MINUTES OF 20th MEETING OF THE BOG

GOVT. ENGINEERING COLLEGE, KOZHIKODE

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

Date: 26.09.2018 **Time: 02.30 pm**

Members present

1. Dr. L S Ganesh, IIT Madras (Chairman)
2. Dr. Elizabeth Elias, NIT Calicut, Member
3. Sri. Santhosh Kurup, CEO, ICT Academy of Kerala, Member
4. Dr. Jayakumar S., SPFU Director (Representing DTE)
5. Dr. S Shabu, Controller of Examinations, KTU, University nominee
6. Sri. James Raj, Joint Secretary, Higher Education Department
7. Dr. Sheeba V S, Principal, GEC Kozhikode
8. Dr. Byjubai T P, GEC Kozhikode
9. Dr. Sajith P P, GEC Kozhikode

Members absent

1. Dr. Ramesh Unnikrishnan, AICTE Regional Officer & Director, AICTE nominee
2. Representative from Finance department, Govt. of Kerala

Dr. Sheeba V S, Principal introduced and welcomed the Chairman and BOG members. Dr. L S Ganesh, Chairman, Board of Governors presided over 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 19th meeting of the BOG held on 01.12.2017.

The minutes of the BOG meeting held on 01.12.2017 was read and confirmed. No comments were received.

PART B : Status Reports

Item No.BI: Brief summary on current status of the Institution

The Principal, Dr. Sheeba V S presented a brief summary on the history and current status of the UG and PG courses. Out of the five UG programs, four are accredited by NBA for three years, Electronics and Communication is planning to apply for accreditation in this academic year. The PG courses in Chemical Engg. and Mechanical Engg. are also preparing for accreditation and expecting visit of the NBA team in the current academic year.

The chairman and Members appreciated the details and suggested to proceed with the accreditation of M.Tech. course in Signal Processing (Electronics Department) after UG accreditation of Electronics and Communication Engineering.

Item No. BII: Current faculty position of the Institution

The Principal presented the current faculty position with qualifications. Out of the 82 sanctioned faculty posts, 60 are filled. The vacant posts as well as the temporary posts sanctioned by DTE are filled with adhoc faculty. Around 60% of the available permanent faculty holds a doctoral degree. The department wise details of faculty members are given below.

Chemical Engineering Department (Sanctioned – 16, Ph.D. 8)					
	Sanctioned Nos.	Available Nos.	Vacancy	Male/ Female	Qualification
Professor	2	2	0	2 F	Ph.D. - 2
Associate Professor	4	2	2	2 F	Ph.D. - 2
Assistant Professor	10	9	1 (QIP)	8 F 1 M	Ph.D. – 3 M.Tech. - 7
Adhoc faculty		3		1 F 2 M	Ph.D. – 1 M.Tech. - 2

Civil Engineering Department (Sanctioned – 14, Ph.D. 5)					
	Sanctioned Nos.	Available Nos.	Vacancy	Male/ Female	Qualification
Professor	1	0	1	--	--

	Sanctioned	Available	Vacancy	M/F	Qualification
Associate Professor	3	3	0	2 F 1 M	Ph.D. – 2 M.Tech. - 1
Assistant Professor	10	7	3	1 F 6 M	Ph.D. – 3 M.Tech. - 4
Adhoc faculty	1 (by DTE)	5		5 F	M.Tech. - 5

Mechanical Engineering Department (Sanctioned – 18, Ph.D. 10)					
	Sanctioned Nos.	Available Nos.	Vacancy	Male/ Female	Qualification
Professor	2	0	2	--	---
Associate Professor	5	4	1	4 M	Ph.D. - 4
Assistant Professor	11	9	2	8 M 1 F	Ph.D. – 6 M.Tech. - 3
Adhoc faculty	1 (by DTE)	6		6 M	M.Tech. - 6

Applied Electronics Department (Sanctioned – 15, Ph.D. 7)					
	Sanctioned No.	Available No.	Vacancy	Male/ Female	Qualification
Professor	1	1	0	1 F	Ph.D. - 1
Associate Professor	4	2	2	1 F 1 M	Ph.D. - 2
Assistant Professor	10	10	0	3 F 7 M	Ph.D. – 3 M.Tech. - 7
Adhoc faculty		2		2 F	M.Tech. - 2

Electronics and Communication (Sanctioned – 8, No permanent faculty)					
	Sanctioned No.	Available No.	Vacancy	Male/ Female	Qualification
Professor	1	0	1	--	
Associate Professor	2	0	2	--	

	Sanctioned	Available	Vacancy	M/ F	Qualification
Assistant Professor	5	0	5	--	
Adhoc faculty	8 (by DTE)	15		4 M 11 F	M.Tech. - 15

Electrical and Electronics (Sanctioned -3, Ph.D. 1)					
	Sanctioned No.	Available No.	Vacancy	Male/ Female	Qualification
Associate Professor	1	1	0	1 F	Ph.D
Assistant Professor	2	2 (1-leave)	0	2 F	M. Tech. - 2
Adhoc faculty		1		1 F	M.Tech. - 1

Applied Science Department (Sanctioned - 8, Ph.D. 5)					
	Sanctioned Nos.	Available Nos.	Vacancy	Male/ Female	Qualification
Mathematics	3	3	0	1 F 2 M	Ph.D. – 1 M.Phil - 1 M.Sc. – 1
Adhoc faculty	2 (by DTE)	1			M.Sc. – 1
Physics	1	1	0	1 F	M.Phil. - 1
Adhoc faculty	1 (by DTE)	1		1 F	Ph.D.
Chemistry	3	3	0	2 F 1 M	Ph.D. – 2 M.Phil. - 1
Physical Education	1	1	0	1 M	M.Phil.
Economics – Adhoc faculty	1 (by DTE)	1		1 M	M.A., NET
English – Adhoc faculty	1 (by DTE)	1		1 F	M. A. , NET

Item No. BIII: Result analysis, placement and higher studies

The Principal presented the result analysis and statistics on placement and higher studies. The Board members conducted discussions on the results and placements. The Governing body suggested the following. -

1. Analyze the correlation between admission ranks and results.
2. Analyze the student performance in each branch compared to other institutes.
3. Analyze the results of the students attending remedial classes
4. Student survey to find any specific difficulties faced by them eg. language, food, location etc.
5. Conduct alumni tracking for past three years regarding placement. No. of students eligible, no. registered, no. participated, no. placed.

These analyses will be made available in the next BOG meeting. The placement statistics of M.Tech. students also will be made available in the next meeting.

6. As the PG courses are conducted as autonomous on cluster basis, suggestions can be given to University to improve the quality of PG question papers.

Item No. BIV: Status of four funds and its utilization

Establishment of **Corpus Fund, Faculty Development Fund, Equipment Replacement Fund and Maintenance Fund** (Four Funds) are essential to ensure that the developmental activities continue beyond the Project period (5 years). The purpose of these Funds is to ensure sustainability of the reform process beyond the Project Period. Sources could be a donations from alumni and charitable organizations, IRG including commercial use of facilities, consultancy earnings (institutional share), and matching Grants from Government/management on IRG etc.

The TEQIP II Coordinator presented the status of four funds as per the details given below.

Account Name	**Balance 01/11/2017**	**Amount spent**		**Balance as on 05.09.2018**
		2017-18	**2018-19**	
Corpus Fund	32,14,755	1,36,830	2,19,450	30,67,605
Faculty Development fund	33,29,881	84,491	8,216	32,12,174
Equipment Replacement fund	31,94,497	0	6,900	31,87,597
Maintenance Fund	32,05,394	1650	18,186	31,85,558

Fund Allocated for Academic Year 2018-19					
Head	**AE&I**	**CE**	**ME**	**CH**	**IL**
Corpus fund	153,249	155,000	123,414	133,478	274,658
Faculty Development fund	255,030	266,390	240,730	266,390	216,239
Equipment Replacement fund	255,600	255,600	255,600	255,600	255,600
Maintenance Fund	181,430	256,430	256,430	249,980	256,430

AE&I: Applied Electronics and Instrumentation, CE: Civil Engineering, ME: Mechanical Engineering, CHE: Chemical Engineering, IL: Institution level.

The details and split up of the amounts utilized will be presented in the next BOG meeting for ratification.

The BOG suggested to look for CSR funding for the Institute towards projects, lab set up, skill development etc.

Item No. BV: Centre for Continuing Education

Centre for Continuing Education (CCE) functioning at this Institute is being monitored by the Institutional Program Implementation Unit (IPIU) consisting of Principal as President of the CCE, Manager, as convener and all the Heads of the Departments as committee members. The total amount of consultancy works and material testing executed during 2017-18, is Rs. **50,42,281/-.**

Item No. B VI: Faculty Publications (2017 – 2018)

The faculty of the Institute could publish 14 journal papers and 8 conference papers during the academic year 2017-2018. The details regarding the publications are included as Annexure I

Item No. BVII: Current status on PG programs accreditation

The PG programs in Chemical and Mechanical Engineering Departments are being readied for undergoing NBA accreditation in the current academic year 2018-19. The M.Tech. program in Applied Electronics Department shall proceed with NBA accreditation after the accreditation of B.Tech. in Electronics and Communication Engineering.

Part C

Item No. C1: Proposals for new faculty and staff development programs, Bridge and remedial classes for weak students and GATE coaching.

The Principal presented the proposals for the conduct of training programs for faculty / staff and coaching classes for the students.

The BOG suggested the following.

1. Present the outcome of GATE coaching/ Remedial/Bridge courses.
2. Justify/ conduct need analysis for faculty/staff development programs.
3. Constitute a sub-committee to evaluate the proposals for attending conferences. The faculty should give a feedback presentation in the college/ department after the conference. Attending well established conferences should be encouraged.
4. The BOG suggested to present the four-fund utilization for attending courses in the next meeting.

Item No. CII: Proposals for the maintenance and replacements of items purchased under TEQIP II

The BOG approved the following proposals for replacement of equipment.

Sl. No	Item	Expenditure (Rs.)
1	Replacement of UPS Battery in CCF	2,24,950/-
2	Replacement of UPS battery of FTIR in Chemical Engineering Dept.	14,600/-
3	Replacement of desktop computer in TEQIP office	35,000/-

Item No. CIII: Shifting to the new campus

The Principal presented the need for a larger campus for the Institute and informed that administrative sanction has been obtained for the same, by GO(Rt)No.1700/2018/H.Edn. dated Thiruvananthapuram 12.09.2018, for the purchase of 30.1019 acre land in Kakkodi village, 2 km distance from NH 66.

Part D: **Other Items**

The BOG approved the appointment of new TEQIP II coordinator, nodal officers and BOG Institutional member.

Approval for new TEQIP Coordinator and nodal officers

TEQIP Coordinator		: Dr. Gigi Sebastian
Nodal officers:	Finance	: Smt. Reshmi K M
	Academic	: Sri. Dileep Kumar P G
	IIIC	: Dr. Beula C
	Purchase	: Dr. Ushakumary E R
	Research	: Dr. Meenakshi K
New BOG institution nominee		: Dr. Sajith P P

Repair of Spectrophotometer in Chemistry department

The Agilent Spectrophotometer in Chemistry Department needs repair. The company has been asking for Rs.45000/- for inspection visit of the equipment. AMC for this equipment could not be executed as the rates quoted were above the state government norms.

The BOG suggested to explore the possibility of three year comprehensive AMC (Rs. 30000/- per annum) with free repair.

The meeting adjourned at 04.15 pm.

Annexure I

Faculty Publications (2017 – 2018)

Sl. No	Name of the Author/s	Title of the work	Name of the publication- Journal	Publication in conference
Chemical Engineering Department				
1	Rahul Krishna B Sajitha C M Baburaj T	Process Design for Fat Removal from Dairy Effluent by Cyclone Baffled Reactor and Potash Alum	International Journal of Innovative Research in Science, Engineering and Technology, Vol. 7, Issue 3, March 2018	
2	Nangarthody Sindhu, V.Sivasubramanian, Kadeejathul Kubra, Athira P, Inma M N, Haritha Subash	"2-D Simulation of Biomass Pyrolysis in Fluidised Bed",		Proceedings of First International Conference on Energy and Environment: Global Challenges (ICEE2018) NIT Calicut , March 09 &10, 2018, pp 62-63
Mechanical Engineering Department				
3	Dr. Anirudhan P	Natural Circulation in a Rectangular Loop with Vertical Heater below Vertical Cooler	KERNTECHNIK (Germany) 83/1/28-35/2018	
4	Dr. Anirudhan P	Wear 9eighbour of Friction Stir Processed NAB alloys in Marine Environment	Japanese Society of Tribologists 13/3/75-80/2018	
5	Dr. Sreejith B.	Numerical and experimental study on a modified Savonius rotor with guide blades	International Journal of Green Energy, 2018 (Accepted for publication)	
6	Dr. Sreejith B.	Modification of parabolic trough concentrator and its exergy analysis		Proceedings of the International Conference on Progressive Developments in Mechanical Engineering (PDME 2018)
7	Prof. Prajeeth Kumar K. P.	Investigation on Tire Pyrolysis Oil (TPO) as a fuel for Cook Stove and Lamps		IOP Conf. Series: Materials Science and Engineering 376 (2018) 012036
8	Pramode Das K.	A suboptimal proportional-integral-differential (PID) control of vortex shedding behind a circular cylinder		Indian Conference on Applied Mechanics, IIT Madras, India
9	Pramode Das K.	Energetically efficient suboptimal control of vortex shedding using Van der Pol oscillator	Communicated to Computers and Fluids	
10	Dr. Jithesh P. K.	Experimental study on self-humidified operation in PEM fuel cells	Sustainable Energy Technologies and Assessments, 27 (2018), pp.17-22	

Electronics Department				
11	B.S. Shajee Mohan [along with C.Chandra Sekhar]	Distance Metric Learning-based Kernel Gram Matrix learning for Pattern Analysis Tasks in Kernel Feature Space .	Journal of Pattern analysis and applications, Springer–Verlag, December, pp1-21,2017,(DOI10.1007/s10044-017-0670-3)	
12	B.S. Shajee Mohan [along with C.Chandra Sekhar]	Distance Matric Learnt kernels based SVMs for Semi-Supervised Pattern Classification		Ninth International Conference on Advances in Pattern Recognition, Indian Statistical Institute, Bangaluru, India, ICAPR-2107, December 27-30, 2017
13	Abdu Rahiman V, Sudhish K George	Single image super resolution using Neighbour embedding and statistical prediction model	Elsevier journal Computers and Electrical Engineering	
14	Agnes Jacob	Modelling speech emotion recognition using logistic regression and decision trees	International Journal of Speech Technology (2017)20:897-905; DOI 10.1007/s10772-017-9457-6	
15	Bindima T, Elizabeth Elias	Design and Implementation of Low Complexity 2D Variable Digital FIR Filters Using Single parameter Tunable 2D Farrow structures	IEEE Transactions on circuits and systems-1: Regular Papers,Vol.65,No.2,Feb 2018	
16	Bindima T, Elizabeth Elias	Design of reconfigurable directional filters using McClellan transformation and spectral approximation in 2D space		2017 IEEE 30th Canadian conference on Electrical and Computer Engineering(CCECE),Windsor Canada
17	Bindima T, Elizabeth Elias	Low complexity Fan Filters Using Multi-objective Artificial Bee Colony Optimization Aided McClellan Transformation for Directional Filtering	Accepted for publication in IEEE Transactions on Circuits and Systems II: Express Briefs	
18	Neha Surendran, Ahammed Muneer K V	Multistage Classification of Alzheimer's Disease	International Journal of Latest Technology in Engineering, Management and Applied Science (IJLTEMAS), Vol.6, Issue 12, December 2017.	
19	Deepak K S Anchare V. Babu	Improving Reliability of Emergency Data Frame Transmisssion in IEEE 802.15.6 Wireless Body Area Networks	IEEE Systems Journal	

20	Sunny T D Rachel Rajan	Improving classification performance by combining feature vectors with a boosting approach for Brain Computer Interface (Binary Classification)		2nd International Conference on Biomedical Imaging, Signal processing (ICBSP 2017), New Jersey, USA, October 2017, ACM Library
21	Ahammed Muneer K V, Paul Joseph K	Performance Evaluation of combined k-Means and Fuzzy C-Means Segmentation of MR Brain Images	DOI: 10.1007/978-3-319-71767-8_71, In book: Computational Vision and Bio Inspired Computing, January 2018	
22	Sunny T D Rachel Rajan	Improving classification performance by combining feature vectors with a boosting approach for Brain Computer Interface (Multi Class Classification)		9th International Conference on Intelligent Human Computer Interaction, Evry, Paris, France, Dec 2017, LNCS Springer