TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME

Phase II Sub Component 1.1

27th MEETING OF

THE BOARD OF GOVERNORS

MINUTES OF THE MEETING

Date: 09/12/2021   Time: 10:30am

Virtual Meeting

RAJIV GANDHI INSTITUTE OF TECHNOLOGY

VELLORP.O., KOTTAYAM-686501 KERALA

Phone:0481-2505963

The Chairman, Dr. V. G. Idichandy, Professor, IIT Madras presided over the meeting. The following members of the BoG attended the meeting:

1. Col.Shaji M.Varghese, Managing Director, Kerala Electrical & Allied Engineering Company Ltd.(KEL)
2. Dr. P. Ravikumar, Senior Director (Rtd.) & Senior Consultant, C-DAC Thiruvananthapuram
3. Sri. Ajayan C., Additional Secretary, Higher Education Department,State Government Nominee
4. Sri. Shaji M. S., Finance Officer, Collectorate Kottayam
5. Dr. Ananda Reshmi, Controller of Examinations
6. Dr. Vrinda V.Nair, Director SPFU
7. Dr.C.Sathish Kumar, Principal
8. Dr.Leena Mary, Institutional member
9. Dr. SobhanaN.V.Institutional member
10. Dr. A.Ramesh, Coordinator TEQIP

Also Present

Dr.C.D. Anil Kumar.,Nodal Officer ,Academic Committee

Dr. Ajitha T., Nodal Officer EAP Committee &HoD in CE

Prof. Jomy Thomas, Nodal Officer Finance, TEQIP

Prof. Antony J.K., III cell Coordinator, TEQIP,

Prof. Umesh A., Nodal officer Equipment Maintenance and Replacement & Committee

Dr. Manju B., HoD, EEE

Dr. Madhu K.P., Associate Professor &HoD in CSE

Dr. BinumolTom Professor and HoD in B.Arch .

Prof. John C. John, HoD , MCA

Prof. Swapnesh S., Asst. Prof., ME

The meeting started at 10:30 am with a welcome address by Dr.Leena Mary, Institutional member and Nodal Officer R & D Committee.

With the permission of the chair a promo video made for RIT was played and the members expressed the opinion that it is a well-made video and congratulated all the people behind the video.

The Chairman in his opening remarks expressed sincere thanks to our former Principal Dr. Jalaja M.J.for her contributions to RIT and for her efforts in the effective implementation of TEQIP in the institution. BoG placed on record gratitude to Dr. Jalaja M.J. for her contributions to RIT.

The Chairman recommended that all the Deans of the institution may be invited to the BoG meetings. The Chairman also informed about the letter from SPFU regarding non-effective utilization of TEQIP-II institutions. He also commented that as per the details given in the agenda RIT seems to be on track for the effective utilization of TEQIP funds. The Chairman pointed out that he is also not happy about RIT not featuring in NIRF ranking and this may create hurdles in getting research funds from agencies like DST. For the next year the institution should make plans for getting in to NIRF ranking. Chairman requested the Director, SPFU for possible extension of TEQIP for one more year. Regarding the seed money proposals, it was observed that out of the 9 seed money projects 2 faculty members have already left and since there are no Co-PI's for these projects this will not continue. The need of an effective Parent Teacher Association (PTA) was also stressed.

The Chairman invited Dr. A. Ramesh, TEQIP Coordinator to present the agenda items for discussions and approval.

Decisions on Agenda Items

Part A

Procedural Items

A1. Confirming the Minutes of the 26th meeting of the BoG convened on 7th May 2021 as an online meeting

The draft minutes of the 26th meeting of the BoG convened on 7th May 2021 **as an online meeting** was sent to the Chairman with a copy to all the members. The Chairman approved the minutes. A copy of the Minutes is appended as Appendix A1 for confirmation. Regarding the minutes of the meeting Dr. P.Ravikumar informed that he has already sent the approval.

BoG Decision: The Minutes of the 26th meeting of the BoG is confirmed.

A2. Report on the action taken on the pertinent decisions in the Minutes of the26th meeting of the BoG convened on 7th May 2021 as an online meeting

The BoG noted the action taken on the decisions of the 26th meeting of the BoG

A2.1 Status of Fund Utilization

As per the Summary Utilization shared by SPFU, Kerala in November 2021, RIT Kottayam is second among 19 TEQIP colleges in the state in terms of total fund utilization. The current status of TEQIP fund utilization of the institution and re-appropriation required is shown in the table below. Based on the current status of funds in different heads TEQIP coordinator requested BoG's sanction for the re-appropriation of funds as per the details shown in the table.

Table - Status of fund position

Name of Account	Initial Amount (Rs.) (a)	Amount Spent (Rs.) upto November 2021 (b)	Amount proposed to be spent (Rs.)				Amount Spent (Rs.) upto November 2021 + Amount proposed to be spent (Rs.) g =(b)+(f)	Amount to be re-appropriated (Rs.) (a)-(g)
			Committed Expenditure (c)	Proposals presented in 27th BoG (d)	Amount to meet the upcoming expenditure (e)	Total amount f=(c+d+e)		
Corpus Fund	6308421	5515390	226000	1752006	489000	2467006	7982396	-1673975
Faculty Development Fund	4657518	1677533	1183000	473394	100000	1756394	3433927	+1223591
Equipment Replacement Fund	4350698	725128	425040 (PO placed)	2585938	164208	3175186	3900314	+450384
Maintenance Fund	3123570	2529103	79250 (PO placed)	287966	227251	594467	3123570	0
	1,84,40,207	10447154	1913290	5099304	980459	7993053	18440207	0

The Director SPFU pointed out that RIT is among the best in terms of utilization and pointed out that there is a significant increase in utilization compared to the status in September 2021. Director pointed out that the institution may strive to use the funds as shown in the table. The extension of the project will be based on the decision of the state steering committee of TEQIP. The re-appropriation is also as per the TEQIP guidelines. An explanation was sought regarding the content of column E and TEQIP coordinator gave the explanation.

Chairman asked for a judicious utilization of funds and asked to convene a meeting of faculty who are yet to complete Ph.D. and encourage them to complete Ph.D. For NBA accreditation this is an important parameter.

BoG Decision : Fund re-appropriation approved

A2.2. Status of Seed Money Project Proposals

BoG has sanctioned 9 seed money project proposals in the previous meeting of BoG. The research work has been initiated by the faculty and 50% of the sanctioned amount has been issued to the concerned faculty except Sl. Nos 1 and 9. Dr. Jose Titus has left for pursuing Post-Doc in Canada and Prof. Tomsy Paul is on leave in connection with his Ph.Dprogramme. The interim evaluation of the progress of the projects was done by an internal team led by Dean Research in the month of November.

Sl No	Name & Designation	Dept.	Title of the Project	Sanctioned Amount (Rs.)
1	Dr. Jose Titus Assistant Professor	EEE	Robust sensor less field oriented control techniques with improved tolerance towards grid-side power quality disturbances for industrial Permanent Magnet Synchronous Motor drives.	200000

2	Dr. UpamaRajan Assistant Professor	ECE	Analysis of multi packet reception for millimeter wave wireless local area networks (WLANs)	200000
3	Dr. Jinesh N. Assistant Professor	ME	Energy harvesting using Piezo Electric patches from Mechanical Vibrations	200000
4	Prof. Kiran Kumar M. Assistant Professor	ME	Simple and inexpensive method for determining thermal conductivity of insulators at moderate temperature	200000
5	Prof. Swapnesh S. Assistant Professor	ME	Optimization modeling for railway rake maintenance scheduling at terminals	70000
6	Prof. Shibukumar K. B. Assistant Professor	CSE	Drone Based Network for Disaster Management	63000
7	Prof. NadheeraHaneef O. Assistant Professor	CE	Modified Resilient Modulus of Lateritic Sub grade Soil Incorporating Seasonal Moisture Content Variations	200000
8	Prof. TessyVarkey Assistant Professor	B.Arch	Investigation and evaluation of the effectiveness of Architecture Education with regards to the learning outcomes to be achieved by the B.Arch graduates.	200000

9	Prof. Tomsy Paul Assistant Professor	MCA	Kernel driven thread profiling based dynamic core management in Desktops/Laptops.	120000
	Total			**1453000**

For the two seed money projects which are discontinued Chairman asked to explore ways to continue the projects by involving other faculty from the departments.

BoG made a note of the status of the seed money projects.

A2.3.Programmes/STTP/Workshops conducted

The decisions taken by the Board as recorded in the Minutes of the 26th meeting of the BoG convened on 7th May 2021 have been noted

and actions have been initiated. A report on the action taken is presented.

The BoG noted the action taken

The Chairman enquired if there is a Humanities department in the institution. Dean research informed that there is a Applied Science Department. The Chairman suggested that the Applied Science Dept. may be encouraged to conduct relevant programmes.

A2.4 .Institution Strategic Plan Development

A Committee for Strategic Planning of RIT-2025 has been constituted with the following members.

Dr. Binumol Tom & Prof. Swapnesh(Coordinators)
Dr. Leena Mary (Invited Expert)

<u>Members</u>
Dr. Mini Koshy,CE
Dr. Unnikrishnan,CSE
Dr. Shanifa, EEE
Dr. UpamaRajan, ECE
Dr. Renju Kurian, ME
Prof. JohnCJohn, MCA
Dr. Shabna, Chemistry

Current Status:
The committee held meetings initiating the process. The departments held internal meetings for the creation of department level plans. The department level plans need to be consolidated to develop the institutional plan. Two workshops in this connection are planned with external management experts for finalizing the strategic plan. The first workshop will be led by Dr. M S. Jayamohan, Professor(Retired), Ph.D (Dept. of Management Studies, IIT Madras).The second workshop will be led by Dr. R Sasikumar, Ph.D (CUSAT),presently Director Co-operative Academy of Professional Education.

BoG decision: BoG made a note of the plan and informed that strategic plan is required for NBA and NIRF ranking.

Part B

Discussion and Approvals

B1. Consideration of the various academic programs for the next 6 months

B1.1. STTP /Workshop to be conducted within the Institution

Sl No.	Name of Coordinators Designation & Dept.	Type	Topic	No. of days	Date	Target	Expected outcome of the programme	Amt (Rs.)

1.	Premson Y Asso. Prof. ECE	Online	Coding with C/C++	6 days	21-26, February 2022	PG students	This is scheduled as per the request raised in the meeting of PG Reps with Principal and PG Dean.	27000
2.	Josemartin M. J Asso. Prof.ECE	Offline	Workshop on 'Introduction to Arduino: Programming and Interfacing of Sensors'	2 days	9 & 10 December 2021	UG students	The participants are expected to demonstrate programming skills and make simple sensor-driven interactive systems making use of Arduino/	38700
3.	Dr. Leena Mary, Prof. ECE	Online/hybrid mode	Online workshop on 'Latex tools for Scientific Documentation'	2 days	12 & 13 January 2022	First year M. Tech students and Ph D scholars.	This workshop will give hands on experience in using latex tools for the first year M. Tech students and Ph D scholars.	10000
4..	Prof. Sidharthan S Asst.Prof.ME	Offline	Document preparation using Latex	2 days	7 &8 January 2022	Final year B.Tech&M.Tech Students	The workshop aims to equip final year students (B.Tech&M.Tech) for their document preparation	22000 ..

5.	Prof. Jomy Thomas Asst.Prof.CE	Offline	Applications of Geographic Information Systems in Highway Engineering	3 days	10-12 February 2022	M.Tech students	To understand the various applications of GIS in highway engineering and to achieve the capability to work GIS software for such applications	43000
6.	Prof. Jomy Thomas Asst.Prof.CE	Offline	Software Applications in Travel Demand Modeling	3 days	27-29 January 2022	M.Tech students	To achieve the capability to work with different kinds of data and models and to get hands on training in software packages related to travel	44000
7.	Dr. Binumol Tom Prof. in Architecture &Prof.TessyVarkey Asst. Prof. in Architecture	Online	Indigenous knowledge	2 days	1 &2 March 2022		To brainstorm and identify the lost indigenous knowledge systems in Engineering, Architecture as well as healthy living and wellness of self	45000
8.	Dr. Jinesh N Asst.Prof Prof.Antony J.K Asso. Prof. ME	Offline	Vibration Analysis	3 days	March 2022	Faculty	To get familiarized with the experimental methods of vibration	89500

								Analysis	
9	Dr.Mini Koshy HRD Coordinator Asst. Prof. CE	online	Life is beautiful	3 days	16th ,23rd and 30th November and 7th December 2021	UG & PG Students	Students shall become cautious about the danger of substance abuse	18000
10.	Prof. Sidharthan S Nodal Officer IEDC Asst.Prof. ME &Prof.Antony J.K Asso. Prof.ME	offline	IoT Essentials	2 days	22& 23 January 2022	UG students	This programme enables the students to a solid base with the setting up of electronic devices , connection protocols etc	31000
11.	Dr.Dolly Mary Prof.EEE	Online-3 days Offline-4days	Workshop series PLUG IN	7 days	13th,15th and 16th Dec.2021 28-31 Dec.2021	EEE students	To enrich the practical knowledge of students in Electronics Engg.	57600
12.	Dr.Binoj Kumar A.C Chapter Advisor IEEE IAS SB RIT	offline	Workshop on Electrical Vehicle (EV) as part of All Kerala IAS Student Conclave 2022(AKIASSSC'22)	1 day	26th March 2022	EEE students	Improve technical knowledge , industrial exposure and networking skills of students	28000

13.	Prof .Sangeetha Jose Asso.Prof.MCA	online	Problems solving using programming languages	4 modules	December-2021 February 2022	MCA students	To increase number of placements in the department. This is scheduled as per the request raised in the meeting of PG Reps with Principal and PG Dean.	21000
14	Prof.Swapnesh S Asst.Prof.ME	offline	Data Analytics using python	2 days	January 2022	M.Tech Students	To increase number of placements in the department	16200
15	Dr.Prince A Prof.EEE	offline	Smart phone Controlled Robotics	3 days	4-6 January 2022		Since robotics is an emerging and relevant technology in today's world, This helps to enhance the students skill	45000
16.	Prof.Sreelekha V &Dr.Prince A EEE	offline	Real time, simulation for power system studies using HIL	2days	29 &30 Dec.2021	UG & PG students	The workshop is very useful for the students to carry out their project work	126000
17.	Dr. Sangeetha Jose Associate Professor MCA	online	Distinguished Lecture Series on Professional Empowerment	5 days	January 2022 – April 2022	Staff Members and Students	To boost up empowerment in the professional life.	30600

| 18 | Dr.Manju Manuel , Asso.Prof. &Dr,Michael George, Asst.Prof.ECE | offline | Image processing /Computer Vision UsingLabview | 3 days | 20th -22nd December2021 | PG students, ECE | The students will be better equipped to take up practical projects in the domain of image processing/computer vision with real time applications | 48000 |

BoG Decision : Approved

Dr. Ravikumar observed that for the first programmes the outcome needs to be drafted differently. He also enquired about whether there is an overlap in the content of the Latex courses listed as 3 and 4. Dr. Leena Mary clarified that since these are hands on programmes it is better to limit the number of participants.

B2.GATE Coaching

B2.1GATE Coaching conducted within the institution

Sl.No	Dept.	Topic	Name of Coordinators	Details of Faculty	Prob. Date of Pgm	No of Days	Target	Amount(Rs)
1	ME	Crash GATE Coaching	Dr. Jinesh Asst.Prof.	Retired Teachers, Internal	January. 2022	12 Days	Current S8 Students	36240
2	ECE	Crash GATE Coaching(online	Dr,Arun Varghese Assoc. Prof.	Retired Teachers, Internal	November 2021 to first week of February 2022,	100hrs	S5 and S7 students of ECE	60000

| 3. | EEE | Crash GATE Coaching | Prof.Peter K Abraham

Asst.Prof. | Retired teachers, Internal faculty and teachers from other colleges | November 2021December 2021 &January 2022 | 10 hrs | S7 and S5 EEE

students | 24000 |
| 4. | CE | Crash GATE Coaching | Dr.Mini Koshy

Asst.Prof. | Retired Teachers, Internal | 3-7 and 17-21 January 2022 | 10 days | S6 and S8 B.Tech CE students | 45000 |

BoG Decision : Approved

The Chairman enquired about the outcomes of the previous GATE coaching. Prof. Antony J.K. provided the status and informed that last years few students from Civil managed to get M.Tech at IIT Bombay.

B2.2 Preparation of question papers for model online exam for GATE

It is proposed to conduct a model online exam for preparing the students for GATE exam. The questions will be prepared by the faculty members.

The proposed remuneration is given in the table.

Sl. No	Department	Rate per question	No. of questions	Amount (Rs.)
1.	ME		55 X 3 Tests	3300
2.	CE		55 X 3 Tests	3300
3.	EEE	Rs. 20	55 X 3 Tests	3300
4.	ECE		55 X 3 Tests	3300
5.	CSE		55 X 3 Tests	3300

BoG Decision : Approved

The Director SPFU enquired about the evaluation of the exams and Principals clarified that this will be done through an online platform called TAO.

B3.Remedial Class

Prof.Manoj Kumar M, Institute Remedial Class Coordinator (Associate Professor in ME),

Sl.No	Semester	Name of the subject	Total Amount @ Rs.600 /-per hour
1.	S1, S3	Common Subject for all branches	33600
2.	S3,S5,S7	Civil Engineering	43200
3.	S3,S5,S7	Mechanical Engineering	60000
4.	S5	Computer Science Engineering	12000
5.	S3,S5,S7	Electrical and Electronics Engineering	42000
6.	S3,S5,S7	Electronics and Communication Engineering	36000
7.	S1,S3,S5	Architecture	17400
		Total	**244200**

BoG Decision : Approved

B4.Student projects

. The Department of Electronics and Communication Engineering has submitted the following proposals for student projects

Sl. No	Guide	Project	Name of team member	Estimated Amount
1	Dr.Michael George ,Asst.Prof.	Farm Bot	ShijuN.P	18500
2	Prof.Umesh A.C.HoD,ECE	Low-Cost Automated Pesticide Dispenser system for Paddy Fields	Akshay S	20000

3	Prof.Shinoj K Sukumaran Asst.Prof	Guidance System for Visually impaired	Keerthana P.	12000
4.	Dr.Manju Manuel, Asso.Prof.	Non-destructive testing of commodities (fruits)	Abhishek Shag	13010
5.	Prof.Umesh A.C.HoD,ECE	Cybernetic Drainage System for Kerala Paddy Fields	Joseph Francis Pellissery	20000
6.	Dr. Michael George ,Asst.Prof.	SLAM Bot	AbhijithHarikumar	20000
7.	Dr. Helen Mary ,Asst.Prof.	Bird Repeller for Airports	Irene Ann Zachariah	18367
8.	Dr. Arun Varghese ,Asst.Prof.	Face Recognition Based Smart Attendance System Using IOT	Sheena Shaji	15500
9.	Dr. Helen Mary ,Asst.Prof	Wall Painting Robot	Ann Maria Jose	12030
10	Prof.RiyasK.S ,Asso.Prof.	Automated EV Battery Swap System	Jobin Lagi Thomas	20000

| 11 | Dr.Leena Mary ,Prof. | Robotic weed cutter | Vishnumaya V | 20000 |
| 12. | Prof.Renjith H.Kumar Asst.Prof | Portable Local Area Weather Monitoring System | Amal Sankar | 13000 |

BoG Decision : Approved

The Chairman enquired why less number of students are applying for funds. Dr. Manju Manuel informed that in each of these project 3 to 4 students are involved and in that way it comes to a sizable number of students. Chairman asked to explore the opportunity of organizing an exhibition based on the student projects. Dr. Ravikumar expressed an interest in knowing the details of a couple of the projects.

B5. Industry Institute Interaction Cell (III Cell)

B5.1. Expert Lecture

B5.1.1 Department of Electronics and Communication Engineering

Sl.No	Topic	Name of Coordinators	Details of Industry Experts	Prob Date of Pgm	No of Days	Target	Amt (Rs.)	Expected Outcome

Sl.No	Topic	Name of Coordinators	Details of Industry Experts	Prob Date of Pgm	No of Days	Target	Amt (Rs.)	Expected Outcome
1.	Introduction to Video Codecs (online)	Dr.Arun Varghese, Assoc. Prof. in ECE	Dr. Abhilash Antony, Associate Professor & Faculty Chairman (Research and Consultancy), Dept of ECE, Muthoot Institute of Technology and Science, Kochi	November-December 2021	1 day	M.Tech students (AECE and ACIS	4500/-	Students will be introduced to basics of video codes as well as latest standards like HEVC

BoG Decision : Approved

B5.1.2 Department of Mechanical Engineering

Sl.No	Topic	Name of Coordinators	Details of Industry Experts	Prob Date of Pgm	No of Days	Target	Amt (Rs.)	Expected Outcome
1.	Logistics Models applied in Supply Chain Design	Dr. R Rajesh, Assoc. Prof. ME and Prof. Swapnesh S, Asst.Prof. in ME	Dr.Arunkumar O N Asst. Prof. Symbiosis Institute of Business Management	4th December 2021	One	60 students of B. Tech(ME) &M.Tech IEM	5000	To equip students with the knowledge on Logistics Models applied in Supply Chain Design

2.	Safety Management in Construction Industry	Dr. Raghunathan Rajesh,Assoc. Prof.ME Prof. Antony J K, Asso.. Prof. in ME	Mr. Thomas P.T Retired Safety Consultant	10th December 2021	One	50 students of M.Tech IEM & ED .	12000 (offline)	To equip students with the knowledge on Safety Management in Construction Industry
3.	Putting Innovation into Practice	Dr. Raghunathan Rajesh, Assoc. Prof.ME Prof. Antony J K, Asst. Prof. in ME Prof.Sidharthan S Asst. Prof. in ME	1.Prof.Austin Davis NID Gandhinagar 2.Anil Kuriakose Algomox Bengaluru 3.Dr.Anjan R Nair College of Engineering Trivandrum 4.Dr.AnishK.John GEC Barton Hill	7 &8 January 2022	2	60 students from all branches	86000 (offline)	To equip students with the knowledge on puttingInnovation into Practice

4..	Lean Manufacturing Excellence	Dr. Raghunathan Rajesh, Assoc. Prof. ME and Prof. SwapneshS, Asst. Prof. in ME	Mr.Jith John Francis Team Manager Technical Design Rommelag Engineering Pvt. Ltd Bangalore	15th January 2022	One	50 students of M.Tech IEM & ED	5000	To equip students with the knowledge on techniques for productivity improvement based on lean manufacturing techniques.
5.	Advanced Surface Design and sheet metal Design using CATIA V5	Prof. Antony J K, Asst. Prof. in ME	Bernard Raja Formerly worked with Axiscades in Aerospace Industry for 20years and currently with Focuspath , Bangalore	January 2020	Four	60 students of S5 MEB.Tech&M.Tech	12000	To equip students with the latest tools in surface design and sheet metal design which will help to better their design projects and improve their skill set to grab a career in design /production

BoG decision : Approved

B5.1.3 Department of Civil Engineering

Sl.No	Topic	Name of Coordinators	Details of Industry Experts	Prob Date of Pgm	No of Days	Target	Amt (Rs.)	Expected Outcome
1.	Training on field application software	Dr.Mini Koshy Asst. Prof. CE	Mr.Jibi Yohannan Ezer Technologies, Kancheepuram Tamil Nadu	13-17 Dec.2021	5	S6 & S8 B.Tech Civil	25000	Increasing employability of new graduates by equipping them with knowledge and skill that industry demands.

BoG decision : Approved

B6. Equipment Maintenance/ Replacement-Purchased under TEQIP II

The Maintenance/Equipment Replacement Committee recommended the following proposals which are received from various departments. So kindly grant the permission for the same.

B6.1. Department of Electronics and Communication Engineering

Sl. No.	Existing Item	Status	Ref. No./TEQIP ID	Qty	Amount (Rs.)	Remarks
1.	DSP starter kits (TMS320C6713 DSK	Not working	TEQIP/II/KL/KL1 GO4/17	9 Nos. Rs.11000/- per DSP starter kit	99000	In the 2019 KTU curriculum, DSP Lab for S5 BTech is mostly based on DSP hardware kits. In addition, S1 Mtech (AECE) DSP Systems Lab and S1 Mtech (ACIS) Communication Systems Lab are also based on DSP hardware. As S5 Btech and S1 Mtech classes will commence soon, there is an urgent need for DSP kits in the department. Hence, it is requested to purchase nine numbers of DSP kits as replacement for the non-functional kits.Ten numbers of) were purchased in 2013 for a total cost of Rupees 2,69,025, with TEQIP funding. Nine of the kits are now not working.
2.	LCD Projector	Not working	TEQIP/II/KL/KL1 GO4/52	1No.	75000	Found that it is unserviceable and opines that it is to be replaced for the smooth functioning of various academic activities of the department.
3.	FPGA Development Kits	Not working	TEQIP/II/KL/KL1 GO4/15	5 Nos Rs.20000/- per FPGA Development Kits	100000	It is unserviceable and needs to replace the FPGA Development Kits for the smooth functioning of various academic activities of the department
4.	UPS (Repair)	Not working	TEQIP/II/KL/KL1 GO4/4	Maintenance	20000	This needs to repair for the smooth functioning of the backup of the computers

BoG decision : Approved

B6.2 Department of Mechanical Engineering

Proposal for up-gradation of 20 Nos of computers in Department of Mechanical Engineering

Prof. Chery A.Menamparampan , Asst.Prof.in Mechanical Engg., Department has submitted a proposal for up gradation of 20 nos of computers with graphics card (NVIDIA GeForce GT 710 2GB RAM).Currently the CAD lab is used by S1(all branches),S3 and S6 mechanical students of B.Tech program and S1 M.Techstudents.At a time , a batch of 30-36 students must do the CAD lab exercises. Therefore , it is necessary to upgrade them with Graphics card.

Sl. No.	Articles with full description and accurate specification etc	Ref. No./TEQIP ID	Qty	Cost/Unit	Total	Remarks
1.	NVIDIA GeForce GT 710 2GB RAM	TEQIP/II/KL/KL1 GO4/125	20	5000	100000	20 computers procured during 2013-13 under TEQIP Phase II is outdated and needs to be upgraded with graphics card.

BoG decision : Approved

B.6.3.1.Department of Electrical and Electronics Engineering

Dept. of EEE has submitted a proposal for replacement

Sl. No.	Equipment	Replaced with	Ref. No./TEQIP ID	Qty	Cost/Unit	Total

1.	Virtual Instrumentation System My DAQ	NI 9227 current module	TEQIP/II/KL/KL1 GO4/49	1	Rs.59,510/- (Including GST)	Rs.59,510
2.	Virtual Instrumentation System My RIO	NI 9025 real time controller	TEQIP/II/KL/KL1 GO4/49	1	Rs.99,456/- (Including GST)	Rs.99,456
	Total					**Rs.158966**

BoG decision : Approved

B.6.3.2.Proposal for up-gradation of Existing Virtual Instrumentation System Department of Electrical and Electronics Engineering

Dr.Johnson Mathew, HoD, EEE department has submitted a proposal for the up-gradation of LabVIEW software(version 2013) to LabVIEW 2021(latest version) .The list of items to be upgraded are appended below:

Software	Upgraded to	Ref. No./TEQIP ID	Quantity	Amount(Rs.)
LabVIEW software(version 2013)	LabVIEW 2021	TEQIP/II/KL/KL1 GO4/49	25 user license	1351077

BoG decision : Approved

B.6.4: Department of Civil Engineering

Sl. No.	Existing Item	Status	Ref. No./TEQIP ID	Amount (Rs.)	B G
1.	Traffic Simulation Package PTV Vissim Software	Not working	TEQIP/II/KL/KL1 GO4/134	409861	Vissim is a popular simulation software regularly used by the PG students and final year UG students of the CE dept.

BoG decision : Approved

Dr. Ravikumar enquired whether it is a single user or multi-user license. Prof. Jomy Thomas informed that this is single user and that the department is already using the student version.

The Chairman why all the requirements are coming together now. Prof. Antony J.K. informed that the up gradations are happening periodically. Director, SPFU enquired whether all this proposals are coming after scrutiny by the technical committee. TEQIP coordinated informed that technical committee headed by Prof. Umesh A.C is scrutinizing the proposals.

B.6.5: Department of Computer Science & Engineering

Mr.Jaikumar K. Kurumackel, Computer Programmer has submitted the following proposal

Sl. No	Item Name	Ref. No./TEQIP ID	Qty.	Rate (Rs)	Purpose / justification	Total Amount (Rs.)	Suggested mode of procurement
	Layer 2 Access Switch [Managed, 24 ports 1G coper, 4 ports 1G SFP, Multi-Gigabitsupport, Technology Non-PoE, On site OEM Warranty 5 years]	QIP/II/KL/KL1 GO4/30 QIP/II/KL/KL1 GO4/125 QIP/II/KL/KL1 GO4/143	20nos	25000/-	Replacement of damaged switches in the existing Intranet network spread over 6 departments, 4 hostels, college Library, Admin Block and Library.	0,000/-	GeM/E-tender
	Layer 2 Access Switch [Managed, 24 ports 1G coper, 4 ports 1G SFP, Multi-Gigabitsupport, Technology PoE, On site OEM Warranty 5 years]	QIP/II/KL/KL1 GO4/30 QIP/II/KL/KL1 GO4/125 QIP/II/KL/KL1 GO4/143	5nos	30000/-	Replacement of damaged switches in the existing Intranet network spread over 6 departments, 4 hostels, college Library, Admin Block and Library.	0,000/-	GeM/E-tender

BoGdecision : Approved

B7.1.Ratification of various academic activities

B7.1.1Ratification of conduct of International Conference

Sl No.	Name of Coordinators	Designation & Dept.	Topic	No.of days	Date	Amt (Rs.)	Expected outcome
1.	Dr.Manju B	Asso.Prof. EEE	Second International Conference on Next Generation Intelligent Systems (ICNGIS-2022)	2	July 29 to 31,2022	250000	To provide an intellectual forum for researchers and professionals
	Dr.Manju Manuel	Asso.Prof. ECE					

Details of the conference were presented before the BoG. Dr. Ravikumar enquired whether this amount is sufficient for the conduct of the conference. Conference coordinators presented the budget details of the conference and expressed confidence that a part of the expenses can be met by internal revenue generated through registration. They also clarified that the conference is scheduled to be held in online mode.

BoG ratified the above.

B7 1.2.Ratification for conducted Workshop for faculty/ staff/ students within the institution

Sl No.	Name of Coordinator	Designation & Dept.	Topic	Target	No.of days	Date	Amt (Rs.)	Outcome attained
1.	Dr.Mini Koshy	Asst.Prof. CE	workshop on " WE SHALL OVERCOME"	UG & PG students	4 day Online	4th, 11th, 23rd and 25th June 2021	18000	• Alleviate the mental stress ofstudents because of being locked down at home • Encouraged to take up tasks whichwould renew their energy • Updated on opportunity for job andhigher studies in the COVIDscenario. • Get answers to personal questions
2.	Dr.Bindhu B.K	Associate Professor , CE	Vehicular Emission Modeling	PG CE students	1 day Online	25th June 2021	6000	This programme has created an overview of the different models available for air pollution
3.	Mr.Ajai Ram	Assistant Professor CSE	Business Plan Evaluation and Presentation of startups		1 day Online	05/2021	9000	Incubate new startups in our campus
4.	Prof.Shibu Kumar K.B	Assistant Professor CSE	Placement Training for Technical Jobs in IT Industry	S6 CSE Students	5 day Online	9th to 13th September 2021	15000	Helped pre-final year students with command over computer programming and other technical skills which would be a boon for their in campus

								placements
5.	Dr.AbhilashT.Vijayan	Assistant Professor EEE	Induction Programme	First year M.Tech Students	5 days Online	1st Jan.2021 To 5th Jan.2021	18000	The sessions was handled by persons from IIT, NIT and industry hence students got prospective induction towards the post graduate studies in Engg.
6.	Prof .Jonu John Thomas	Assistant Professor Arch.	Architecture Software Training	S4B.Arch students	6 days Online	11th Sep.2021 onwards (Mondays and Saturdays only).	18000	Students got the knowledge of advanced use of the software REVIT in architectural professional practice.
7.	Dr.Binumol Tom	Professor Arch	History of Kottayam	S9B.Arch students	2 days Online	4th and 5th October 2021	6000	As a part of the Urban design studio, the site chosen is Kottayam and the students got knowledge about its origin and the historic relevance of Kottayam
9.	Dr.Manju Manuel	IQAC Coordinator Asso.Prof. ECE	External Review Meeting for assessing SAR Criteria	Faculty members	1	12th Nov.2021	7000	Better preparedness for NBA re-accreditation
10	Dr.Manju Manuel	IQAC Coordinator	Preparedness for	Faculty members	1	27th Nov.2021	7000	The proposed workshop is expected to impart a better

		Asso.Prof. ECE	NBA Accreditation					perspective of the pursuit of outcome based education and will strengthen the initiatives for the preparations of SAR for reaccreditation
11	Prof.Peter K Abraham	Asst.Prof. EEE	Drives programming using Numato Lab – Elbert V2-Saprtan 3A FPGA Development Board	PG students	2 days	26 &27 Nov.2021	11500	Students can do the Drive projects by themselves
12	Dr. Bindhu B.K	Asso. Prof. CE	Environmental Impact Assessment	Ist year M.Tech students	3 days	2-4 December 2021	40000	Students will understand the need of EIA and formal procedure for an EIA with the support of Case studies
13	Dr. Rezuana Bai J,	Asso. Prof. ECE	WORKSHOP on DSP Algorithms and Architecture (TI University Programme	First year M tech Students of AECE	3 days	1-3 December 2021	18000	It is useful for the M Tech students for the placement. Introduction to architecture Details of (a) Black Fin processor (Analog Devices) (b) TMS320C64X

14.	Dr. Michael George	Asst. Prof. ECE	Coding with Python for Being Industry Ready"	PG students of ECE	6 days	3rd, 6th and 7th December 2021	16600	Expected outcome-The PG students of ECE Department will have improved their coding skills in Python programming language.
15.	Prof. Deepa Rani R	Asso.Prof. Arch.	Product Design	S2 B.Arch Students	2 days	2nd & 3rd June,2021	9000	Introduced the students to the product development methods from concept to end product from industry experience
16.	Prof. Sneha S	Asst. Prof. CE	B. Tech life of a Civil Engineering Graduate	S1 UG students	1 day	24th November 2021	3000	Students got knowledge about civil engineering and their life in coming four years.
17.	Prof. JonuJohn Thomas	Asst. Prof. Arch.	Towards a fair shared energy design	B. Arch Students	1 day	7th June 2021	3000	The students got knowledge of the design process and implementation strategies of doing a residence design. The speaker will discuss about implemented projects.
18.	JonuJohn Thomas	Asst. Prof. Arch.	Product Design – Ideation, creation and market launch	S6 B. Arch Students	1 day	19th June 2021	3000	The students got know ledge of the design process and prototype making and introducing a product in the market
19.	JonuJohn Thomas	Asst. Prof. Arch.	Residential Design – An architect's approach	S4 B.Arch students	1 day	2nd June 2021	4500	The students got know ledge of the design process and implementation strategies of doing a residence design. The speaker will discuss about implemented projects.

20	JonuJohn Thomas	Asst. Prof. Arch.	Product Design – Ideation, creation and market launch	S5B.Arch students	1 day	30th June 2021	3000	The students acquired knowledge the design process and prototype making and introducing a product in the market
21.	JonuJohn Thomas	Asst. Prof. Arch.	Product Design – Ideation, creation and market launch	S6 B. Arch Students	1 day	29th June 2021	3000	The students acquired knowledge the design process and prototype making and introducing a product in the market
22	Prof.Swapnesh S,	Asst.Prof. ME	" Strategic Plan Preparation Workshops	Faculty members	1 day x2 Nos.	1day January first week 2022 and 1day February first week 2022	11000	HoD's/faculty members are better equipped to contribute to the preparation of the strategic plan

BoG ratified the above

B7.1.3.Ratification for conducting Department Advisory Board Meeting

Sl. No.	Name of the coordinators	Dept..	Date	Type	Amount (Rs.)
1.	Prof.Geeva George Accreditation Coordinator	CE	3rd November 2021.	Hybrid	17000
2.	Dr.Rajkumar M R, Professor	ME	Dec.2021	Hybrid	38500

BoG ratified the above

B7.1.4. Ratification of reimbursement of 50% membership fee for Professional Societies

Sl.No.	Name of the faculty	Design.	Dept.	Type of membership	Actual amount(Rs.)	50% of the amount(Rs.)
1.	Dr. Renu Jose	Associate Professor	ECE	IEEE	6210	3105
2.	Prof.Michael George	Assistant Professor	ECE	ISTE	3540	1770
3.	Prof.Michael George	Assistant Professor	ECE	IEEE	5770	2885

BoG ratified the above

Part C-Reports

C1.FacultyPosition

BoG Decision :Noted

The Chairman asked for clarification regarding the vacancies and TEQIP coordinator and faculty members clarified the same. Chairman expressed some concerns regarding the first year academics in terms of NBA accreditation requirements.

Part D

Any other item with the permission of the Chair

D1. Reimbursement of Registration fee

D1.1.1Reimbursement of Registration fee for Paper Presentation by students

Sl .No.	Name of the Guide	Name of Student	Dept.	Name of the Conference	Topic	Institution	Type	Date	Amt (Rs.)
1.	Dr.Sunil Kumar P.R	Arun Maneesh	M.Tech EEE	12th International Conference on Computing , Communication and Network Technologies	BLDC Motor Drive for Air Conditioning Compressor	IIT Kharagpur	Online	July 6-8 2021	7000
2.	Prof.Meera Khalid	Anjali Mohan	EEE	International Conference on Communication , Control and	Performance Analysis of Permanent Magnet Synchronous Motor under DTC and Space Vector-	GEC Idukki	Online	June 16-18 ,2021	4570

			Information Sciences	based DTC Schemes with MTPA control				
3.	Dr.ShanifaBeevi	Elias Abraham Roy	S4 IDC EEE	International Conference on Communication , Control and Information Sciences	Control of BLDC Mortor Driven Standalone Blower System Using Fuzzy Logic Controller	GEC Idukki	Online	June 16-18 ,2021	4665
4.	Dr.Renu Jose	Nisha G	M.Tech ECE	2021 IEEE 8th International Conference in Smart Computing and Communication	Performance Analysis of Modulation Classification using Machine Learning	Muthoot Institute of Technology and Science , Kochi	Online	July 1-3 2021	5000
5.	Dr.Renu Jose	Aswathy C.D	ECE	2021 2nd Global Conference for Advancement in Technology	Comparison of Machine Learning Algorithms for Heart Rate Variability based Driver Drowsiness detection	Nagarjuna College of Engineering and Technology, Bangalore	Online	October 1-3 2021	8000
6.	Prof.Peter K Abraham	Rahul Raj	EEE	IEEE Madras Section International Conference	Sinewave Inverter with Three stage Battery charger for solar PV Applications	IIT Madras	Online	27 August ,2021	4108

| 7. | Dr. Vincent G., Associate Professor | Sara John | EEE | Asia-Pacific Power and Energy Engineering Conference, APPEEC | PV fed Electric Vehicle ChargingStationwithPower Backup | Power & Energy Society Chapter IEEE Kerala Section | Online | 21-23 November 2021 | 3644 |

BoG decision : Approved

D1.1.2.Reimbursement of Registration fee and Publication fee for paper presentation in International Conference / STTP by faculty members

Sl .No.	Name of Faculty	Degn.& Dept.	Name of the Conference/ STTP	Title	Institution	Type	Date	Amt (Rs.)
1.	Prof.Meera Khalid	Asst.Prof. EEE	International Conference on Communication ,Control and Information Sciences	Evaluation and Validation of performance parameters of a Permanent Magnet Synchronous Motor drive system with Real-time simulator	GEC Idukki	Online	June 16-18 ,2021	4665/-
2.	Prof.Peter K Abraham	Asst.Prof. EEE	IEEE International Power & Renewable Energy Conference	Ultra capacitor based constant torque regenerative braking system for a brushless DC motor	College of Engineering, Karunagapally	Online	Sept. 24-26 2021	2629/-

| 3. | Dr.Binoj Kumar A.C | Professor

EEE | **3rd**International Conference on advances in electrical and computer technologies 2021 (ICAET) | An Investigation into the applications of Real-time simulator in experimental validation of PMSM Based Electric Drive System | PSR Engineering College ,Tamilnadu | Online | 29-30 October 2021 | 8000 |

BoG decision : Approved

D1.1.3. Reimbursement of Registration fee and module fee on the NITTTR portal

Name of faculty	Designation	Particulars	Amount (Rs.)
Prof. Vishnu R	Asst. Prof. ME	Registration fee and module fee on the NITTTR portal	10000

BoG decision : Approved

D1.1.4 .Reimbursement ofStudent project Fund

The Department of Electronics and Communication Engineering has submitted the following proposals for the reimbursement of student projects

Sl. No	Guide	Project	Name of team member	Amount

1	Prof. Shinoj K.Sukumaran , Asst.Prof.	Containment Zone Boom Barrier	Sreemol Suresh	1726
2	Dr.Helen Mary M.C ,Asst.Prof.	PIXMO: A Companion in Green	Ann Mary Jacob	4784
3	Dr.Helen Mary M.C ,Asst.Prof	Smart Safety Monitoring System for Sewage Workers	Anandhu Krishan A	4397

BoG decision : Approved

D2. Launch of news letter of Institute Innovation Council

Institute Innovation Council has designed and developed a newsletter through IEDC. Dr. R Rajesh, Coordinator of Innovation Cell talked briefly about the Innovation Cell activities at RIT and explained the contents of the newsletter. Dr. Rajesh also mentioned about the mentoring provided by Dr. Ravikumar, BoG member and thanked him for all the support. BoG appreciated the effort taken in the direction. The Chairman recollected his visit to FAB lab.

BoG Chairman launched the newsletter. Chairman mentioned about the startup ecosystem in IIT Madras.

Other items

1.STTP for Faculty/Staff outside the Institution

Sl No	Name of faculty	Designation &Dept.	Topic	Institution	Date	Amt (Rs.)	Expected outcome
1.	Dr. Dhanya B. S. .	Associate Professor in Civil Engg	One Day National Colloquium on Concrete Construction for Coastal Conditions - Causes, Concern & Challenges (7Cs)	Indian Concrete Institute in association with IIT Madras and IIT Palakkad	17/12/21	2500	Updation of the knowledge on challenges in concrete construction in coastal conditions

BoG Decision : Approved

2.Reimbursement of registration fee for paper presentation

Sl No.	Name of the Guide	Name of Student	Dept.	Name of the Conference	Topic	Institution	Type	Date	Amt (Rs.)
1.	Dr.Dolly Mary	Gayathri K S	EEE	IEEE PES Asia-Pacific Power &Energy Engineering Conference(APPEEC)	Dual Input Isolated Integrated Converter for Electric Vehicle	Power & Energy Society Chapter IEEE Kerala Section	online	21-23 November 2021	3644
2.	Dr.Leena Mary	Greeshma Unnikrishnan	ECE	Forth International Conference on Microelectronics Signals and Systems (ICMSS)	Non-uniform region Based Features for Automatic Language	TKM College of Engineering, Karicode, Kollam-691005,	online	18-19 November 2021	4720

| 3. | Dr.Leena Mary | Devi Krishna B | ECE | Fourth International Conference on Microelectronics, Signals & Systems | Automatic Severity Evaluation of Articulation Disorder in Speech using Dynamic Time Warping | TKM College of Engineering, Karicode, Kollam-691005, Kerala, India | online | 18-19 November 2021 | 4720 |

(continued from previous page, top row: | | | | | 2021 | Identification | Kerala, India | | | |)

BoG Decision : Approved

3.Industry Institute Interaction Cell (III Cell)

Expert Lecture

Sl.No	Topic	Name of Coordinators	Details of Industry Experts	Prob Date of Pgm	No of Days	Target	Amt(Rs.)	Expected Outcome
1.	Special Transformers: Challenges and opportunities	Dr.Prince A Professor EEE	Er.Lizy Augustine , Sr.Design Engineer, TELK, Angamaly	January 2022	one	S7/S5 B. Tech/M. Tech students	18000	Students will get knowledge in the design of transformers especially in special transformers

2.	Machine learning : Challenges and opportunities	Dr.Prince A Professor EEE	Er.Shalini V. Nair	February 2022	One	S7/S5 B. Tech/M. Tech students	25000	Students will get knowledge in the advances area of machine learning
3.	Exploring Design	Dr.Binumol Tom Professor Architecture	Dr.Harimohan Pillai Senior Architect and Academician , Thrissur	10-12 January 2022	Three	S1 B.Arch Students	37500	Students will get introduced to exploring the fundamentals of design through hands on activities
4.	Design approach	Prof.Jonu John Thomas Asst.Prof.Architecture	Ar.Kunjan Garg RGB Architects , Cochin	19th January 2022	one	S3 B.Arch Students	9500	Students will get to know the design process and implementation strategies
5.	Art in Architecture	Prof.Jonu John Thomas Asst.Prof.Architecture	Murali Cherooth Bangalore	17-19 January 2022	three	S1 B.Arch Students	13500	Students will get to know the influence of art in architecture
6.	Reading a site	Prof.Jonu John Thomas	Ar.SusanVinu On The Soil,	12 -14 January	three	S6 B.Arch	22200	Students will get to know to

		Asst.Prof.Architecture	Kanjirapally	2022		Students		analyze a site
7.	Workshop on large span structures and services	Prof.Jonu John Thomas Asst.Prof.Architecture	Er. Hashim K Abdul Azeez (Civil engineer and structural consultant),Principal consultant of Triangle design studioCochin	January 2022	five	S5B.Arch Students	28100	The students will get to know the design process and implementation strategies of large span structures and services.

BoG Decision : Approved

Dr.Anilkumar C.D, Nodal Officer , Academic Committee, Professor in Electronics and Communication Engineering department thanked the Chairman and all members of the BoG for their presence in the 27th BoG Meeting. Meeting came to close at 1:30 pm.