

Minutes
27th Meeting of Board of Governors



Government Engineering College
Thrissur-680009

On
9th February 2022 Wednesday at 02:00 PM
held online

27th MEETING OF BOARD OF GOVERNORS
on 09.02.2022 at 02.00 PM, online
AGENDA

SL. No.	Item Description	Page No.
1	Confirm the Minutes of 26 th Meeting of the Board of Governors on 20/12/2021	
2	Review the actions taken report on the decisions in the 26 th Meeting of the Board of Governors.	
3	Presentation of activity reports by nodal officers	
	3.1 Academic	
	3.2 Procurement	
	3.3 III Cell	
	3.4 Finance	
4	Approval of activities under various heads.	
5	Ratification of activities carried out.	
6	Any other item permitted by the chair <ul style="list-style-type: none"> Reimbursement of expenses in connection with faculty attending various programs like PG diploma, online courses like COURSERA etc. 	

Members present.

- 1. Dr. Ligy Philip, Professor, IIT Madras, Chairman**
- 2. Dr. Satish Vasu Kailas, Professor IISc Bangalore**
- 3. Shri. Ajayan C, Additional Secretary, Higher Education Department, Government of Kerala.**
- 4. Dr. Vrinda V Nair, Director SPFU, Directorate of Technical Education**
- 5. Dr. Ranjini Bhattathirippad, Principal, GEC Thrissur**
- 6. Dr. C.V. Lal, Prof., Civil Engg, GEC Thrissur**

The meeting commenced at 2.00 P.M. The principal welcomed the members and opined that the institution is taking all out efforts to see that the four funds expenditure will progress towards successful completion, now that an extension of 1 year for completion has been granted by the Government. The

honourable Chairman BoG expressed her opinion that no laxity in the intensity should be brought in because of the additional time. This meeting then decided to take up the agenda items one by one.

1. Approval of Minutes of 26th BOG Meeting held on 20.12.2021

Draft Minutes of the Meeting was circulated among the members and after discussion and remarks it was approved.

2. Review the action taken report on the decisions in the 26th meeting of the Board of Governors

The following ATR was presented and got approved.

No.	Decision item	Action taken	Action by
1	BoG suggested to include the quartile index for publications in research journals	From this BoG onwards this publication impact index is also included with data.	Nodal officer Academic, HoDs
2	Improving the Utilization of Four Funds	During the period under report increase in spending over the previous period has been obtained. Department wise expenditure is also presented.	HoDs, Nodal Officer Finance

3. Presentation of activity reports by nodal officers

3.1 Presentation of Activity Report of the Academic unit

The nodal officer, academic presented the following report of their unit.

1. Faculty Publications During the Period from November 2021 to January 2022

Department	International Journals	International Conferences	Number of Publications Categorized under Various Quartiles			
			Q1	Q2	Q3	Q4
CE	1	8		1		
ME	2					2
EEE	1	1				
CHE		1				
PE		1				
CSE		1				
ECE		1				

Major Achievements

Our institution has been recognized in the band “ **Performer**” under the category

“Colleges/Institutes” in Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2021, a flagship program of the Ministry of Education , Government of India.

Five faculty members of Mechanical Engineering Department completed phase one (8 modules) of National Initiative for Technical Teachers Training NITTT.

Dr Sunil Jerome

Sri Karun V Gopal

Sri Jerry Davis

Sri Prasanth A B

Sri Rahul N U

NPTEL star - Dr Sunil Jerome - Recognised as NPTEL star - category NPTEL enthusiast Jul-Dec 21 - (Requirement -Appeared in at least 8 exams in 4 semesters, passed in 75% of courses appeared)

The “India Plastic Challenge – Hackathon 2021” is a unique competition calling upon start-ups /entrepreneurs and students of Higher Education Institutions (HEIs) to develop innovative solutions to mitigate plastic pollution and development alternatives to single use plastics. The team “MyPlasticPays” consisting of Aadhya K Raj, IjasAhammed J, Anjana K T and Amita Rajeev under the mentorship of Prof. Ajay James competed under the track digital solution for Plastic waste. It was a four-month long hackathon which offered various workshops and coaching on developing business cases. The final pitching for the top 20 teams were held in October out of which our team listed in top 3. The team has already been incubated under the SwavalambanIncubation program at TBI Government Engineering College Thrissur.

Patent

A fifth semester student from Department of Civil Engineering along with his brother invented a board game and filed patent for the invention titled “Table top board game”

- Patent Application No. 202141046057
- Date of filing: 9 th October 2021
- Team for the invention: Sreeharshan M P (Civil Engineering 3 rd year student), Hrishikesh M P

Swavalamban Chair for MSME solutions by Small Industries Development Bank of India (SIDBI) under the project SAHAS (SIDBI Assistance for Harnessing Aspiring Swavalambis) has been established at Government Engineering College Thrissur to promote the entrepreneurial and Startup activities of the college and other institutions in the region. The chair encourage local entrepreneurship and attract non-residents and companies to set up technology enterprises

Programs conducted by Swavalamban Chair of MSME

Category	Name of the program	Date	Time	Remarks
Entrepreneurship development program	1. SAMBHAV	17 th November 2021	4:00 PM to 7:00 PM	A National Level Awareness Program for the students conducted through google meet

				platform.
	2. Ideathon	7 th December 2021	7:30 PM – 9:30 PM	The ideathon competition was conducted to select innovative ideas among students and support them by providing necessary guidance and mentorship to develop the ideas.
	3. Hackathon	7 th to 9 th December 2021	48 hours	An online competition, conducted to develop product development skills in students.
Skill development programs	1. Internet of Things workshop	23 rd -25 th November 2021	Daily 2 hours session	The session was handled by Mr. Mohammad Rishan N.K , Pace Lab certified trainer.
	2. Introduction to 3-D printing	27 th November 2021	9:30 AM to 12:30 PM	The workshop was under the mentorship of Mr. Aswin Kumar , Designer and Ex-IEDC CEO.
	3. Introduction to UVD robots	30 th November 2021 to 2 nd December 2021	Daily 2 hours session	The workshop was handled by Estro Tech Robotics and Innovations Pvt.Ltd. , the makers of India's first UVD robot.
	4. Introduction to PCB fabrication	4 th December 2021	10:00 AM to 4:00 PM	The session was handled by Mr. Aswin Kumar K , Designer and Ex-IEDC CEO of GEC, Thrissur.
	5. Introduction to Sketchup	4 th December 2021	10:00 AM to 4:00 PM	The session handled by Architect Thomas Mathew , Skilled Architect and creative director of OLAM festival. The session was mainly targeted towards students from Architecture, Civil, and Mechanical departments.
	6. Augmented Reality app development workshop	18 th & 19 th December 2021	10:00 AM to 4:00 PM	The session was held by Infusory Future Tech Labs Pvt Ltd. Mr. Shyam Pradeep , the Chief Operating Officer (COO) of Infusory Future Tech Labs Pvt Ltd mentored the sessions.

3.2 Presentation of Activity Report on Procurement

A total amount of Rs 3291957 (Rupees thirty two lakhs ninety one thousand nine hundred fifty seven only) has been approved in the BoG on 24.11.2021. Out of this amount, Rs. 3115824 (Rupees thirty one lakhs fifteen thousand eight hundred twenty four only) is sanctioned in replacement head and Rs 176133 (Rupees one lakh seventy six thousand one hundred thirty three only) in maintenance head. The list of items sanctioned are as follows:

Sl No.	Item Description	Amount (Rs)	Dept.	File No. in Office	Date of Opening	Award Date	Vendor Address
	Replacement						
1	Surface Roughness Tester	523802	PE	D1/7392/20	30.04.2021	13.12.2021	Prompt Machine tools
2	Remote sensing and Photogrametry suite	708000	CE	D1/10090/21	20.12.2021		Order placed on M/s Adepto Geoinformatics
3	Upgradation of PSIM Software	1259055	EEE	D1/2343/2021	23.10.2021	24.11.2021	
4	CRO-2	44320	ECE	D1/9894/2021/ GECTCR			tabulation stage
5	Digital Multimeter-2	97200	ECE				
6	Digital Oscilloscope-1	79590	ECE				
7	Power Supply-8	261030	ECE				
8	Function Generator	34755	ECE				
9	Projector	108072	ECE	D1/9896/21/GECTCR			tabulation stage
Total:		3115824					
Maintenance							
1	Load Frame	47562	CE	D1/10621/21/GECTCR			Work Order Placed
2	Consolidation Testing Apparatus	37158		D1/10620/21/GECTCR			
3	Pressure Volume Change Controller	45703		D1/10623/21/GECTCR			
4	Gunn Power supply	9335	ECE			Under processing	

5	Optical Power Meter	12375	ECE			in the department	
6	Function Generator	12000	ECE				
7	Power supply	12000	ECE				
	Total:	176133					

An total amount of Rs 4229625 (Rupees fourty two lakhs twenty nine thousand six hundred twenty five only) has been approved in the BoG on 20.12.2021. Out of this amount, Rs.3976397 (Rupees thirty-nine lakhs seventy-six thousand three hundred ninety-seven only) sanctioned in replacement head and Rs 148600 (Rupees one lakh seventy six thousand one hundred thirty three only) in maintenance head and Rs 104628 (Rupees one lakh four thousand six hundred twenty eight only) in annual maintenance charge. The list of items sanctioned are as follows:

Sl No.	Item Description	TEQIP Identification No.	Qty	Dept.,	Amount (Rs)
Replacement					
1	Vibration Analyser - Field Paq-Serial No.05000309),	TEQIP-II/116/613	1	ME	802100
2	Desktop-Digital Viscometer (Serial No.141350837)	TEQIP-II/138/2171	1	ME	93600
3	Rapid Photo Typing machine - Desktop 3D printer , Structured light Scanner , DAVID SL SCANNER - Serial No.1083760, EYK 2801001207 , ABOBB5901	(TEQIP Identification No.TEQIP II/160/2884 and TEQIP II/160/2885)	1	ME	625000
4	Desktop High End Computer -	TEQIP-II/46/543, TEQIP-II/46/544 TEQIP-II/46/545,TEQIP-II/46/546, TEQIP-II/46/547,TEQIP-II/46/548 TEQIP-II/46/550,TEQIP-II/46/551, TEQIP-II/46/552,TEQIP-II/46/556, TEQIP-II/46/557,TEQIP-II/46/558, TEQIP-II/46/559,TEQIP-II/46/560, TEQIP-II/46/561,TEQIP-II/46/543	13	ME	623337

5	Desktop Dell Optiplex -High End -3010	(TEQIP II/46/579 and TEQIP II/46/576	2	CE	84000
6	Laptop -HCL MC-L1065	(TEQIP II/121/671,TEQIPII/121/670 & TEQIP11/121/674)	3	CE	168000
7	Laptop Dell Vastro	(TEQIPII/118/31)	1	CE	56000
8	Desktop -Desktop Computer Medium End- Optiplex 3010	TEQIP-II/46/527 ,TEQIP-II/46/528 TEQIP-II/46/529 ,TEQIP-II/46/530 TEQIP-II/46/531 ,TEQIP-II/46/532 TEQIP-II/46/533 ,TEQIP-II/46/534 TEQIP-II/46/535 ,TEQIP-II/46/536	10	ChE	427990
9	Laptop Computers - Dell Vostro 2420	TEQIP-II/118/11,TEQIP-II/118/12, TEQIP-II/118/14, TEQIP-II/118/17, TEQIP-II/118/19,TEQIP-II/118/20,	6	CSE	337602
10	Printers -HP Laser Jet 1020 Plus, HP Laser Jet 1020 plus, Canon 3500DN, Epson Dot Matrix LQ2090(4 Nos)	Canon 3500DN - TEQIP -II/119/644, Hp Laser Jet 1020 Plus - TEQIP -II/119/651 & TEQIP-II/119/652 EPSON LQ2090 136 COLDMP - TEQIP-II/119/661,TEQIP-II/119/662, TEQIP-II/119/663, TEQIP-II/119/664	7	CSE	84000
11	Desktop Computers - Dell Optiplex 3010		5	CSE	147440
12	4-Digit Electronic Balance (ACZET-CY224C) and 2-digit Electronic Balance (Precision Balance ACZET - CG302) (CYBER LAB US 600G - 0000596,594)SHIMADZU ATY 224 -0307500693	TEQIP-II/99/2174 & TEQIP-II/99/2175,TEQIP-II/99/2176	3	Chemistry	197744
13	Computers -	TEQIP II/46/596,TEQIP II/46/589,TEQIP II/46/595, TEQIP II/46/593,TEQIP II/46/590,TEQIP II/46/594,TEQIP II/46/592,TEQIP II/46/524	8	PE	329584
		Total :	3976397		
Repair and Maintenance					
1	UPS Maintenance Charge -(15 KVA) TECHSER 15, Serial No.MY 1307001	TEQIP-II/49/2107	1	PE	14300

2	Multimedia Projector -EBSON-EB4702 57JF270224L	TEQIP-II/114/616	1	Chemical	5000
3	Pure rotary Bending Machine -PQ 6 - Serial No.051014	TEQIP-II/135/2193	1	CE	14500
4	Computer Chair -	TEQIP-II/82/86 to TEQIP-II/82/146	60	CSE	11800
5	Repair and Maintencance - Rheometer -(Model No. MCR 102- Serial No.81312832	TEQIP-II/47/2876	1	Chemical	59000
6	Computer Chair	TEQIP-II/166 to TEQIP-II/82/240	40	CCF	32000
7	Spectrometer	TEQIP II/110/798-801	4	Physics	12000
		Total :			148600
AMC					
1	Gas Chromatograph	-No.40695744 (Claurus 580)	1	Chemical	104628

Further, a total amount of Rs 21,98,592/- (Rupees Twenty one lakhs ninety eight thousand five hundred ninety two) is to estimated and included in the plan for maintenance and replacement of equipments purchased under BoG. The requirement is for replacement fund of Rs. 21,64,232 (Rupees twenty one lakhs sixty four thousand two hundred thirty two) and maintenance fund of Rs.34,360 (Rupees thirty four thousand three hundred and sixty only). The list of items includes the following.

Sl No.	Item	Specifications/Model make	Dept	Amount (Rs)
	Replacement			
1	Replacement of Desktop computers	Intel core i3 7100, 4GB DDR4 RAM TEQIP II/46/463 to 69; 471;472,474;476;478;480;481;483 (15 no.s)	Computer science	442320
2	Replacement of Laptops	Intel core i58265 U @ 1.6 GHz, 4 MB cache; TEQIP II/121/676;678;680;682 to 684;686;690; TEQIP II/118/13;15;16;18 (12 no.s)	Computer science	675204

3	Replacement of Multimedia Short throw projector	EPSON EB 470i; TEQIP II/114/614	Computer science	145000
4	Replacement of UPS	10 KVA ; TEQIP II/CSE/11/4-5; 5-5 (2 no.s)	Computer science	198000
5	Replacement of Desktop computers	AMD Ryzen 5 3400 G @3.7 GHz, 4 cores , 6 MB; CN-OV 3664-64180-34A-3CIU;36JU;42YU;369U;37XU;3BJU (6 nos)	Electrical and Electronics	247188
6	Replacement of Laptops	Intel core i5 1135 G7 @ 2.40Ghz , 8MB cache; TEQIP II/121/694; TEQIP II/118/33; (2 no.s)	Electrical and Electronics	102620
7	Replacement of Computer Revolving Chairs	TEQIP-II/82/87,89,90,92,93,94,95,96,97, 98,100,101,102,103,104,105,107,109,111-113,115,116,118,120,121,122,124,126,128, 129,130,135,137,138,140,141,143,145,146	Computer science	140000
8	Replacement of Computer Tables	TEQIP-II/81/2341-45,2350-2354,56,58, 60,61-63,66,67,69,71,72,73-77,79-86, 88,90,91,93,94,97	Computer science	100000
9	Replacement of printer	TEQIP II/119/646	Chemical	14900
10	Replacement of 20 kVA online UPS 3 phase 360 V DC	TEQIP II/49/2105	CCF	99000
Maintenance				
1	Maintenance of chair	TEQIP II/82/260-276 (17 no.s)	Production	8260
2	Maintenance of Chair furniture	TEQIP II/82/156-165(10 no.s)	Electronics and Communication	4100
3	Maintenance of Shaping machine	SAGAR; All geared ; Stroke =12” TEQIP II/103/2169	Mechanical	20000
4	Maintenance of a printer	Hp Laserjet 1020 plus; CNCH 168332,CC418A	Mechanical	2000

3.3 Presentation of Activity Report of III Cell

Programs Conducted

Sl. No.	Topic	Resource Person	Date	Coordinator	Expenditure
1	Mr.Robin Soetens, Design Engineer,	Robotics and automation	14 Dec 2021	Dr.Sudheesh	3000

	ASML Holding, Netherlands			R.S., Asso.prof.,	
2	Dr. Jayachandran K , Chief GM (Corporate planning) FACT, Kochi	Chemical engineer and industry	16-12-2021	Padmavathy K S	6950
3	Ms. Sharath K Bharath, Operational Excellence Advisor, SAUDI Aramco	Process Safety in Asset Integrity Management	Nov 5 2021	Padmavathy K S	3000
	Total				12950

MoUs signed during the period

MoU is signed with Sri. P Suresh, Managing Director, **Steel and Industrial Forgings Ltd, Athani, Thrissur** on 3rd December 2021 for a period of 5 years.

The III Cell has in its meetings scrutinized the following list of proposals from various departments and are submitting it to the approval of BoG. (Refer Item 4.5 for details).

Sl. No	Department	No. of programmes		Expenditure expected in Rs.
		Online	Offline	
1	Civil Engg.	0	11	1,68,000
2	Electronics & Communication Engg.	2	6	67,000
3	Chemical Engg.	2	4	1,29,000
4	Mechanical Engg.	0	3	26,000
5	Electrical and Electronics Engg.	0	4	40,000
6	Production Engg.	0	6	60,000
	TOTAL			4,90,000

3.4 Presentation of Finance Activity Report for the period upto Nov 20th 2021

The expenditure as on today, department wise is given below.

Department	Expenditure upto 26 th BoG	Expenditure since 26 th BoG	Cumulative expenditure as on 31.01.2022
Mechanical Engg.	1354975	124301	1479276
Civil Engg.	692775	19450	712225
Electrical and Electronics Engg.	819409	12520	831929
Electronics and Communication Engg.	860718	12216	872934

Chemical Engg.	706114	6130	712244
Computer Science & Engg.	763047	8000	771047
Production Engg.	423627	4100	427727
Institution	1284668	59195	1343863
TOTAL	6905333	245912	7151245

At present, the funds available under the various heads are

- Corpus Fund : Rs.48,23,162/-
- Faculty& Staff Develop. Fund : Rs.57,37,676/-
- Maintenance Fund : Rs.45,02,952/-
- Equipment replacement : Rs.65,48,890/-

The detail of the expenditure pattern and plans for spending the remaining amount in future is as given on next page.

TEQIP II FOUR FUNDS UTILIZATION								
Monthly Financial Management Report (Activity and Sub-Activity wise)								
TEQIP II Sub-component 1.1								
Name of the Institution: Govt. Engg. College Thrissur								
Name of the Fund	Category of expenditure (Head of expenditure)	Sub-Activity	Expenditure on 31.12.2020	Expenditure for the period 01.01.2021 to 20.11.2021	Total Expenditure up to 31.01.2022	Expenditure in Pipeline	planned expenditure up to the month of March 2023	Total
1	2	3	4	5	6=(4+5)	7	8	9=(6+7+8)
Corpus Fund	Academic support for students	Expenditure incurred on research projects taken by UG/PG students	209055	81423	290478	23810	1880000	2194288
		Expenditure incurred on research publications	281912	11420	293332	20790	115000	429122
		Remedial Class	56400	5400	61800	0	30000	91800
		Visiting Faculty	296984	9000	305984	3000	444500	753484
		Industry Institute Interaction	44753	0	44753	12950	483000	540703
		Skill Development & Others	92467	1100	93567	0	2067550	2161117
		Total	981571	108343	1089914	60550	5020050	6170514
	Incremental operating cost	Salary	581690	31820	613510	17040	270000	900550
		BoG meetings	161374	9000	170374	18000	198000	386374
		Stationary and other expenses	28736	650	29386	5000	20000	54386
		Others	107223	0	107223	0	20000	127223
	Total Utilisation from Corpus Fund		1860594	149813	2010407	100550	5528050	9339808

Faculty Development Fund	FSD	Expenditure on faculty members attended training in subject domain	405367	20600	425967	78780	554715	1059462
		Expenditure on faculty members attended pedagogical training	26663	0	26663	0	0	26663
		Expenditure on organising inhouse subject area training programmes/workshops/seminars/conferences etc	562269	0	562269	43384	4220000	4825653
		Expenditure on participation by faculty in external seminars/conferences/workshops etc	642073	67009	709082	47140	350000	1106222
		Expenditure on staff development	43072	0	43072	0	0	43072
		Others	747946	0	747946	931750	599000	2278696
		Total	2427390	87609	2514999	1101054	5723715	9339768
Equipment Replacement Fund	ERF	Equipment	2399521	0	2399521	523802	6944840	9868163
		Books	0	0	0	0	0	0
		Software	0	0	0	1967055	0	1967055
		Furniture	0	0	0	0	0	0
		Others	0	0	0	0	0	0
	Total		2399521	0	2399521	2490857	6944840	11835218
Equipment & Civil Maintenance Fund	ECMF	Equipment Maintenance	218088	8230	226318	130423	333298	690039
		Civil Works	0	0	0	0	0	0
		Others	0	0	0	0	0	0
	Total		218088	8230	226318	130423	333298	690039
Grand Total			6860753	245652	7151245	3822884	18529903	29504072

4. Approval of activities under various heads.

4.1 Faculty Staff Development – Expenditure on attending subject domain training programmes

SL No.	Name of the Faculty Member	Dept.,	Name of The programme	Amount
1	Dr.Haris Naduthodi., Prof.,	PE	Innovation and change management for organizational excellence, during March 2022 at National Productivity council	85720
2	Dr.Manjithkumar., Prof.,	PE	Innovation and change management for organizational excellence, during March 2022 at National Productivity council	85720

4.2 Faculty Staff Development – Expenditure on conduct of STTPs

Sl No.	Name of the Programme	Date of the Programme	Coordinator	Dept.	Amount
1	Advances in Bridge Engineering Design and Research perspective	21-25 March 2022	Dr.Miji Cherian., Asst.Prof., Ms Remya Rernan., Asst.Prof.,	CE	50000
2	Recent Advances in composite Materials and structures	04-08 April 2022	Dr.Seena P., Asso.Prof., & Ms.Jiji Gopan V.A., Asst.Prof.,	CE	50000
3	Climate change induced challenges in civil Engineering	14-18 March 2022	Dr.Reeba Thomas., Asso.Prof., & Ms.Smitha Mohan., Asst.Prof.,	CE	50000
4	Advanced Materials(Offline mode)	22-24 June 2022	Dr.Praseetha P.Nair Asso.Prof., Dr.Sajeena Beevi B., Asso.Prof., Chemical Dept.,	ChE	139000
5	Software tools for process Engineers(Offline mode)	10-12 Aug 2022	Dr.Anjana R., Asso.prof., & Dr.Padmavathy K.S., Asst.Prof.,	ChE	148000
6	Advancements in Grid integration of distributed resources	06-10 June 2022	Ms.Divya N.A., Asst.Prof., Nisha G.Poothullil., Asst.Prof.,	EEE	50000
	TOTAL				487000

4.3 Research Projects – UG Students

SL No.	Name of the Faculty Member	Name of the Students	Dept.,	Name of The research Project	Amount
1	Dr.Lalu P.P. Prof.,	Amal Dinesh P.P., Anish Sabu, Chandu P. Anil, Joyal Biju	ME	“Acoustic camera for maintenance inspection”	20000
2	Dr.Baiju B., Prof.,	Abhin Vijay K., Ajith Vijayan., Gokulnath K.S., Jenson T., John.,	ME	“Synthesis of motor fuel from plastic using pyrolysis”	20000
3	Dr.Sudheesh R.S., Asso.prof.,	Ajesh Variyam, Aravind Sreedhar, Athul M.K., Jeffin Cherian Jacob.,	ME	Soft Robot gripper	20000
4	Dr.Lalu P.P., Prof.,	Anto Thomas Rayon,Jons Paulson Eluvathingal Ayyail., Jovan Babu, Jovin B. Manjila.,	ME	“Design and fabrication of 3 DOF delta parallel robot for sorting of letters”.	20000
5	Dr.Abdul Samad P.A., Asso.Prof.,	Adithyan S., Albin saju George., Alfro Robin, Harison Seby	ME	Human Robot Collaboration	20000
6	Dr.L.Rekha., Prof.,	Ajoy K.Alex., Aswini M.M., Aswin Raveendran., John Joy.,	ME	Design and Fabrication of modified stepped solar still	20000
7	Dr.Sandya M., Asso.Prof.,	Abdul Jabir T., Mohammed Rashid E.K.,Adhithyan S., Abhijith M.R.,	ME	Advanced track detection system	19500
8	Ms.Nisha G.Poothullil., Asst.Prof.,	Akhila K., Akhila T., Ardhra R., Arjundas V.M.,	EEE	Air Quality Monitoring using unmanned aerial vehicles	20000
9	Dr.Jaison Mathew., Asso.Prof.,	Sajeev H.B.,Valeed P., Vasil C., Mashood K.M.,	EEE	Eco Friendly EV charging station for 2 and 3 wheelers	20000
10	Mr.Sreenath B., Asst.Prof.,	Adarsh K.S., Muhammed Harshal A., Yadhu Krishna O.R., Biline K.C.,	EEE	Solar DC Home	20000
11	Mr.Haryhar A.S., Asst.Prof.,	Adithya Kumar M.S., Adithyan Vijayakumar,Akshay Krishna R., Ebin Muttath	EEE	Electric Bicycle	18200
12	Ms.Divya N.A., Asst.Prof.,	Aysha Fahmi K.M., Binil Sajeev., Hazrath Rahman K.P.,	EEE	On-Line Solar powered irrigation system using PMSM Drive	20000
13	Dr.Mini V., Asst.Prof.,	Jopaul Varghese, Gokul Krishna K P., Sreelakshmi Murali,Sreerag A.,	EEE	A Novel topology for reducing losses in parallel operation of inverters	13575

14	Dr.Bindumol E.K., Asso.Prof.,	Neethu Nelliparambil, sarika T.N., Asheekha Parveen, Femi K.Johns	EEE	Smart voting machine	14790
15	Mr.Lalgy Gopi., Asst.Prof.,	Akshay Sivan., Aravind Iswarankutty, Gautham Krishna T., Gokul Krishna T.P.,	EEE	Battery Charging mechanism for electric Bicycle	16500
16	Dr.Meenakshy K., Asso.Prof.,	Afeef T.K., Fathima Ahirin A.S., Irshada P., Jabir P.K.,	EEE	EEG controlled smart prosthetic Arm	20000
17	Dr.Suresh K.Damodaran.,	Adharsh C.Raju,Aravind C.,Arjun Manoj., Aswin R.,	EEE	Human Detection Robot for Rescue and Surveillance operations	18200
18	Dr.Joseph K.D., Asst.Prof.,	Mohammed Bazil K.D.,Mohammed Shajeeh T.H., Rino Martin., Shanil Hussain T.K.,	EEE	Residential EV charging station using IOT	20000
19	Mr.Binoy B.B., Asst.Prof.,	Ajay Krishnan V., Aparna Visakh., Arjun Raj K.V., Dhanya P.K.,	EEE	Wireless Voice Amplifier	7000
20	Mr.Bijo Lawrence., Asst.Prof.,	Aiswarya Vinod,Alan Michael,Devika Manoj, Reshma S.,	EEE	Real Time Indoor Air Quality Monitoring	10300
21	Mr.Jose Sebastin T.K., Asst.Prof.,	Aadil Roshan., Abhirami M Sudhakaran, Dinanjana V.D., Ebin Yesudas.,	EEE	3DOF Parallel Robot	18500
22	Dr.Lisy E.R., Asst.Prof.,	Akhil B.S.,Arathy S., Gopika V. P., Hisana T.,	EEE	Solar Charge controller and monitoring with MPPT for low power solar applications	15480
23	Ms.Laly M.J., Asso.Prof.,	Midhila Das K., Neelima P.S., Vikhnesh Vinu, V.P.Nehenya.,	EEE	Multitasking agricultural Robot	20000
24	Dr.Suhara E.M., Asst.Prof.,	Maya Vinod,Sahala Yasmin P.P., Vishnu P., Yakkoob.Y.,	EEE	Intelligent waste management system	15000
25	Ms.Binitha Joseph Mampilly., Asst.Prof.,	Rahul K., Sreya T.J., Vinnmaya P., Basil P.Babu.,	EEE	Home Energy Storage system (HESS)	20000
26	Ms.Subadhra P.R., Asst.Prof.,	Jijith S.,Krishnakumar Chandran,Sabna Fathima U., Sivaranjini P.N.,	EEE	A wide soft switching range power factor correction converter	8000
27	Dr.Abdul Saleem P.K., Asst.Prof.,	Jishnudev P.G., Kamal U., Muhammed Aflah K.K., N.Sharath.,	EEE	Smart cane for visually impaired people	20000
28	Mr. T.G.Sanishkumar., Asst.Prof.,	Ashlin Albi, Clixon Johnson, Hafilue C., Sanjai Sabu	EEE	EEG controlled smart prosthetic Arm	20000
29	Dr.Rameshkumar P., Asst.Prof.,	Yukthadas K., Sai Anand., Joseph Kuruvila, Mouzoof V.,	EEE	Fruit decay detection and maturity prediction using machine learning	13000

30	Mr.Dileesh E.D., Asst.Prof.,	Nakshathra Nazer, Joseph Davis,Abrar Ahmad Wali, Umar Riswan A.P.,	CSE	A device to detect buried bodies in aftermath of landslides	7000
31	Mr.Dileesh E.D., Asst.Prof.,	Anirudh,Ajay Ram K., Sooraj Bhaskaran,Jishnu Suresh	CSE	IoT Based consumption monitoring device for analog water meters	17650
32	Ms.Kala M.T., Asst.Prof.,	Navaneeth Krishnan P., Gautam S Abraham., Harikrishnan R.U., Shree Lakshmi Lanish	CSE	Assistive Visual System for Hearing impaired Drivers	15500
33	Dr.Shibily Joseph., Asso.prof.,	Salih P.U., Vimala K.V., Ziyad C., Silpa Das K D	CSE	Content Earners	20000
34	Mr.Renjith S.Anand., Asst.Prof.,	Mr.Harishnan K.A., Mr.Akhilesh K.A., Mr.Afreedi Abdulla., Amal S.Jith	CE	Experimental Investigation on stabilization of soft soil using ground granulated blast furnace slag	19950
35	Mr.Renjith S.Anand ., Asst.Prof.,	Manu Siby., Krishnaveni K., Meghna K.V., Irsha Ahmad Najar	CE	Improvement of Engineering properties of river sediments by chemical stabilization	19600
36	Mr.Deepak B., Asst.Prof.,	Niranjana S., Nahan ,silesh	CE	A study of strength and durability alkali activated binders from locally available waste materials	20000
37	Dr.Subaida., Prof.,	Jincy Balakrishnan,N.Aswathi., Prajval Abhay sirsikar,Sreehari G.,	CE	Development of crack detection system for railway tracks	20000
38	Mr.Sunny T.D., Asst.Prof.,	Anju T.A., Keerthana Unnikrishnan,Neeraja Biju,Sovrin Alwin	ECE	Door Dodge system	18300
	TOTAL				666045

4.4 Research Projects – PG Students

SL No.	Name of the Faculty Member	Name of the Students	Dept.,	Name of The research Project	Amount
1	Mr.Prasanth A.B., Asst.Prof.,	Naeem Abdul Azeez P., P.A., M.tech student	ME	Acoustic and mechanical characterisation of Banana fibre reinforced polyester composite for automotive application	20000
2	Mr.Sajith C. Subramanian., Asst.Prof.,	Nihal P., Mtech student.,	ME	“Pineapple fibre reinforced epoxy composite panels for thermal insulation	20000
3	Dr.Sajith Babu C., Prof.,	Akhil S.J., M.tech student	ME	Design and Fabrication of filament extruder for 3D printer	20000

4	Dr.Sajith Babu C., Prof.,	Akshay M., M.tech student	ME	Synthesis and characterization of advanced composite materials	20000
5	Dr.D.Mahipal., Asso.prof.,	Arjun J., M.tech student	ME	Improvement of tribological properties of blackseed oil using different nanoparticles	20000
6	Dr.D.Mahipal., Asso.prof.,	Irfad N., M.tech student	ME	Improvement of Tribological properties of cotton seed oil using different additives	20000
7	Mr.Anwar Sadique., Asst.Prof.,	Safeer S.S., Mtech student	ME	Prediction of Surface roughness using machine learning with vibration signals	20000
8	Arun M.S., Asst.Prof.,	Haris Thomas., M.tech student	ME	strengthening of high Entropy alloy by addition of ceramic particles	20000
9	Dr.Baiju B., Asso.prof.,	Naveen T.P., M.tech student	ME	“Production of fuel –blends from segregated plastics of sanitary napkins and waste tyre by catalytic and integrated pyrolysis for use in compression ignition(CI) engines”	20000
10	Arun M.S., Asst.Prof.,	Muhammed Shafi K.P., M.tech student	ME	Strngthening of A16061 Alloy by addition of high entropy alloys	20000
11	Dr.Renjanadevi B., Asst.Prof.,	Athulya O.V., M.tech student	ChE	Preparation and characterization of cost effective catalyst from bone waste and its application in water treatment	20000
12	Mr.Jikhil Joseph., Asst.Prof.,	Jovita Sabu., M.tech student	CE	Experimental and numerical investigations on CFRP strengthened cold formed steel beams	20000
13	Mr.Jikhil Joseph., Asst.Prof.,	Ahmad Swalih C.K., M.tech Student	CE	Experimental and investigations on prestressed cold formed steel beams	20000
14	Dr.Meera V., Prof.,	Rasmi Mohan T., M.tech student	CE	Fly ash-cement concrete waste for sequestration of phosphate	20000
15	Dr.Meera V., Prof.,	Shijith Raj P.V., M.tech student	CE	Modification of co-solvent assisted interfacially polymerized polyamide composite membrane using carbon nitride nanoparticle	20000
16	Dr.Sosamony K.J., Asso.Prof.,	Krishna M.Girish ., M.tech student	CE	Green Synthesis of GO-MgO Nanomaterial using papaya leaf extract and their utilization in removing Cr(VI) ions from	20000

				aqueous media.	
17	Dr.Sosamony K.J., Asso.Prof.,	Ms.Jiss Theresa Joseph., M3 student	CE	Removal of methylene blue dye using nano zinc oxide modified luffa fiber	20000
18	Ms.Anand Lali Neera., Asso.Prof.,	Ms.Amitha P.M., M3 Student	CE	Iron based nano-composite geopolymer for manganese removal	20000
19	Ms.Anand Lali Neera., Asso.Prof.,	Ms.Alinda Jose ., M3 Student	CE	ZnO based thin films for photocatalytic water disinfection under solar irradiation	20000
20	Ms.Meena John M., Asso.Prof.,	Ms.Vismaya K.B., M3 student	CE	Methylene blue dye removal using orange albedo and Neem leaf powder	20000
21	Ms.Meena John M., Asso.Prof.,	Ms.Sushama K., M3 student	CE	Removal of Iron and copper ions from electroplating industry effluent using MnO ₂ coated Zeolite	20000
22	Jiji Gopan V.G., Asst.Prof.,		CE	Experimental and Analytical Investigation of punching shear behaviour of concrete slabs reinforced with FRP Grids	20000
23	Dr.Seena P., Asst.Prof.,	Lemya Musthafa., M.tech student	CE	Numerical and Experimental study on composite beam to concrete filled steel tubular column joint	20000
24	Ms.Divya B.Mathew., Asst.Prof.,	Ms.Anagha M., Mtech student	CE	Experimental ad numerical analysis of monosymmetric I section subjected to end moments	20000
25	Dr.Miji Cherian., Asst.Prof.,	Farzana Ayub., M.tech student	CE	Experimental and analytical study on the corrosion resistance and fatigue strength of short CPC coated CFDST columns	20000
26	Ms.Jiji Gopan., Asst.Prof.,	Jesmal C J ., M tech student	CE	Prediction of Flexural strength of ECC HSS composite Beams	20000
27	Dr.seena P., Asso.Prof.,	Arya S., M.tech student	CE	Strengthening of structural members using engineering cementitious composites (ECC)	20000
28	Ms.Minimol Pieus., Asso.prof.,	Bibi T B, M.tech student	CE	Treatment of paint industry effluent by using biochar and bentonite clay	20000
29	Ms.Minimol Pieus., Asso.prof.,	Deepu T.S., M.tech student	CE	MBR treatment of pharmaceutical waste water with modified ceramic membrane	20000

30	Ms.Sudha C.P., Asso.Prof.,	Shahanasmol S., M.Tech student	CE	Experimental and analytical study on strength of axially loaded thin walled CFST short column with RIBS	20000
31	Ms.Sudha C.P., Asso.Prof.,	Anjana Anand ., M.Tech student	CE	Experimental and analytical study on axially loaded loaded UHPC encased steel composite column	20000
32	Dr.Nowshaja P.T., Asso.Prof.,	Karthika Soman., M.tech student	CE	Experimental and analytical study of Impact resistance of Fibre reinforced reinforcement channels	20000
33	Dr.Subaida E.A., Prof.,	Athira S., PhD Student	CE	Characterisation of River sediments and its stabilization for Embankment construction	20000
34	Mr.Lalgy Gopi., Asst.Prof.,	Divyasree V., M.tech student	EEE	Implementation of multi – functional EV Charger	20000
35	Dr.Uma Syamkumar., Asst.Prof., EEE Dept.,	Amala M., M.tech Student	EEE	Discrete time repetitive sliding mode control of VSI for permanent magnet synchronous motor	20000
36	Ms.Lisy E.R., Asst.Prof.,	Greeshma M.T., M.tech student	EEE	A three port DC/DC converter with high voltage Gain and reduced	10500
37	Mr.Binoy B.B., Asst.Prof.,	Shilpa Venugopal P., M.tech student	EEE	A dual half bridge converter with hybrid rectifier for DC power supply in railway systems	12750
38	Mr.Haryhar A.S., Asst.prof.,	Gouripriya., M.tech student	EEE	An onboard 3.3-KW Battery charger for electric vehicle application	20000
39	Dr.Jayasree M., Asst.prof.,	Aiswarya Bimal Joy ., M.tech student	CSE	Snow rain streaks removal from single image using attentive deep network	13400
40	Ms.Kala M.T., Asst.Prof.,	Anila V.R., M.tech student	CSE	Detection of diabetic retinopathy using deep learning	12000
	TOTAL				768650

4.5 III Cell programs

Department of Civil Engineering

Sl. No.	Topic	Resource Person	Date	Mode	Budget
1	Sustainable Urban Transport and its impacts	Amegh Gopinath, Technical Expert, Sustainable Urban	March 2022	Offline	25000

		Transport at Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) , New Delhi			
2	Non Destructive Testing	Freddy Soman, General Manager, Matter Material Testing & Research Laboratory (P) Ltd, Kozhikode	April 2022	Offline	12000
3	Material Properties from the point of view of Concrete Mix Design	Shyju Nair, DH Academy , Kochi	May 2022	Offline	10000
4	Quality Control in Construction	Baiju P B, Assistant Executive Engineer, KRFB, Kozhikode	June 2022	Offline	12000
5	Coastal Engineering	Kunji Mammu Paravath, Superintending Engineer, Harbour Engg Department, North Circle , Kozhikode	July 2022	Offline	12000
6	Sustainable Power Generation	Dr.NeenaIssac, Scientist E, Central water Power Commission, Pune	August 2022	Offline	30000
7	Water Management	Vivek B, Scientist, CWRDM, Kozhikode	September 2022	Offline	12000
8	Constructions in problematic Soil Challenges and solutions	Geostructurals, Ernakulam	October 2022	Offline	10000
9	Kerala Panchayath and Municipality Building Rules	Bikas G S, Assistant Engineer, LSGD Engineering Wing, Pathanamthitta	November 2022	Offline	10000
10	Introduction to Geopolymer Concrete	Dr. S Sundar Kumar, Senior Scientist, CSIR-SERC, Chennai	December 2022	Offline	20000
11	Chemicals in Construction	Jitesh , Regional Marketing Head MATEA Chemicals	January 2023	Offline	15000

	Pvt Ltd, Ernakulam			
	Total			1,68,000/-

Electronics and Communication

Sl no.	Topic	Details of Expert	Dates of Programme	Amount	Mode
1	Arduino Programming	Mr.Sureshkumar Gaddi, Senior Technical Officer, NIELIT	Feb 2022	7000	online
2	Customer experience solutions	Abdul Azeez Thankayathil, Director, Advanced Services, BTC Networks, Saudi Arabia	16-02-2022	3000	Online
3	Mobile Network Design	Raju Kalampuram, Lead, Ericson Thailand	16-03-2022	3000	Online
4	Product Design	Dr Suresh Nair, Founder of Design Alpha & , Infopark, Kakkanad & Chief Technology Advisor at Foundation for Innovation in Social Entrepreneurship	04-07-2022	9000	Offline
5	Optical Communication	Dr Samuel, Project Manager, SFO Technologies (NeST), Kakkanad	04-08-2022	9000	Offline
6	SRAM	Rajeesh Vijayan, QUALCOMM	20-09-2022	9000	Offline
7	SDR	Sureshkumar MS, CDAC TVM	12-10-2022	9000	Offline
8	Sensors	Sudeep Balan, CDAC TVM	16-11-2022	9000	Offline
9	Speech signal processing	Pradeepa R, NPOL	14-12-2022	9000	Offline
	Total			67,000/-	

Chemical Engineering

Sl no	Name and Official address of expert	Topic	Tentative date	Expected amount. Rs
1	Mr. Roshen Sunil, Process Engineer, RS Associates, Delhi	Process Design Basics in Oil and Gas Jobs (Online mode)	Feb-22	4500
2	Reji A K , Engineer, Travancore Cochin Chemicals Limited, Uyogamandal, Cochin	SAFETY (online mode)	Feb-22	4500
3	Bejoy T , Scientist D, NPOL, DRDO, Cochin	MATLAB	Mar-22	15000

4	Prince George, BPCL, Kochi	Refinery Operations	December-2022	15000
5	Abilash Jacob Rajan , Customer Success Manager, Honeywell solutions, Qatar	Process Control	August-2022	45000
6	Dr. Ashiff Khan, ARAMCO, Saudi Arabia	Instrumentation	Sep-22	45000
Total				1,29,000/-

Mechanical Engineering

Sl. No:	Name	Designation	Topic	Date	Estimated amount
1	Jawad K A	Asst. Manager, Technology and Design, Chennai	Supercritical steam turbines	May 8, 2022	Rs.10000/-
2	Dileep Cherian	Deputy Manager, Forbes Marshal, Pvt. Ltd. Pune	Thermal systems	May 23, 2022	Rs.10000/-
3	Raghu R	Deputy Manager, TCC, Kochi	Maintenance Engineering	June 29,2022	Rs. 6000/-
Total					26,000/-

Electrical Engineering

SI No	Nane	Address	Topic	Date	Expenditure
1	Pradeep Rajagopala Panicker	Vice President Cabot Technologies, Ist Floor, Lulu CyberTower , Infopark	Artificial intelligence and machine learning- few health care case studies	3 rd week of April	10000
2	Sindhu Kurup	Software Engineer, Wells Fargo , Bangalore	IT in Banking industry- Catering to Millennial customers	3 rd week of JULY	10000
3	Sibin Sam	Training Officer, Siemens Bangalore	Advances in AI and Robotics	3rd week of August	10000
4	Vinod Kumar A	Managing Director Wings 2i PVT Ltd Bangalore	Common pitfalls in Entrepreneur ship	2 nd week of September	10000
					40,000/-

Production Engineering

Sl no	Name and Official address of expert	Topic	Tentative date	Expected amount. Rs
1	Mr. Santhoshkumar Shenoy TUV, Trivandrum	Quality control in Industrial Projects	Feb-22	10000
2	Ms. Sosu Alex Software Developer TCS ,Cochin	Block chain in manufacturing	March 2022	10000
3	Dr.Harikrishnan S General Manager Cochin Shipyard Ltd, Cochin	Design and Production of heavy watercrafts	Sept 2022	10000
8	Ms. Sumi S Talent acquisition Manager TCS, Cochin	Artificial Intelligence	Oct 2022	10000
5	Dr. Warrior Sarath Consultant Collins Aerospace., Bangalore	Systems engineering for Beginners	Feb 2023	10000
6	Mr. Roy S Team Manager TCS, Cochin	Design Thinking	March 2023	10000
Total				60,000/-

4.6 Visiting Faculty Programs

SL No.	Name of the Expert	Name of the Programme	Date	Programme co-ordinator	Dept.,	Amount
1	Mr.Sreejith V.P., Asst.Prof., GEC Wayanad	Hadoop	April 2022	Mr.Swaraj K.P., Asst.Prof.,	CSE	10000
2	Mr.Govind Maheswaran, Data Scientist	Deep Learning	June 2022	Mr.Swaraj K.P., Asst.Prof.,	CSE	10000
3	Dr. Vince Paul, Principal, Ernad Education City, Manjeri.	"AI based video content analysis using Keras and Tensor flow"	Aug 2022	Mr.Swaraj K.P., Asst.Prof.,	CSE	10000

4	Dr. Jayaraj PB, Assistant Professor, NIT Calicut.	"Generative Adversarial Networks"	Sep 2022	Mr.Swaraj K.P., Asst.Prof.,	CSE	15000
5	Dr. Madhukumar S, Professor in Computer Science and Engg., NIT Calicut	Cloud Computing	Nov 2022	Mr.Swaraj K.P., Asst.Prof.,	CSE	15000
6	Dr. Deepak Jaiswal, Assistant Professor, IIT Palakkad	Sustainability	March 2022	Dr.Subaida E.R., Prof.,	CE	14000
7	Dr.Seetha N. Assistant Professor, IIT Hyderabad	Understanding fluid flow and movement of colloids in porous media through multi-scale modeling and multi-scale experiments	April 2022	Dr.Subaida E.R., Prof.,	CE	20000
8	Dr.RemyaNeelancherry, Assistant Professor IIT Bhubaneswar	Solid Waste Management	May 2022	Dr.Subaida E.R., Prof.,	CE	20000
9	Dr.MeenuRamadas, Assistant Professor, IIT Bhubaneswar	Draught Modelling	June 2022	Dr.Subaida E.R., Prof.,	CE	20000
10	Dr. Albert Thomas, Assistant Professor Department of Civil Engineering IIT Bombay	Automation in Construction	July 2022	Dr.Subaida E.R., Prof.,	CE	25000
11	PROF. PRAKASH NANTHAGOPALAN Associate Professor, IIT Bombay	Advanced Concrete Technology	August 2022	Dr.Subaida E.R., Prof.,	CE	25000
12	Dr. Sreeja Pekkatt, Associate Professor IIT Guwahati	Water Resources Engineering	September 2022	Dr.Subaida E.R., Prof.,	CE	34000
13	Dr. Suresh A. Kartha Professor, IIT Guwahati	Water Management	October 2022	Dr.Subaida E.R., Prof.,	CE	34000
14	Dr.Rahual A V Assistant Professor, IIT Thirupathi	Concrete Rheology	November 2022	Dr.Subaida E.R., Prof.,	CE	20000
15	Dr. Manu Santhanam, Professor, IIT Madras	3D Printing in Construction	December 2022	Dr.Subaida E.R., Prof.,	CE	20000
16	Dr.Jagadanand G, Associate Professor, NIT Calicut	Embedded System Design using PIC micro controllers	May 2022	Mr.Muhammed Salih K.K., Asst.prof.,	ECE	7000

17	Dr.Lyla B Das, Associate Professor, NIT Calicut	ARM Processors	July 2022	Mr.Muhammed Salih K.K., Asst.prof.,	ECE	7000
18	Dr.Dhanraj, Assistant Professor Grade I,NIT Calicut	VLSI for communication	March 2022	Mr.Muhammed Salih K.K., Asst.prof.,	ECE	7000
19	Dr.Varun P.Gopi., Asst.Prof., Grade 1 ECE Dept., NIT Thiruchirapalli	Image Processing	11.04.22	Mr.Muhammed Salih K.K., Asst.prof.,	ECE	4500
20	Ms.Pournami P.N., Asst.Prof., CSE Dept., NIT	Image Processing	13.04.22	Mr.Muhammed Salih K.K., Asst.prof.,	ECE	4500
21	Dr.Sreelakshmi M.P., Asst.Prof., EEE Dept., NIT Calicut	EV	20.04.22	Mr.Muhammed Salih K.K., Asst.prof.,	ECE	4500
22	Dr.Sumesh P.T., Asst Prof., Chemical Dept., IIT Madras	Fluid Mechanics	Aug 2022	Dr.Padmavathy K.S.,	ChE	30000
23	Dr.Naveen Gopinath., Asst.Prof., Chemical Dept., IIT Ropar	Catalyst Characterisation	Nov 22	Dr.Padmavathy K.S.,	ChE	40000
24	Shreelakshmi M.P., Asso.Prof., GEC Kottayam	Active charge balancing of super capacitor bank	June 2022	Ms.Lisy E.R., Asst.Prof.,	EEE	14000
25	Dr.Jayaprakash P., Asso.Prof.,GEC Kottayam	Distributed Generation	Sep 2022	Ms.Lisy E.R., Asst.Prof.,	EEE	14000
26	Dr.Abhilash Suryan., Asso.Prof., CET	Technical writing	Nov 2022	Ms.Lisy E.R., Asst.Prof.,	EEE	14000
27	Dr.Sasidharan Sreedharan., Prof., Ministry of Higher Education, Oman.,	Big Data analysis and smart computing framework applied to smart grid	June 2022	Dr.Uma Syamkumar ., Asst.prof.,	EEE	6000
	TOTAL					444500

All the items in the lists mentioned above have been approved.

5. Ratification of activities carried out

5.1 Faculty Staff Development – Expenditure on participation by faculty in external seminars/conferences/workshops

Minutes of the 27 th BoG meeting on 09.02.2022 at Govt. Engg. College, Thrissur				
SL No.	Name of the Faculty Member	Dept.	Name of The programme	Reg Fee

1	Dr.Uma Syamkumar, Asst.Prof.,	EEE	Paper titled “Torque Ripple Reduction of Induction Motor using discrete sliding mode controlled voltage source inverter” in the IEEE Bombay Section Signature Conference IBSSC2021 organized by IEEE Bombay section and ANV-IIITM Gwalior, India on 18-20 Nov 2021.	4720
2	Ms.Divya B.Mathew., Asst.Prof.,	CE	Paper titled “Comparative study of codal provisions of monosymmetric I beam subjected to point loads in top flange” in the International conference on smart solutions for sustainable Infrastructure organized by the Department of Civil Engineering, Government Engineering College Kozhikode, under the aegis of Yukthi 2021 during 24-26 th Sep 2021.	1000
3	Mr.Jikhil Joseph., Asst.Prof.,	CE	Paper titled “Finite Element modelling of screw connections in cold formed steel” in the International Conference on “Indian Structural steel conference organised by IIT Hyderabad 06 th to 08 th Jan 2022	11800
4	Mr.Renjith V.B., Asst.Prof.,	ME	Paper titled “A finite Element Analysis on the upshot of side taper geometry of soft robotic gripper” in the 4 th International conference congress on Advances in Mechanical Sciences on 26-27 Nov 2021	8000
5	Dr.Jaison Mathew., Asso.Prof.,	EEE	Paper titled “Cuckoo search algorithm based high step up DC-AC converter with switched LC network for photo voltaic applications” in the 2 nd IEEE International conference on Power Electronics & IoT Applications in Renewable Energy and its control (PARC-2022) held at GLA University UP from 21 st to 22 nd Jan 2022	5000
	TOTAL			25520

5.2 Faculty Staff Development – Expenditure on Subject Domain Training

SL No.	Name of the Faculty Member	Dept.,	Name of The programme	Reg Fee
1	Ms.Midhu Das B., Asst.Prof.,	EEE	Attended MOOC Course NPTEL Online FDP Certificate course namely “Electric Vehicles and renewable Energy”	1100

2	Mr.Sreenath B., Asst.prof.,	EEE	Attended MOOC Course NPTEL Online FDP Certificate course namely “Electric Vehicles and renewable Energy”	1100
3	Ms.Jiji Gopan V.G., Asst.Prof.,	CE	NITTR online Faculty development training programme on “Instructional Planning and Delivery , Student Assessment and Evaluation, Creative problem solving innovation and meaningful R&D , Institutional Management and Administrative Procedure	4000
4	Mr.Sunil Jerome., Asst.Prof.,	ME	NITTR Course “Professional Ethics and sustainability, Technology Enabled learning and lifelong self learning, student Assessment and Evaluation, Creative problem solving, Innovation and meaningful R&D, Institutional Management and administrative procedures,	5000
5	Mr.Sunil Jerome., Asst.Prof.,	ME	NPTEL-AICTE approved FDP course “patent law Engineers and scientists, IC Engine and Turbines, Teaching and Learning in General programs TALG, Aspen plus simulation software a basic course for beginners	4400
6	Mr.Manu Devassy., Asst.Prof.,	CE	NITTR Course on “Institutional Management and administrative procedures, student Assessment and Evaluation, Technology Enabled learning and lifelong self learning, Institutional Planning and Delivery”.	4000
7	Mr.Jikhil Joseph., Asst.Prof.,	CE	NITTR Course on Orientation towards technical Education and curriculum Aspects, Professional Ethics and sustainability, Communication skills, modes, and Knowledge dissemination, Technology Enabled learning and lifelong self learning, student Assessment and evaluation, Institutional Planning and Delivery, creative, problem solving, Innovation and meaningful R &D,	9000
8	Deepak B., Asst.Prof.,	CE	NITTR course on “Institutional Management and administrative procedures, student Assessment and evaluation,	2000
9	Ms.Midhudas B., Asst.Prof.,	EEE	NITTR course on “Institutional Management and administrative procedures, student Assessment and evaluation, creative, problem solving, Innovation and meaningful R &D,	3000
10	Divya V.A., Asst.Prof.,	EEE	NITTR course on “Institutional Management and administrative procedures, student Assessment and evaluation, creative, problem solving, Innovation and meaningful R &D,	3000
11	Sreenath B., Asst.Prof.,	EEE	NITTR course on “Institutional Management and administrative procedures, student Assessment and evaluation, creative, problem solving, Innovation and meaningful R &D,	3000

12	Divya B.Mathew., Asst.Prof.,	CE	NITTTR course on “Institutional Management and administrative procedures, creative, problem solving, Innovation and meaningful R &D, student Assessment and evaluation,	3000
13	Dr.Lalu P.P., Asst.Prof., ME Dept., and Dr.Vinod P.Raphael., Asst.Prof., Chemistry Dept.,	ME Chemistry	Attending a national level online workshop on National Level Ranking 2022 for Higher Education on 10 th and 11 th Dec 2021	5000
14	Mr.Ajayavarma K., Asst.Prof.,	ME	NITTTR Course on “Technology Enabled Learning and lifelong self learning, Student Assessment and Evaluation, Creative problem solving, innovation and meaningful R & D,	3000
15	Mohammed Shareeq M.T., Asst.Prof.,	ME	NITTTR Course on Orientation towards technical Education and curriculum Aspects, Professional Ethics and sustainability, Communication skills, modes, and Knowledge dissemination, Technology Enabled learning and lifelong self learning, student Assessment and evaluation, Institutional Planning and Delivery, creative, problem solving, Innovation and meaningful R &D, Institutional management and administrative Procedures	10000
16	Renjith S.Anand., Asst.Prof.,	CE	NITTTR Course on Orientation towards technical Education and curriculum Aspects, Technology Enabled learning and lifelong self learning,	4000
17	Deepak B., Asst.Prof.,	CE	Advanced Concrete Technology by Indian Concrete Institute	1180
				65780

5.3 Research Seed Money proposals

Sl No.	Name of the Faculty Member	Dept.,	Name of the Project	Estimate amount
1	Ms.Reshma P.R., Asst.Prof.,	Chemistry	Metal complexes of aroylhydrazones and its biological applications	200000
2	Ms.Umadevi T.U., Asst.Prof.,	Chemistry	Characterization and photocatalytic applications of semiconductor photocatalytic systems	200000
	TOTAL			400000

5.4 Paper presentation - students

SL No.	Name of the student	Dept.,	Name of The programme	Reg. Fee
1	Mr.Christo Joy A., M.Tech student	PE	Paper titled “Effectiveness of online learning: A study conducted among engineering students in kerala” in the International conference on Aerospace and Mechanical Engineering during Dec 16-18 2021 at TKM college of Engineering, Kollam	2000
2	Dr.Meera V., Prof.,	CE	Paper titled “Trend and variability analysis of rainfall in Thrissur corporation” in the international Conference on Structural and Civil Engineering (SCE 2021)	6500
	TOTAL			8500

5.5 Visiting Faculty Programs

SL No.	Name of the Expert	Name of the Programme	Programme co-ordinator	Dept.,	Amount
1	Dr.Sumi S., Asst.Prof., College of Engineering Dept., Trivandrum	Research Avenues in Climate Change studies	Mr.Deepak B., Asst.Prof.,	CE	3000

5.6 III Cell programs

Sl No.	Name of Expert	Title of the programme	Date	Coordinator of the programme	Dept.,	Amt
1	Mr.Robin Soetens, Design Engineer, ASML Holding, Netherlands	Robotics and automation	Dec 2021	Dr.Sudheesh R.S., Asso.prof.,	ME	3000

5.7 Research projects – students

SL No.	Name of the Faculty Member	Name of the Students	Dept.,	Name of The research Project	Amount
1	Dr.Nowshaja P.T., Asso.Prof.,	Amritha Chandran., Mtech student	CE	Numerical and Experimental study on shear strength and behaviour of reinforced concrete and composite deep beam	9550
2	Ms.Sudha C.P., Asso.Prof.,	Reshma C.S., M.tech student	CE	Experimental and Numerical analysis of axial load capacity of encased steel concrete composite column”	6960

	TOTAL			16510
--	-------	--	--	-------

All items mentioned in various lists under this agenda item have been ratified for expenditure.

6. Any other item permitted by the chair

- Reimbursement of expenses in connection with faculty attending various programs like PG diploma, online courses like COURSERA etc.

It was decided that the approvals for these programs need be given only after vetting by the BoG. The proposals to be sent to Dr. Ligy Philip, Chairman and Dr. Satish Vasu Kailas, Government nominee from the academics for vetting. Also it was decided that the expenditure under items classified in this category be limited to Rs. 1,00,000/- or 50% of the proposed amount whichever is smaller.

ANNEXURE I

DRAFT MINUTES OF 26TH MEETING OF BoG HELD ON 20.12.2021

Agenda

SL. No.	Item Description	Page No.
1	Confirm the Minutes of 25 th Meeting of the Board of Governors on 24/11/2021	
2	Review the actions taken report on the decisions in the 25 th Meeting of the Board of Governors.	
3	Presentation of activity report by nodal officer, procurement	
4	Any other matter permitted by chair	

Members present.

7. Dr. Ligy Philip, Professor, IIT Madras, Chairman

8. Dr. Satish Vasu Kailas, Professor IISc Bangalore

9. Shri. Ajayan C, Additional Secretary, Higher Education Department, Government of Kerala.

10.Dr. Vrinda V Nair, Director SPFU, Directorate of Technical Education

11.Dr. Ranjini Bhattathirippad, Principal, GEC Thrissur

12.Dr. C.V. Lal, Prof., Civil Engg, GEC Thrissur

The meeting commenced at 2.00 P.M. The principal welcomed the members and opined that the institution is taking all out efforts to see that the amount allocated in four funds can be spent fully before the closure of the project period. The Chairman BoG expressed her desire in speeding up the achieved progress and also reminded that the teamwork should continue in raising the standards of performance by the institution in all fields and stressed that the targets which are fixed should be met in spite of the unprecedented situation caused by the pandemic. This meeting is being called to concentrate specifically on the equipment related funds which require special attention, she added.

The agenda item was then discussed. Draft minutes of the 25th meeting was presented and after remarks from few members to rectify some minor errors, it was approved. The Action Taken Report on the decisions taken were then discussed and approved.

Prof. Ramasubramaniam, nodal officer, procurement then detailed the status of the spending in these heads and laid out the plans for spending the remaining allotted amount as detailed below.

TEQIP PURCHASE DETAILS				
Sl No.	Item Description	Amount	Dept.,	Status
1	Desktop -(7Nos)	368431	ME	Completed
2	Multimeter	11682	ECE	Completed
3	Laptops(14 Nos)	835110	CSE & ME	Completed
4	UPS	6505	Chemistry-Institution	Completed
5	Laptops(8Nos)	472304	PE,ChE,CE	Completed
6	UPS Battery Replacement	12600	Chemistry-Institution	Completed
7	Replaced Three Glass Electrodes	10710	Chemistry-Institution	Completed
8	Desktop	637339	CCF,ECE,CE	Completed
10	Surface Roughness Tester	523802	PE	Supply order placed
11	Upgradation of PSIM Software	1260000	EEE	Supply order placed
12	Tribometer	44840	ME	Completed
13	CRO-2	44320	ECE	Tabulation Stage
14	Digital Multimeter-2	97200	ECE	
15	Digital Oscilloscope-1	79590	ECE	
16	Power Supply-8	261030	ECE	
17	Function Generator	34755	ECE	
18	Remote sensing and photogrametry suite	708000	CE	Supply order placed
19	Printers	120624	CCF	
20	Computers -	427207	CCF	
21	Printers	29500	ECE	
22	Vibration Analyser -Field Paq-Serial No.05000309),	802100	ME	
23	Desktop-Digital Viscometer (Serial No.141350837)	93600	ME	
24	Rapid Photo Typing machine -Desktop 3D printer , Structured light Scanner , DAVID SL SCANNER - Serial No.1083760, EYK 2801001207 , ABOBB5901	625000	ME	

25	Desktop High End Computer -	623337	ME	
26	Desktop Dell Optiplex -High End -3010	84000	CE	
27	Laptop -HCL MC-L1065	168000	CE	
28	Laptop Dell Vastro	56000	CE	
29	Desktop -Desktop Computer Medium End- Optiplex 3010	427990	ChE	
30	Laptop Computers - Dell Vostro 2420	337602	CSE	
31	Printers -HP Laser Jet 1020 Plus, HP Laser Jet 1020 plus, Canon 3500DN, Epson Dot Matrix LQ2090(4 Nos)	84000	CSE	
32	Desktop Computers - Dell Optiplex 3010	147440	CSE	
33	4-Digit Electronic Balance (ACZET-CY224C) and 2- digit Electronic Balance (Precision Balance ACZET -CG302) (CYBER LAB US 600G - 0000596,594)SHIMADZU ATY 224 -0307500693	197744	Chemistry - Institution	
34	Computers -	329584	PE	
		9961946		
	Maintenance			
1	Gas Chromatograph(Air Refilling)	9211	Chemical	Completed
2	Laptop Maintenance Charge	4450	chemical	Completed
3	UPS Maintenance Charge	1500	CCF	Completed
4	Maintenacnce Of Laptop	4400	CSE	Completed
5	Maintenacnce Of Laptop	5300	CSE	Completed
6	UPS Maintenance Charge	1000	CCF	Completed
7	Tally Software Maintenance	9197	TEQIP Office	Completed
8	Computer Maintenance Charge	7640	TEQIP Office	Completed
9	Maintenance Charge Vibration Analyser	5000	ME	Completed
10	UPS Maintenance Charge	9050	CCF	Completed
11	Rapair charge of Desktop Computer	4750	Chemical	Completed
12	Repair charge -Projector	4285	CE	Completed
13	Maintenance Charge Laptop	4200	Chemical	Completed
14	Maintence charge -Universal IC tester	5705	ECE	Completed
15	Rheometer -Maintence Charge	60100	Chemical	Completed

16	Repair charge-UPS	12600	CSE	Completed
17	Fire and Safety Equipments -Refill for ABC Dry powder Extinguisher -	69700	Inst.	Completed
18	Load Frame	47562	CE	Work Order Placed
19	Consolidation Testing Apparatus	37158		
20	Pressure Volume Change Controller	45703		
21	Gunn Power supply	9335	ECE	Progress in Dept.
22	Optical Power Meter	12375	ECE	-do-
23	Function Generator	12000	ECE	-do-
24	Power supply	12000	ECE	-do-
25	UPS Maintenance Charge -(15 KVA) TECHSER 15, Serial No.MY 1307001	14300	PE	-do-
26	Multimedia Projector -EBSON-EB4702 57JF270224L	5000	Chemical	-do-
27	Pure rotary Bending Machine -PQ 6 - Serial No.051014	14500	CE	-do-
28	Computer Chair -	11800	CSE	-do-
29	Repair and Maintencance -Rheometer - (Model No. MCR 102- Serial No.81312832	59000	Chemical	-do-
30	Computer Chair	32000	CCF-Institution	-do-
31	Spectrometer	12000	Physics-Institution	-do-
32	Gas Chromatograph - No.40695744 (Claurus 580) (AMC)	104628	Chemical	-do-
		647449		

New Proposals in approval of plan					
Replacement					
Sl No.	Item Description	TEQIP Identification No.	Quantity	Dept.,	Amount
1	Vibration Analyser -Field Paq-Serial No.05000309),	TEQIP-II/116/613	1	ME	802100
2	Desktop-Digital Viscometer (Serial No.141350837)	TEQIP-II/138/2171	1	ME	93600
3	Rapid Photo Typing machine -Desktop 3D printer , Structured light Scanner , DAVID SL SCANNER - Serial No.1083760, EYK 2801001207 , ABOBB5901	(TEQIP Identification No.TEQIP II/160/2884 and TEQIPII/160/2885)	1	ME	625000

4	Desktop High End Computer -	TEQIP-II/46/543, TEQIP-II/46/544 TEQIP-II/46/545,TEQIP-II/46/546, TEQIP-II/46/547,TEQIP-II/46/548 TEQIP-II/46/550,TEQIP-II/46/551, TEQIP-II/46/552,TEQIP-II/46/556, TEQIP-II/46/557,TEQIP-II/46/558, TEQIP-II/46/559,TEQIP-II/46/560, TEQIP-II/46/561,TEQIP-II/46/543	13	ME	623337
5	Desktop Dell Optiplex - High End -3010	(TEQIP II/46/579 and TEQIP II/46/576	2	CE	84000
6	Laptop -HCL MC-L1065	(TEQIP II/121/671,TEQIPII/121/670 & TEQIP11/121/674)	3	CE	168000
7	Laptop Dell Vastro	(TEQIPII/118/31)	1	CE	56000
8	Desktop -Desktop Computer Medium End-Optiplex 3010	TEQIP-II/46/527 ,TEQIP-II/46/528 TEQIP-II/46/529 ,TEQIP-II/46/530 TEQIP-II/46/531 ,TEQIP-II/46/532 TEQIP-II/46/533 ,TEQIP-II/46/534 TEQIP-II/46/535 ,TEQIP-II/46/536	10	ChE	427990
9	Laptop Computers - Dell Vostro 2420	TEQIP-II/118/11,TEQIP-II/118/12, TEQIP-II/118/14, TEQIP-II/118/17, TEQIP-II/118/19,TEQIP-II/118/20,	6	CSE	337602
10	Printers -HP Laser Jet 1020 Plus, HP Laser Jet 1020 plus, Canon 3500DN, Epson Dot Matrix LQ2090(4 Nos)	Canon 3500DN - TEQIP -II/119/644, Hp Laser Jet 1020 Plus - TEQIP -II/119/651 & TEQIP-II/119/652 EPSON LQ2090 136 COIDMP -TEQIP-II/119/661,TEQIP-II/119/662, TEQIP-II/119/663, TEQIP-II/119/664	7	CSE	84000
11	Desktop Computers - Dell Optiplex 3010		5	CSE	147440
12	4-Digit Electronic Balance (ACZET-CY224C) and 2- digit Electronic Balance (Precision Balance ACZET -CG302) (CYBER LAB US 600G - 0000596,594)SHIMADZU ATY 224 - 0307500693	TEQIP-II/99/2174 & TEQIP-II/99/2175,TEQIP-II/99/2176	3	Chemistry	197744
13	Computers -	TEQIP II/46/596,TEQIP II/46/589,TEQIP II/46/595, TEQIP II/46/593,TEQIP II/46/590,TEQIP II/46/594,TEQIP II/46/592,TEQIP II/46/524	8	PE	329584
					3976397
Repair and Maintenance					
1	UPS Maintenance Charge -(15 KVA) TECHSER 15, Serial No.MY 1307001	TEQIP-II/49/2107	1	PE	14300
2	Multimedia Projector - EBSON-EB4702 57JF270224L	TEQIP-II/114/616	1	Chemical	5000

3	Pure rotary Bending Machine -PQ 6 - Serial No.051014	TEQIP-II/135/2193	1	CE	14500
4	Computer Chair -	TEQIP-II/82/86 to TEQIP-II/82/146	60	CSE	11800
5	Repair and Maintenance -Rheometer -(Model No. MCR 102- Serial No.81312832	TEQIP-II/47/2876	1	Chemical	59000
6	Computer Chair	TEQIP-II/166 to TEQIP-II/82/240	40	CCF	32000
7	Spectrometer	TEQIP II/110/798-801	4	Physics	12000
					148600
AMC					
1	Gas Chromatograph - No.40695744 (Clausius 580)		1	Chemical	104628

The above mentioned proposals are approved for further processing.

The meeting came to an end at 2.45 P.M.