2020.	22
9	Approval of committee (revised) for III Cell.	22
10	Any other item permitted by the chair 1. Expenditure in connection with IPR submitted by Dr. Haris Naduthodi, Dept. of PE 2.	22

### 1. Approval of Minutes of 22<sup>nd</sup> BOG Meeting held on 13.12.2019

Draft Minutes of the Meeting is given in Annexure I.

### 2. Review the action taken report on the decisions in the 22<sup>nd</sup> meeting of the Board of Governors

No.	Decision item	Action taken	Action by
1	BoG suggested to take efforts to get NIRF ranking and setup department level committees for the same.	Applied for ranking and obtained an all india rank of 164 among engineering institutions.	Principal
2	BoG asked to take steps to improve the accreditation status of the institution.	The compliance report for 5 UG programs was submitted, visit was done and all programs have now been accredited upto June 2023.	Principal
3	BoG chairman asked to go for replacement of equipment purchased under TEQIP-II which have become obsolete	Two replacements being submitted for approval in this meeting are for Desktops and Laptops which are of current technology. Payment done for Rs. 12,03,541/-.	Nodal officer, Purchase
4	BoG chairman asked to present the IRG from consultancy accrued in between BoGs	An amount of Rs. 1,50,60,438/- has accrued in terms of consultancy fees of projects undertaken by faculty during the period since the last BoG	Nodal officer, Finance

### 3. Presentation of activity reports by nodal officers

#### 3.1 Presentation of Activity Report on Academic

##### 1. Faculty Publications from December 2019 to July 2020

Department	International journals	International conferences	National journals	National conferences	Total no. Of SCI indexed publications
CE	4	9	-	5	3
ME	7	6	-	5	4
EEE	8	4	-	-	3
CHE	12	3	1	3	5
PE	6	-	-	1	5

CSE	-	-	-	-	-
ECE	3	3	-	5	1

## 2. Transition rate

Transition rate of different batches in the academic year 2019-20 is as given below:

Department	CE	ME	EEE	ChE	PE	CSE	ECE
<i>Transition rate</i> (from S <sub>1</sub> to S <sub>2</sub> ) (2019 admission)	105/122 (86.1%)	108/125 (86%)	91/104 (87.5%)	58/60 (97%)	47/61 (77.05%)	55/60 (91.7%)	57/61 (93.44%)
<i>Transition rate</i> (from S <sub>3</sub> to S <sub>4</sub> ) (2018 admission)	58/109 (53.2%)	75/115 (65.2%)	55/110 (50%)	34/56 (61%)	15/34 (44.12%)	52/68 (76.5%)	32/68 (47.06%)
<i>Transition rate</i> (from S <sub>5</sub> to S <sub>6</sub> ) (2017 admission)	73/100 (73%)	88/116 (75.9%)	88/109 (80.7%)	41/54 (76%)	19/33 (57.57%)	48/64 (75%)	57/68 (83.8%)
<i>Transition rate</i> (from S <sub>7</sub> to S <sub>8</sub> ) (2016 admission)	77/98 (78.6%)	77/115 (66.95%)	92/113 (81.4%)	39/53 (74%)	20/32 (62.5%)	67/67 (100%)	52/69 (75.4%)

## 3. Placement details

264 students from B.Tech and 30 students from M.Tech got placed through campus placement. TCS, CTS, Infosys, EY, Oracle Apps, Oracle FSS, Reliance Industries, Nissan Digital, VKC, MRF, Cerium Systems, Wabco and Federal bank were some of the major recruiters from our campus.

Dept.	CE		ME		EEE		ECE		CSE		CHE		PE		Total	
Degree level	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG
<b>Students registered</b>	92	14	112	27	104	29	66	16	67	16	53	13	29	13	523	128
<b>Students offers received</b>	31	2	59	7	95	7	73	8	85	5	16	1	17	5	376	35
<b>Students Placed</b>	27	2	50	6	67	6	44	5	52	5	13	1	11	5	264	30

UG: 2016 Admission, PG: 2018 Admission

Placement percentage of UG students (w.r.t. Total number of students) = 64 %

Placement percentage of UG students (w.r.t. Number of students registered: ) = 72 %

Placement percentage of PG students (w.r.t. Total number of students) = 28 %

#### 4. Research and Development

DEPARTMENT	No. of Ph. D s produced	No. of faculties who were awarded PhD	No. Of Open seminars conducted
CE	1	0	1
ME	1	3	1
EEE	5	3	2
ChE	1	0	3
PE	3	0	2
ECE	0	1	0

#### 5. Remedial classes conducted

Department					
EEE	Semester	Subject	Name of faculty	No: of students attended	No: of hours engaged
	S2	EST 130 (Basics of Electrical Engineering)	Midhu Das B	1	3
	S6	Power System Analysis	Divya N A	46	4

CHE	<b>Semester</b>	<b>Subject</b>	<b>Name of faculty</b>	<b>No: of students attended</b>	<b>No: of hours engaged</b>
	S7	Transport Phenomena	Dr. Sajeena Beevi	6	8
	S3	Computer Programming in C++	Dr. Mercy Anna Philip	6	4
	S5	Mass Transfer Opearations	Dr. MAnju M. S	15	8
	S5	Chemical Reaction Engg	Mrs. Ranjana	10	4
	S3	Fluid Flow Opearations	Mrs. Syama S	10	3
	S3	Chemical Process Principles	Dr. Praseetha P. Nair	4	1

#### 6. Professional Society Achievements and Activities

DEPARTMENT	ACTIVITIES			
CE	Nirman 2020- in Techfest Dhyuthi 2020			
EEE	<b>Name of the activity</b>	<b>Dates and Place where conducted</b>	<b>No. of students who took part</b>	
	ISTE state convention	Jan 19 & 20 Govt.Engg College,Barton Hill	192	
	Soft Skill training,online webinar	May 2 2020,online	62	
	Online video making contest	May 8 2020,online	60	
CHE	2019-20			
	VFP		1	
	IIIC		1	
	B2C		3	

<b>CSE</b>	<p>a) <b>Young Innovators Programme (YIP 2019-22)</b> is a three-year fellowship programme under the Kerala Development and Innovation Strategy Council, (K-DISC). Anirudh, Ajay Ram K and Sooraj Bhaskaran of S4 Computer Science under the mentorship of Prof Ajay James designed a LASER based measurement marking device Precision-X.</p> <p>b) <b>Reboot Kerala Hackathon</b> is an initiative of the Department of Higher Education – Government of Kerala and the Additional Skill Acquisition Program (ASAP).  (i) Team Alpha from Government Engineering College Thrissur bagged second price in State level Agriculture Hackathon conducted at Mala, Thrissur. The team consists of Krishnanand VP, Shahala O, Fida Nasri, Aswin Kumar, Nandhu PK under the guidance of Prof. Ajay James.  (ii) Riswana T R, Abhay V Ashokan, Shashank Menon, Prabhav Rajeev, Misha Mohan and Annarose M B, under the guidance of Prof. Ajay James, won the second position in the State Level Health Hackathon.</p>
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## 7. Other Major Achievements

DEPATMENT	ACHIEVEMENTS
CE	No. of students Qualified GATE : 9 (2016-20 batch)
EEE	No. of students Qualified GATE : 12 (2016-20 batch) Alim Anto (AIR – 4),
ECE	No. of students Qualified GATE : 12 (2016-20 batch) Nitin C Babu (AIR – 12),
CSE	No. of students Qualified GATE : 15 (2016-20 batch) K B Aravind (AIR – 13), Aathira P T (AIR – 53)
CHE	No. of students Qualified GATE : 1 (2016-20 batch) Anvin John (AIR – 36)

The institution has supported government initiatives in controlling the spread of the pandemic in the state by devising several gadgets to support the efforts of the Break the Chain campaign of Health Department. Details are given in Annexure III

## Status of NBA Accreditation

Sl. No.	Dept	Course	Branch	accredited up to
1	CE	B.Tech	Civil Engineering	6/30/2023
2	CE	M.Tech	Environmental Engineering	6/30/2021
3	CE	M.Tech	Water Resources and Hydroinformatics	SAR # 3528/20/2/2019 was submitted on 21-6-2019 and waiting for visit
4	ME	B.Tech	Mechanical Engineering	6/30/2020
5	ME	M.Tech	Internal Combustion Engines and Turbo Machinery	Not applied as failed in prequalifier (UG marks < 650)
6	ME	M.Tech	Production Engineering	6/30/2020

7	EEE	B.Tech	Electrical and Electronics Engineering	6/30/2023
8	EEE	M.Tech	Power Systems	6/30/2021
9	EEE	M.Tech	Power Electronics	SAR # 3528/20/2/2019 was submitted on 21-6-2019 and waiting for visit
10	ChE	B.Tech	Chemical Engineering	6/30/2023
11	ChE	M.Tech	Process Control	6/30/2021
12	PE	B.Tech	Production Engineering	6/30/2023
13	PE	M.Tech	Manufacturing and Systems Management	SAR # 3528/20/2/2019 was submitted on 21-6-2019 and waiting for visit
14	CSE	B.Tech	Computer Science and Engineering	6/30/2023
15	CSE	M.Tech	Computer Science	Not applied as failed in prequalifier (insufficient faculty with PhD)
16	ECE	B.Tech	Electronics and Communication Engineering	6/30/2020
17	ECE	M.Tech	Communication Engineering and Signal Processing	Not applied as failed in prequalifier (UG marks < 650)

### 3.2 Presentation of Activity Report on Procurement

In the BOG meeting held on 13/12/2019, an amount of Rs. 12,13,731/- had been sanctioned for the maintenance and replacement of the 29 equipment purchased under Teqip. Out of these, 19 equipment are under processing. For other 10 equipment, the payment has been effected.

There are six items to be ratified by this BoG. Out of these 2 are for maintenance amounting to Rs.16,885/- and the remaining 4 are for replacement amounting to Rs.12,03,541/-.

There are 4 items requiring approval from the BoG. Out of these 3 items are for replacement amounting to Rs. 6,19,248/- and remaining is for maintenance amounting to Rs. 14900/-.

### 3.3 Presentation of Activity Report of III Cell Unit

- Signed MoU with Carborundum Universal Limited (CUMI), Kalamassery, Kochi on 14/01/2020

The following programmes were conducted

Sl No.	Name of Expert	Name of the programme	Coordinator of the programme	Amount
1	Mr. S. S. Sudhi, Deputy General Manager (Pr) Oil and Natural Gas Limited, Gujarat	Oil Industrial safety and safety practices followed by ONGC. 26.2.2020	Mr.Manoj N., Asst. Prof., in Chemical Engg. Dept.,	30429
				30429



Proposals amounting to Rs.84,000/- of IIIC programmes from various departments are submitted for approval of BoG.

### **3.4 Presentation of Finance Activity Report for the period upto Jul 28<sup>th</sup> 2020**

At present, the funds available under the various heads are

- Corpus Fund : Rs.58,69,017/-
- Faculty & Staff Develop. Fund : Rs.70,72,422/-
- Maintenance Fund : Rs.66,83,270/-
- Equipment replacement : Rs.56,75,622/-

TEQIP II FOUR FUNDS UTILIZATION						
Name of the Fund	Category of expenditure (Head of expenditure)	Sub-Activity	Total Expenditure up to 10.12.2019	Expenditure for the period 10.12.2019-28.07.2020	Total Expenditure up to 28.07.2020	Planned expenditure for the period of July - Dec2020
1	2	3	4	5	(6=4+5)	7
Corpus Fund	Academic support for students	Expenditure incurred on research projects taken by UG/PG students	16050	5085	21135	84616
		Expenditure incurred on research publications	27500	20760	48260	28331
		Remedial Class	56400	0	56400	0
		Visiting Faculty	186537	65931	252468	178000
		Industry Institute Interaction	0	20953	20953	92000
		Skill Development & Others	14772	1895	16667	0
		Total	301259	114624	415883	382947
	Incremental operating cost	Salary	233960	106290	340250	90000
		BoG meetings	96746	49628	146374	30000
		Stationary and other expenses	9849	9610	19459	6000
		Others	36579	19695	56274	12000
	Total Utilisation from Corpus Fund		678393	299847	978240	520947
Faculty Development	FSD	Expenditure on faculty members attended training in subject domain	90867	159393	250260	121340

Fund		Expenditure on faculty members attended pedagogical training	28000	149	28149	0
		Expenditure on organising in-house subject area training programmes / workshops / seminars / conferences etc	519786	8298	528084	520000
		Expenditure on participation by faculty in external seminars/conferences/workshops etc	186633	115154	301787	13859
		Expenditure on staff development	0	0	0	0
		Others	0	68392	68392	4069
	Total		<b>825286</b>	<b>351386</b>	<b>1176672</b>	<b>659268</b>
Equipment Replacement Fund	ERF	Equipment	0	1226851	1226851	619248
		Books	0	0	0	0
		Software	0	0	0	0
		Furniture	0	0	0	0
		Others	0	0	0	0
	Total		<b>0</b>	<b>1226851</b>	<b>1226851</b>	<b>619248</b>
Equipment Maintenance Fund	ECMF	Equipment Maintenance	0	91938	91938	688216
		Civil Works	0	0	0	0
		Others	0	0	0	0
	Total		<b>0</b>	<b>0</b>	<b>91938</b>	<b>91938</b>
<b>Grand Total</b>			<b>1503679</b>	<b>1970022</b>	<b>3473701</b>	<b>2487679</b>

#### 4. Amendment of guidelines for financial support in respect of project work by students

Clause 12 of Section 3 of the existing guidelines state that

Financial support may be granted to a maximum of two R & D projects in each department, with the recommendation of the HoD and approval from R&D committee. The permissible support will be decided by the committee, subject to a maximum of Rs.5000/- as seed money per project.

As some student projects which are innovative require more support, it is requested that the amount referred above be increased to Rs. 10000/-. Along with this the restriction per department also need to be lifted. The corrected guideline therefore is

*Financial support may be granted with the recommendation of the HoD and approval from R&D committee. The permissible support will be decided by the committee, subject to a maximum of Rs.10,000/- per project.*

#### 5. Amendment of guidelines for conduct of programs in online mode due to pandemic.

Due to the ongoing pandemic situation, it is difficult to conduct many programs in the traditional mode. It is required therefore to resort to online mode for the conduct such programs. Therefore a new set of guidelines is required for their conduct. The details are given in Annexure II. It may be discussed and approved with the necessary modifications.

#### 6. Approval of activities under various head

The following activities planned to be held during the next phase of the four fund period. Request that sanction be given.

##### Visiting Faculty Programme

	Expert for the Programme	Topic	Tentative date	Dept.	Estimate Amount
1	Dr.Thankaraja Asst. Professor,ME, VIT, Chennai	Alternate fuels	October 2020	ME	3000
2	Dr.Portatham Asst. Professor, ME VIT, Chennai	Alternate fuels	September 2020	ME	3000
3	Tapano Kumar hotta, VIT, Vellore,	Optimization of heat source	November 2020	ME	3000
4	Gnasekaran, NIT Karnataka,	Montecarlo methods, Heuristic optimization	November 2020	ME	3000
5	Ramanujam, IIT Buvaraneswar	ANN for Mechanical Engineers	December 2020	ME	5000
6	Mr.Vijay John, Toyota Technological Institute, Nagoya Japan	Automobile Engineering	November 2020	ME	5000
7	Dr. Abhilash Suryan College of Engg. Trivadrur	How to write an effective technical Paper?	01.08.2020	EEE	3000
8	Dr.G.Madhu, Professor,			ChE	3000

	SOE,CUSAT	Process Safety	August 2020		
9	Dr.Honey John, Professor, PSRT, CUSAT	Material Science	Sept 2020	ChE	3000
10	Dr. Vinod Janardhanan, Professor,IIT, Hyderabad.	Energy Conservation & Storage	October 2020	ChE	5000
11	Dr.Sumesh P Thampi Asst.Professor,IIT Chennai.	Fluid Mechanics	November-2020	ChE	5000
12	Dr. Anil Kumar M.V. Asst. Professor (CE) IIT Palakkad	Behaviour of steel structures	28/09/2020	CE	5000
13	Dr. Robin Davis, Asst. Professor(CE) NIT Calicut	Performance based Seismic Design	24/08/2020	CE	3000
14	Dr. Rupen Goswami, Associate Professor(CE) IIT Madras	Revision of Indian Seismic codes	26/10/2020	CE	5000
15	Dr. B S Murthy, Professor IIT Madras	Environmental Hydraulics	21.09.2020	CE	5000
16	Dr. Sudheer., Professor IIT Madras	GIS and Applications	26.08.2020	CE	5000
17	Dr. Santhosh G Thambi, Professor(CE) NIT Calicut	Hydrological Modelling	16.11.2020	CE	3000
18	Dr. Liji Jacob, Professor IIT Madras	Research Proposal	19.10.2020	CE	5000
19	Dr. Babu J Alappat, Professor, IIT Delhi	Incineration	26.10.2020	CE	5000
20	Dr. Mansoor Ahammed, Professor,NIT Surat	Water/ Waste water treatment, Municipal solid waste management	02.11.2020	CE	3000
21	Dr.Rahul A.V., Post Doctoral Researcher ,Ghent University, Belgium	Concrete 3D Printing	04.08.2020	CE	3000
22	Dr.Sarath P.Sathyan., Asso.prof., IIT Madrass	Fluid Mechanics	04.12.2020	CE	5000
23	Dr Roy Paily, IIT Guwahati	Custom IC design	Jul-20	ECE	5000
24	Dr.Jagadanand G,NIT Calicut	IoT based system design using Raspberry Pi	Jul-20	ECE	3000
25	Dr.Dhanraj,NIT Calicut	VLSI for communication	Aug 20	ECE	3000
26	Dr.Jagadanand G,NIT Calicut	Embedded System Design using PIC micro controllers	Aug 20	ECE	3000
27	Dr.Lyla B Das,NIT Calicut	ARM Processors	Sep 20	ECE	3000
28	Dr.T.K.Mani, Former Principal Model Engg. College Trhikkakkara	Project Design	Oct 20	ECE	3000
29	Dr.Chandran Saravanan., Asso.Prof., NIT Durgapur	Biomatrix image Processing	09.10.2020	CSE	3000
30	Dr.Madhu S Nair., Asso.Prof., CSE Dept., CUSAT	Soft computing Approaches for image Restoration and Enhancement	07.08.2020	CSE	3000
31	Dr.Vijay Krishna Menon, CUSAT	Big data Analytics with	08.08.2020	CSE	3000

		Spark and Scala			
32	Dr.Jayaraj P Balakrishnan., Asst.Prof., CSE Dept., NIT Calicut	Parallel Programming with CUDA	20.08.2020	CSE	3000
33	Dr.Sudeep K.S., Asst.Prof.,	Graph Theory and Algorithms	10.09.2020	CSE	3000
34	Prof., Siju Swamy, Asso.Prof., Mathematics	Reinforcement Learning	25.08.2020	CSE	3000
35	Dr.Asokan T., IIT Madrass	Robotics and Artificial Intelligence	Aug 2020	PE	5000
36	Dr.C.Rajendran, IIT Madrass	Recent Trends in SCM	Sep 2020	PE	5000
37	Dr.Balagopal G.Menon., IIT Kharagpur	Recent Developments in system Dynamics	Oct 2020	PE	5000
38	Dr.T.Radhakrishnan , NIT Calicut	Technology Management	Nov 2020	PE	3000
					<b>144000</b>

### **III Cell programmes**

Sl. No:	Name of the Expert	Topic	Dept.,	Date	Estimate Exp.
1	V . Balaji, R&D Manager Mercedes Benz, Bangalore	Solid Mechanics	ME	20.10.2020	3000
2	Jawad K A, Asst.Manager, Technology and Design	Supercritical steam turbines	ME	08.12.2020	3000
3	Dileep Cherian., Deputy Manager,, Forbes marshal Pvt.Ltd.	Thermal systems	ME	03.11.2020	3000
4	Raghu., Deputy Manager, TCC, Kochi	Maintenance Engineering	ME	29.09.2020	3000
5	Mr.Shyju S, Senior Process Instructor, ADNOC,UAE	Petrochemical operations: The products from Propylene.	ChE	20.08.2020	3000
6	Mr. Anish Mathew, Financial Analyst & Consultant (IIM), Bangalore.	Start-up initiatives in Chemical Engineering.	ChE	09.09.2020	3000
7	Mr.Koya Venkitta Reddy, Chief Manager, FEDO.	Process Engineering	ChE	30.09.2020	3000
8	Mr.Harinath Chief Manager, BPCL-MR	Optimization in Reifinery	ChE	05.10.2020	3000
9	Dr.Jayachandran Deputy General Manager(CP),FACT	Energy conservation	ChE	15.10.2020	3000
10	Mr.Sajo K.F Deputy General Manager(PD),FACT	Project Engineering	ChE	22.10.2020	3000

11	Mr.Suneeth S, Sr.Engineer, Green water treatment solutions, Abu Dhabi.	Water treatment	ChE	05.11.2020	3000
12	Mr.Padmanabhan G, Technical Director Environmental Resources Management, Bangalore	Environmental Engineering	ChE	25.11.2020	3000
13	Dr.Ahmed Basha,Joint Director.,(Rtd),CECRI) Karaikudi	Solving Chemical Engineering Problems using Maple	ChE	15.09.2020	3000
14	Mr. Eby., Executive Engineer, Pollution Control Board	Air Pollution Control	CE	04.09.2020	3000
15	Mr. Biju P.C., Executive Engineer., Project Division	Design of Water supply Project Using Customized Software	CE	09.10.2020	3000
16	Ms. Sree Lekshmi P.B., Environmental Engineer., Environmental Surveillance centre, Eloor.,	Industrial Water Pollution and IT Control	CE	06.11.2020	3000
17	Ms.Sindhu Kurup., Programme Manager, Wells Fargo , Bangalore	IT in Banking Industry Catering to Millennial Customers	EEE	14.08.2020	3000
18	Mr.Sibin Sam., Programme manager, Siemens, Bangalore	AI and Robotics	EEE	28.08.2020	3000
19	Dr Suresh Nair, Dr Suresh Nair, Founder of Design Alpha & ,Infopark, Kakkanad & Chief Technology Advisor at Foundation for Innovation in Social Entrepreneurship	Product Design	ECE	18.08.2020	3000
20	Dr Samuel, Project Manager, SFO Technologies(NeST ), Kakkanad	Optical Communication	ECE	29.09.2020	3000
21	Mr.KamalasananP.K., Sub Divisional Engineer, BSNL(Retd)	5 G Networks	ECE	12.08.2020	3000
22	Mr.Athulraj,Co-Founder, Quarous Technologies	Android Programming	ECE	14.08.2020	3000
23	Mr.Rajesh M,Scientist/Engineer D,NIELIT	IoT Security	ECE	21.10.2020	3000
24	Mr.Sureshkumar Gaddi,Senior Technical Officer, NIELIT	Arduino Programming	ECE	28.10.2020	3000
25	Er.Vinod K., DGM(Prod),OEN connectors, Kochi	Information systems for Production management	PE	09.09.2020	3000
26	Er.Sijimon, Asst.Manager, SIFL, Thrissur	Preventive maintenance in Forging Industry	PE	12.10.2020	3000
27	Dr.Ratheesh R, CMET, Hyderabad	Advanced Materials and their Processing	PE	24.11.2020	3000

28	Mr.Ashwin S., Senior Engineer., Redhat ,Bangalore	Controller in Software Design network	CSE	01.10.2020	3000
					<b>84000</b>

## 7. Ratification of activities carried out.

Expenditure on participation by faculty in external seminars / conferences/ workshops etc

SL No.	Name of the Faculty Member	Name of The programme	TA/DA
1	Dr.Lijo Davis, Prof., ME Dept.,	National Symposium on Shockwave(NSSW)2020 at IIT Madrass from 26-28 Feb 2020	<b>9359</b>
2	Dr.Meera V., Prof., CE Dept.,	“Scale control on pipe materials : A review” and Scale Control on Pipe Materials: A Review an International Conference Green Building & Sustainable Engineering(GBSE 2019) on 18-21 Feb 2019 held at Rajagiri School of Engineering &Technology (RSET) Kochi	<b>9500</b>
			<b>23359</b>

Expenditure on faculty and staff members attended subject domain training programmes

	Name of the Faculty Member	Name of The programme	Reg Fee
1	Ms.Helen K.J., Asso.Prof., CSE Dept.,	Faculty development programme on “Recent Trends in Computer Networking Technologies” organized by CSE Dept., CUSAT Kochi on 16-22 Dec 2019	5600
2	Ms.Mumthas O Y., Asst.Prof., EEE Dept.,	Faculty development programme on “Recent Trends in Computer Networking Technologies” organized by CSE Dept., CUSAT Kochi on 16-22 Dec 2019	5040
3	Ms.Premeelakumari., Asso.Prof., EEE Dept.,	Faculty development programme on “Electric Vehicle - Scope, Challenges and Developments” organized by EEE Dept., CUSAT Kochi on 03-10 Jan 2020	5940
4	Saurabh Sahadev., Asst.Prof., ChE Dept.,	Environmental Engineering and Management at CUSAT Kochi from 2-7march 2020	3910
5	Dr.Meera V., Prof., CE Dept.,	Environmental Engineering and Management at CUSAT Kochi from 2-7march 2020	5930
6	Ms.Syama S., Asst.Prof., Chemical Dept.,	Environmental Engineering and Management at CUSAT Kochi from 2-7march 2020	4920
7	Sijo Davis, Trade Instructor, Renjith P.U., Trade Instructor, Shaju M.K., Trade Instructor, Ashik A, Trade	Hardware in loop simulation for smart grid applications at NTTTR Chandigarh on 17 <sup>th</sup> to 21 <sup>th</sup> Feb 2020	45000



	Instructor, EEE Dept.,		
8	Simon K J., Trade Instructor, Sojan P.O., Trade Instructor, Bijukumar P A., Trade Instructor, Shiju K V., Trade Instructor, ME Dept.,	Recent Trends in Automobile technology at NTTTR Chandigarh on 24 <sup>th</sup> to 28 <sup>th</sup> Feb 2020	45000
9	Ms.Uma Syamkumar, Asst.Prof., EEE Dept.,	Faculty development programme on “Electric Vehicle - Scope, Challenges and Developments” organized by EEE Dept., CUSAT Kochi on 03-10 Jan 2020	5030
10	Mr.Umarali., Asst.Prof., PE Dept.,	“The Art of Teaching and Learning Engineering Graphics” organized by ME Dept., NIT Calicut on 30 Dec 2019 -03 Jan 2020	7920
11	Dr.Meenakshy K., Prof., EEE Dept.,	Faculty development programme on “Recent Trends in Computer Networking Technologies” organized by CSE Dept., CUSAT Kochi on 16-22 Dec 2019	5190
12	Dr.Sudheesh R.S NIT Calicut	Faculty development programme on “Robotics, Artificial Intelligence, and control organized by NIT Calicut on 03-08 Feb 2020	11022
13	Dr.L.Rekha., Asso.Prof., ME Dept.,	Faculty development programme on “Robotics, Artificial Intelligence, and control organized by NIT Calicut on 03-08 Feb 2020	11072
14	Dr.Abdulsaleem., Asso.Prof., ME Dept.,	Faculty development programme on “Robotics, Artificial Intelligence, and control organized by NIT Calicut on 03-08 Feb 2020	11122
15	Ms.Lisy Raphael Asst.Prof., EEE Dept.,	Faculty development programme on “Robotics, Artificial Intelligence, and control organized by NIT Calicut on 03-08 Feb 2020	10682
16	Dr.Manjithkumar B., Prof., PE Dept.,	Short Term Training Programme on Materials and Processes for advanced Engineering Applications” organized by National Institute of Technical Teachers Training and Research (NTTTR) Chandigarh from 27 <sup>th</sup> to 31 <sup>st</sup> Jan 2020	27983
17	Dr.Haris Naduthodi., Prof., PE Dept.,	Short Term Training Programme on Materials and Processes for advanced Engineering Applications” organized by National Institute of Technical Teachers Training and Research (NTTTR) Chandigarh from 27 <sup>th</sup> to 31 <sup>st</sup> Jan 2020	27787
			<b>239148</b>

#### Faculty and staff attending meetings

SL No.	Name of the Faculty Member	Name of The programme	Amount
1	Dr.Abdulsaleem., Asso.Prof., EEE Dept.,	a technical visit to Centre of Excellence at CET and GEC Barton Hill on 06 <sup>th</sup> & 07 <sup>th</sup> Jan 2020	2554
2	Sheeba V S., Principal	TEQIP Four Funds Review meeting at Tvm on	2448

		06.12.2019	
3	Mr.Anil Rajagopal, Asst.Prof., PE Dept.,	a technical visit to Centre of Excellence at CET and GEC Barton Hill on 06 <sup>th</sup> & 07 <sup>th</sup> Jan 2020	1679
4	Mr.Manojkumar K.V., Prof., CSE Dept.,	TEQIP Four Funds Review meeting at Tvm on 06.12.2019	2448
5	Dr.Sheeba V.S., Principal.,	a technical visit to Centre of Excellence at CET and GEC Barton Hill on 06 <sup>th</sup> & 07 <sup>th</sup> Jan 2020	3098
6	Mr.Jikhil Joseph ., Asst.Prof., CE Dept.,	a technical visit to Centre of Excellence at CET and GEC Barton Hill on 06 <sup>th</sup> & 07 <sup>th</sup> Jan 2020	1679
7	Dr.Jiji K.S., Asso.Prof., EEE Dept.,	research proposal before the evaluation committee at AICTE Head Quarters, in person National Doctoral Fellowship (RPS-NDF) on 28 <sup>th</sup> Feb 2019 under TEQIP II	18200
			<b>32106</b>

Attending and presenting paper by students

SL No.	Name of the Faculty Member	Name of The programme	Reg Fee
1	Mr.Nikhil Jacob., M.Tech student ME Dept.,	Paper titled Numerical Simulation of an Impulse Wave Propagation in a choked straight Microchannel, oral presentation at National Symposium on Shockwave(NSSW)2020 at IIT Madrass from 26-28 Feb2020	6277
2	Delin Davis C , M.Tech student ME Dept.,	Paper titled Size Effects on compressible flow through a microchannel , oral presentation at National Symposium on Shockwave(NSSW)2020 at IIT Madrass from 26-28 Feb2020	6277
3	Alex Joseph ., M.Tech student ME Dept.,	Paper titled Computational Aero Acoustics of Supersonic Micro Flows oral presentation at National Symposium on Shockwave(NSSW)2020 at IIT Madrass from 26-28 Feb2020	6277
4	Sam Geogi., M.tech MSM PE Dept.,	Paper Titled A Neural Network Approach for Detecting Surface Defects in hot Rolling Process National conference on Multidisciplinary Design, Analysis and Optimization at VSSC Tvm on 19-20 March 2020	1000
5	Sam Geogi., M.tech MSM PE Dept.,	A Deep Neural Network Approach for detecting Surface Defects in Hot Rolling Process at International Colloquium on Recent Trends in Engineering Mar Athanasius College of Engineering , Kothamangalam, Kerala on 13-14 March 2020	900
6	Joseph Abraham., M-tech Production Engg. ME Dept.,	Review on Dual Arm Robotic Manipulator for Assembly Operation on Recent Trends in Engineering Mar Athanasius College of Engineering , Kothamangalam, Kerala on 13-14 March 2020	900
7	Abhishek P G., S4 M.tech PE Dept., ME Dept.,	Vision Based Detection of Butt Weld joints for Robotic Arc Welding at International Colloquium on Recent Trends in Engineering Mar Athanasius College of Engineering , Kothamangalam, Kerala on 13-14 March 2020	900
8	Avinash Sen., M tech MSM PE Dept.,	Detection and pose Estimated Grasping in Industrial Robot for Bin picking Operations at International Colloquium on Recent Trends	900

		in Engineering Mar Athanasius College of Engineering , Kothamangalam, Kerala on 13-14 March 2020	
9	Blnoy T.A., Mtech MSM ,PE Dept.,	Soft Robotic Grippers: State of the Art Characterisation, Fabrication Materials and Actuation Concepts at International Colloquium on Recent Trends in Engineering Mar Athanasius College of Engineering , Kothamangalam, Kerala on 13-14 March 2020	900
10	Eldhose Mathew, M.tech student ,EEE Dept.,	Dual Input boost Converter for Renewable Energy Applications International conference on Power Energy control signals &systems (IPECS 2020) dt.27-28 March 2020	4000
11	Akhila E.M., M.tech student EEE Dept.,	Wireless Power Transfer for Third Harmonics with the Improved Input Power Factor, conference on communication and Electronics(ICCES 2019) conducted by IEEE at PPG Institute of Technology Coimbatore on 17-19 July 2019	6500
12	Navami chandran, M.tech Power Systems, EEE Dept.,	"Coordinated Control of PSS and SSSC using PSO to Improve Power System Stability" Annual International Conference on Emerging Research Areas (AICERA 2019) organized by Taylor & Francis Group on 18 <sup>th</sup> – 20 <sup>th</sup> July 2019 Amal Jyothi College of Engineering, Kanjirapally.	4000
13	Aswathi V.S., M.Tech Power SAystems, EEE Dept.,	"Cuckoo Search Optimization Algorithm based Small Signal Stability Improvement of a Two-Area Power System incorporated with AVR and PSS" Annual International Conference on Emerging Research Areas(AICERA 2019) organized by Taylor & Francis Group on 18 <sup>th</sup> – 20 <sup>th</sup> July 2019 Amal Jyothi College of Engineering, Kanjirapally.	4000
14	Jayadevan P.C., Research Scholar, ME Dept.,	An Experimental Investigation of Liquid Flow Through Micro tubes INCAM 2019-4 <sup>th</sup> Indian Conference on Applied Mechanics	3760
			<b>46591</b>

Research projects taken by UG/PG students

SL No.	Name of the Faculty Member	Name of the project	Reg Fee
1	Mr.Anil Rajagopal K.P., Asst.Prof., PE Dept.,	Preparation and Characterization of AZ91D Mg Composite with TiB <sub>2</sub> & Y <sub>2</sub> O <sub>3</sub> Nano Reinforcements	18105
2	Dr.Manjithkumar, Prof., PE Dept.,	Joining of Magnesium matrix composite reinforced with TiB <sub>2</sub> and Y <sub>2</sub> O <sub>3</sub> nanoparticles using Friction Stir Welding and its characterization	10640
3	Mr.Aju S.S., Asst.Prof.,	Development and Testing of a deep Learning based Robotic Bin Picking system	9676
4	Dr.Boby K.George., Asst.Prof., PE Dept.,	Performance Improvement framework through IOT integrated platform	4900
5	Dr.Boby K.George., Asst.Prof., PE Dept.,	Impact assessment of coporate's on social responsibilities for sustainable future	4900
6	Ms.Ajeesh K.N.,Asst.Prof., Chemical Dept.,	IoT based dialysis Process controlling and monitoring system	9889
7	Mr.Umarali K., Asst.Prof., PE	A neural network approach for detecting surface	5200

	Dept.,	defects in hot rolling process	
8	Ms.Sindu N., Asst.Prof., ECE Dept.,	Wearable Device for Emotion Recognition	4700
9	Mr.Joseph K.D., Asst.prof., EEE Dept.,	Multiple -Input DC-DC Converter for connecting Multiple Renewable Energy Sources	6826
10	Mr.Nevin Jacob K., Asst.Prof., EEE Dept.,	Temperature dependency on the efficiency of Solar panels	9780
			<b>84616</b>

Reimbursement of Professional body Membership Registration fee

SL No.	Name of the Faculty Member	Registration fee (2019/2020)	Amount
1	Dr.Meenakshy K., Prof., EEE Dept.,	IEEE Membership fee reimbursement	2935
2	Mr.Binoy B.B., Asst.Prof., EEE Dept.,	ICT Membership fee reimbursement	1770
3	Dr.Rameshkumar P., Asst.Prof., EEE Dept.,	IEEE Membership fee reimbursement	3037
4	Dr. Suresh Damodharan., Asso.Prof., EEE Dept.,	IEEE Membership fee reimbursement	2807
5	Mr.Joseph K.D., Asst.Prof., EEE Dept.,	IEEE Membership fee reimbursement	3173
6	Ms.M.J.Lali., asst.Prof., EEE Dept.,	IEEE Membership fee reimbursement	3449
			<b>17171</b>

Doctoral Committee meeting

Sl No.	Particulars	Date of the Meeting conducted	Amount
1	Fourth meeting of PhD student Remya George , EEE Dept., and Jeeva Padmakumar ,EEE Dept.,	15.07.2019 by Dr.Nithin George, Asso.Prof., IIT Gandhinagar	4784
2	Third meeting of PhD student, Blessy Thomas, CE Dept.,	03.10.2019 by Dr.B.S.Murty, Prof., IIT Delhi	1535
3	Doctoral committee meeting Sagar M.Narayanan ,	10.10.2019 by Dr.Pradeep kumar., IIST Thiruvananthapuram	3550
			<b>9869</b>

Expert talk-visiting faculty programmes

Sl No.	Name of Expert	Title of the programme	Date and Coordinator of the programme	Amount
1	Dr.Johnson Mathew Asso.Prof., GEC Kottayam	Introduction to Solar PV System for domestic Installations	25.10.2019 Ms.Lisy Raphael., Asst.Prof., EEE Dept.,	5715
2	Dr.Rajesh Vanchipura.,	Industrial Sequencing and	31.10.2019	6160

	Asso.Prof., ME Dept., GEC Kannur	scheduling	Dr.Sajan M.P., Asst.Prof., ME Dept.,	
3	Dr.Pradeepkumar P., Asso.Prof., IIST., Tvm.	Micro and Nano heat transfer devices	10.10.2019 Dr.Pradeep M.Kamath., Asst.Prof., ME Dept.,	7680
4	Dr.M.Nandakumar, Prof., SCMS	Flexible AC Transmission systems	20.11.2019 Ms.Lisy Raphael., Asst.Prof., EEE Dept.,	5201
5	Dr.Rajesh Vanchippura., Asso.Prof., GEC Kannur	Development of genetic Algorithm code in Matlab	20.06.2020 Dr. Sunil AS, Assoc. Prof. ME Dept.	3000
6	Ms.Shreelakshmi M P NIT Calicut	Power Electronics in Electric Vehicle	30.07.2020 Dr. Lissy E R, Assoc. Prof. EEE Dept.	3000
				<b>30756</b>

#### Expert talk - III Cell

Sl No.	Name of Expert	Title of the programme	Date and Coordinator of the programme	Amount
1	Pradeep Rajagopala Panikker, VP Technology, Cabot Technologies, Lulu Cybertower, Infopark	Enterprise architecture – an overview	28.07.2020 Ms.Lisy Raphael., Asst.Prof., EEE Dept.,	3000
				<b>3000</b>

#### Maintenance of the items

Sl.	Name of the Item	Purpose	Dept.	Amount
1	UPS	Maintenance of UPS	CSE	12600
2	Projector	Maintenance of Projector	CE	4285
				<b>16885</b>

#### Replacement of the items

Sl.	Name of the Item	Purpose	Dept.	Amount
1	Desktop DELL (OPTIPLEX 3010)	Replacement of various parts ( 6 Nos.)	ME	368431
2	Laptop	Replacement (10 nos)	CSE	562670
3	Dell Vastro Lap top & HCL Laptop	Replacement (4 nos)	ME	272440
				<b>1203541</b>

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### 8. Approval of proposal for conduct of international conference ICETEST 2020.

The biennial international conference organized by the college ICETEST is due to be conducted in 2020. A committee has been set up with Dr. Haris Naduthodi and Dr. K.K Ramachandran as coordinators. It will be held as 3 conferences in online mode and the expenditures estimated are

Name of conference	Coordinators	Period of conduct	Appx. expenses
International Conference on Power Instrumentation Control and Computing	Dr.Joseph K.D., Asst.Prof., EEE Dept., Mr.Premanand B., Asst.Prof., ECE Dept., Mr.Ali Akbar N., Asso.Prof., CSE Dept.,	10-12 Dec 2020	2,22,000
International Conference on Recent Advances in Materials Processes and Technology for Sustainability (RAMPTS)	Dr.Rekha L., Asso.Prof., ME Dept., Mr.Anilal A.M., Asst.Prof., Chemical Dept., Dr.Sujatha I., Asst.Prof., PE Dept.,	10-12 Dec 2020	72000
International Conference on Emerging Trends in Engineering, Science and Technology	Dr.Josna Raphael P., Asso.Prof., Architecture Dept., Dr.Seena P., Asso.prof., CE Dept.,	10-12 Dec 2020	202000

The proposal may be accepted.

### 9. Approval of committee (revised) for III Cell.

The nodal officer of III Cell committee has submitted a proposal to reconstitute the cell incorporating a member from each department. Apart from the coordinator the members include Prof. Mohammed Salih - ECE, Prof. Manoj N - ChE, Prof. Manu Devassy – CE, Prof. Lissy E R – EEE, Prof. Umarali – PE, Dr. Sunil A S – ME and Prof. Rahmathulla – CSE.

The same may be approved.

### 10. Any other item permitted by the chair

3. Expenditure in connection with patent filing submitted by Dr. Haris Naduthodi, Dept. of PE. This is for furnishing the details for the first examination report for the patent applied already on “Smart Motive”.

## ANNEXURE I

**Draft Minutes of 22<sup>nd</sup> BoG for approval**

### **MEETING OF 22<sup>nd</sup> BOARD OF GOVERNORS**

**ON 13.12.2019 AT 10.00 AM, IN THE CONFERENCE HALL, GEC, THRISSUR**

#### **AGENDA**

<b>SL. No.</b>	<b>Item Description</b>	<b>Page No.</b>
1	Confirm the Minutes of 21 <sup>st</sup> Meeting of the Board of Governors on 25/06/19	3
2	Review the actions taken report on the decisions in the 21 <sup>st</sup> Meeting of the Board of Governors.	3
3	Presentation of activity reports by nodal officers	
	3.1 Academic	4
	3.2 Procurement	13
	3.3 III Cell	13
	3.4 Finance	13
4	Amendment of policy item for expenditure in conduct of External programs	18
5	Approval of activities under various heads.	19
6	Ratification of activities carried out.	23
7	Allocation of funds	25
8	Student assistantship for PG students	25
9	TEQIP Staff maintenance for the period of usage of TEQIP-II fourfunds	25
10	Any other item permitted by the chair 4. Expenditure in connection with international conference ICETEST 2018. 5. Expenditure in connection with convening of Departmental Advisory Board.	25



Principal Dr. Sheeba V S welcomed the members and the Chairman started the proceedings by reviewing the expenditure during the previous period and exhorting all to increase the expenditure by spending judiciously in all components.

### **1. Approval of Minutes of 21<sup>st</sup> BOG Meeting held on 25.06.2019**

Draft Minutes of previous BOG Meeting was presented and the Chairman asked the members to seek any corrections required in them. After discussions the minutes was approved

### **2. Review the action taken report on the decisions in the 21<sup>st</sup> meeting of the Board of Governors**

*On consideration of application for NIRF ranking, the coordinator Dr. N. Sajikumar informed that data was collected from various sources. The chairman inquired whether any approximate ranking could be self determined in comparison with data of sister institutions. The coordinator informed that since 3<sup>rd</sup> party evaluation is done it was not possible as of now. Chairman advised to keep the website updated and Prof. Satish V Kailas said that carries a lot of weight as a lot of data is pulled from there.*

*With respect to discussion on accreditation, the chairman mentioned that benchmarking with higher institutions to be done.*

*In discussions with patent creation, Dr. Haris Naduthodi, coordinator IPR Cell informed that work from one UG project has resulted in an application being filed for a patent. Principal informed that IPR cell is to be reconstituted. Prof. Satish V Kailas opined that awareness has to be given to faculty regarding this and the number of patent application attempts needs to be improved significantly. It was also mentioned that Design Patents also could be attempted to improve the present status. Chairman asked to frame an IPR policy and get it ready before the next BoG. Also it was suggested to resort to CSR funding from industries.*

*On discussions regarding the remedial classes and pass percentages with respect to Engineering Graphics course, Prof. Satish V Kailas mentioned that there should be regular practice and assignments should be given to students right from day 1 onwards. He mentioned that self-study modes should be practiced by students and faculty has to encourage that aspect.*

*Regarding the placement rates of PG students, it was mentioned by Prof. Satish V Kailas that there was a need to teach fundamental courses with strong foundation and orient them better. Also they may be oriented to take up positions in academics in their career. It was also suggested to collect data on where the PG students are placed after they leave the institute.*

The ATR was also accepted after these discussions without any changes.

### **3. Presentation of activity reports by nodal officers**

The Academic nodal officer Dr. Nowshaja P T presented the following in the report.



### 3.1 Presentation of Activity Report on Academic

#### Faculty Publications

Dept.	International Journals			International Conferences			Total No. of SCI Indexed journal publications during the period	
	2018-2019	2019-2020	Total	2018-2019	2019-2020	Total	2018-19	2019-20
CE	9	2	11	2	7	9	4	2
ME	4	7	11	2	6	8	3	4
EEE	9	3	12	21	8	29	4	2
ChE	7	-	7	12	-	12	6	1
PE	24	8	32	-	2	2	-	-
ECE	5	2	7	4	-	4	2	2
CSE	6	-	6	9	-	9	1	-
Total	64	22	86	50	23	73	20	11

Department	National Journals			National Conferences		
	2018-2019	2019-2020	Total	2018-2019	2019-2020	Total
CE	-	-	-	28	-	28
ME	-	-	-	6	5	11
EEE	-	-	-	-	-	-
ChE	1	-	1	17	-	19
PE	-	-	-	-	2	2
ECE	-	-	-	18	-	18
CSE	-	-	-	5	-	5
Total	1	-	1	69	7	83

#### Pass percentage and rank details of 2015-19 B.Tech batch (First batch under APJKTU)

Department	CE	ME	EEE	ChE	PE	CSE	ECE
Pass percentage of 2019 passout batch*	83/96 (86.45%)	86/115 (75%)	99/113 (87.6%)	45/55 (81.8%)	29/34 (85.3%)	59/69 (85.5%)	45/68 (66%)
University ranks in top 10	-	1,3,9	10	3,5,8,10	1,2,3,4,5,6,7,10	6	-

*During this discussion BoG chairman instructed that the students with ranks mentioned above should be called for and awarded with medals / mementos and appreciated for their excellent performances in the BoG meeting.*

**\*Percentage of students who successfully completed B.Tech in the stipulated period**

Transition rate of different batches in the academic year 2018-19 is as given below:

Department	CE	ME	EEE	ChE	PE	CSE	ECE
<i>Transition rate (from S<sub>2</sub> to S<sub>3</sub>)</i>	81/94 (86%)	88/105 (84%)	89/99 (89%)	40/49 (81%)	24/28 (85%)	52/62 (84%)	49/63 (78%)
<i>Transition rate (from S<sub>4</sub> to S<sub>5</sub>)</i>	86/104 (83%)	95/116. (82%)	87/111 (78%)	41/54 (75%)	25/32 (78%)	48/68 (71%)	53/69 (77%)
<i>Transition rate (from S<sub>6</sub> to S<sub>7</sub>)</i>	82/99 (83%)	86/115. (75%)	88/112 (78%)	39/53 (74%)	26/33 (80%)	59/68 (87%)	54/68 (79%)

The table below shows the percentage of students graduated from our institute during the period 2018-2019.

2018-19														
Department	CE		ME		EEE		ChE		PE		ECE		CSE	
Degree Level	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG
Students Graduated	83	35	86	29	90	32	45	14	24	17	45	18	59	19
Total No.of students appeared	96	36	115	32	115	32	55	17	31	18	68	18	69	19
%graduated	86.5	97.2	75	91	78.2	100	81.8	82.35	77.4	94.4	66	100	85.5	100

**Placement details:**

247 students from B.Tech and 30 students from M.Tech programme got placed through campus placement in 2019-20.

TCS, CTS, Infosys, Reliance, Nissan Digital, South Indian Bank and Federal Bank were some of the major recruiters from the campus.

UG: 2016 Admission, PG: 2018 Admission

Dept.	CE		ME		EEE		ECE		CSE		CHE		PE		Total	
Degree level	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG
Students registered	90	14	113	29	105	32	65	16	67	17	53	15	29	13	522	136
Offers received	31	2	56	7	88	6	68	7	77	5	16	1	16	5	352	33
Students Placed	27	2	47	6	61	5	41	6	47	5	13	1	11	5	247	30

Placement percentage of UG students (w.r.t. Total number of students registered) = **67 %**

Placement percentage of PG students (w.r.t. Total number of students registered) = **22 %**

It was reported by the Nodal officer that a correction is required in the case of UG students as it was calculated with number of offers instead of the number of individual students.

Placement percentage of UG students (w.r.t. Total number of students registered) = **67 %**

To be replaced as

*Placement percentage of UG students (w.r.t. Total number of students registered) = **47 %***

(Page No. 5)

A summary of the placement for the period from **2018-2019** is given in the table below

2018-2019																
No. of students	CE		ME		EEE		Ch E		PE		ECE		CSE		Total	
	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG	UG	PG
Students registered	77	21	107	26	101	30	51	16	30	15	64	18	69	15	499	141
Offers received	22	1	71	9	74	5	25	1	19	5	70	4	85	13	366	38
Students Placed	21	1	57	7	59	5	19	1	18	3	47	3	53	10	274	30

Placement percentage of UG students (w.r.t. Total number of students registered ) = **55%**

Placement percentage of PG students (w.r.t. Total number of students registered) = **21 %**

### Research and Development

The details of PhD scholars pursuing/completed PhD in the institution and their status of completion is given below

#### List of scholars registered under Calicut University

Sl. No.	Name of PhD student	Name of Guide	Dept.	Regular/Part time (R/PT)	Academic Year of admission	Degree awarded(Y/N)	If so degree awarded in the academic year
1	Indu P Nair	Dr. Anasraj R	EE	R	2012-13	Y	2017-18
2	Maya K N	Dr. Jasmine. E. A	EE	R	2013-14	Y	2017-18
3	Benzy V.K	Dr. Jasmine. E. A	EE	R	2013-14	Y	2017-18
4	Shibily Joseph	Dr. Jasmine. E. A	EE	R	2014-15	N	
5	Renukadevi V	Dr. Jayanand. B	EE	R	2013-14	Submitted	
6	Blessy Thomas	Dr. Sumam K.S.	CE	R	2014-15	N	
7	Maya U C	Dr. Meenakshy. K	EE	R	2013-14	N (Thesis submitted)	
8	Shwetha C	Dr. Meenakshy. K	EE	R	2014-15	N	
9	Lisy E R	Dr. Nandakumar. M	EE	R	2013-14	N (Thesis Submitted)	
10	Suhara E M	Dr. Nandakumar. M	EE	R	2013-14	Y (Awarded)	2018-19
11	Anoop K	Dr. Nandakumar. M	EE	R	2013-14	N	
12	Neethu Varghese	Dr. Reji P	EE	R	2013-14	N	
13	Jayakumar P	Dr. Reji P	EE	R	2014-15	N	
14	Adil Nazer	Dr. Reji P	EE	R	2013-14	N	
15	Ramkumar P.N	Dr. Satish K.P	EE	R	2013-14	N (Thesis Submitted)	
16	Ramdas T	Dr. Satish K.P	PE	R	2013-14	Y	2017-18
17	Muhhammed Iqbal C	Dr. Shalij P.R	PE	R	2013-14	N (Thesis Submitted)	
18	Biju TL	Dr. Shalij P.R	PE	R	2012-13	Y	2016-17

19	Jeeva K A	Dr. Sheeba V.S.	ECE	R	2014-15	N	
20	Remya George	Dr. Meenakshy. K	EE	R	2014-15	N(Thesis submitted)	
21	Sam Joshy	Dr. Jayadevan. K. R	ME	R	2014-15	N	
22	Divya. A. H	Dr. Soloman. P. A	CHE	PT	2012-13	N	
23	Sagar.M.Narayanan	Dr. Pradeep M Kamath	ME	R	2014-15	N(synopsis over)	
24	Anu.P.Anil	Dr. Satish K.P	PE	R	2014-15	Y	2018-19
25	Sajan M P	Dr. Shalij P.R	PE	R	2014-15	Y	2018-19
26	Jisha Kuruvilla P	Dr. Anasraj R	EE	PT	2012-13	N	
27	Subadhra P R	Dr. Anasraj R	EE	PT	2012-13	N	
28	Jose Sebastian	Dr. Jayanand. B	EE	PT	2012-13	N	
29	Preetha K P	Dr. Jayanand. B	EE	PT	2013-14	N	
30	Uma Syamkumar	Dr. Jayanand. B	EE	PT	2013-14	N	
31	Ajmal	Dr. Jayanand. B	EE	PT	2014-15	N	
32	Sijo MT	Dr. Jayadevan. K. R	ME	PT	2013-14	N (Thesis submitted)	
33	Sunny T.D	Dr. Meenakshy. K	EE	PT	2014-15	N	
34	Manilal A.M	Dr. Soloman. P. A	CHE	PT	2013-2014	N	
35	Sosamony.K.J	Dr. Soloman. P. A	CHE	PT	2013-2014	N	
36	Minimol Pieus	Dr. Soloman. P. A	CHE	PT	2013-2014	N	
37	Francis John. V	Dr. Soloman. P. A	CHE	PT	2013-2014	N	
38	Mary C Kurian	Dr. Shalij P.R	PE	PT	2013-14	N	
39	Ayush K R	Dr. Pradeep M Kamath	ME	PT	2013-14	N	
40	Renuka T K	Dr. Reji P	EE	PT	2013-14	Thesis Submitted	
41	Sija Gopinathan	Dr. Reji P	EE	PT	2013-14	N	

42	Miji Cherian R.	Dr. Sajikumar N	CE	PT	2013-2014	N	
43	P.V. Gopinadhan	Dr. Satish K.P	PE	PT	2013-14	N	
44	Pradeep M	Dr. Satish K.P	PE	PT	2013-14	N	
45	M.Parameswaran	Dr. Shalij P.R	PE	PT	2013-14	N	
46	Manmohan C.M.	Dr. Shalij P.R	PE	PT	2013-14	N	
47	Abdul Samad P.A	Dr. Shalij P.R	PE	PT	2014-15	Y	2019-20
48	Rajesh Menon B	Dr. Shalij P.R	PE	PT	2014-15	N	
49	R Jayadevan	Dr. Sheeba V.S.	ECE	PT	2013-14	N	
50	Job Chunkath	Dr. Sheeba V.S.	ECE	PT	2013-14	N	
51	Premanand B	Dr. Sheeba V.S.	ECE	PT	2013-14	N	
52	Binitha Mampully	Dr. Sheeba V.S.	ECE	PT	2014-15	N	
53	Rani L	Dr. Sheeba V.S.	ECE	PT	2014-15	N	
54	Ali M A	Dr. Jasmine. E. A	EE	PT	2013-14	Y	2018-19
55	Muneera C R	Dr. Jasmine. E. A	EE	PT	2013-14		
56	Remani T	Dr. Jasmine. E. A	EE	PT	2013-14	Y	2018-19
57	Jeena Joy	Dr. Jasmine. E. A	EE	PT	2014-15	N	
58	Anilkumar K R	Dr. Meenakshy. K	EE	PT	2013-14	N	
59	Nikhil C R	Dr. Meenakshy. K	EE	PT	2013-14	N	
60	Mini P R	Dr. Nandakumar. M	EE	PT	2013-14		
61	M.Jayakumar	Dr. Nandakumar. M	EE	PT	2014-15	N	
62	Sudheer Padikkal	Dr. Sumam K.S. /Dr.Sajikumar	CE	PT	2013-2014	N(submitted)	
63	Aseem K	Dr. Nandakumar. M	EE	PT	2013-2014		
64	Sanish Kumar T G	Dr. Nandakumar. M	EE	PT	2013-2014		
65	Jayasoorya J	Dr. Reji P	EE	PT	2013-2014		
66	Cini K	Dr. Jasmine. E. A	EE	PT	2013-14	N	

## Retention of Research guides in the Institution

Out of the 29 research guides in various departments of the institution, 23 were retained in the institution during the past 3 years

### Remedial classes conducted

Academic Year: 2019 – 2020 (Current Semester up to 7<sup>th</sup> November 2019)

#### Department of Civil Engineering

Semester	Subject	Faculty handled	Number of hours engaged	% of improvement
1	Engineering Graphics	Prof. ShahanaShirin A H	2 hrs	13%
	Linear Algebra and Calculus	Ms. Sreereshmi N	6 hrs	33%
3	Linear Algebra and Complex Analysis	Ms. Sarika Mohan	7 hrs	67%
5	Geotechnical Engineering I	Prof. Aswathy R	1 hrs	6%
	Structural Analysis II	Prof. Sameena Khalid	5 hrs	28%
7	Quantity Surveying and Valuation	Prof. Silpa Mohan K	2 hrs	36%
	Design of Steel Structures	Prof. Gokul A	3 hrs	43%
	Structural Analysis III	Prof. Sameena Khalid	8 hrs	72%

#### Department of Computer Science and Engineering

Semester	Subject	Faculty	No. of hours engaged	% of improvement
1	Linear Algebra and calculus	Ms. Sreelekshmi N	6 hrs	60
3	Switching Theory and Logic Design	Mr. Ali Akbar	8 hrs	33
5	Theory of Computation	Ms. Kala M T	7 hrs	50

**Department of Mechanical Engineering**

semester	Subject	Faculty handled	Number of hours engaged	% improvement
1	Calculus	Prof. Sreereshmi N	6	40%
1	Basics of Electrical Engineering	Prof. Sariga Mohan	2	35%
2	Differential Equations	Prof. Sariga mohan	6	Ongoing
5	Heat and Mass Transfer	Prof. Arjun P K	3	43%
1	Basics of Electronics Engineering	Prof. Garnet Wilson	2	30%
1	Basic Mechanical Engineering	Prof. Rahul Ravi	4	38%

**Department of Production Engineering**

Semester	Subject	Faculty handled	Number of hours engaged	% improvement
1	Engineering Mechanics	Prof.Aju.K..S.	14	56
3	Fluid Mechanics	Harikumar A.R.	3	42

**Department of Electrical & Electronice Engineering**

Batch	Subject	Faculty	Number of hours engaged	% improvement
S1	Graphics	Prof Praveen, Dept of PE	3	35
S1	BCE &BME	Prof.Rahul Ravi	4	33
S3	DCMT	Prof Suhara, Dept of EE	3	45



## Department of Chemical Engineering

Batch	Subject	Faculty	Number of hours engaged	% improvement
S4	Thermodynamics	Dr Manju M.S.	3	Ongoing
S4	Chemistry for process Engineers	Prof. Vinod Raphael	2	Ongoing
S4	Process heat transfer	Prof. Mercy Anna Philip	2	Ongoing

### Major National level achievement in the current Academic year

Team representing our Institution was the overall second runner up at the national level tractor design competition conducted by SAE

The same team won the third position in the 'best durability' category of the tractor design competition.

### Status of NBA Accreditation:

All the 7 UG programmes accredited for 3 years.

Compliance report submission for extension of accreditation status for further 3 years underway.

Four of the 11 UG programmes accredited for 2 years.

Three of the accredited 4 PG programmes got extension of accreditation for further one year.

SAR submitted for 3 PG programmes and awaiting visit of the NBA team

### Presentation of Activity Report on Procurement

The nodal officer Prof. E.S. Ramasubramaniam presented that proposals approved in the previous meeting for replacement and maintenance are undergoing the purchase

process through the office. Fresh proposals for replacement and maintenance amounting to Rs. 1213731 are submitted for approval.

*The discussions which followed stressed the need for improving the expenditure in these heads considerably. It was suggested by the Chairman to go for replacement of those items which have become inoperational or unusable due to technology getting outdated. Also explore the possibility for getting AMC for equipment, especially those heavily priced ones which are under continuous demand. Regarding software and IT items it was suggested to take advice from the DTE for sanctioning them.*

The report was accepted.

### **Presentation of Activity Report of III Cell Unit**

The nodal officer Dr. Praseetha P Nair presented the following.  
The following expert talks have been conducted by the cell during the period.

Sl No.	Name of Expert	Name of the programme	Coordinator of the programme	Expenditure
1	Athira Krishnan R., Asst.System Engineer	Introduction to Robotic Operating System on 23.09.2019	Ms.Lisy Raphael., Asst.Prof., EEE Dept.,	6983
2	Mr.Hameem C.Hamza,Load Engineer,Bangalore	Practical Approach to DSP	Ms.Lisy Raphael., Asst.Prof., EEE Dept.,	8430
				<b>Rs.15413/-</b>

4 Faculty members from Chemical Engineering Department namely Dr. Manju M S, Dr. Praseetha P Nair, Mr. Manilal A M, and Dr. Subin Poullose undertook an industrial visit to Carborundum Universal Ltd.,CUMI ,Kalamassery , for discussions on signing MoU between the Institution and CUMI on 08.11.2019.

An industrial Visit to Sowparnika Thermistors and Hybrids Pvt. Ltd., Kolazhy was undertaken by a team from Chemical Engineering Department.

*In the discussions that followed, Chairman sought data regarding the IRG from consultancy projects. The chairman suggested that next report should include the figures during the BoG to BoG period in the report.*

The report was accepted.

### **Presentation of Finance Activity Report for the period upto Dec 10<sup>th</sup> 2019**

Department wise expenditures under the various heads since the last BoG are as given in page no. 14 and 15.

The fund position and expenditure details are shown in Pages 16 and 17.

The balance amounts remaining to be spent against the various heads are

At present, the funds available under the various heads are

- Corpus Fund : Rs.57,93,262/-
- Faculty & Staff Develop. Fund : Rs.71,82,423/-
- Maintenance Fund : Rs.67,75,208/-
- Equipment replacement : Rs.69,02,473/-

*An indicative funding as per expenditure suggested by the Chairman in the 4:1 ratio of base and performance was presented in the meeting. Chairman opined that this would be adopted only from the next BoG and also indicated that a review of performance should be done in the months of October and January. Also it was directed by the chairman to sent status regarding the fund expenditure to all members.*

The report was accepted.

Name of the Fund	Category of expenditure(Head of expenditure)	Sub-Activity								
1	2	3	CE	ME	PE	EEE	ECE	ChE	CSE	Institution
Corpus Fund	Academic support for students	Expenditure incurred on research projects taken by UG/PG students	4060	0	0	11990	0	0	0	0
		Expenditure incurred on research publications	0	0	0	27500	0	0	0	0
		Remedial Class	8058	8057	8057	8057	8057	8057	8057	0
		Visiting Faculty	139300	0	0	27697	0	19540	0	0
		Industry Institute Interaction								
		Skill Development & Others	2111	2111	2110	2110	2110	2110	2110	
		Total								
	Incremental operating cost	Salary								233960
		BoG meetings								96746
		Stationary and other expenses								9849
		Others	0	0		21004	1770	0	0	13805
	Total Utilisation from Corpus Fund									
Faculty Development Fund	FSD	Expenditure on faculty members attended training in subject domain	0	0	10594	10303	25197	2266	30555	11952
		Expenditure on faculty members attended pedagogical training	14000	7000	0	7000	0	0	0	0
		Expenditure on organising inhouse subject area training programmes/workshops/seminars/conferences etc	0	0	0	71000	228695	163977		56114

		Expenditure on participation by faculty in external seminars/conferences/workshops etc	59581	20000	0	52913	15000	0	10580	28559
		Expenditure on staff development								
		Others								
	Total									
Equipment Replacement Fund	ERF	Equipment								
		Books								
		Software								
		Furniture								
		Others								
	Total									
Equipment & Civil Maintenance Fund	ECMF	Equipment Maintenance								
		Civil Works								
		Others								
	Total									
Grand Total			227110	37168	20761	239574	280829	195950	51302	450985

TEQIP II FOUR FUNDS UTILIZATION						
Name of the Fund	Category of expenditure (Head of expenditure)	Sub-Activity	Total Expenditure up to 10.12.2019	Committed expenditure for the month of Dec to Feb 2020	Expenditure in Pipeline Mar 2020 to May 2020	Total planned Expenditure before Next boG
1	2	3	4	5	6	(7=4+5+6)
Corpus Fund	Academic support for students	Expenditure incurred on research projects taken by UG/PG students	16050	7500	0	23550
		Expenditure incurred on research publications	27500	27886	0	55386
		Remedial Class	56400	20000	25000	101400
		Visiting Faculty	186537	24606	50000	261143
		Industry Institute Interaction	0	88383	0	88383
		Skill Development & Others	14772	0	0	14772
		Total	<b>301259</b>	<b>168375</b>	<b>75000</b>	<b>544634</b>
	Incremental operating cost	Salary	233960	36000	36000	305960
		BoG meetings	96746	55000	0	151746
		Stationary and other expenses	9849	5000	5000	19849
		Others	36579	0	0	36579
	Total Utilisation from Corpus Fund		<b>678393</b>	<b>264375</b>	<b>116000</b>	<b>1058768</b>
Faculty Development Fund	FSD	Expenditure on faculty members attended training in subject domain	90867	132580	0	223447
		Expenditure on faculty members attended pedagogical training	28000	5000	0	33000
		Expenditure on organising inhouse subject area training programmes/workshops/seminars/conferences etc	519786	60000	2420000	2999786

		Expenditure on participation by faculty in external seminars/conferences/workshops etc	186633	127418	0	314051
		Expenditure on staff development	0	0	0	0
		Others	0			0
	Total		<b>825286</b>	<b>324998</b>	<b>2420000</b>	<b>3570284</b>
Equipment Replacement Fund	ERF	Equipment	0	0	551954	551954
		Books	0	0	0	0
		Software	0	0	0	0
		Furniture	0	0	0	0
		Others	0	0	0	0
	Total		0	0	<b>551954</b>	<b>551954</b>
Equipment & Civil Maintenance Fund	ECMF	Equipment Maintenance	0		661778	661778
		Civil Works	0	0	0	0
		Others	0	0	0	0
	Total		0	0	<b>661778</b>	<b>661778</b>
<b>Grand Total</b>			<b>1503679</b>	<b>589373</b>	<b>3749732</b>	<b>5842784</b>

#### 4. Amendment of policy item for expenditure in conduct of External Programs

The last BoG had decided that

- *Regarding reimbursement of expenses in connection with FSD programs, a faculty can be given a maximum of Rs. 20,000/- or 95% of eligible expenses whichever is lower and corresponding amount for a staff being Rs. 10,000/-. It was also suggested that by next at least 2 staff from each department should have gone for such programs.*
- *The maximum amount a faculty and a staff member can get for FSD programs in a year is restricted to Rs. 20,000/- and Rs. 10,000/- respectively.*

This was done with the aim of enabling equitable participation for all faculty and staff in view of the shortage of funds in comparison to the project period. Considering the fact that many programs offered by reputed training organizations including IITs, NITs, IIMs, NITTR have course fee itself very close to or even above this figure, faculty are finding it difficult to undergo such programs. It is therefore requested that the BoG fix a revised norm for the same.

*It was decided that the maximum limit of Rs. 20000 or 95% of eligible expenses could be lifted in the case of training programs, workshops (but the expenditure will be to actuals as per government norms) but in the case of attending conferences, the restrictions will continue. Also asked to forward the proposals to BoG chairman and nominee of the government after vetting by the Academic committee.*

*In the case of in house training programs BoG asked to add an expected outcome with respect to every short term training programme proposal and to evaluate and present the same along with report of the academic nodal officer. Also the number of attendees and detailed expenditure to be presented in the BoG.*

*Regarding the faculty as resource persons for inhouse training programs, BoG instructed that at least 1 faculty for every program should be from a reputed institution, at least from an NIT.*



## 5. Approval of activities under various heads

The following activities planned to be held during the next phase of the four fund period.  
Request that sanction be given.

Subject Domain Training -

SL No.	Name of the Faculty Member	Name of The programme	Reg Fee	TA/DA	
1	Mr.Navin Jacob., Asst.Prof., EEE Dept.,	To nattend a training programme on Rooftop Solar Grid Engineer(Design, Erection, Commissioning, Maintenance)	25000	15000	40000
2	Dr.Sajeenabeevi B, Asso.Prof., Chemical Dept.,	Advanced Analytical Techniques in material Science organized by Calicut University from 20-23 Jan 2020	500	2690	3190
3	Dr.Renjana R., Asst.Prof., Chemical Dept.,	Advanced Analytical Techniques in material Science organized by Calicut University from 20-23 Jan 2020	500	2690	3190
4	Dr.Praseetha P Nair Asso.Prof., Chemical Dept.,	Advanced Analytical Techniques in material Science organized by Calicut University from 20-23 Jan 2020	500	2690	3190
					49570

Faculty Staff Development – Expenditure on participation by faculty in external

SL No.	Name of the Faculty Member	Name of The programme	Reg Fee	TA/DA	Total
1	Dr.N.Sajikumar. Asso.Prof., CE dept.,	To present a paper titled Assessment of Landslide Susceptibility of Iduki District using Frequency Ratio method (ID162)” HYDRO 2019-International Conference (Hydraulics, Water Resources and Coastal Engineering organized by Department of Civil Engineering, Hyderabad.	5000	15000	20000
2	Dr.Sumam K.S., Asso.Prof., CE dept.,	To present a paper titled “Effects of Anti-vortex structures on Trapezoidal Labyrinth Side weir” HYDRO 2019- International Conference (Hydraulics, Water Resources and Coastal Engineering organized by Department of Civil Engineering, Hyderabad.	5000	15000	20000
					40000

Seminars /conferences/workshops etc

FSD - In house training programmes

SL No.	Name of the Programme	Coordinator &Dept.,	Dept.,	Date	Approximate Amount
1	Advanced Materials	Dr.Praseetha P.Nair., Asso.Prof., Chemical Dept., & Dr.Sajeenabeevi B., Asso.Prof.,	ChE	23 -27 March 2020	101500
2	Advances in Fluid and Thermal Sciences	Dr.L.Rekha ., Asst.Prof., ME Dept., & Mr.A.R.Harikumar., Asst.Prof.,	ME	06-10 July 2020	200000
3	Statistical Analysis for Engineering Research	Dr.M.Sajan., Asso.,Prof., ME Dept., & Dr.Pradeep M.Kamath., Asst.Prof., ME Dept.,	ME	06-07 April 2020	86500
4	Current Trends in supply Chain Management	Dr.Ambilikumar., Asso.Prof., ME Dept., & Mr.Sunil A.S., Asso.Prof., ME Dept.,	ME	20-24 July 2020	122000
5	A Course on Robotics and its Applications	Dr.Lalu P.P., Asst.Prof., Dr.Sudheesh R.S., Asst.Prof., ME Dept.,	ME	12-14 Aug 2020	155000
6	Statistical data analysis using Minitab	Dr.P.A.Solomon., Prof., Chemical Dept.,	ChE	13-15 Jan 2020	16600
7	Data Science and Analysis using Python	Dr.Sreekanth D., ICT Academy, Dr.Sudeep Eliadam, CUSAT, Dr.Sudeep D., NIT Calicut	CSE	March	80000
8	Reliable and Dependable software Development Techniques	Sumesh Divakaran., Rekha Rama Pai	CSE	March	80000
9	Machine Learning Theory and Practices	Dr.Renu Jose,RIT Kottayam, Dr.Gopakumar,NIT Calicut,Prof., Siju Swamy Saint Gits Kottayam	CSE	April	150000
					991600

*Item no. 6 was not approved.*

### Expert Talks under III

Sl No.	Name of Expert	Name of the programme	Coordinator of the programme	Amount
1	Mr.S.S.Sudhi, Deputy General Manager (Pr) Oil and Natural Gas Limited,Gujrat	Oil Industrial safety and safety practices followed by ONGC.	Dr. Renjanadevi B., Prof., in Chemical Engg. Dept.,	30000
2	Mrs.Nitha., ICT Academy, & Adarsh , BEO Software	Introduction to Python Programming	Prof. Vipinkumar., Asso.Prof., CSE Dept.,	10000
3	Mr.Sarath ,BEO Software &Mr.Goutham Oracle	Introduction to Java Programming	Prof. Vipinkumar., Asso.Prof., CSE Dept.,	10000
4	Dr.Ahmed Basha, Joint Director (Rtd), CERI, Karaikudi.,	Solving Chemical Engineering Problems using Maple for students	Dr. P.A.Soloman, Prof., Chemical Dept.,	12350
				<b>62350</b>

### Replacement and maintenance of equipments purchased under TEQIP II

Sl No.	Name of the Item	Purpose	Dept.		Amount
1	Tribometer	Calibration for pin-on-disk Tribometer	ME	Tribology Lab	60000
2	Digital Viscometer	Calibration of Viscometer	ME	Tribology Lab	15000
3	Desktop Computer with Printer	Maintenance and repair charge	ME	Tribology Lab	40000
4	Desktop DELL (OPTIPLEX 3010)	Replacement of various parts ( 6 Nos.)	ME	CAD Lab	60000
5	Rapid Photo typing Machine(Desktop 3D Printer)	Moulding related problem Maintenance charge	ME	CAD Lab	100000
6	Computerised Petrol Engine Test Rig	Maintenance and repair charge	ME		150590
7	Lathe Machine	Replacement of Electrical relay switch	ME	Production Lab	3000
8	Shaping Machine	Repairing of cracked shaper head	ME	Production Lab	4000
9	Universal IC Tester	PCB Repair and service	ECE		5705
10	Projector	Bulb Replacement	ECE	Class Room	30000

11	Gunn Power Supply	Power failure/ not working	ECE		24000
12	Variable power supply 0-30V	Voltage not stable not working	ECE	Communication Lab	24000
13	Multimeter	Replacement	ECE	Communication Lab	10000
14	Computer	Maintenance and Repair charge of DELL Desktop computer	ChE	Lab	4750
15	Rheometer	Replacement of temperature detector with Shaft	ChE	Lab	60100
16	Laptop	Replacement of Batteries (2 Nos.)	ChE	Lab	5000
17	Consolidation Testing Apparatus	The item includes replacement and calibration of LVDT and maintenance of digital read out	CE	Geotechnical Engineering Lab	14158
18	Triaxial Testing Apparatus	Calibration of the equipment strain rate, load cell repair	CE	Geotechnical Engineering Lab	50562
19	Pressure Volume Controller	Calibration ,repair and replacement of various parts of pressure system and digital read out system	CE	Geotechnical Engineering Lab	18203
20	UPS	UPs tubular battery replacement	Maths	Mathematics Dept.	12600
21	UPS	UPs tubular battery replacement	Chemistry	Chemistry Dept.,	12600
22	PH Meter	Glass Electrode	Chemistry	Chemistry Lab	10710
23	Laptop	Replacement	CSE	Lab	228950
24	Printer	Replacement	CSE	Lab	39603
25	Computers	Various parts replacement	CSE	Lab	104400
26	Surface Roughness Tester	Replacement of battery and installation of driver for windows 7	PE	Metrology Lab	80000
27	Laptop	Hard Disc ,battery replacement	PE	CAD CAM lab	15000
28	Personal computers	Replacement of Mother Board	PE	CAD/CAM Lab	20800
29	Printer	Replacement of various parts	PE	CAD Lab	10000
					<b>1213731</b>

### III Cell

Industrial Visit - visit to Sowparnika Thermistors and Hybrids Pvt. Ltd., Kolazhy -Expenses – Rs. 1500/-

## 6. Ratification of activities carried out

5.1 Expenditure on participation by faculty in external Seminars /conferences/workshops etc.

SL No.	Name of the Faculty Member	Name of The programme	Reg Fee	TA/DA	Total
1	Dr.M.S.Sinith., Asst.Prof., ECE Dept.,	workshop on “Audio Signal Processing for Computational Musicology (WASP-CM)” organized by Department of Electrical Engineering ,IIT Bombay and SPRC, Govt. of India., on Dec 02-06 2019 at IIT Bombay	2400	29500	31900
2	Dr.Jayanand B., Prof., EEE Dept.,	Infinite Level Inverter Based Dynamic Voltage Restorer for Mitigation of Voltage Sag and Swell TENCON 2019 IEEE International Conference held at Kochi	30974	0	30974
3	Dr.RameshKumar P., Asst.Prof., EEEDept.,	Super-Twisting Algorithm based Load Frequency Control of a Two Area Interconnected Power System at 20 <sup>th</sup> International Conference on Intelligent System application to Power Systems(ISAP-2019) at IIT Delhi	9000	15000	24000
4	Mr.Shejin K. V., Asst.Prof., Physical Education ,	Live along with treadmills for a better tomorrow In Xcel 19-An International Seminar on Advances in Science, Engineering and Technology in the field of Sports, an IET-MBCET on Campus event under NEXUS 19	3000	2520	5520
5	Dr.Haris Naduthodi, Prof., PE Dept.,	Workshop on Intellectual Property rights(IPR) at Indian Institute of Science Bangalore on 26 <sup>th</sup> and 27 <sup>th</sup> July 2019	4153	7850	12003
6	Ms.Mumthas O.Y.,Asst.Prof., CSE Dept.,	a short term training programme on Advancements in Emerging Technologies and Applications 1 <sup>st</sup> July -07 <sup>th</sup> July 2019 at CUSAT Kcochi	1000	3305	4305
7	Mr.Prasanth P., Asst.Prof., Physics Dept.,	a XXXIV Annual IAPT Convention -2019 & National Seminar on Recent Advances & Innovations in Physics Teaching & Research (RAIPTEP-2019) on Oct 13 <sup>th</sup> to 15 2019 organised by Indian institute of Information Technology, Allahabad & Indian Association of Physics Teachers Teachers (IAPT),RC-4	3600	15202	18802
8	Mr.Sunil Jerome., Asst.Prof., ME Dept.,	To present a paper titled “Thermodynamic Modeling and Analysis of newly introduced eco-friendly alternative refrigerants for air conditioning application” in the Second International Mechanical Engineering Conference –IMEC2019 from 29 <sup>th</sup> Nov to 01 Dec 2019 at NIT Trichy	9000	1400	10400

9	Dr.Sheeba V.S., Principal.,	IIT Madrass Research Park Visit (TBI programme )			8574
10	Mr.Ajay James., Asst.Prof., CSE Dept.,				9412
					<b>155890</b>

## 5.2. Subject Domain Training

SL No.	Name of the Faculty Member	Name of The programme	Reg Fee	TA/DA	Total
1	Mr.Anilkumar P.S., Asso.Prof., CE Dept.,	Seismic Soil Pile Interaction, NIT Trichy	2000	13000	15000
2	Ms.Suhara E.M., Asst.Prof., EEE Dept.,	short term training course “Internet of Things: Concepts and Implementation” on 15 <sup>th</sup> to 19 <sup>th</sup> November 2019 sponsored by AICTE at Indian Institute of Information Technology Design and Manufacturing Kancheepuram	500	13500	14000
3	Dr.JiJi K.S., Asso.Prof., EEE Dept.,	A faculty development programme on Power Electronic Converters: Operation and Control on 02 <sup>nd</sup> to 06 <sup>th</sup> Dec 2019 at IISC Bangalore	11800	15500	27300
4	Mr.George Mathew., Asst.Prof., CSE Dept.,	Deep Learning and Machine Learning Approaches and its applications on 09 <sup>th</sup> to 12 <sup>th</sup> Dec 2019 at NIT Campus Calicut.	5900	4400	10300
5	Mr.Saurabh Sahadev ,Asst.Prof., Chemical Engg., Dept.,	Advanced Separation Processes from 02-07 Dec 2019	1500	3410	4910
6	Nasma Noor N.V., Asst.Prof., CE Dept.,	Interaction of Coastal Development with Coastal Processes, Its Highlights and Challenges on 09 <sup>th</sup> to 13 <sup>th</sup> Dec 2019 at NIT Calicut	3000	1100	4100
7	Mr.Deepak K.S., Asso.Prof., ECE Dept.,	Deep Learning and Machine Learning approaches and its applications on 9 <sup>th</sup> to 13 <sup>th</sup> Dec 2019	5900	1500	7400
					<b>83010</b>

### 5.3 Pedagogy Training

SL No.	Name of the Faculty Member	Name of The programme	TA/DA
1	Mr.Ajayakumar V.T., Asst.Prof., CE Dept.,	Pedagogy training programme at IIT Madras on 07-09 Dec 2019	8000
2	Midhu Das B., Asst.Prof., EEE Dept.,	Pedagogy training programme at IIT Madras on 07-09 Dec 2019	8000
3	Deepak B., Asst.Prof., CE Dept.,	Pedagogy training programme at IIT Madras on 07-09 Dec 2019	8000
4	Karun V Gopal ., Asst.Prof., ME Dept.,	Pedagogy training programme at IIT Madras on 07-09 Dec 2019	8000
			32000

### 7. Allocation of funds

The 21<sup>st</sup> BoG had decided that further allocation of funds in the four funds period be made based on the performance of the individual departments during the present term on a 4:1 ratio of base and expenditure amounts.

Accordingly the current allocation is.

	Corpus	FSD	Eqp.Maintenance	Eqp. Replacement
Institution	294195	704984	677808	690473
CE	942871	1283119	1147800	1169300
ME	1176832	1442000	1243400	1266800
EEE	1088642	1327784	1243400	1266800
ChE	564293	568657	621700	633400
PE	378133	469906	406500	414100
ECE	673263	579108	717300	730800
CSE	675033	806865	717300	730800

### 8. Student assistantship for PG students

The 21<sup>st</sup> BoG which met on 25<sup>th</sup> June 2019 had decided to give assistantship to PG students, one per stream who are at the top position in their class on merit and who are not in receipt of any other scholarship at the rate of Rs. 6000/- per month. Accordingly applications were invited and select list is prepared from among the applicants. A decision on the same is to be made.

*It was decided to go ahead with the award of studentship.*

### 9. TEQIP staff maintenance for the further period of Four Fund

In the review meeting of TEQIP-II four funds held on 6<sup>th</sup> Dec 2019 at Trivandrum organized by SPFU, it was appraised that expenditure in the various heads were well below the expected

percentages and urgent steps were asked to be taken by institutions to improve them considerably. The 20<sup>th</sup> BoG meeting had resolved to fix a cap of Rs.12,000/- on the maximum allowable monthly allowance to the Junior Accountant cum Clerk in the TEQIP office. This restricts the attendance of the incumbent to a maximum period of 16 days in a month on daily wages and hence the services are available only to that extent. In order to have a smooth functioning of the office to allow increase in overall expenditure through the services offered to faculty, staff and students in a more streamlined fashion, an increase on the same is requested to be made by BoG.

*It was decided to remove the limit of Rs. 12000/- that existed from this month onwards and get the services of the Junior Clerk cum Accountant on daily wage basis of Rs. 740/- per day subject to a maximum of Rs. 19980/- per month. The present incumbent will also be required to serve on a needs basis depending on the amount of work involved as per G.O. (P) No. 81/2019/Fin dtd 9.7.2019.*

#### **10. Any other item permitted by the chair**

##### **6. Expenditure in connection with international conference ICETEST 2018.**

*Principal informed that this BoG meeting could not consider the final settlement of accounts as the audit report by the external chartered accountant was submitted only in the nick of time and the office did not have sufficient time to verify the account following government rules for the expenditures.*

*It was suggested by the BoG that the settlement should be completed before the next BoG.*

##### **7. Expenditure in connection with convening of Departmental Advisory Board.**

*Dr. Satish V Kailas inquired about the selection procedure in forming the DAC and Dr. C D Anil Kumar who presented the proposal clarified that it was a due requirement for the NBA accreditation. It was clarified that expenditure in this regard be restricted to only the entitled persons as per government rules in this matter. It was also suggested that expenses for the conduct of the event following the rates given for similar programs in the government can be given.*

The meeting can to an end at 1.45 pm with vote of thanks by the TEQIP coordinator, Prof. K.V. Manoj Kumar



## ANNEXURE II

### **SUGGESTED GUIDELINES FOR THE EFFECTIVE UTILIZATION OF FOUR FUNDS DURING THE PERIOD OF THE PANDEMIC UNTIL NORMALCY IS RESTORED**

#### **1. GUIDELINES FOR THE CONDUCT OF FACULTY DEVELOPMENT PROGRAMS**

There has to be a new method for conducting the programs, which will be essentially in ONLINE mode. Accordingly the payment for experts and timing of the sessions may be revised as follows

##### **In-house Program**

1. Each session by an external expert will be of 3 hours, with 15 minutes break in between sessions, whose structure may be decided by the resource person.
2. Preferably each technical session may include activities for participants.
3. The coordinator has to consolidate all the sessions and an online quiz/evaluation is to be done based on which the certificates are issued.
4. For each session, the expert may be paid the honorarium as per TEQIP/Govt of Kerala rules. It is suggested the present TEQIP rate may be retained, without the TA/DA component.

##### **External Programs**

1. The registration fee paid by the faculty, if any, to attend the program will be reimbursed as per the existing norms.
2. The faculty/staff has to submit the detailed report of the program after attending it.
3. Preferably the courses shall be selected in the emerging areas.
4. The faculty attending online courses will not be eligible for any TA/DA.
5. There will be no limit to the number of online courses attended by the faculty, but the fee reimbursement from TEQIP is limited to the extent already fixed by the BoG.
6. The faculty will be permitted to present papers in reputed conferences (online) using the FSD fund, with the approval of Academic Committee.

## 2. GUIDELINES FOR THE CONDUCT OF STUDENT SUPPORT PROGRAMS

### **Remedial/Bridge Courses, Students Training Programs, Internship, Conference, etc.**

1. Remedial classes for weak students/ failed students are to be conducted by the departments. Details such as total number of students, total hours required etc., shall be submitted by the HoD.
2. Online remedial class shall be offered by the faculty allotted by the department. An honorarium of Rs.600/- per hour shall be payable for the faculty assigned.
3. The details of quizzes conducted/ online evaluation must be submitted. The details of the link, timings, date, attendance etc., are to be submitted by the faculty. Classes conducted should be recorded and submitted.
4. Classes for common subjects must be conducted as a single class room session. If the faculty handling the subject is different for each department, the HoD must allot a suitable faculty to conduct the program.
5. The department has to monitor the results of the beneficiary students and the HoD has to submit a report to the TEQIP office as and when the results are published.
6. External subject experts can be called for conducting remedial / bridge classes online, if found necessary. The expert will be eligible for honorarium Rs.600/ hr and no TA/DA is permissible.
7. Remedial classes shall be arranged only for helping the students in understanding difficult topics, which were already covered by the faculty.
8. Online counseling classes wherever necessary may be arranged by the department. The experts selected may be permitted to give an online class in the platform prepared by the coordinator/department. One to one interaction of the needy students with experts may be encouraged. The remuneration payable for the experts is as per FSD norms. No TA/DA is permissible. The expert selected must be a reputed person with a minimum experience of 10 years in the area of counseling.
9. Online coaching classes for appearing in competitive examinations like GATE, CAT, MAT, etc can be conducted by subject experts, subjected to approval by Academic Committee. The list of faculty and programs shall be submitted by the department for further recommendation.
10. Students attending reputed conferences for oral presentation (online) can be funded through this scheme as per existing norms without TA/DA component.
11. Online training programs / workshops may be conducted by the approval of the III Cell committee. The honorarium to the expert is payable as per the norms for FSD programs.

## **ANNEXURE III**

### **Activities undertaken by Covid 19 Cell, GEC Thrissur**

A 16 member committee headed by Nodal officers Dr. C.V. Lal and Dr. Tajudhin Ahammed was constituted on 24/03/2020 to support the government initiatives in this regard. The salient activities carried out are listed below.

1. The department of Chemistry in association with NSS had made hand sanitizers in the lab and was supplied to all departments for use inside the college on 13/03/2020.
2. Break the chain campaign was done inside the campus by creating awareness among all the people in the campus and also hand wash/sanitizers were kept at entry points.
3. The health department visited the college hostel and college to identify the probable isolation wards on 24/03/2020.
4. Mr. Munawar of the department of Architecture has made around 1000 cloth masks and was distributed in his locality.
5. Six boxes for aerosol boxes were delivered to Government Medical College, Thrissur. Another 3 boxes with modified design, to be used for Paediatrics department was also delivered. The design and development was done at FABLAB by Mr. Aswin Kumar of S6 Mechanical Engineering and Prof. Ajay James of CSE.
6. Ksheera Doothan, an application for connecting local buyers with milk farmers was developed by Abhinav KM of S8 CSE and Jayakrishnan of S6 ECE, GEC Thrissur under the guidance of Prof. Thajudin Ahamed V I and Dr. M S Sinith of ECE department in association with Indian Veterinary Association.
7. Covid Cab, a small cabinet that allows people to walk in and collect sample for testing coronavirus was designed in consultation with the doctors of the Medical College, and developed at the FABLAB in association with the Ideator Club of Government Engineering College, Thrissur, by Mr. Sourav P S, S8 Production Engineering, Mr. Pranav Balachandran of S6 Production Engineering and Mr. Aswin Kumar of S6 Mechanical Engineering under the guidance of Prof. Ajay James, Asst. Professor in Computer Science and Engineering
8. The Sanitizer Kunjappan 2.0 robot was developed at FABLAB of Government Engineering College, Thrissur by the students of Production (Mr. Sourav P S , Mr. Pranav Balachandran) and Mechanical (Mr. Aswin Kumar & Mr. Cherian Francis) Engineering under the guidance of Prof. Ajay James of Computer Science and Engineering. The robot which costs around Rs 12,000/-, was funded by the Parent Teacher Association (PTA) of Government Engineering College, Thrissur.

9. Face Shields were 3D printed and was handed over to the Thrissur District Collector. FABLAB, GECT has designed a new model which can be done using Laser cutter to manufacture 100-200 shields per day. The head shields were designed and developed by Mr. Sourav P S, S8 Production Engineering, Mr. Pranav Balachandran of S6 Production Engineering and Mr. Aswin Kumar of S6 Mechanical Engineering under the guidance of Prof. Ajay James, Asst. Professor in Computer Science and Engineering. The request came from Dr. Sathish, Deputy DMO, Thrissur.

Ventilator splitter was designed and developed in the fablab. In case of emergency these splitters can be used for splitting the ventilators.

10. Ventilator splitter was designed and developed in the FABLAB. In case of emergency these splitters can be used for splitting the ventilators.
11. The Thrissur District Administration has requested to develop an Emigrant Management System software. The software is intended to manage room allotment for emigrants returning to the state of Kerala. Features of the software are as follows:
1. Five level user management.
  2. Allotment, Discharge, Decontamination.
  3. Status district wise, municipality wise, state summary.
12. The fablab has designed and developed low cost pedal operated sanitizers. The approximate cost of this mechanical sanitizer will be around Rs 50/-. The mechanism was developed at Fablab of Government Engineering College, Thrissur by the students of Production Engineering (Mr. Sourav P S , Mr. Pranav Balachandran) and Mechanical Engineering (Mr. Aswin Kumar & Mr. Cherian Francis) under the guidance of Prof. Ajay James of Computer Science and Engineering. The design is kept open and can be used by others.
13. Patient Cage for Dentists, Aerosol Containment Box for Lathe, Face Shield for Dentists were developed at Fablab of Government Engineering College, Thrissur by the students of Production Engineering (Mr. Sourav P S , Mr. Pranav Balachandran) and Mechanical Engineering (Mr. Aswin Kumar & Mr. Cherian Francis) under the guidance of Prof. Ajay James of Computer Science and Engineering. The equipments were handed over to Dr. Joly Mary Varghese, Principal, Government Dental College, Thrissur and Dr. Joy P T on 13/05/2020.

## ANNEXURE IV

### NIRF Ranking Details

<b>Teaching, Learning &amp; Resources (TLR)</b>		GECT	CET	difference	<b>0.3</b>
A. Student Strength including Doctoral Students(SS):	20 marks	10	11.5	-1.5	0.3
B. Faculty-student ratio with emphasis on permanent faculty (FSR):	30 marks	26.29	26.19	0.1	
C. Combined metric for Faculty with PhD (or equivalent) and Experience (FQE):	20 marks	10.81	11.35	-0.54	
D. Financial Resources and their Utilisation (FRU):	30 marks	10.03	10.34	-0.31	
<b>Research and Professional Practice (RP)</b>				0	
A. Combined metric for Publications (PU):	35 marks	1.31	5.19	-3.88	0.3
B. Combined metric for Quality of Publications (QP):	40 marks	1.17	4.38	-3.21	
C. IPR and Patents: Published and Granted (IPR):	15 marks	0	0	0	
D. Footprint of Projects and Professional Practice (FPPP):	10 marks	0.38	0.83	-0.45	
<b>Graduation Outcomes (GO)</b>					
A. Combined metric for Placement and Higher Studies (GPH): 40 marks	40 marks	23.44	26.72	-3.28	0.2
B. Metric for University Examinations (GUE): 15 marks	15 marks	15	15	0	
C. Median Salary (GMS): 25 marks	25 marks	10.77	11.71	-0.94	
D. Metric for Number of Ph.D. Students Graduated (GPHD): 20 marks	20 marks	0.72	2.15	-1.43	
<b>Outreach and Inclusivity (OI)</b>					
A. Percentage of Students from other States/Countries (Region Diversity RD ):	30 marks	0.28	0.62	-0.34	0.1
B. Percentage of Women (Women Diversity WD):	30 marks	25.99	25.37	0.62	
C. Economically and Socially Challenged Students (ESCS):	20 marks	3.72	3.99	-0.27	
D. Facilities for Physically Challenged Students (PCS):	20 marks	16	20	-4	
<b>Perception (PR)</b>					
Peer Perception: Employers & Academic Peer (PR)	100	2.16	16.31	-14.15	0.1