

**24<sup>th</sup> MEETING OF  
THE BOARD OF GOVERNORS**

**AGENDA NOTES**



**Date: 17.3.2021                      Time: 10AM**

**Venue: Online (Google Meet)**

**GOVERNMENT ENGINEERING COLLEGE Kozhikode**

**West Hill, Kozhikode - 673005, KERALA**

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**Background:**

The 24<sup>th</sup> meeting of the Board of Governors of GEC Kozhikode is being convened on 17<sup>th</sup> of March, 2021 focussing academic activities, progress on facilities of the Institution and discussions on activities for the continuance of TEQIP II.

The agenda items are given below:

**Agenda Items**

<b>Part A - Procedural</b>		
<b>Sl. No</b>	<b>Items</b>	<b>Page No.</b>
<b>Part A</b>		
A1	Confirming the Minutes of the 23 <sup>rd</sup> Meeting of the Board of Governors held on 07.12.2020 at GEC Kozhikode	3
<b>Part B - Reports</b>		
B1	Brief summary on current status of the Institution	4
B2	Current faculty position of the institution	5
B3	Review of actions taken on the decisions of 23 <sup>rd</sup> BoG meeting	7
B4	Academic Activity Reports	
	1. Admissions 2020-2021	7
	2. Result analysis	8
	3. Placement: Placement and higher studies statistics	11
	4. Training programs and Publications	11
	5. Major Achievements	29
B5	Finance : Status of Four funds Reappropriation of four fund heads	29
B6	Ratification of expenses	31
B7	Report on International Conference	32
<b>Part C – Future Activities: Proposals</b>		
C1	New Proposals for - faculty and staff development programs, training for students, maintenance and replacements of items purchased under TEQIP II.	33
C2	Proposal for Shifting to new campus	39

<b>Part D – Other Items</b>		
D1	AICTE approval of extension	40
D2	Planning of new Programms	41
D3	Revision of four fund guidelines	44
	<b>Appendices</b>	
	Appendix I - Minutes of 23 <sup>rd</sup> BoG meeting	45
	Appendix II - Ratification of expenditure from four funds	Attachment
	Appendix III—Revised TEQIP guidelines	Attachment

## **Part A**

### **Procedural**

#### **A1. Confirmation of the Minutes of the 23<sup>rd</sup> Meeting of the Board of Governors held on 07.12.2020 (online meet)**

The Minutes of the 23<sup>rd</sup> Meeting of Board of Governors of GEC Kozhikode held on 07.12.2020 online in google meet was sent to the Chairman and upon his consent copies were circulated among the other members of the BoG. A copy of the Minutes is given in **Appendix I** for confirmation.

## Part B

### B1. Brief summary on current status of the Institution.

Government Engineering College Kozhikode started functioning in the year 1999 with three B.Tech. Courses, Applied Electronics and Instrumentation Engineering, Chemical Engineering and Mechanical Engineering. In the progressive path of the Institution, B.Tech. Courses in Civil Engineering (2006) and Electronics and Communication Engineering (2012), M.Tech. programs in Computer Aided Process Design (2011), Energy systems -Analysis and Design (2012) and Signal Processing (2012) were commenced. Presently, the Institution runs 5 UG and 3 PG programs.

The UG programs in Applied Electronics and Instrumentation Engineering, Chemical Engineering, Civil Engineering and Mechanical Engineering got NBA accreditation for three years from 2017-18 to 2019-20 academic years and got it extended up to 30.06.2023. The SAR for the accreditation of B.Tech. program in Electronics and Communication is uploaded on 20.02.2020.

### UG Programs

Sl. No.	UG Program (Sanctioned Intake of 60)	Year of starting	Status of Accreditation
1	Applied Electronics and Instrumentation Engineering	1999	Accredited for 3 years 2017 – 20, up to 30.06.2020 and extended for next three years up to 30.06.2023.
2	Chemical Engineering	1999	
3	Civil Engineering	2006	
4	Mechanical Engineering	1999	
5	Electronics and Communication Engineering	2012	Applied during 2019-2020 academic year. SAR uploaded

For the NBA accreditation of M.Tech. programs in Computer Aided Process Design (Chemical Engineering) and Energy systems - Analysis and Design (Mechanical

Engineering), the pre-qualifier is uploaded in November 2020. The M.Tech. program in Applied Electronics Department just missed (falling short by 4 marks) the qualifying limit in the NBA accreditation of UG program.

### PG Programs

Sl. No.	PG Program (Sanctioned intake of 18)	Year of starting	Status of Accreditation
1	Computer Aided Process Design (Chemical Engineering)	2011	Pre-qualifier uploaded for Accreditation
2	Energy systems - Analysis and Design (Mechanical Engineering)	2012	Pre-qualifier uploaded for Accreditation
3	Signal Processing (Applied Electronics and Instrumentation Engineering)	2012	Not eligible to apply for accreditation

### B2. Current faculty position of the institution

**Total sanctioned faculty posts** : 83 + 7

**Permanent Faculty available** : 76

**Adhoc faculty available** : 13

**Faculty with Ph.D. qualification** : 34

Mechanical Engineering Department (Sanctioned – 18, Ph.D. - 12)					
	Sanctioned Nos.	Available Nos.	Qualification	Vacancy No.	V a c a n c y Nature & date from vacant
<b>Professor</b>	2	2	Ph.D. - 2	0	NA
<b>Associate Professor</b>	5	4	Ph.D. – 4	1	Permanent (from March 2020)
<b>Assistant Professor</b>	11	10	Ph.D. - 6 M.Tech.-4	1	Permanent(fro m March 2018)
Adhoc faculty	1 (by DTE)	3	M. Tech.- 3	0	NA

<b>Chemical Engineering Department (Sanctioned – 16, Ph.D. - 6)</b>					
	Sanctioned Nos.	Available Nos.	Qualification	Vacancy No.	V a c a n c y Nature
<b>Professor</b>	2	2	Ph.D. - 2	0	
<b>Associate Professor</b>	4	3	Ph.D. – 2 M.Tech.- 1	1	Permanent (2013 onwards)
<b>Assistant Professor</b>	10	9	Ph.D. – 2 M.Tech. - 7	1	Permanent (March 2020)
Adhoc faculty	1 (DTE)	3	M.Tech. - 3	--	

<b>Civil Engineering Department (Sanctioned – 14, Ph.D. - 5)</b>					
	Sanctioned Nos.	Available Nos.	Qualification	Vacany No.	V a c a n c y Nature
<b>Professor</b>	1	1	Ph.D. - 1	Nil	
<b>Associate Professor</b>	3	2	Ph.D. – 2	1	Permanent( March 2018)
<b>Assistant Professor</b>	10	9	Ph.D. – 2 M.Tech. - 7	1	Permanent (2012 onwards)
Adhoc faculty	NIL	2	M.Tech. - 2		

<b>Applied Electronics Department (Sanctioned – 23, Ph.D. - 6)</b>					
	Sanctioned Nos.	Available Nos.	Qualification	Vacany No.	V a c a n c y Nature
<b>Professor</b>	2	2	Ph.D. – 1	--	
<b>Associate Professor</b>	6	6	Ph.D. – 1 M.Tech. - 5	--	
<b>Assistant Professor</b>	15	14	Ph.D. – 4 M.Tech. – 10	1	Permanent( Aug 2020)
Adhoc faculty	5 (by DTE to be sanctioned)	5	M.Tech. - 5		



<b>Electrical and Electronics (Sanctioned - 3, Ph.D. - 1)</b>					
Associate Professor	1	1	M.Tech. – 1	---	
Assistant Professor	2	2	Ph.D. – 1 M. Tech. – 1	---	

<b>Applied Science Department (Sanctioned - 8, Ph.D. - 4)</b>					
	Sanctioned Nos.	Available Nos.	Qualification	Vacancy No.	Vacancy Nature
<b>Mathematics</b>	3	3	Ph.D. – 2 M.Phil - 1	0	
<b>Physics</b>	1	1	M.Phil. - 1	0	
<b>Chemistry</b>	3	3	Ph.D. – 2 M.Phil. - 1	0	
<b>Physical Education</b>	1	1	M.Phil.	0	
<b>Adhoc faculty</b>					

### **B3. Review of actions taken on the decisions of 23<sup>rd</sup> BoG meeting**

Space audit by external agency	Space audit is conducted under the team of Dr.Sreejith, Assoc. Professor, Mech.Engg and report submitted
Planning for UG in Computer Science	Applied for Govt Approval. AICTE application shall be submitted, in the coming extension of approval process
Alternate location for the Institution	Proceeding, details furnished under item No. <b>CII</b>
Vacancy duration	Provided
Scholarship to PG students, Best outgoing student award	College council has decided on scholarship to PG students and to constitute best outgoing student award.

Introduce freelancing among students	Placement coordinator is intimated to conduct freelancing related activity
Admission ranks—three year data, QIP and part time data on PhD, No. of attempts in result analysis, frequency of FDP	Furnished

#### **B4. REPORTS ON ACTIVITIES**

##### **B4.1 Report on Admissions of Current Academic Year**

**UG students admitted: 331**

**Dept of AEI**

<b>Prog ram</b>	<b>Year</b>	<b>First rank</b>	<b>L a s t rank</b>	<b>No , o f students admitted</b>	<b>Strength</b>
<b>ECE</b>	<b>2020-21</b>	<b>4074</b>	51980	<b>65</b>	<b>67</b>
	<b>2019-20</b>	<b>2022</b>	42853	<b>61</b>	<b>61</b>
	<b>2018-19</b>	<b>4254</b>	42816	<b>59</b>	<b>61</b>
<b>U G i n AEI</b>	<b>2020-21</b>	<b>9153</b>	50925	<b>42</b>	<b>69</b>
	<b>2019-20</b>	<b>9733</b>	45369	<b>63</b>	<b>63</b>
	<b>2018-19</b>	<b>3398</b>	46136	<b>63</b>	<b>63</b>
<b>U G i n CE</b>	<b>2020-21</b>	<b>3841</b>	<b>48278</b>	<b>67</b>	<b>67</b>
	<b>2019-20</b>	<b>2757</b>	<b>41029</b>	<b>61</b>	<b>61</b>
	<b>2018-19</b>	<b>3417</b>	<b>43634</b>	<b>61</b>	<b>61</b>
<b>U G i n ME</b>	<b>2020-21</b>	4501	52035	<b>67</b>	<b>67</b>
	<b>2019-20</b>	3116	39871	<b>61</b>	<b>61</b>
	<b>2018-19</b>	1025	43384	<b>61</b>	<b>61</b>
<b>U G</b>	<b>2020-21</b>	3647	46369	65	69

<b>i n</b> <b>CH</b>	<b>2019-20</b>	2926	35508	63	63
	<b>2018-19</b>	1769	42542	63	63

**PG Students admitted: 48**

<b>Sl. No.</b>	<b>Specialization</b>	<b>No. of students admitted</b>	<b>No. of GATE students</b>	<b>Vacancy</b>
1	Signal Processing	18+1(QIP)	3	0
2	Computer Aided Process Design	12	0	6
3	Energy systems - Analysis and Design	17	1	1

**B4.2 Result analysis**

**BTECH 2016-2020 batch result (As per university analysis)**

No. of students : 305

No. of students with full pass : 193

Pass percentage : 63.27868852 (19<sup>th</sup> position)

**ACADEMIC PERFORMANCE INDEX (As per last published university data)**

API: 5.04554078361 (Position: 17<sup>th</sup>)

**B.TECH HONOURS REPORT (AS ON 1/10/2020)**

No. of students eligible for HONOURS: 25 (Position: 16<sup>th</sup>)

**Pass Percentage of 2016 - 2020 batch**

<b>Sl.No.</b>	<b>Branch</b>	<b>KTU Pass%</b>	<b>GECK Pass %</b>	<b>Number of Honours</b>
1	Applied Electronics and Instrumentation Engineering	53.59	51.85	1
2	Chemical Engineering	58.06	67.15	13

3	Civil Engineering	50.06	84.8	NA
4	Mechanical Engineering	42.56	60.11	11
5	Electronics and Communication Engineering	53.05	68.25	NA

### KTU Result Analysis – Semester wise pass percentages

Pass % in first attempt									
Branch	Batch	S1	S2	S3	S4	S5	S6	S7	S8
ME	19 - 23	73.77	NA	NA	NA	NA	NA	NA	NA
	18 - 22	71.66	70	40	NA	NA	NA	NA	NA
	17 - 21	75	66.07	56.72	44.78	50.75	NA	NA	NA
	16 - 20	75.41	70	42.03	43.1	66.27	52.17	64.18	98.5
	15 -19	65.57	57.38	30.43	30.45	54.41	33.82	40.3	56.72

Pass % after subsequent attempts									
Branch	Batch	S1	S2	S3	S4	S5	S6	S7	S8
ME	19 - 23	88.7	NA	NA	NA	NA	NA	NA	NA
	18 - 22	89.3	80.4	46	NA	NA	NA	NA	NA
	17 - 21	90.3	80	73.5	66.2	81.5	NA	NA	NA
	16 - 20	95.83	93.75	77.78	81.48	77.78	75.93	79.25	94.34
	15 -19	98.2	94.5	85.2	93.4	91.8	80.3	83.6	93.4

### Name of Dept. AE&I Engineering

#### Pass % in first attempt

Branch	Batch	S1	S2	S3	S4	S5	S6	S7	S8
	19 - 23	38.09							

<b>Applied Electronics &amp; Instrumentation</b>	18 - 22	48.39	55.74	22.39	79.1				
	17 - 21	44.07	54.24	17.54	22.81	38.89	83.33		
	16 - 20	39.34	45.9	54.55	76.36	69.09	63.63	70.91	96.3
	15 -19	23	66.67	21.87	25	31.25	56.25	61.29	91.94

Name of Dept.

Pass % after subsequent attempts

Branch	Batch	S1	S2	S3	S4	S5	S6	S7	S8
<b>Applied Electronics &amp; Instrumentation</b>	19 - 23								
	18 - 22	80.65	78.69	43.28					
	17 - 21	81.3	76.2	50	50	57.41	83.33		
	16 - 20	93.75	95.83	59.26	77.78	70.37	64.81	85.19	96.3
	15 -19	98.15	98.15	90	96.67	88.33	91.67	96.67	96.67

Civil Engg Dept

Pass % in first attempt

Branch	Batch	S1	S2	S3	S4	S5	S6	S7	S8
<b>CIVIL ENGG</b>	19 - 23	85.00							
	18 - 22	74.55	65.45	37.31	81.82				
	17 - 21	75.86	93.10	77.61	68.66	77.61	97.01		
	16 - 20	96.72	95.08	70.59	61.76	77.27	80.30	84.85	96.97
	15 -19	82.76	77.19	55.56	65.08	48.44	62.50	60.94	89.06

Name of Dept. Civil

Pass % after subsequent attempts

Branch	Batch	S1	S2	S3	S4	S5	S6	S7	S8

<b>CIVIL ENGG</b>	19 - 23	85.00							
	18 - 22	87.87	83.33	60.6	81.82				
	17 - 21	91.78	94.11	79.41	79.45	79.30	97.01		
	16 - 20	98.5	98.5	98.5	97	97	95.5	92.42	100
	15 -19	100	100	100	100	100	100	100	100

### Chemical Engg Dept

#### Pass % in first attempt

Branch	Batch	S1	S2	S3	S4	S5	S6	S7	S8
<b>Branch name</b>	19 - 23	88.71							
	18 - 22	66.67	68.25	54	92				
	17 - 21	74.19	75.81	54.55	69.7	81.54	100		
	16 - 20								
	15 -19	94.7	91.1	82	86.9	80.3	54.1	50.8	70.5

Name of Dept.  
Chemical

#### Pass % after subsequent attempts

Branch	Batch	S1	S2	S3	S4	S5	S6	S7	S8
<b>Branch name</b>	19 - 23								
	18 - 22	95	90						
	17 - 21	88.7	90.32	78.78	75.75				
	16 - 20								
	15 -19								

Branch	Batch	S1	S2	S3	S4	S5	S6	S7	S8
Elect	19 - 23	78.33							

<b>ronics and Com muni cations</b>	18 - 22	72.9	73.6	37.3					
	17 - 21	93.2	98.4	95.3	83.07	60.3			
	16 - 20	98.43	96.87	81.25	84.37	82.81	79.68	81.25	98.41
	15 -19	98.3	98.3	90.9	98.4	87.8	87.8	80.3	81.8

#### **No. of Students Appeared/Qualified in GATE 2020**

<b>Programme</b>	<b>CE</b>	<b>ME</b>	<b>CH</b>	<b>AE&amp;I</b>	<b>EC</b>
<b>No. appeared for GATE 2020</b>	55	36	39	43	42
<b>Qualified in GATE 2020</b>	5	0	1	0	2

#### **Results PG**

<b>Sl. No.</b>	<b>PG Program</b>	<b>2018-20(M4)</b>	<b>2019-21(M2)</b>
1	Computer Aided Process Design (Chemical Engineering)	88.24	
2	Energy systems - Analysis and Design (Mechanical Engineering)	100 %	
3	Signal Processing (Applied Electronics and Instrumentation Engineering)	100 %	100%

#### **B 4.3 Placement and Higher Studies**

Placement Data 2020-21 ( Since sep 2021) - as on 5-3-2021  
UG Placement is 9.5%

Name of the Course	Approved Intake	Number Of Companies Visited	Number Of Eligible Students	Number Of Students Placed in IT	Number Of Students Placed in Non IT	Total Student Placed (IT+ Non IT)	Lowest Package(In Lakhs)	Highest Package(In Lakhs)
AEI	60	16	Criterion different for each placements	4	1	5	2.4	3.5
Civil	60	8		3	2	5	1.8	3.5
Chemical	60	8		1	0	1		3.5
ECE	60	18		14	0	14	2.4	4.0
Mechanical	60	8		2	1	3	2.4	3.5
CAPD(PG)	18	4		0	0	0		3.5
ESAD(PG)	18	5		0	1	1	1.8	3.5
SP(PG)	18	5		0	0	0		3.5
<b>TOTAL</b>						<b>29</b>		

**Placement status for UG 2019-20 pass out batch  $\approx$  21.4 %**

Program B.Tech.	Total no. of students	No. of students placed	No. of students joined for Higher studies	No. of students Qualified in GATE 2020
AE&I	55	6	2	0
Chemical	53	6	4	1
Civil	66	11	1	5
Electronics	63	19	7	2
Mechanical	67	07	2	0
<b>Total</b>	<b>304</b>	<b>49</b>	<b>16</b>	

**Placement data of 2019 Passout students—30.5%**



<b>Program (Btech)</b>	<b>Total no. of students</b>	<b>Total no. of students placed, D=A+B+C</b>	<b>No. of campus placements, A</b>	<b>No. of off campus placements, B</b>	<b>No. of higher studies, C</b>	<b>% Placement</b>
<b>AE&amp;I</b>	<b>64</b>	<b>18</b>	<b>8</b>	<b>1</b>	<b>9</b>	<b>28%</b>
<b>Chemical</b>	<b>61</b>	<b>10</b>	<b>8</b>		<b>2</b>	<b>16%</b>
<b>Civil</b>	<b>64</b>	<b>31</b>	<b>11</b>	<b>11</b>	<b>9</b>	<b>48%</b>
<b>Electronics</b>	<b>67</b>	<b>23</b>	<b>21</b>	<b>1</b>	<b>1</b>	<b>34%</b>
<b>Mechanical</b>	<b>67</b>	<b>17</b>	<b>14</b>	<b>2</b>	<b>1</b>	<b>25%</b>

**Placement Details – PG (2018 – 2020 Batch) ≈ 19.6 %**

<b>Program M.Tech.</b>	<b>Total no. of students</b>	<b>No. of students employed</b>	<b>No. of students joined for Higher studies</b>	<b>No. of students Qualified in GATE 2020</b>
Computer Aided Process Design (Chemical)	17	4	1	0
Energy Systems – Design and Analysis (Mechanical)	12	2	0	2
Signal Processing (AE&I)	17	1	1	0
<b>Total</b>	<b>46</b>	<b>7</b>	<b>2</b>	

**B4.4 Training programmes – status - 2020-21**

**Mechanical Engg**

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**Faculty Publications**

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Sl. No	Title of Paper	Names of authors	Journal Name	Four fund amount used
1	Plasma gasification performances of various raw and torrefied biomass materials using different gasifying agents	Po-Chih Kuo, <b>Biju Illathukandy</b> , Wei Wu, Jo-Shu Chang	Bioresource Technology 314 (2020) 123740 <a href="https://doi.org/10.1016/j.biortech.2020.123740">https://doi.org/10.1016/j.biortech.2020.123740</a>	Nil
2	Energy, exergy, and environmental analyses of renewable hydrogen production through plasma gasification of microalgal biomass	Po-Chih Kuo, <b>Biju Illathukandy</b> , Wei Wu, Jo-Shu Chang	Energy Volume 223, 15 May 2021, 120025 <a href="https://doi.org/10.1016/j.energy.2021.120025">https://doi.org/10.1016/j.energy.2021.120025</a>	Nil
3	Direct internal methane reforming in biogas fuelled solid oxide fuel cell (SOFC); the influence of operating parameters	S. Ali Saadabadi, <b>Biju Illathukandy</b> , P.V. Aravind	Energy Science & Engineering (Accepted)	Nil

### STTP/FDP attended by Faculty

Sl. No	Name of the Program	Name of faculty/ staff with designation	Organizing institution	Date and duration	Online	Nil
1	ATAL Academy online FDP on CFD	Ashita K B (Assistant Professor)	L B S College of Engineering, Kasaragod (ATAL)	04-01-2020 to 08-01-2021	Online	Nil

2	Hybrid Manufacturing Processes: Opportunities and Challenges	Ashita K B (Assistant Professor)	Dr B.R Ambedkar National Institute of Technology, Jalandhar	06-07-2020 to 10-07-2020	Online	Nil
3	Recent Trends in Hybrid and Electric Vehicle technologies	Ashita K B (Assistant Professor)	Maharaj Vijayaram Gajapathi Raj College of Engineering Vizianagaram, Andhra Pradesh.	06-07-2020 to 11-07-2021	Online	Nil
4	Small and Medium Hydro Electric Power Projects	Dr Jithesh PK, Assistant Professor	CET, Thiruvananthapuram	22-02-2021 to 27-02-2021	Online	Nil
5	Exploring DST Funding Schemes	Dr Jithesh PK, Assistant Professor	Training Section, DTE & SPFU Kerala	27-01-2021 to 03-02-2021	Online	Nil
6	ATAL Academy online FDP on CFD	Arun Shal U. B., Assistant Professor	L B S College of Engineering, Kasaragod (ATAL)	04-01-2020 to 08-01-2021	Online	Nil
7	SPARC sponsored work shop on Additive Manufacturing	Dr.Sajith Babu C	NIT Trichy in association with NTNU Norway and Tallinn university, Estonia	02-11-2020 to 07-11-2020	Online	Nil
					Online	Nil
8	AICTE sponsored one week STTP on Recent advances in materilas and manufacturing	Dr.Sajith Babu C	GVPCE, VISHAKHAPATANAM	07-09-2020 to 12-09-2020	Online	Nil
					Online	Nil
9	One week FDP on Recent developments mechanical engineering	Dr.Sajith Babu C	PVPSIT, KAKINADA	10-08-2020 to 14-08-2020	Online	Nil
					Online	Nil
10	DTE sponsored Training Programme on TRASFORMATION AL LEADERSHIP	Dr.Sajith Babu C	TPLC,GEC,BARTON HILL , THIRUVANATHAPURAM	01-02-2021 to 03-02-2021	Online	Nil
					Online	Nil

11	A Two- day Workshop on Data Analysis Using Statistical Packages	Prajeeth Kumar. K. P., Assistant Professor	Saranathan College of Engineering, Trichy	29.06.2020 and 30.06.2020	Online	Nil
12	Hybrid Manufacturing Processes: Opportunities and Challenges	Prajeeth Kumar. K. P., Assistant Professor	Dr. B. R. Ambedkar National Institute of Technology, Jalandhar	06 - 10 July, 2020	Online	Nil
13	Advances in Materials Engineering and Sustainable Manufacturing	Prajeeth Kumar. K. P., Assistant Professor	Federal Institute of Science and Technology (FISAT)	10-14 August 2020	Online	Nil
14	Short Term Course on ADDITIVE AND SMART MANUFACTURING	Prajeeth Kumar. K. P., Assistant Professor	National Institute of Technology, Tiruchirappalli	September 7 - 11, 2020	Online	Nil
15	ATAL Academy FDP on 'Bio-Energy: Technologies and Transitions'	Jithu C John, Assistant Professor	Government Engineering College, Bikaner	13/05/2020 – 17/05/2020	Online	Nil
16	Workshop on 'Advanced Manufacturing Process Analysis'	Jithu C John, Assistant Professor	The State University of New York	May 2020	Online	Nil
17	ATAL Academy FDP on '3D Printing & Design'	Jithu C John, Assistant Professor	Indian Institute of Information Technology, Design and Manufacturing (IIITDM) Kurnool	19/10/2020 – 23/10/2020	Online	Nil
18	ATAL Academy FDP on '3D Printing & Design'	Jithu C John, Assistant Professor	Indian Institute of Technology (IIT), Rooper	01/02/2021 – 05/02/2021	Online	Nil
19	ATAL Academy FDP on 'Recent Developments in Mechanical Engineering'	Jithu C John, Assistant Professor	Prasad V.Potluri Siddhartha Institute of Technology, Vijayawada,	10/08/2020 – 14/08/2020	Online	Nil

20	ATAL Academy FDP on '3D Printing & Design'	Jithu C John, Assistant Professor	Indian Institute of Technology (IIT) Dharwad	09/11/2020 – 13/11/2020		
21	CFD for Solving Engineering Problems	Dr Pradeep V, Professor	NIT Jaipur	7.8.2020-11.8.2020	online	Nil
22	Bio-Energy: Technologies & Transitions	Dr Pradeep V, Professor	NIT Kurukshetra	13.5.2020 - 17.5.2020	Nil	
23	Engine combustion & Emission diagnostics	Dr Pradeep V, Professor	NIT Agartala	5.10.2020 - 9.10.2020	Nil	

### Student Publication

Sl. No.	Title of Paper	Names of authors	Name of publication	Month/year of publication
1	Numerical Study on Optimizing the Geometrical Configuration of a Solar Desalination System for Enhancing Yield	Nirmal K Noble, P.K. Jithesh	International Conference on Green Energy for Environmental Sustainability - ICGEES 2020, National Institute of Technology Calicut, Kozhikode, Kerala, India	5-6th August 2020
2	Finite Time Thermodynamic Investigation of a Solar Boosted Irreversible OTEC	Aravind Ramachandran, Arun Shal U B	ICSTEESD-20: International conference on Smart Technologies for Energy, Environment & Sustainable Development (ICSTEESD-20) G H Raison College of Engineering, Nagpur (Maharashtra State) INDIA 440016 Nagpur, India,	December 4-5, 2020

3	Development of a solar energy based desalination system	Visakh Chittalakkotte, Vinish Lazzar Vincent B, Pradeep Valiyaparambil	Journal - Materials Today: Proceedings ( sep 2020)	September 2020
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### AEI Department

Sl No	Name of faculty	Name of Journal/ conference	Title of publication	Amount of support from TEQIP-II
	Abdu Rahiman V	IET Image Processing	Multi-frame Image Super Resolution using Spatially Weighted Total Variation Regularizations	
	Dr. Shajee Mohan B S	Indian Journal of Physics	Semi-supervised Learning Techniques for Speech Emotion Recognition	
		Indian Journal of Physics	Lie Detection using Speech Processing Technique	
		Indian Journal of Physics	Modified MLkNN and Rank SVM for Mutilabel Pattern Classification	
	ABDUL JALEEL.N	IJDATS	Implementation of an efficient FPGA ARCHITECTURE for capsule endoscopy processor core using hyper analytic wavelet based based image compression technique	
	Dr. Ahammed Muneer K V	Indian Journal of Physics	Lie Detection using Speech Processing Technique	
		Indian Journal of Physics	Modified MLkNN and Rank SVM for Mutilabel Pattern Classification	
		Indian Journal of Physics	Semi-supervised Learning Techniques for Speech Emotion Recognition	

### Student Publication

Sl Mo	Name of Student	Name of Journal/ conference	Title of publication	Amount of support from TEQIP-II
1	Fathima Bareeda	Indian Journal of Physics	Lie Detection using Speech Processing Technique	9000
2	Remya K	Indian Journal of Physics	Semi-supervised Learning Techniques for Speech Emotion Recognition	9000
3	Thanseeha Kassim	Indian Journal of Physics	Modified MLkNN and Rank SVM for Mutilabel Pattern Classification	9000

### Frequency of FDP

Sl Mo	Name of faculty	No. of courses attended in this semester	No. of courses attended in previous semester	Total No.	No. with support from TEQIP
1	Dr. Bindima T	1	1	2	
2	Premson Y	1	0	1	0
3	Dr. Abdu rahiman V	0	1	1	0
4	Swapna G	0	3	3	0
5	Dr Agnes Jacob		2	2	0
6	Sreejith S	3		3	0
7	Shanthini K S	2		2	0
8	Babitha B	2		2	0
9	ABDUL JALEEL.N	2	2		0
10	Jithesh C P	3	2	5	1
11	Rashid Ummer NT	1	2	3	1
12	Harikrishnan P R	1	2	3	1
13	Dr. Shajee Mohan	0	1	1	0
14	Dr. Ahammed Muneer K V	0	2	2	0

**Chemical Engg Dept**

**Conference by Faculty**

Sl Mo	Name of faculty	Name of Journal/ conference	Title of publication	Amount of support from TEQIP-II
1	Adil Muhammed	ICETEST -2020	The OPG for wastewater treatment	6000

### **FDP frequency**

Department Name                      Chemical

Sl No	Name of faculty	No. of courses attended in this semester	No. of courses attended in previous semester	Total No.	No. with support from TEQIP
1	Gigi Sebastian	1	2	3	
2	Ushakumary E R	1		1	
3	Beula C	1	1	2	
4	Binu T V	4	0	4	2
5	Fasnabi P A	1	1	2	
6	Suma K	1		1	
7	Aparna A M	1	0	1	
8	Adil Muhammed	2	2	4	
9	Suji S K	1	0	1	
10	Shyja M	1	0	1	

### **B4.5 Achievements**

**A. GECK has won three awards of ISTE Kerala section 2019-20 .**

**1. Best student award for Indusha Dharman of S5 Applied Electronics**



2. Student chapter with maximum no. of activities
  3. Best staff advisor award dr. Ahammed Muneer
- B. Best speaker presenter-International conference on Demensia and neuroscience 2020 –Dr. Ahammed Muneer, Dept of AEI**

**B5. FINANCE REPORT: STATUS OF FOUR FUNDS as on 28-2-2021**

The four funds - **Corpus Fund, Faculty and Staff Development Fund, Equipment Replacement Fund and Equipment Maintenance Fund** are functioning to ensure sustainability of the reforms brought by TEQIP II beyond the Project Period, for five years from July 2017 to July 2022.

	<b>Total Alloted(As on 1-11-2017)</b>	<b>Expenses</b>	<b>Processing Started</b>	<b>New proposals</b>	<b>Total Expected expenditure</b>	<b>Balance(Total allocated -Total Expected)</b>
<b>Corpus</b>	32,14,752	15,11,314	7,24,316	62,600	22,98,230	9,16,522
<b>Faculty and Staff development</b>	33,29,875	6,81,343	9,53,106	1,11,466	17,45,915	15,83,960
<b>Equipment Replacement</b>	31,95,000	2,50,486	17,16,759	2108200	40,75,445	-8,80,445
<b>Maintenance</b>	32,05,375	4,37,443	2,89,300	74800	8,01,543	24,03,832
	1,29,45,002	28,80,586	36,83,481	23,57,066	89,21,133	40,23,869
<b>% of Expenditure</b>		22			69	

Expenditure of departments

<b>Department</b>	<b>Total Alloted</b>	<b>Expenses</b>	<b>Processing Started</b>	<b>New proposals</b>	<b>Total Expense (spent and expected)</b>	<b>Balance</b>
<b>Chemical Engineering Department</b>						
<b>Corpus</b>	4,65,000	212050	69,823	NIL	281873	1,83,127

<b>Faculty and Staff development</b>	<b>6,65,975</b>	<b>136708</b>	<b>5,05,580</b>	<b>2900</b>	<b>645188</b>	<b>20,787</b>
<b>Equipment Replacement</b>	<b>6,39,000</b>	<b>6500</b>	<b>5,06,000</b>	<b>NIL</b>	<b>512500</b>	<b>1,26,500</b>
<b>Maintenance</b>	<b>6,41,075</b>	<b>130972</b>	<b>48,700</b>	<b>800</b>	<b>180472</b>	<b>4,60,603</b>

<b>Mechanical Engineering Department</b>	<b>Total Alloted</b>	<b>Expense s</b>	<b>Processin g Started</b>	<b>New proposals</b>	<b>Total Expense (spent and expected)</b>	<b>Balance</b>
<b>Corpus</b>	<b>4,65,000</b>	<b>120115</b>	<b>NIL</b>	<b>8000</b>	<b>128115</b>	<b>3,36,885</b>
<b>Faculty and Staff development</b>	<b>6,65,975</b>	<b>173556</b>	<b>2000</b>	<b>19250</b>	<b>194806</b>	<b>4,71,169</b>
<b>Equipment Replacement</b>	<b>6,39,000</b>	<b>NIL</b>	<b>539000</b>	<b>23200</b>	<b>562200</b>	<b>76,800</b>
<b>Maintenance</b>	<b>6,41,075</b>	<b>108970</b>	<b>27000</b>	<b>500000</b>	<b>135970</b>	<b>5,105</b>

<b>Civil Engineering Department</b>	<b>Total Alloted</b>	<b>Expense s</b>	<b>Processin g Started</b>	<b>New proposals</b>	<b>Total Expense (spent and expected)</b>	<b>Balance</b>
<b>Corpus</b>	<b>4,65,000</b>	<b>63423</b>	<b>60900</b>	<b>6000</b>	<b>130323</b>	<b>3,34,677</b>
<b>Faculty and Staff development</b>	<b>6,65,975</b>	<b>76652</b>	<b>135930</b>	<b>58523</b>	<b>271105</b>	<b>3,94,870</b>
<b>Equipment Replacement</b>	<b>6,39,000</b>	<b>NIL</b>	<b>145000</b>	<b>NIL</b>	<b>145000</b>	<b>4,94,000</b>
<b>Maintenance</b>	<b>6,41,075</b>	<b>108750</b>	<b>47200</b>	<b>NIL</b>	<b>155950</b>	<b>4,85,125</b>

<b>AE&amp;I Engineering Department</b>	<b>Total Alloted</b>	<b>Expense s</b>	<b>Processin g Started</b>	<b>New proposals</b>	<b>Total Expense (spent and expected)</b>	<b>Balance</b>
<b>Corpus</b>	<b>5,65,000</b>	<b>160601</b>	<b>43593</b>	<b>48600</b>	<b>252794</b>	<b>3,12,206</b>

<b>Faculty and Staff development</b>	<b>6,65,975</b>	<b>179141</b>	<b>6346</b>	<b>9000</b>	194487	<b>4,71,488</b>
<b>Equipment Replacement</b>	<b>6,39,000</b>	<b>NIL</b>	<b>380500</b>	<b>690000</b>	1070500	<b>-4,31,500</b>
<b>Maintenance</b>	<b>6,41,075</b>	<b>39369</b>	<b>152400</b>	<b>64000</b>	255769	<b>3,85,306</b>

<b>Institution Level Engineering Department</b>	<b>Total Alloted</b>	<b>Expense s</b>	<b>Processin g Started</b>	<b>New proposals</b>	<b>Total Expense (spent and expected)</b>	<b>Balance</b>
<b>Corpus</b>	<b>12,54,752</b>	<b>955125</b>	<b>5,50,000</b>	<b>NIL</b>	1505125	<b>-2,50,373</b>
<b>Faculty and Staff development</b>	<b>6,65,975</b>	<b>115286</b>	<b>3,00,000</b>	<b>21793</b>	437079	<b>2,28,896</b>
<b>Equipment Replacement</b>	<b>6,39,000</b>	<b>243986</b>	<b>146259</b>	<b>13,00,000</b>	1690245	<b>-10,51,245</b>
<b>Maintenance</b>	<b>6,41,075</b>	<b>49382</b>	<b>14000</b>	<b>10000</b>	73382	<b>5,67,693</b>

### Expenditure(Including proposed)

	<b>Corpus</b>	<b>FSD</b>	<b>Eq. Repla.</b>	<b>Maintainance</b>	
<b>Chemical</b>	281873	645188	512500	180472	<b>16,20,033</b>
<b>Mechanical</b>	128115	194806	562200	635970	<b>15,21,091</b>
<b>Civil</b>	130323	271105	145000	155950	<b>7,02,378</b>
<b>AEI</b>	252794	194487	1070500	255769	<b>17,73,550</b>
<b>Institution Level</b>	1505125	437079	1690245	73382	<b>37,05,831</b>
	2298230	1742665	3980445	1301543	9322883

### Balance Amounts as per previous allocation

	<b>Corpus</b>	<b>FSD</b>	<b>Eq. Repla.</b>	<b>Maintainance</b>	

Chemical	183127	20,787	1,26,500	4,60,603	7,91,017
Mechanical	336885	471169	76800	505105	13,89,959
Civil	334677	394870	494000	485125	17,08,672
AEI	312206	471488	-431500	385306	7,37,500
Institution Level	-250373	228896	-1051245	567693	-5,05,029
	<b>916522</b>	<b>1587210</b>	<b>-785445</b>	<b>24,03,832</b>	<b>4122119</b>

Reallocation of the total balance amount(Proposed)					
	Corpus	FSD	Eq. Repla.	Maintainance	
Chemical	300000	1,00,000	1,00,000	1,00,000	6,00,000
Mechanical	300000	1,00,000	50000	50000	5,00,000
Civil	250000	1,00,000	200000	460000	10,10,000
AEI	600000	1,00,000	50000	50000	8,00,000
Institution Level	512119	1,00,000	50000	50000	7,12,119
	<b>1962119</b>	<b>500000</b>	<b>450000</b>	<b>7,10,000</b>	<b>3622119</b>

Initial Allocation as on Nov.2017					
	Corpus	FSD	Eq. Repla.	Maintainance	
Chemical	4,65,000	6,65,975	6,39,000	6,41,075	24,11,050
Mechanical	4,65,000	6,65,975	6,39,000	6,41,075	24,11,050
Civil	4,65,000	6,65,975	6,39,000	6,41,075	24,11,050
AEI	5,65,000	6,65,975	6,39,000	6,41,075	25,11,050
Institution Level	12,54,752	6,65,975	6,39,000	6,41,075	32,00,802
	3214752	3329875	3195000	3205375	12945002

Reappropriation (Proposed)					
	Corpus	FSD	Eq. Repla.	Maintainance	
Chemical	5,81,873	7,45,188	6,12,500	2,80,472	22,20,033
Mechanical	4,28,115	2,94,806	6,12,200	6,85,970	20,21,091
Civil	3,80,323	3,71,105	3,45,000	6,15,950	17,12,378
AEI	8,52,794	2,94,487	11,20,500	3,05,769	25,73,550
Institution Level	20,17,244	5,37,079	17,40,245	1,23,382	44,17,950

	4260349	2242665	4430445	2011543	12945002
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**Amounts reappropriated across different heads(Proposed)**

	Corpus	FSD	Eq. Repla.	Maintainance	
Chemical	-1,16,873	-79,213	26,500	3,60,603	1,91,017
Mechanical	36,885	3,71,169	26,800	-44,895	3,89,959
Civil	84,677	2,94,870	2,94,000	25,125	6,98,672
AEI	-2,87,794	3,71,488	-4,81,500	3,35,306	-62,500
Institution Level	-7,62,492	1,28,896	-11,01,245	5,17,693	-12,17,148
	-1045597	1087210	-1235445	1193832	0

**Ratification of Expenses from Four Funds (completed processing)**

during the period 1-12-2020 to 28-2-2021

**Expenditure from Corpus Fund**

SI No	Particulars	Venue	Name of the staff attended/ Coordinator	Department	Date	No of Participants	Amount
1	Salary(1/12/2020 to 28/02/2021)			Inst			45,000
2	Student training programm entitled Personal & Professional grooming	GECK	Dr.Beula C	CH	21 to 25 January 2020	120	65,727

3	Conduct a training on English for Improving communication skills	GECK	Dr.AhammedcMun eer K V	Inst	28 and 29 January and 3 to 5 Februar y 2020	232	13,790
4	Conducted an Invited talk on Land Management Techniques and Relevant Rules	GECK	Dr.Kouzer K M	Civil	23-10-2 019	100	4,000
5	Student training programm on Simulation using MATLAB in process control Aspects	GECK	Dr.Beula C	Civil	23 to 25 Novem ber 2020	70	9,000
6	Invited talk conducted online for 1st semester M Tech students	GECK	Smt.Rezuana Bai	AEI	19 to 21 January 2021	19	15,00 0
<b>Total</b>							<b>1,52,5 17</b>

## 2. Out station training attended-students

SI No	Particulars	Venue	Name of the staff attended/ Coordinator	Departm ent	Date	No of Participa nts	Amou nt
1	B Tech Chemical engineering students attended and passed NPTEL Course	online	Smt.Suji S K	CH	Aug- Sept 2018	7(7th Sem)	7000
2	B Tech students participated in E- Summit 2020	IIT Bomb ay	Sri.Rassid Ummer N T	AEI	1 -2 Februar y 2020	10 (6th sem)	16650

							23650
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## Expenditure from FSD Fund

### 1. Out station training attended-staff

SL NO	Name of the Program/ Details	Venue	Name of the staff attended/ Coordinator	Department	Date	Expenditure
1	Participation in the one week FDP on Artificial Intelligence Devices to Circuits	IIT Roorkee	Sri.Rashid Ummer N T	AEI	9 to 13 January 2020	10272
2	Participation in Two day Workshop on Introduction to robotics	NIT Karnataka	Sri.Rashid Ummer N T	AEI	14 to 15 February 2020	2930
3	Participation in Two day Workshop on Introduction to robotics	NIT Karnataka	Sri.Arun Shal U B	Mech	14 to 15 February 2020	2,930
4	Participation in Two day Workshop on Introduction to robotics	NIT Karnataka	Sri.Sreeraj S	AEI	14 to 15 February 2020	3,530
5	Participation in Two day Workshop on Introduction to robotics	NIT Karnataka	Sri.Nidhin Sreedas E	Mech	14 to 15 February 2020	2,930

6	Participation in One day Seminar on AICTE Quality Initiatives ,NIT TT& NEAT	FISAT Angamaly	Sri.Arun Shal U B	Mech	06-Mar-20	1,626
7	Participation in One day Seminar on AICTE Quality Initiatives ,NIT TT& NEAT	FISAT Angamaly	Sri.Nidhin Sreedas E	Mech	06-Mar-20	1,626
8	Participation in an International Conference	NIT Calicut	Dr.Rojisha V C	Inst	26 to 29 February 2020	3,000
9	Participation in awareness Workshop on AICTE internship policy	Kerala State Science and Technology Museum	Dr.Byju Bai T P	Inst	17-07-2019	3,060
10	Participation in an International Conference	NSS College of Engineering Palakkad	Dr.Sajeeb A M	Mech	17 to 18 July 2020	8,000
11	Participation in an National Conference	IIT Kharagpur	Dr.Ahammed Muneer K V	AEI	21 to 23 February 2020	30,000
12	Participation in an International Conference	Pondicherry University	Sri.Jayakumar M	Inst	11 to 12 March 2020	5,700
<b>2. Inhouse Program</b>						
<b>SL NO</b>	<b>Name of the Program/ Details</b>	<b>Venue</b>	<b>Name of the staff attended/ Coordinator</b>	<b>Department</b>	<b>Date</b>	<b>Expenditure</b>
1	Conducting Workshop	GECK	Dr.Anirudhan P	Mech	10-Jan-20	11367
						86,971



<b>Expenditure from Equipment Maintenance Fund</b>					
<b>Sl.No</b>	<b>Name of the Item</b>	<b>Department</b>	<b>Date</b>		<b>Expenditure</b>
1	Repair/refilling toner printers and computers	AEI	1/12/220		9900
2	Repair/refilling toner printers and computers	CH	12-01-2021		6325
3	Repair of Laptop	CH	25-02-2021		2900
4	Refill of High purity helium gas	CH	25-02-2021		22715
				Total	41840

The detailed department wise expenditure is furnished in Appendix III

**Files under Processing** during the period 1-12-2020 to 28-2-2021

### **Chemical Engg Dept**

<b>Sl No</b>	<b>Particulars</b>	<b>Name of the staff attended/ Coordinator</b>	<b>Amount</b>	
1	Student training Programme	Dr.Beula C	45000	45000
<b>2. Out station training attended</b>				

3	International Conference on Science and Technology of Advanced Materials (STAM 20)	Dr .Beula C	5670
4	International conference on Polymer processing and characterisation	Smt.Shyja M	4090
5	International conference on Polymer processing and characterisation	Smt .Sajitha C M	4193
6	International conference on Polymer processing and characterisation	Smt.Sindhu N	4090
9	M Tech students participated in the National Conference on Safety &Fire Engineering	Dr.Ushakumary E R	1130
10	M Tech students participated in the National Conference on Safety &Fire Engineering	Dr.Mary Lubi C	1130
11	M Tech students participated in the National Conference on Safety &Fire Engineering	Dr.Mary Lubi C	1130
12	M Tech students participated in the National Conference on Safety &Fire Engineering	Dr .Padmavathy K	1130
13	M Tech students participated in the National Conference on Safety &Fire Engineering	Smt.Sajitha C M	1130

14	M Tech students participated in the National Conference on Safety & Fire Engineering	Dr .Gigi Sebastian	1130	24823
				69823
<b>FSD</b>				

<b>1 IEEE Fee ,ISTE Fee &amp; IChE Membership Fee</b>				
<b>SL NO</b>	<b>Name of the Program/ Details</b>	<b>Name of the staff attended/ Coordinator</b>	<b>Expenditure</b>	
1	IChE Membership Fee	Dr.Binu T V	3500	
2	IChE Membership Fee	Dr.Fasnabi P A	2500	
3	ISTE life time membership	Sri.Adil Muhammed	1770	
4	ISTE life time membership	Smt.Suji S K	1770	
5	ISTE life time membership	Smt.Haseena PV	1770	
6	IChE Membership Fee	Smt.Haseena PV	3500	
7	IChE Membership Fee	Smt.Suji S K	3500	
8	ISTE life time membership	Smt.Shyja M	1770	
9	IChE Membership Fee	Smt.Shyja M	3500	
10	IChE Membership Fee	Sri.Adil Muhammed	3500	
11	IChE Membership Fee	Smt Aparna A M	3500	
				30580

<b>3. R&amp;D</b>
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SL NO	Name of the Program/ Details	Name of the staff attended/ Coordinator	Expenditure	
1	R&D Project	Sri.Adil Muhammed	200000	400000
2	R&D Project	Smt.Suma K	200000	

## 2 .Inhouse Programme

SL NO	Name of the Program/ Details	Name of the staff attended/ Coordinator	Expenditure	
1	FDP on Non- Conventional Energy Sources -Technologies and Trends	Sri.Adil Muhammed	65000	65000

## Equipment Maintenance

Sl.No	Name of the Item	Expenditure
1	Repair service of 1KVA UPS for the equipment FTIR	9600
2	Refilling high purity nitrojen gas	3500
3	Repair of Laptop	600
4	Refilling high purity helium gas	35000

## Equipment Replacement Fund

Sl.No	Name of the Item	Expenditure
1	Replacement of Chlorrine and calibration standard	98000
3	Replacement of helium gas regulator	5000
4	Replacement of Window (FTIR)	30000

6	Replacement of 7.5kva Battery	60000
12	Replacement of Printers(5 No's)	75000
13	Replacement of Projector(1 No's)	68000
14	Replacement of All in one computers (2 No's) and Laptop(1No's)	170000

## **Mechanical Engg**

<b>FSD</b>				
<b>1. Out station training attended</b>				
<b>SL NO</b>	<b>Name of the Program/Details</b>	<b>Name of the staff attended/ Coordinator</b>	<b>Expenditure</b>	
1	Short term course on Additive and Smart Manufacturing	Sri.Prajeeth Kumar K P	2000	2000

<b>Equipment Maintenance</b>		
<b>Sl.No</b>	<b>Name of the Item</b>	<b>Expenditure</b>
1	Reapir of 3 KVA UPS	7000
10	Vortex tube refrigeration	10000
11	Solar water heater	5000
12	Biomass Gasifier	5000

<b>Equipment Replacement Fund</b>		
<b>Sl.No</b>	<b>Name of the Item</b>	<b>Expenditure</b>
1	Laptop Toshiba satellite	135000
2	Electronic circuitry and software for PC based IC engine	75000
3	Multimedia projector(1 No's)	84000
4	5 KVA UPS (Make :power one) with Battery	245000

### **Civil Engg**

<b>Sl No</b>	<b>Particulars</b>	<b>Name of the staff attended/ Coordinator</b>	<b>Amount</b>
1	Online training programme	Smt.Shyba A	30000

2	Expert lecture	Dr.K M Kouzer	1500	31500
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<b>1. GATE Coaching :</b>				
1	Gate Coaching	Dr.Muhamed Safeer	29400	29400
			Total	

60900

**FSD**

<b>3. IEEE Fee &amp; IChE Membership Fee</b>				
<b>SL NO</b>	<b>Name of the Program/Details</b>	<b>Name of the staff attended/ Coordinator</b>	<b>Expenditure</b>	
1	ISTE life time membership	Dr Kouzer K M	1770	
2	ISTE life time membership	Dr .Ragesh P P	1770	
3	ISTE life time membership	Smt.Bindurani P	1770	
4	ISTE life time membership	Dr.Raghu Kumar C	1770	
5	ISTE life time membership	Sri.Rahmathulla Noufal E	1770	
6	ISTE life time membership	Smt .Shyba A	1770	
7	ISTE life time membership	Smt.Raji Karuna	1770	
8	ISTE life time membership	Smt.Nasma Noor N V	1770	
9	ISTE life time membership	Smt.Anjana M V	1770	15930

	<b>Inhouse</b>			
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1	Online training programme on Pavement evaluation and quality checks	Dr.Sreela P K ,Sri.Ansu V	30000	120000
2	Online training programme on Choice modelling and its applications	Dr.Sreela P K ,Sri.Ansu V	30000	
3	Online training programme on Non Destructive Testing of Concrete Structures	Sri.Rahmathulla Noufal E , Smt.Shyba A	30000	
4	Online training programme	Dr.Sreela P K	30000	
				135930

### Equipment Maintenance

Sl.No	Name of the Item	Expenditure
1	Repair of UTM	47200

### Equipment Replacement Fund

Sl.No	Name of the Item	Expenditure
1	Panasonic Printers	70000
2	All in one computer	75000

### AEI Dept

Sl No	Particulars	Name of the staff attended/Coordinator	Amount
1	Conduct a three day career orientation program	Sri.Ummer Rashid N T	9000
2	Conduct a two day mental awareness program	Sri.Pradeep K Bharathan	6000



3	Conduct a webinar series on Hidden Markov Models for Speech and Audio Processing	Dr.Shajee Mohan B S	11000	38000
4	Hands on training on logic circuit design with vertilog	Dr.Ahammed Muneer K V	12000	
<b>2. Out station training attended</b>				
1	M Tech students participated in the International Conference on Music Genre classification using spectrograms	Dr.Shajeemohan B S	5593	5593

			Total	<b>43593</b>
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<b>FSD</b>				
<b>1. Out station training attended</b>				
SL NO	Name of the Program/ Details	Name of the staff attended/Coordinator	Expenditure	
1	Technical visit to centre of Excellence	Dr.Bindima T	3846	6346
2	Training Program on Advance Sysytem Application Development	Dr.Bindima T	600	
3	Training Program	Dr.Bindima T	1900	

<b>Equipment Maintenance</b>		
Sl.No	Name of the Item	Expenditure
1	Repair of single phase induction motor	2400

2	Repair of 30kVA UPS	90000
3	Repair of 30kVA UPS batteries	60000

<b>Equipment Replacement Fund</b>		
<b>Sl.No</b>	<b>Name of the Item</b>	<b>Expenditure</b>
1	Replacement of 5 KVA UPS battery	87000
7	Replacement of faculty trainer kits in microprocessor lab(12 No's)	234000
10	Replacement of Desktop computer(1 No's)	45000
11	Replacement of Printer(1 No's)	14500

### **Institution Level**

### **Corpus**

<b>SI No</b>	<b>Particulars</b>	<b>Name of the staff attended/Coordinator</b>	<b>Amount</b>
1	Placement Training programmes	Dr.Pradeep V	550000
<b>2 .Inhouse Programme</b>			
<b>SL NO</b>	<b>Name of the Program/Details</b>	<b>Name of the staff attended/Coordinator</b>	<b>Expenditure</b>
1	Conducting International Confernce in Emerging Trends in Engineering	Dr.Shajee Mohan B S	300000

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300000

<b>Equipment Replacement Fund</b>		
<b>Sl.No</b>	<b>Name of the Item</b>	<b>Expenditure</b>
1	Computer(1 No's)	41259
8	Replacement of Laptop keyboard and tovel pad	5000
9	Replacement of Printer(1 No's)	100000

<b>Equipment Maintenance</b>		
<b>Sl.No</b>	<b>Name of the Item</b>	<b>Expenditure</b>
1	CCF Generator	14000

**Department wise split up Given in Appendix II**

**Approval requested from BoG**

<b>Sl No</b>	<b>Particulars</b>	<b>Venue</b>	<b>Name of the staff attended/ Coordinator</b>	<b>Date</b>	<b>Amount</b>	<b>Remarks</b>
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1	M Tech students participated in the International Conference on Sustainable technology applications for green engineering solutions STAGE 2020	NSS College of Engineering Plakkad	Sr.Shaji K	17,18 July 2020	4000	No prior sanction from TEQIP
2	M Tech students participated in the International Conference on Sustainable technology applications for green engineering solutions STAGE 2020	NSS College of Engineering Plakkad	Sr.Shaji K	17,18 July 2020	4000	No prior sanction from TEQIP
3	NBA Accreditaion of PG programs(CH and ME dept)		Dr.Pradeep V		47200	Full fees paid earlier but 10% of total amount to be paid for online application and shall be adjusted with future fees

FSD							
	Program		Name of faculty	Date	Amount	Remarks	
1	Paper presentation in the International conference on Emerging Trends in Engineering Science and Technology (ICETEST 2020)	GEC Trissur	Prof .Rah mathulla Noufal E, Dept of Civil Engg	17 to 19 Decemb er 2020	6000	No prior sanction from TEQIP	

2	PhD registration fee						Registration date is 5-1-2015 (BoG guideline is from academic year 2015-16 onwards)
		NIT Calicut	Prof. Saeed P A, Dept of Applied science	Mansoon and winter sem 2020-21	21793		

## **B7. REPORT ON INTERNATIONAL CONFERENCE**

### **Yukthi 2021 - International Conference on Emerging Trends in Engineering**

Conference Coordinator: Dr. Shajee Mohan B S

Yukthi 2021 – The international Conference in Emerging Trends in Engineering is an attempt to further explore the avenues in technology through conducting world class events such as paper presentations, panel discussions, webinars etc. Yukthi 2021 provides a venue for the confluence of latest ideas, thoughts and innovations of talented minds from the whole world. The International conference will be conducted in July 2021 using online methods.

Yukthi 2021 has the following department Tracks:

- AE&I: International Conference on Emerging Trends in Signal Processing
- CE: International Conference on Smart Solution for Sustainable Infrastructure
- CH: International Conference on Process Engineering and Sustainable Technologies-STEP
- ME: International Conference on Mechanical Engineering and Energy Technologies - URJA 2021

**The International Conference will be conducted from 23rd to 25th July 2021 using online methods and strictly following COVID-19 protocols.**

**Important Dates:**

**Deadline of submission: 30th April 2021**

**Notification of Acceptance: 25th May 2021**

**Camera Ready paper : 25th June 2021**

**Deadline for registration: 9th July 2021**

## Part C

### C1. NEW PROPOSALS

#### C1.1 Department wise proposals

#### Mechanical Engg

### Corpus

Sl No	Particulars	Venue	Name of the staff attended/ Coordinator	Date	No of Participants	Amount	
<b>1. Out station training attended</b>							
1	M Tech students participated in the International Conference on Sustainable technology applications for green engineering solutions STAGE 2020	NSS College of Engineering Plakkad	Sr.Shaji K	17,18 July 2020	1	4000	
2	M Tech students participated in the International Conference on Sustainable technology applications for green engineering solutions STAGE 2021	NSS College of Engineering Plakkad	Sr.Shaji K	17,18 July 2020	1	4000	
							8000

**FSD**

<b>1. Out station training attended</b>							
<b>SL NO</b>	<b>Name of the Program/Details</b>	<b>Venue</b>	<b>Name of the staff attended/ Coordinator</b>	<b>Date</b>		<b>Expenditure</b>	
1	IEEE Annual membership fee		Sri .Francis J Emmatty			3250	
2	MOOC Course		Sri.Arun Shal B			8000	
3	MOOC Course		Sri.Nidhin Sreedas E			8000	19250

<b>Equipment Replacement Fund</b>				
<b>Sl.No</b>	<b>Name of the Item</b>	<b>Department</b>	<b>Expenditure</b>	
1	3 KVA UPS Battery	Mechanical Engineering Department	23200	
				23200

### **Equipment Maintenance Fund**

<b>Sl.No</b>	<b>Name of the Item</b>	<b>Department</b>	<b>Expenditure (Rs.)</b>
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1	Maintenance of High-temperature Pin-on-disk equipment, Data Acquisition Modules and CASAR Piping Stress Software .	Mechanical Engineering	5,00,000
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### AEI Dept Corpus

Sl No	Particulars	Venue	Name of the staff attended/ Coordinator	Date	No of Participants	Amount	Total
<b>1. Expert talks for students:</b>							
1	Gate Coaching	GEC Kozhikode	Sri.Harikrishnan	23/1/2021 to 4/2/2021		21600	21600
<b>2. Out station training attended</b>							
1	M Tech students participating and presenting the accepted paper in the International Conference	Goa University	Dr.Shajeemohan B S	Mar-21		27000	27000
Total							
<b>FSD</b>							



<b>1. Out station training attended</b>							
<b>SL NO</b>	<b>Name of the Program/ Details</b>	<b>Venue</b>	<b>Name of the staff attended/ Coordinator</b>	<b>Date</b>		<b>Expenditure</b>	
1	NPTEL Course		Sri.Jithesh P K			1000	
2	MOOC Course		Sri.Sreeraj S			8000	9000

<b>Equipment Replacement Fund</b>				
<b>Sl. No</b>	<b>Name of the Item</b>	<b>Department</b>	<b>Expenditure</b>	
1	Replacement of Digital multimeters	AE&I Engineering Department	60000	
2	Replacement of Computer (14 no's)	AE&I Engineering Department	6,30,000	
3	Replacement of FPGA trainer board (10 NO'S)	AE&I Engineering Department	90,000	
				7,80,000

<b>Maintenance Fund</b>				
<b>Sl. No</b>	<b>Name of the Item</b>	<b>Department</b>	<b>Expenditure</b>	

1	Repairing of function generators in power electronics lab	AE&I Engineering Department	4000
2	Repairing of computers (3 no's)	AE&I Engineering Department	60000
			64000

### Chemical Engg Dept

<b>FSD</b>					
<b>1. Out station training attended</b>					
<b>SL NO</b>	<b>Name of the Program/Details</b>	<b>Venue</b>	<b>Name of the staff attended/ Coordinator</b>	<b>Date</b>	<b>Expenditure</b>
1	NPTEL Course		Dr.Fasnabi		1000
2	Workshop	Onilne	Dr.Binu T V		1900

<b>Maintenance Fund</b>				
<b>Sl.No</b>	<b>Name of the Item</b>	<b>Department</b>	<b>Expenditure</b>	
1	Repair of Printer	Chemical Engineering Deaprtment	800	
2	Repair of AC	Chemical Engineering Deaprtment	11000	
				11800

### Civil ENgg

## Corpus

Sl No	Particulars	Venue	Name of the staff attended/Coordinator	Date	No of Participants	Amount
	<b>1. Expert talks for students:</b>					
1	Online webinar on Applications of GIS in eCivil Engineering	GEC Kozhikode	Smt.Shyba A	03-Feb-21		3000
2	Remedail class	GEC Kozhikode	Smt.Anjana			3000

<b>FSD</b>						
	<b>1. Out station training attended</b>					
SL NO	Name of the Program/Details	Venue	Name of the staff attended/Coordinator	Date	Expenditure	
1	Paper presentation in the International conference on Emerging aTrends in Engineering Science and Technology	GEC Trissur	Sri .Rahmathulla Noufal E	17 to 19 December 2020	6000	
2	MOOC Course		Smt.Nasma Noor N V		4000	
3	MOOC Course		Smt.Shyba A		5000	15000

<b>3. Phd Fee</b>					
<b>SL NO</b>	<b>Name of the Program/Details</b>	<b>Venue</b>	<b>Name of the staff attended/Coordinator</b>	<b>Date</b>	<b>Expenditure</b>
1	Phd Fee		Sri. Rahmathulla Noufal E		21,793
2	Phd Fee		Smt.Baindurani		21,730
Total					<b>43523</b>

### Institution level

<b>Corpus</b>					<b>Expenditure</b>
1	NBA Accreditaion of PG programs		Dr.Prdeep V		47200

<b>FSD</b>					
<b>3. Phd Fee</b>					
<b>SL NO</b>	<b>Name of the Program/Details</b>	<b>Venue</b>	<b>Name of the staff attended/Coordinator</b>	<b>Date</b>	<b>Expenditure</b>
1	Phd Fee		Sri.Saeed P A		21793

<b>Equipment Replacement Fund</b>			
<b>Sl.No</b>	<b>Name of the Item</b>	<b>Department</b>	<b>Expenditure</b>
1	Replacement of computer(1 No's)	Institution Level	70000
2	Laptop Toshiba satelite(1 No's)	Institution Level	75000
3	Replacement of Printer(1 No's)	Institution Level	100000
4	pH METER	Institution Level	20000
5	Electronic balance	Institution Level	100000
6	Conductivity meter	Institution Level	30000
7	UV-Visible Spectrophotometer	Institution Level	10,00,000

				13,95,000
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<b>Maintenance Fund</b>				
<b>Sl.No</b>	<b>Name of the Item</b>	<b>Department</b>	<b>Expenditure</b>	
1	Repair of Computer	Instituion Level	10000	
				10000

## **CII. Shifting to the new campus**

Government Engineering College, Kozhikode started in the year 1999, is functioning in a 5 acre campus located in the compound of Kerala Government Poly Technic College, Kozhikode near military barracks at West Hill. Currently there are five under graduate (B. Tech.) programmes and three post graduate (M. Tech.) programmes offered in the institution.

Three institutions (Engineering College, Poly Technic and Technical High School) are functioning in the existing campus of area 14 acres. The available area in the present campus is fully occupied with buildings and hence construction of buildings for new facilities is not possible. Moreover, proximity with military barracks and defence department helipad prevents us from constructing high-rise buildings. Administrative sanction received from government for various facilities (amounting to Rs. 2319 Lakhs) including boys hostel, ladies hostel, academic blocks, central computing facility, workshops, staff quarters and other required facilities proposed are not realised due to shortage of land.

We are facing difficulty for complete utilization of funds offered by Central and State Governments and other agencies like FIST, CERD, TEQIP, AICTE, UGC etc. due to lack of space. It is also difficult to start new UG courses in Computer Science and Engineering (CSE) and Electrical and Electronics Engineering (EEE) and PG courses due to the limitations in the available land area.

Under these circumstances, college need to be expanded with more land area. Since vacant land in the ownership of government is not available near the present location, private land needs to be acquired. In this situation, proposal had been submitted to the Government of

Kerala to allocate an approximate amount of Rs.5000 lakhs for acquiring land in a convenient location identified near Kozhikode city.

Two locations are identified and the faculty group has visited the proposed sites. Now the negotiations are going on with land owners by district collectorate officials.

#### **Part D : Other Items**

##### **D1. AICTE Approval extension**

The AICTE Extension of Approval for the academic year 2021-22 process has to be initiated based on public notice issued by AICTE.

The fees and documents has to be submitted to DTE before 29-3-2021.

##### **D2. Planning to start new Programs in**

- 1, B.Tech in Computer science and Engg(FT)
2. M.Tech in Civil Engg Dept (FT)
3. M.Tech in Chemical Engg Dept(PT)

##### **D3. Revision of four fund utilization guidelines**

The revised guidelines for TEQIP II four funds is attached as Appendix-III (Word document)

**<end of agenda notes>**

## **Appendix-1**

### **MINUTES OF 23<sup>rd</sup> MEETING OF THE BOG**

**GOVT. ENGINEERING COLLEGE KOZHIKODE, WESTHILL**

**(SELECTED UNDER SUB-COMPONENT 1.1 OF TEQIP PHASE – II)**

**Date: 07.12.2020**

**Time: 02.30 pm**

**Venue: Google meet**

#### **Members present**

1. Dr. L S Ganesh, IIT Madras (Chairman)
2. Dr. Elizabeth Elias, Professor, NIT Calicut (Retd.), Member
3. Dr. Vrinda V Nair, SPFU Director
4. Sri. Santhosh Kurup, CEO, ICT Academy of Kerala, Member
5. Dr. Najeeb K., Principal, GEC Kozhikode
6. Dr. Anjana Santhakumar, GEC Kozhikode
7. Dr. Sajith P P, GEC Kozhikode

#### **Members absent**

1. Dr. Ramesh Unnikrishnan, AICTE Regional Officer & Director, AICTE nominee
2. Representative from Higher Education Department, Govt. of Kerala
3. Controller of Examinations, KTU, University nominee
4. Representative from Finance Department, Govt. of Kerala
5. Director of Technical Education

Dr. L S Ganesh, Chairman, Board of Governors, presided over the meeting. The Principal of GECK, Dr. Najeeb welcomed all the members into the meeting. The items as per the agenda note were taken for discussion and approval.

## **Minutes**

### **PART A: Procedural**

#### **Item No. A1: Confirmation of the minutes of the 22<sup>nd</sup> meeting of the BOG held on 07.02.2020.**

The minutes of the BOG meeting held on 07.02.2020 were read and confirmed.

### **PART B: Status Reports**

#### **Item No. B1: Report of the Principal.**

The TEQIP coordinator, Dr. Gigi Sebastian presented a brief summary on the history and current status of the UG and PG courses on behalf of the Principal. Out of the five UG programs, four of them (AEI, Chemical, Civil and Mechanical) got NBA accreditation for three years from 2017-18 to 2019-20 academic years and got it extended up to 30.06.2023.

The SAR for ECE is uploaded on 20.02.2020 and the expert team visit is expecting by early 2021. The accreditation status of PG is also discussed

#### **The BoG members suggested the following initiatives and actions:**

1. Planning for the commencement of a UG program in Computer Science and Engineering in 2021-22 academic year.
2. Stressed the need of space audit for starting the UG program in computer science.



## **Item No. B2: Current Faculty Position of the Institution**

The TEQIP coordinator presented the current faculty position with qualifications. Out of the 83 sanctioned faculty posts, 76 are filled. There are at present 36 faculty possessing PhD.

The BoG suggested to list the vacancies and also the **length of time over which the vacancy existed**. Also suggested to show the data about **faculty pursuing PhD** under QIP, Part time etc.

**The BoG Decided to provide PhD support (full support, irrespective of the amount, for tuition fee and registration fee) for a period of up to 5 years for part time registration. This is for PhD's registered in part time mode from 2015 onwards and the support is from 2019 onwards only.**

One of the members raised the issue of extending this program for the period of 2017-19 also. *The chairman assured to look into the details for taking a decision. The Principal and SPFU director to look into the details.*

*The chairman also suggested to consider a one-year pension support(in the 6<sup>th</sup> year of part time PhD) in future.*

## **Item No. B3: Review of actions taken on the decisions of 22<sup>nd</sup> BoG meeting**

The TEQIP coordinator presented the actions taken on 22<sup>nd</sup> BoG meeting.

Also the Principal presented about the 10Crore building in the campus.

The meeting reviewed the actions taken upon the decisions of 22<sup>nd</sup> BoG and provided the following suggestions:

1. To go ahead with the UG program in CSE unconditionally and to remove the phrase—'subject to identification of space in earlier suggestion'.
2. To keep the building as one of the top priority item.

## **Item No. B4: REPORTS ON ACTIVITIES**

The TEQIP coordinator presented the details of admission, results, placement, higher studies and faculty achievements. **4 faculties have used the four funds for FDP and 16 have applied for the expenses incurred.** The major achievements were,

- Government sanction obtained for finding new location for the Institute.
- Administrative sanction for CCF cum Library block. (Estimate: 10 crores)
- One MODROB project for twenty lakhs is sanctioned to Chemical Engineering Department. (Coordinator – Dr. Ushakumary E R)

The Board members discussed the activities and suggested the following:

1. To provide **three year data** on first rank- last rank in admission data and also in pass %. Also to include **number of attempts** in result analysis.
2. To consider introducing **scholarship to PG students** from 2<sup>nd</sup> semester onwards, based on academic performance.
3. To solicit for **CSR funds**
4. To include data about **frequency of FDPs**
5. To include details like **no. of eligible students, no. of offers, average salary package** in placement data
6. To introduce **freelancing** among students through placement activity.
7. To consider **reward to publishing** in good journals
8. To introduce an **award in the name of BoG chairman** to the best outgoing student.

#### **Item No. B5: FINANCE REPORT: STATUS OF FOUR FUNDS**

The TEQIP Coordinator presented the status of the four funds (**Corpus Fund, Faculty Development Fund, Equipment Replacement Fund and Maintenance Fund**) as on Nov. 2020, as given below. **The current total expenditure is 19.6%.**

Account Name	Amount on 01/11/2017	Total Expenditure	Balance as on 30/11/2020	Expenditure during Feb to Nov 2020
Corpus Fund	34,14,885	13,35,147	2079738	472084
Faculty Development fund	33,29,881	5,94,372	2735509	184549
Equipment Replacement fund	31,94,497	2,50,486	2944011	146574
Maintenance Fund	32,05,394	3,95,603	2809792	6370
<b>Total</b>	1,31,44,657	25,75,608	1,05,69,050	8,09,577

The BoG ratified the expenses incurred so far from the four funds.

Also, the BoG suggested the following.

1. To think about means for enhancing the expenditure
2. To provide data on replaced equipment.

#### **Item No. B 6: REPORT ON PURCHASE**

The TEQIP coordinator presented the major purchases/repairs (cost above Rs.15000/-) done under the heads replacements and maintenance of equipments, during February 2020 to November 2020, in the BoG meet.

#### **Item No. B 7: International Conference**

The BoG discussed the details of the International Conference, named ' Yukthi-2021' The Estimated Budget for the International conference is Rs. 4laks and a support of Rs. 3 lakhs is requested from TEQIP

### **Part C-New Items**

#### **C1. NEW PROPOSALS**

The TEQIP coordinator presented the new proposals for the BoG sanction

#### **Item No. C1.1: Institution Level Expenses**

- i) Placement Training: Rs.555000.00

- ii) International Conference(Yukthi-2021): Rs.300000.00
- iii) Replacement of computer, keypad and touch pad in Applied science dept. Rs. 67000.00
- iv) Replacement of Printer in TEQIP office: Rs.25000/-
- v) Remedial class on Mathematics for lateral entry students (30 hours): Rs.18000/-

### **C1.2. Civil Engineering Department**

- i) Expenditure from Corpus fund: Rs.99,181.00
- ii) Expenditure from FSD fund: Rs. 135750.00

### **C1.3. Mechanical Engineering**

- i) AICTE QUALITY IMPROVEMENT SCHME (AQIS) 2020-2021

BOG approval requested for applying for recognition of QIP Centre in Department of Mechanical Engineering under AQIS scheme

- ii) Proposals for replacement of items: Rs.5,11,000.00
- iii) Proposals for maintenance of items purchased under TEQIP II: Rs.25,000.00

### **C1.4. Chemical Engineering Department**

- i) Proposals for student training:Rs.45,000.00
- ii) Faculty/staff development programme: Rs.81,500.00
- iii) Research seed money projects: Rs.4,10,000.00
- iv) Proposals for replacement of items:Rs.3,83,000.00

### **C1.5. AE&I Engineering Department**

- i) Proposals for new faculty/ staff/student development programs: Rs.66000/-
- ii) Proposals for replacement of items:Rs.2,37,000.00

The BOG discussed the proposals and sanctioned all of them.

## **C2. Shifting to the new campus**

The TEQIP coordinator reported about the proposal submitted to the Government of Kerala to allocate an approximate amount of Rs.5000 lakhs for acquiring land in a convenient location identified near Kozhikode city.

The BoG agreed with the proposal

### **Part D : Other Items**

#### **D1. Approval of revised TEQIP II committees**

The TEQIP coordinator presented the new committees formed for the smooth functioning of four funds, with Prof. Premson Y, Assoc. Prof, Dept. of AEI as coordinator. The committee members are listed in Appendix 1.

The BOG approved the new committee.

#### **D2. Revision of four fund utilization guidelines**

**The BoG approved the following clauses to be included in four fund utilization guidelines for imparting training utilizing the online platforms.** The modifications are required in the sections 2 and 3 of four fund utilization guidelines.

### **SECTION 2. GUIDELINES FOR FSD PROGRAMMES USING FOUR FUNDS**

12. Online training programs for faculty and staff may be permitted on subject-oriented, interdisciplinary, or research related STTP/FSD/Workshop for a maximum of 6 days per program. The honorarium for expert faculty shall not exceed Rs.1000 per hour subjected to a maximum of Rs.3000/-per day for faculty from Government/aided/ accredited engineering colleges and industry. For faculty from IITs/IISc honorarium may be Rs.5000/- per day.

### **SECTION 3. GUIDELINES FOR THE CONDUCT OF STUDENT SUPPORT PROGRAMMES**

14. Online training programs for faculty students may be permitted on subject-oriented, interdisciplinary areas, or software training/Workshops. The honorarium for expert faculty shall not exceed Rs.1000 per hour subjected to a maximum of Rs.3000/-per day for faculty from Government/aided/accredited engineering colleges and industry. For faculty from IITs/ IISc honorarium may be Rs.5000/- per day.

The Principal expresses the vote of thanks.

**The meeting concluded at 04.50 PM.**

<END of Minutes>

Appendix II—Ratification of expenses(Excel attachment)

Appendix-III TEQIP revised guidelines—word document attachment

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