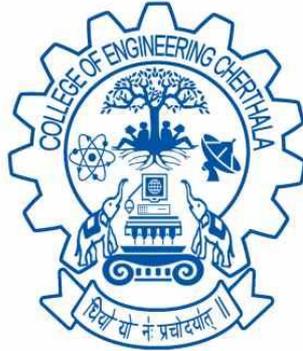**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMMEPhase II**

Sub Component 1.1

23rd MEETING OF

THE BOARD OF GOVERNORS

DETAILED AGENDA NOTES

Date: 15th Nov 2021

Time: 2.00 PM

(Online mode)

COLLEGE OF ENGINEERING CHERTHALA

PALLIPPURAM P.O., CHERTHALA-688 541, KERALA

www.cectl.ac.in

Phone: +91 478 2553416

Background

As per the Government order from MHRD, the meeting of Board of Governors is convened to monitor the utilization of the four special accounts of TEQIP-II namely Corpus fund, Faculty Development fund, Equipment replacement fund and Maintenance fund for the sustainability of TEQIP-II initiatives at CE Cherthala, with emphasis to activities related to student support, and to accord necessary approvals and clearances for the ongoing activities. The 23rd meeting of the BOG is being convened on **1st Dec 2021**

AGENDA

Part 1-Procedural

Part 2-Reports and Ratifications

Part 3-Discussions and Approvals of action plan for next 6 months

PART 1

Procedural Items

Silent Prayer

1.1 Confirmation of the Minutes of the 22nd Meeting of the Board of Governors of CE Cherthala held on 01/12/ 2020

The Minutes of the 22nd Meeting of Board of Governors of TEQIP Phase II of CE Cherthala held on 01-12-2020 was circulated among the BOG members and after incorporating their suggestions, sent to the Honorable Chairman for his approval. A copy of the Minutes is appended as **Annexure I** for confirmation.

Action sought: BOG may consider and confirm the Minutes of the 22nd meeting.

1.2 Action Taken Report on the pertinent decisions in the Minutes of the 22nd Meeting of the Board of Governors of CE Cherthala held on 01/12/ 2020

A report on the action taken is presented in the Table given below.

Table 1.2

Item No in Minutes of the 19th BOG	Decision Taken	Action Taken/ current status	Reason for Non Compliance
1.1	The BOG confirmed the approved minutes of the 22nd Meeting	For information	NA
1.2	Took note of the ATR and approved.	For information	NA
2.1	BoG took note and ratify the expenditure made under Corpus fund	For information	NA
2.2	BoG took note and ratify the expenditure made under Faculty Development Fund	For information	NA
2.3	BoG took note and ratified the expenditure made under maintenance fund	For information	NA
2.4	BOG took note and approved the expenditure summary	For information	NA
2.	The BOG reviewed and decided to extend the service of account staff for a period of 6 months.	account staff is still continuing	N A

2.6	BoG took note the results and placement details		N A
2.7	BOG approved Dr. Priya S as one institution member for BOG 2. BOG has approved the TEQIP committees and coordinators	For information	N A
2.8	BoG took note of the inspection report of four fund utilization	For information	N A
3.1	BOG approved the revised budget for 2019-20.	For information	N A
3.2	1.BOG approved the activities planned under corpus fund. 2.BOG permitted to transfer Rs.3.5 lakhs from equipment replacement fund to Corpus fund.	1.Conducted only item nos.1,2 & 3 2.Transferred the said amount	Difficulty in conducting the trainings as online mode.
3.3	BoG approved the program under Faculty Development Program	Not paid the bill	Bill was not submitted
3.4	BOG approved the proposal for replacing the batteries of UPS	Replaced 2 sets of VRLA battery 65 AH-30 nos	N.A
3. 5	BOG approved the items under maintenance activities	Done the maintenance of measuring instruments.	N A

Action sought: BOG may consider the ATR for approval.

PART 2

REPORTS &RATIFICATIONS

2.1. EXPENDITURE MADE UNDER CORPUS FUND OF TEQIP-II

2.1.1 Remedial Classes

Sl No.	Subject	Resource person	Sem& Branch	No of students	No.ofHours&Dates	Expenditure In Rs.	No. of students passed uty exam
1	Electronic Devices and Circuits (EDC)	Judith Mishal	S5 CS & S7 CS	20	15hrs on 11th ,12th, 13th & 14th March 2021	6000	13
2	Natural Language Processing (NLP)	Dr Sindhu L Jayakrishnan R	S7 CS	20	4hrs on 18th,5hrs on 19th,3hrs on 20th & 3hrs on 21st March 2021	7200	20
Total						**13200**	

2.1.2 NPTEL Online Certification Course

Sl No	Student Name	Course Name	Period	Amount
1	Krishnanjali P	Introduction to Internet of Things	Sep – Dec 2020- 12 weeks	1000
2	Umamaheswary S	Discrete Mathematics Social Networks	Sep – Dec 2020- 12 weeks Sep – Dec 2020- 12 weeks	2000
3	Sreelekshmi R	Problem Solving through programming in C	Sep – Dec 2020- 12 weeks	1000
4	Abhijith K D	Problem Solving through Programming in C Introduction to Internet of Things	Sep – Dec 2020- 12 weeks Sep – Dec 2020- 12 weeks	2000
5	Sulfath Shafeeque	Introduction to Internet of Things	Sep – Dec 2020- 12 weeks	1000
6	Lakshmipriya R	Problem Solving through programming in C	Sep – Dec 2020- 12 weeks	1000
Total				**8000**

2.1.3. Placement Training and Other Training Programmes

Sl.no.	Title of the programme	Semester & batch	Duration &date	No.of participants	Expenditure (Rs)
1	Hands on Workshop on MATLAB (Programming and Circuit Simulation)	5th Sem	2nd & 3rd February 2021	28	12500
2	Basic Python Programming	8th Sem EC & EEE	March –June 2021	70	40000
	Total				52500

Electrical & Electronics Engineering Department has conducted **Hands on Workshop on MATLAB** for the students of S5 EEE in our college under TEQIP II,student training program.The program aimed to get a thorough knowledge on MATLAB programming and simulation,which will be helpful for the successful completion of design project.

2.1.4.Other Expenses

Sl.No.	Items	Expenditure
1	Expense for 22nd BoG meeting	26580
2	Salary to TEQIP staff	104585
3	Miscellaneous(Stationery)	4551
	Total	**135716**

Total Expenditure under Corpus Fund after last BOG till 31st October 2021 is **Rs. 2,09,416/-**

Action Sought : BoG may kindly take note and ratify the expenditure made.

2.2 EXPENDITURE MADE UNDER EQUIPMENT REPLACEMENT FUND

Sl.No.	Item details	Expenditure
1	Purchase of 130 AH Battery on Buy back basis-1 no.	8350
2	Purchase of 65 AH SMF BATTERY on Buy back basic- 30 nos.	99360
Total		**107710**

Action Sought : BoG may kindly take note and ratify the expenditure made.

2.3 EXPENDITURE MADE UNDER FACULTY DEVELOPMENT FUND

Sl. no.	Name of faculty	Designation	Details of the program	Date and duration	Expenditure
	Out- station programs				
1	Greeshma N Gopal	Asst. Prof CS	Paper presentation in International Conference on Pervasive Computing and Social Networking (ICPCSN-2021)	19-20,March 2021	9500
2	Anitha M A	Asst. Prof CS	Paper presentation in International Conference on advance in compting & communication (ICACC-2021)	21-23,October 2021	10617
				Total	**20117**

Detailed report of the above programme :

1. International Conference on Pervasive Computing and Social Networking (ICPCSN 2021) was conducted on March 19-20 at Narasu's Sarathy Institute of Technology Salem, India. ICPCSN 2021 is an internationally-recognized Scopus-Indexed Springer conference, dedicated solely for publication in Springer Lecture Notes in Networks and Systems.The program started by the keynote of Dr. Joy Chen, Professor, Department of Electrical Engineering, Dayeh University, Taiwan. Later Dr. Alvaro Rocha Professor, Department of Informatics Engineering, University of Coimbra, Portugal presented the importance of Information management. The paper The SEPNS Model of Rumor Propagation in Social Networks was presented and received good comments. There were three parallel sessions for the conference. The papers presented during the conference were in the area of social media prediction, image analysis, Cloud computing and Machine learning.

2. **10th International Conference on Advances in Computing & Communications (ICACC-2021) was held on** 21st, 22nd and 23rd of October 2021 at Rajagiri School of Engineering and Technology**.** The theme for **ICACC-2021**is "**Innovative computational methods**", "**Informatics in AI, Robotics and Automation**" and "**Emerging trends in renewable energy**". Inauguration function has been on21st Oct 2021 Morning 09.30AM. ICACC 2021 is a multidisciplinary event which covers wide spectrum of related concepts drawn from the various disciplines of Engineering & Technology. It contains 6 keynote speeches on various discipline. The conference provides a knowledge-building and experience-sharing platform for professionals from the industry, academia and research organizations. I have presented a paper 'A Novel Forward Filter Feature Selection Algorithm Based on Maximum Dual Interaction and Maximum Feature Relevance(MDIMFR) for Machine Learning' under the category Data Analytics on 22nd

October 2021. The conference was good and all the accepted papers will be considered for publication in IEEE Xplore and qualified papers will be submitted to Springer (Scopus).

Action Sought : BOG may kindly note and ratify the expenditure.

2.4 EXPENDITURE MADE UNDER MAINTANANCE FUND

Sl.No.	Item details	Expenditure
1	Maintenance of 5 KVA UPS	14160
2	Maintenance of 3 KVA UPS	18585
3	Interconnecting cable for UPS	4800
4	Photocopier Service Charge	5118
5	Replacing of Damaged Keyboards & chargers of laptops	9735
6	Toner purchased (SP 200/210)	4800
7	Servicing of Airconditioner	36200
8	Toner Purchased SP210 printer	1600
9	Repairing of rectifier	2360
10	Toner Purchased for Photocopier	3540
11	Maintenance of Diesel Generator	12390
	Total	**119365**

Action Sought :BOG may kindly note and ratify the expenditure

2. 5   RESULTS & PLACEMENTS

The college has 72th position in the current year with a pass percentage of 40.46%. The branch wise details are given below in the table 2.6.1

Table 2.5.1   Result of B.Tech 2017 admissions(2021 pass out)

BRANCH/ COURSE	SANCTIONED INTAKE	NO OF STUDENTS		% OF FULL PASS
		APPEARED	WITH FULL PASS	
CS	90	69	32	46.4
EC	120	36	13	36.1
EE	60	33	11	33.3
Total	**270**	**138**	56	**40. 5**

Table 2.5.2. Placement details

Dept	2021 pass out batch			
	Total no of final year students	No of students passed	No of students placed	% placement
CS	69	32	33	47.8
EC	36	13	5	13.8
EEE	33	11	2	06.1
	131	56	40	42.7

Action Sought :BoG may kindly note.

2.6   FACULTY POSITION

Due to transfer and posting, some of the faculty members left the institution and new members joined. Institutional member of BOG   Dr. Sumitha Mathew got transferred. Dr. Ashok kumar has taken the charge of HoD EC. The present faculty position(Regular) is given below;

Table 2.6

Department	Professor	Associate Professor	Assistant Professor	Total
ECE	1	1	6	8(2 are on leave)
CSE	1	1	6	8 (one on leave for study purposes & one on LWA)
EEE	-	-	1	1
ME	-	-	2	2
Applied Science	-	3	-	3
Total	2	**5**	15	23

Academic coordinator Ms.Sumitha Mathew, purchase coordinator Mr. Jimmy John and Finance Coordinator Mr.Pradeep M were got transferred. Smt.Elizwa Laiju Assistant Professor EE is assigned the charge of academic coordinator and Mr. Ashok kumar T Associate Professor in EC is assigned the charge of purchase coordinator and Mr.Manilal D L Associate Professor in CS are is assigned the charge of Finance coordinator . All the TEQIP committees are restructured. Details attached as annexure II.

Action sought:
1.BOG may approve one institution member Dr AshokKumar T for BOG
2. BOG may approve the TEQIP committees and coordinators

2.7 REAPPROPRIATION OF 4 FUNDS

There is an urgent necessity of replacing the batteries (16 numbers of 50 AH batteries and 60 numbers of 100 AH Batteries) for the UPS purchased using TEQIP funds, and the approximate total amount for the same is Rs 5 Lakhs (Rs 4.5 lakhs for the 100 AH Batteries and Rs 50,000/- for the 50 AH Batteries) including buyback of the old batteries. But there is not enough money in equipment replacement fund. Hence it is requested to re appropriate Rs 3 lakhs from the Faculty & Staff Development Fund to the equipment replacement fund as there are absolutely essential equipment replacement / maintenance requirements for the institution.

The request , seeking the approval for the above action, was already circulated via e mail to all BoG members and hence initiated the action after obtaining the approval via mail.. 5 Tenders obtained and opened it on 5 /11/2021. Now tabulation is going on.

Action sought:

1.BOG may kindly approve the action initiated for the purchase of 76 numbers of battery by buy back policy

2. BOG may approve the re appropriation of 3 lakhs from the Faculty & Staff Development Fund to the equipment replacement fund

2.8 EXPENDITURE SUMMARY

Type of Fund	Funds received from IRG	Interest received as on 31stOct	Re-appropriation	Total Fund after Re-appropriation	Expenditure made						Balance fund available
					2017-18	2018-19	2019-20	2020-21	2021-22 Till 3rd nov	Total during project period	
Corpus Fund	912233	100191	+350000	1362424	154891	352848	335732	207536	135244	**1186251**	**176173**
Faculty Developmen t Fund	697462	80222	-300000	477684	52259.5	94516	83926	7936	20330	**258967.5**	**218716.5**
Equipment Replacement Fund	700898	81405	-50000	732303	88.5	123892	0	8768	99360	**232108.5**	**500194.5**
Maintenance Fund	700816	71877	-	772693	4837.5	233654	105634	86770	78024	**508919.5**	**263773.5**
Total	**3011409**	**311053**	**-**	**3345104**	**212076.5**	**804910**	**525292**	**311010**	**332958**	**2186246.5**	**1158857.5**

Action Sought: The BOG may kindly note and approve.

2.9 BUDGET FOR 2021-22

In the last BOG meeting, the revised budget for 2020-21 was approved but the full budget for 2021-22 was not included in the agenda as it was difficult to plan events during the covid period. The full budget for 2021-22 (including re appropriation)is shown in the table below:

Table 2.9.1 Budget

(Head of expenditure)	Sub-Activity	Revised Budget for 2020-21	Expenditure for 2020-2021	Budget for 2021-22	Expenditure till 31st Oct. 2021	Balance Amount for 2021-22
CORPUS FUND Academic support for students	Expenditure on research projects taken by UG/PG students	5000		5000		5000
	Expenditure on research publications	5000		5000		5000
	Remedial Class	40000		40000	13200	26800
	Visiting Faculty	230000	78880	100000	60500	39500
	Industry Institute Interaction	20000		10000		10000
Incremental operating cost	Salary	105000	97010	100000	50060	49940
	BoG meetings	40000	26580	30000		30000
	Stationary and other expenses	7000	6796	5000	1714	3286
	Total	**452000**		295000	**125**474	**169**526
FSD	Expenditure on faculty development	75000	7936	20000	9500	10500
	Expenditure on staff development	15000		10000		10000
	Total	**90000**		**30000**		**20**500
ERF	Equipment, Books, Software, Furniture	50000	8350	550000	99360	450640
ECMF	Equipment Maintenance, Civil Works	**100000**	85818	**100000**	59005	**40995**
	Total	**692000**	**311010**	875000	**293339**	**681661**

Action sought: BOG may take note and approve the revised budget for 2021-22

2.10. EXTENSION OF TEQIP ACCOUNT STAFF

BOG in its 22nd meeting has extended the service of TEQIP account staff for a period of 6 months and decided to review it in the next meeting.

Action Sought: The BOG may kindly review and extend the service of account staff.

PART 3

DISCUSSIONS AND APPROVALS

3.1   BUDGET FOR 2022-23

BOG , in previous meetings has instructed to present the utilization as per budget in each meeting. The budget amount planned for the financial year2022-23 is shown below;

Table 3.1 Budget

(Head of expenditure)	Sub-Activity	Balance budget amount available for 2021-22	Budget for 2022-23
CORPUS FUND Academic support for students	Expenditure on research projects taken by UG/PG students	5000	5000
	Expenditure on research publications	5000	5000
	Remedial Class	26800	40000
	Visiting Faculty	39500	60000
	Industry Institute Interaction	10000	10000
Incremental operating cost	Salary	49940	60000
	BoG meetings	30000	30000
	Stationary and other expenses	3286	5000
Total		**169526**	**205000**
FSD	Expenditure on faculty development	10500	80000
	Expenditure on staff development	10000	20000
Total		**20500**	**200000**
ERF	Equipment, Books, Software, Furniture	**450640**	**70000**
ECMF	Equipment Maintenance, Civil Works	**40995**	**150000**
Total		**681661**	**4,79,000**

Action sought: BOG may take note and approve the budget for 2022-23

3.2   ACTIVITIES PLANNED UNDER CORPUS FUND

3.2.1. Placement cell coordinator Mr.Joe Francis, Staff advisor of S5 CS Ms.Anitha M A ,Staff advisor of S7 CS Ms Greeshma N Gopal, Staff Advisor of S1 CS Ms. Janu R Paniocker and HOD

EC Dr.Ashok Kumar T have given proposals for conducting training programmes for final year students and pre final year students, to improve their employability   and to do the final year project ,as per the following details:

Table 3.2.1

Sl.No	Details of programme	Resource person	Appr.cost	Targeted beneficiaries	Probable dates
1.	MERN Stack-Industrial training(40 hrs)	Phaethon Academy	40000	S7CS	Nov2021 – Jan2022
2	Embedded systems & IOT- Industrial Training(25 hrs)	DCS Robotics, Creative Learning Academy	25000	S7EC&EE	Nov2021- Jan2022
3	Machine learning Using Python(12 hrs)	Dr.Shailesh S Asst.Prof. in CS CUSAT	12000	S5CS	April 2022
4	Python programming in Data Structures(3 days)	Deepak Jose Pragmatics, Kochi	18000	S5CS	26,27/11/2021
5	Hardware Design and Modeling with HDL (3 days)	Kiran Susan Pavu, Research Scholar, Model Engineering College	18000	S7EC	Jan 2022
6	Hands-on training with LaTeX and beamer (2 days)	Ajay Nath S A, Research Scholar, Model Engineering College	12000	S5 &S7EC	Feb2022
7	Hands-on workshop on MATLAB (3 days)	Ajay Nath S A, Research Scholar, Model Engineering College	18000	S5 &S7EC	April 2022
8	Basic Python Training(2 days)	Ciji Sebastian Technovalley	15000	S2 CS	May 2022
Total cost			**158000**		

3.2.2   Remedial Coaching - 40000
Total amount required for activities planned under Corpus fund –Rs.1,98,000

Action sought: BOG may approve the activities planned under corpus fund.

3.3   ACTIVITIES PLANNED UNDER EQUIPMENT REPLACEMENT FUND

In Oct.2013, we have purchased the following printers from RICOH INDIA LIMITED, by TEQIP –II fund.

Table.3.3.1

Sl.no.	Particulars	Quantity	Rate	Amount in Rs.
1	Colour laser printer- SP C242SF	1	49500	49,500

2	Laser Printer SP 200	4	10000	40,000
3	Laser Printer(4 in 1) SP 203 SFN	2	22500	45,000
4	Colour Digital Copier MPC 201 MFP	1	230000	2,30,000
5	**Digital Copier MP 2501 L**	**2**	**100000**	**2,00,000**
6	Digital duplicator Copy printer DX 2430	1	118000	1,18,000
TOTAL				7,16,625

The 1st , 5th and 6th items in the above table were not working properly. Now one of the **5th** item is repaired but we found that the company had stopped making that model printers and could not find its damaged parts for the second one. So we cannot repair this printer which is urgently required for the proper functioning of office . The 6th item is also repairable with a cost of Rs.30,000/-

Hence we are planning to purchase one RICOH MULTI-FUNCTION PRINTER MP 2014 D, by buy back policy with one digital copier MP 2501L. The quote details regarding the printer to be purchased and the buy back value of the above said machine is given below:

Table 3.3.2

Sl. no.	Ietm description	Qty.	Unit price(Rs.)	Total Amount(Rs.)
1	• Type:Digital B &WMultifunction printer • Connectivity viaUSB • Scanning : Color • Print Speed:20 sheet per minute • Handles paper : 52 -105 gsm • Duplex: 75- 105 gsm • Memory : 256MB • Resolution: 600dpi • Paper Size:A3,A4,A5,A6,B4, B5, B6	1	48000	48000
2	Network board for network connectivity	1	8300	8300
Buy back value				9400
Net amount after buy back				46900
GST(for46900)				8442
Net Amount				**55342**

Action sought: BOG may kindly approve the above.

3.4   ACTIVITIES PLANNED UNDER EQUIPMENT MAINTANANCE FUND

The Digital Duplicator installed in Exam cell which is the 6th item in **table 3.3.1** is repairable with an approximate cost of Rs.30,000/-

Action sought: BOG may kindly approve the maintenance of the above said printer..

3.5   ACTIVITIES PLANNED UNDER FACULTY DEVELOPMENT FUND

Sri.Muhammed Ilyas H, Assistant Professor in Computer Science had given a proposal during Jan.2021, for research seed money for doing the following research work .

Title of the project proposal   : **Coconut tree disease identification using Machine Learning and Digital Image   Processing techniques.**
    TECHNICAL DETAILS

Precise objective : The main objective of the project is to identify diseases found in coconut trees from images using new modern technologies such as digital image processing and machine learning techniques thereby the drawbacks of existing method are minimized. Below given are the objectives that help to overcome existing system drawbacks:

- A fast and easy method rather than time consuming manual method of disease identification.
- Early prediction from early symptoms so as to avoid the chance of loss of yield caused due to late identification of disease via manual prediction.
- A cost effective method which all farmers can afford.
- Identifying diseases from hidden spots of coconut tree that is mostly in the top region where visibility through the human eye is impossible.

1.**Abstract :**   Image processing is a diverging area where researches and advancements are taking a geometrical progress in the agricultural field. Various researches are going on vigorously in various plant disease detection. The proposed system is a precision agriculture technique to detect various pests in coconut trees with the help of a camera interfaced drones. The drone flies across the coconut farm and captures the images and processes the data using image processing to identify the unhealthy and pest affected coconut trees. Further, the segments are obtained and the area of interest is recognized and the feature extraction is done

on the same. Finally the obtained results are sent through CNN Classifiers to get the results. The Convolutional Neural Network out-performs the task of classification of diseases.

The system uses two image datasets, one for training of already stored disease images and the other for implementation of query images. The machine learning algorithm is also capable of unsupervised learning from the images that are unstructured. The data is transferred directly to the farmer's smart phone. This helps in timely treatment of pest infected trees and to improve the yield of the trees. Identification of disease follows the steps like capture the image from user, upload the image to the server, extract features and CNN, finally predict the disease and return the result to the application.

2. **Methodology including the work plan :**To overcome the drawbacks of the existing systems, we proposed a news system which is a web-application for coconut tree disease recognition. A system to detect various diseases in coconut trees with the help of drones with cameras which reduces a lot of work and makes it reliable too. The drone flies across the farm and captures images of each and every tree from various angles. These separated images are used for learning purposes using test data and trained data sets for the purpose of identification of diseases. The input is a captured image and the output is details about disease. The main aim of this system is to design, implement and evaluate a CNN based image classification solution for detection and classification of disease in coconut trees. The system will have a web application which can be run on any system and a server side for image processing and classification. The client side requires an internet connection to upload the image to the server and to display the output and the detected disease.

3. **Application / importance in the socio economic context:** India is an agricultural country, where most of the people depend on agriculture. Farmers have a wide range of diversity to select suitable crops. Diversity in crops causes various diseases which restrict the growth of the plants, quality, quantity and productivity of plants. In order to obtain more good products, product quality control is basically mandatory. India ranks third in production of coconut tree products and area of cultivation. Identifying diseases in coconut trees is a complex process in today's world since it is useful in producing items from almost every part of the tree.

Due to late identification of any sort of various diseases in the tree, farmers aren't able to do anything to cure the infestation. To increase productivity, new and efficient pest disease detection methods are to be made available at a low cost. Diseases in coconut trees caused by infectious organisms, can damage the normal state of trees. The diseases may be caused by pathogens such as fungi, viral, bacterial and environmental conditions. Therefore, the early stage of finding diseases is an important task. Sometimes farmers call the experts for detecting the diseases but this is time consuming and expensive. The occurrences of the disease on the tree may result in significant lost in both quality as well as quantity of agricultural product. This brings out a negative impact on countries whose economy is primarily dependent on agriculture. Hence the detection of the disease in the earlier stages is very important to avoid the loss in terms of quality.

The proposed system has technical capability to initialize the system and perform data transfer. It also provides technical guarantee of assurance, reliability, easy access and security. The system is developed at reasonable cost with the available hardware, software and manpower.

4. Particulars of equipment required:

(Equipment only to govt / govt supported institutions)

1. Drone with camera (Programmable)
2. Raspberri pi 4

5. Budget Details: Estimated expenditure

Sl No	Items	Amount (Rs)
1	Consumables	**5000.00**
2	Equipment	**40000.00**
3	Travel	**2000.00**
4	Contingency	**3000.00**
	Total	**50000.00**

In March 2021 he has completed his 15 years of service. But as per the new guidelines of four fund utilization , given by SPFU, seed money should be given to those young faculty researchers who have completed 15 or less years of service. Now he has resubmitted the proposal to consider him to continue the project with financial support from TEQIP-II four funds, since due to COVID pandemic situation he couldn't go with the procurement of equipment for the project.

Action sought: BOG may kindly sanction an amount of Rs. 50000 as seed money to Sri Muhammed Ilyas H.

PART 4

OTHER ITEMS WITH THE PERMISSION OF THE CHAIR

ANNEXTURE-I

MINUTES OF 22nd BoG Meeting

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME Phase II

Sub Component 1.1
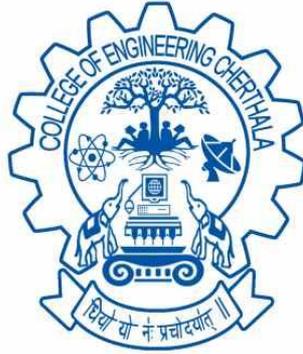
22nd MEETING OF

THE BOARD OF GOVERNORS

MINUTES

Date: 1st Dec 2020

Time: 2.30 PM

(Online mode)

COLLEGE OF ENGINEERING CHERTHALA

PALLIPPURAM P.O., CHERTHALA-688 541, KERALA

www.cectl.ac.in

Phone: +91 478 2553416

AGENDA

Part 1-Procedural

Sl. No	Items
1.1	Confirming the Minutes of the 21st Meeting of the Board of Governors held on 03.01.2020 at College of Engineering Cherthala, Alappuzha
1.2	Report on the action taken/action pending on the pertinent decisions in the 21st Meeting of the Board of Governors held on 03.01.2020 at College of Engineering ,Cherthala

Part 2-Reports and Ratifications

Sl. No	Items
2.1	Expenditure made under Corpus fund
2.1.1	Remedial classes
2.1.2	Industrial visits
2.1.3	Placement Training &other training programs
2.1.4	Other expenses under Corpus fund
2.2	Expenditure made under Faculty development fund
2.3	Expenditure made under Maintenance fund
2.4	Expenditure Summary
2.5	Extension of TEQIP Account Staff
2.6	Results & Placements
2.7	Faculty position
2.8	Inspection Report

Part 3-Discussions and Approvals of action plan for next 6 months

3.1	**Revised Budget for 2020-21**
3.2	**Activities planned under Corpus fund**
3.3	**Activities planned under Faculty Development fund**
3.4	**Activities planned under Equipment Replacement fund**
3.5	**Activities planned under Equipment Maintenance fund**

Part 4-Other items with the permission of the chair

Annexure I: Minutes of the 21st BOG meeting held on 03.01.2020

Annexure II: TEQIP Committees

Annexure III: Inspection Report(Attachment)

Members Present

- Dr C. P. Girijavallabhan, Hon. Chairman.
- Dr. P Sureshkumar , Director , IHRD

- Dr. Vrinda V Nair , Director , SPFU

- Dr. V P Devassia , Rtd Principal , Model Engineering College , Thrikkakkara

- Dr. RameshUnnikrishnan Director AICTE , TVM Office

- Sri. Ajayan C, Additional Secretary , Higher Education

- Sri. Shiju Jose , Finance Officer , Collectorate , Alappuzha

- Shri. Jacob Mathew , Vice President , Idea Cellular , Bombay

- Dr. SumithaMathew ,Asso. Prof. in Electronics Engineering,CEC

- Dr. Mini M.G., (Principal)

Dr. Sreekumar J,Dean (Academic),APJ Abdul Kalam Technological University, was not present as he was relieved from his duty as dean and the new member is not allotted yet.

Others present in the meeting,

1. Smt. Sarakutty K J , TEQIP Coordinator
2. Dr.Priya S, HOD, Dept of Computer Science& Engineering
3. Shri.Pradeep M , Finance Coordinator
4. Smt. Sindhu S , EAP Coordinator
5. Smt. Greeshma N Gopal, Coordinator, Finishing School
8 Shri. Priyakumar T N , Civil Works Coordinator
9 Shri. Jimmy John, Procurement coordinator

The meeting started at 2.30 pm . Principal Dr. Mini M.G. introduced all members as the SPFU Director Vrinda V Nair and the additional secretary from higher education Sri Ajayan C were new members and welcomed all members to the 22nd BOG meeting. The Hon'ble Chairman brought the meeting to order , welcomed all the members and invited the Principal to present the agenda of the 22nd BOG meeting. Principal thanked the Hon'ble Chairman and presented the agenda before the BOG.

2.7 **Confirmation of the Minutes of the 21st Meeting of the Board of Governors of CE Cherthala held on 03/01/ 2020**

Decision: The BOG confirmed the approved minutes of the 20th meeting of Board of Governors of College of Engineering Cherthala held on 24/05/2018.

1.2   Action Taken Report on the pertinent decisions in the Minutes of the 21st Meeting of the Board of Governors of CE Cherthala held on 03/01/ 2020

A report on the action taken and actions pending is presented in the Table given below.
Table 1.2

Item No in Minutes of the 19th BOG	Decision Taken	Action Taken/ current status	Reason for Non Compliance
1.1	The BOG confirmed the approved minutes of the 21st Meeting	For information	NA

1.2	Took note of the ATR and approved.	For information	NA
2.1	BOG approved the guidelines for four fund utilisation after incorporating the modifications suggested	Published the guidelines in website	NA
2.2	BoG took note of the result and placement details.	For information	NA
2.3	BoG ratified the expenditure made under corpus fund(remedial classes , placement training, …)	For information	NA
2.4	1. BOG took note and ratified the expenditure made under faculty development fund. 2. Decided to conduct at least 1 programme per semester per department 3. Decided to conduct one staff development programme each for technical and supporting staff.	Not conducted	Due to COVID-19
2.5, 2.6,2.7	BOG took note and ratified the expenditure made under equipment replacement fund, maintenance fund and expenditure summary.	For information	NA
2.8	The BOG reviewed and decided to extend the service of account staff for a period of 6 months.	account staff is still continuing	N A
2.9	The BOG took note of the NBA accreditation preparations.	B.Tech CS got accredited for three years.	N A
2.10	1.The BOG took note on the official programs attended 2. Decided to reimburse the actual expense of accommodation to TEQIP Coordinator.	Not reimbursed	TEQIP coordinator has withdrawn the request
2.11	BoG took note on the other Programs Conducted/Attended	For information	N A
3.1	1.BOG approved the revised budget for 2019-20 2. Approved budget estimate for 2020-21 3. Sanctioned re appropriation of funds from equipment replacement fund to corpus fund on exhausting of corpus fund .	For information	N A
3.2	BOG approved the activities planned under Corpus fund.	Being carried out	N A

3.3	BOG approved the budget and the activities proposed under faculty development fund.	Not conducted	N.A
3.4	1. The BoG approved the replacement of 3 projectors 2.BoG has rejected the proposal for replacement of AMF panel	Not done since classes are conducted online	N A
3.5	1. BOG directed to check the possibility of replacement of UPS under buy back policy . 2. BOG approved the maintenance of laptops, printers etc under equipment maintenance fund	Maintenance of 3 latops , printers and photo copiers were done.	N A

Discussion: Dr. V P Devassia suggested that 'the guidelines for utilization of 4 funds' given in the college website shall be dated and signed and if any revision is done, it should be indicated. All the members opined that the result and placement data should be clearly published in the website so that new students can be attracted. They also suggested to make the website more attractive and interactive. Additional Secretary, Higher Education Mr. Ajayan C, enquired whether the college has applied for accreditation for only one programme and principal explained the reason for the same.

Decision: BOG took note of the ATR and approved.

2.1.   EXPENDITURE MADE UNDER CORPUS FUND OF TEQIP-II

2.1.1 Remedial Classes

Sl No.	Subject	Resource person	Sem& Branch	No of students	No.ofHours&Dates	Expenditure In Rs.	No. of students passed uty exam
1	Digital Signal Processing EE 407	Mr Abdul Kareem V	S7 EEE	26	12hrs on 23rd, 24th &30th Nov19	7200	17
2	Electronic Circuits &Devices	Ajay Nath S	S3 CS	26	12hrs on16th & 23rd Nov 2019	7200	6
3	Switching Theory and Logic Design	Jayakrishnan R	S3 CS	30	9hrs 19 th & 20th Dec19	3600	16
	Total					**18000**	

2.1.2.Industrial Visit

A visit to Neriamangalam Power Station on 15.02.2020 was conducted for 101 first year students. A total amount of Rs.20,000/- was incurred for the same.

2.1.3. Placement Training and Other Training Programmes

Sl. No.	Title of the Programme	Semester & batch	Duration & date	No. of participants	Expenditure (Rs.)
1	3 day workshop using Python with Raspberry Pi and Cloud	8th sem EC	16th to 18th Jan 2020	32	13374
2	C Programming workshop	8th Sem EC & EEE	19th June 19 -27th July 19 (17 days)	24	40800
3	Placement Training programme in group discussion and interview	Final Year Students	06th Dec 2019 to 25th Jan 2020	117	78880
4	Expert talk on the topic Cyber Security	8th sem EC students	12th Feb 20	42	5284
Total					138338

2.1.4.Other Expenses

Sl.No.	Items	Expenditure
1	Expense for 21st BoG meeting	33349
2	Salary to TEQIP staff	76535
3	TA paid for performance review of TEQIP	4100
4	Miscellaneous(TDS Data Processing Charge, hospitality charge etc)	4153
Total		118157

Total Expenditure under Corpus Fund after last BOG till 31st October 2020 is **Rs. 2,94,495/-**

Decision: BOG took note and ratified the expenditure.

2.2 EXPENDITURE MADE UNDER FACULTY DEVELOPMENT FUND

In-house programs					
Sl. no.	Name of faculty coordinator	Designation	Details of the program	Date and duration	Expenditure
1	Dr.Shouri P V	Asso. Prof ME	NBA Preparatory Class	22nd Jan 2020	5348
2	Dr.Priya S	HoD,CS	Webinar on 'Intellectual Property Rights and Patent process, '	31st October 2020	3000

	Out- station programs				
Sl. no.	Name of faculty	Designation	Details of the program	Date and duration	Expenditure
1	Manju K	Asst. Prof CS	Short term course on Deep Learning for Natural Language Processing at IIT Guwahati	18th to 22nd November 2019	15000
2	Dr.Sumitha Mathew	Asso. Prof EC	One week workshop on Frontiers in RF Communication and Circuit Design at CUSAT	27th Feb to 04th March 2020	4000
3	Judy Ann Joy	Asst. Prof CS	FDP on Emerging Trends in Embedded Systems, IOT and Applications at CUSAT	03rd Feb to 8th Feb 2020	1000
4	Greeshma N Gopal	Asst. Prof CS	Workshop on Graphs & Complex Networks at CUSAT	03RD Feb to 07th Feb 2020	6936
				Total	35284

Decision: BOG took note and ratified the expenditure.

2.3 EXPENDITURE MADE UNDER MAINTANANCE FUND

Sl.No.	Item details	Expenditure
1	Catridge for Photocopier,printers	14038
2	Library Book Binding Charge	3680
3	Refilling & Replacing of Fire Extinguishers	11008
4	Laptop Service Charge	10648
5	Servicing of Digital Trainerkit	4200
6	Battery Water purchased	10140
7	Servicing of Air conditioner	700
8	Repairing of Revolving chairs	8550
9	TALLY ERP 9 License renewal charge	9234
	Total	**72198**

Decision : BOG took note and ratified the expenditure.

2.4 EXPENDITURE SUMMARY

Type of fund	Funds received from IRG	Interest received as on 31st Oct	Total Funds	Expenditure made				Total during project period	Balance fund available
				2017-18	2018-19	2019-20	2020-21 Till 31st Oct		
Corpus Fund	912233	72256	**984489**	154891	352848	335732	134850	**978321**	**6168**
Faculty Development Fund	697462	65986	**763448**	52259.5	94516	83926	7936	**238637**	**524810**
Equipment Replacement Fund	700898	72466	**773364**	88.5	123892	0	0	**123980**	**649384**
Maintenance Fund	700816	61685	**762501**	4837.5	233654	105634	32272	**382397**	**380103**
Total	**3011409**	**272393**	**3283802**	**2120765**	**804910**	**525292**	**165958**	**1723336**	**1560465**

Decision: BOG took note and approved the expenditure summary.

2.5. EXTENSION OF TEQIP ACCOUNT STAFF

BOG in its 21st meeting has extended the service of TEQIP account staff for a period of 6 months and decided to review it in the next meeting.

Decision: The BOG decided to continue the service of account staff for a further period of 6 months.

2.6 RESULTS & PLACEMENTS

The college has scored 40th position in the current year with a pass percentage of 49.7%. The branch wise details are given below in the table 2.1.1

Table 2.6.1 Result of B.Tech 2016 admissions

BRANCH/ COURSE	SANCTIONED INTAKE	NO OF STUDENTS		% OF FULL PASS
		APPEARED	WITH FULL PASS	
EC	120	61	20	32.78
CS	90	68	42	61.76

EE	60	40	22	55
Total	**270**	**169**	**84**	**49.7**

Table 2.6.2. Placement details

Dept	2020 pass out batch		
	Total no of final year students	No of students placed	% placement
CS	68	30	44.12
EC	61	20	32.78
EEE	40	4	10
Total	169	54	31.95

Discussion: Prof. V P Devassia opined that placement details shall be noted in website as Electronics department has a commendable placement statistics with respect to their pass percentage. The SPFU Director enquired about the current admission status and the Chairman also asked whether admission has any improvement on account of NBA accreditation. The Principal replied that admission is improved in Computer Science department.

Decision: BoG took note the results and placement details.

2.7 FACULTY POSITION

Due to transfer and posting some of the faculty members left the institution and new members joined. Institutional member of BOG amd HoD of CS department Dr. Preetha Theresa Joy got transferred. Dr. Priya S has taken the charge of HoD CS. The present faculty position is given below;

Table 2.7

Department	Professor	Associate Professor	Assistant Professor	Total
ECE	1	2	6	9(3 are on leave for study purposes)
CSE	1	1	6	8 (one on leave for study purposes & one on LWA)
EEE	-	-	1	1
ME	-	-	2	2
Applied Science	-	3	-	3
Total	2	6	15	23

Academic coordinator Ms. Jibi John and purchase coordinator Mr. Jagadeesh Kumar were got transferred. Dr. Sumitha Mathew, Associate Professor EC is assigned the charge of academic coordinator and Mr. Jimmy John , A.P, ME is assigned the charge of purchase coordinator. All the TEQIP committees are restructured. Details attached as annexure II.

Discussion: The BoG asked how the mandatory conditions of AICTE and KTU are met if the faculty position is this low. Principal informed that the details given above correspond to regular faculty alone and enough number of contract / PT faculty are engaged to meet the mandatory conditions. The BOG, then suggested including the details of contract faculty also in the detailed faculty positions.

BOG chairman and other members asked whether government approval is needed to change the institutional members of the BOG. Director, SPFU clarified that the BOG can appoint new members to the BOG if an institutional member is transferred or left the institution and other members are to be appointed by the Government .

Decision:

1.BOG approved Dr. Priya S as one institution member for BOG

2. BOG has approved the TEQIP committees and coordinators

2.8 INSPECTION REPORT

An Inspection of the utilization of TEQIP 4 funds for the period 01.08.2017 to 31.12.2019 was conducted on 17th January 2020 by the SPFU team. Copy of inspection report is attached as annexure III.

Decision: BoG took note of the inspection report**.**

3.1   REVISED BUDGET FOR 2020-21

BOG , in previous meetings has instructed to present the utilization as per budget in each meeting. The expenditure made till 31st October in the current year against budget allotment is shown below;

Table 3.1 Budget

(Head of expenditure)	Sub-Activity	Amount	Expenditure till 31st Oct 2020	Revised budget for 2020-21
CORPUS FUND Academic support for students	Expenditure on research projects taken by UG/PG students	15000	0	5000
	Expenditure on research publications	5000	0	5000
	Remedial Class	75000	0	40000
	Visiting Faculty	100000	78880	230000
	Industry Institute Interaction	50000	20000	20000
Incremental operating cost	Salary	120000	52485	105000
	BoG meetings	80000	0	40000
	Stationary and other expenses	5000	3480	7000
	Total	**450000**	**154845**	**452000**

FSD	Expenditure on faculty training	200000	7936	75000
	Expenditure on staff development	50000	0	15000
	Total	**250000**	**7936**	**90000**
ERF	Equipment, Books, Software, Furniture	**200000**	0	50000
ECMF	Equipment Maintenance, Civil Works	**200000**	**38272**	**100000**
	Total	**1100000**	**161053**	**642000**

Discussion: BOG members enquired why there is a very large increase in the revised budget for the visiting faculty activity under Corpus fund compared to the original budget. Principal informed that all departments and placement cell are planning activities for all the students on the assumption that regular classes will commence from January onwards. Principal also informed that the details of programmes proposed are detailed in the next section.

Dr Ramesh Unnikrishnan enquired whether any programmes has been conducted to improve the admission of B.Tech. and he explained the methods adopted by some engineering colleges. The Principal replied that orientation programmes on engineering education has been conducted to near by school students and teachers from this college conducted this programme in 30 schools last year. Principal also informed that the college used to conduct crash course for entrance coaching, but could not conduct the same this year due to COVID pandemic

Decision: BOG approved the revised budget for 2019-20.

3.2 ACTIVITIES PLANNED UNDER CORPUS FUND

Placement cell is planning to conduct a training programme on Python for all S7 students aiming to improve the placements.EEE and CS departments are submitted proposals for training programmes for students which are tabulated below; It may be noted that the corpus fund is exhausted and fund transfer from Other funds are essential for conducting the activities proposed under corpus fund and meting the other requirements of the TEQIP cell

Table 3.2

Sl.No	Details of programme	Coordinator	Amount	Targeted beneficiaries
1.	7 days Python training	Ms. Greeshma N.Gopal, placement coordinator	42000/-	S7 students
2	5 Days hands on workshop on IOT, Machine Learning and Artificial Intelligence	Smt. Elizwa Laiju ,HoD, Electrical department	60,000	final year EEE& ECE students

3	2 days hands on workshop on MATLAB (Programming and circuit simulation)	Smt. Elizwa Laiju ,HoD, Electrical department	12,500	pre final year EEE students
4	2 days hands on workshop on Embedded programming (Python)	Smt. Elizwa Laiju ,HoD, Electrical department	12500	for second year EEE students
5	C and Frontend Web Development	CS dept	12500	Second year CS students
6	Python and Django	,,	12500	Third year CS students
7	Workshop on Django, cloud interface for web applications	EC dept	30,000	For EC students
8	Expert talk on advanced Communication Systems, Embedded System Design	,,	15,000	''
		Total	**197000**	

Decision:

1. BOG approved the activities planned under corpus fund.
2. **BOG permitted to transfer Rs.3.5 lakhs from equipment replacement fund to Corpus fund.**

3.3   ACTIVITIES PLANNED UNDER EQUIPMENT REPLACEMENT FUND

A proposal for replacing the batteries of UPS with 2 sets of VRLA battery 65 AH-20 nos with an estimated cost of Rs 1,20,000/- is received from Electronics department .

Decision: BOG approved the proposal for replacing the batteries of UPS.

3.4   ACTIVITIES PLANNED UNDER EQUIPMENT MAINTANANCE FUND

The details of activities proposed under Equipment maintenance fund are as follows;

Table 3.5 Maintenance activities

Sl No	Description	Estimated cost (INR)	Actual Cost	Remarks	Submitted By
1	Renewal of the Mi-Power license	85000		Package code TEQIP-II/KL/KL1G19/35	Smt.ElizwaLaiju , HoD ,EEE dept
2	Maintenance of various measuring instruments (Voltmeter, Ameeter, Wattmeter etc)	10000		Package code TEQIP-II/KL/KL1G19/45	,,

Decision : BOG approved the items under maintenance activities.

Conclusion:

The Honorable Chairman in his concluding remarks thanked all the members for attending the meeting and contributing to it and called the meeting to an end at 4.00 P.M.

Dr . C P Girijavallabhan   **Dr. Mini M G**

ANNEXURE II : TEQIP COMMITTEES

COLLEGE OF ENGINEERING, CHERTHALA

PROCEEDINGS

College of Engineering, Cherthala –TEQIP – Phase II- Reconstitution of various TEQIP Committees – orders issued.

Order No.02/2021/TEQIP/Mis/2021	Dated : 06.10.2021

Consequent to the general transfer, various TEQIP Committees are reconstituted with new members as detailed below.

TEQIP Coordinator : Smt Sarakutty K J

Finance Coordinator : Prof Manilal D

Academic Coordinator : Smt Elizwa Laiju

Research Coordinator : Dr Priya S

EAP Coordinator : Smt Suja N Thomas

Procurement Coordinator : Dr Ashok Kumar T

Placement Coordinator : Dr Joe Francis

Institutional Procurement Committee

1. Dr Ashok Kumar T (Convener)
2. Mr Muhammed Ilyas
3. Smt P M Laghima
4. Smt Elizwa Laiju
5. Smt Sarakutty K J
6. Smt Leena K K

Finance Committee

1. Prof Manilal D(Finance Coordinator)
2. Smt Sarakutty K J
3. Dr Ashok Kumar T

4. Mr Priyakumar T N
5. Smt Beena Jacob

Procurement committee for purchase at Institutional Level

1. Dr Ashok Kumar T(Convener)
2. Mr Priyakumar T N
3. Mr Sreekumar K
4. Smt Sarakutty K J
5. Smt Leena K K

Department Procurement Committee of Computer Science

1. Dr Priya S (Convener)
2. Mr Muhammed Ilyas
3. Smt Greeshma N Gopal
4. Smt Janu R Panicker
5. Smt Anitha M A

Department Procurement Committee of Electronics

1. Dr Ashok Kumar T(Convener)

2. Mr Sunith C K

3. Mr George C Karamel

4. Smt Ajitha Kumari P

5. Mr Sreekumar K

6. Smt Jasleena C

Department Procurement Committee of Electrical

1. Smt Elizwa Laiju (Convener)

2. Mr Varghese N P

3. Mr George C Karamel

4. Smt Swapna P P

Department Procurement Committee of Mechanical Engineering

1. Dr Joe Francis (Convener)
2. Mr Varghese N P
3. Mr Santhosh A J

Library Committee

1. Smt Leena K K (Convener)

2. Prof Manilal D L

3. Mr Varghese N P

4. Smt Elizwa Laiju

5. Smt Sarakutty K J

6. Smt Janu R Panicker

7. Smt Raji R Nair

8. Smt Anitha M A

Academic Committee

1. Smt Elizwa Laiju (Convener)
2. Smt Anitha M A
3. Smt Suja N Thomas
4. Smt Greeshma N Gopal
5. Smt Jasleena C
6. Mr Sreekumar K

Principal

To,

1. HODs
2. All TEQIP Committee Coordinators
3. The staff concerned
4. Accountant -TEQIP
5. SF/OC