

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME,  
PHASE II**

**Sub Component 1.1: Strengthening institutions to improve learning outcomes and  
employability of Graduates**



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

**Date: 17<sup>th</sup> June 2016**

**Time: 10.30 AM**

**Venue: Conference Hall, College of Engineering Adoor**

**AGENDA NOTE**



**COLLEGE OF ENGINEERING ADOOR**

**Manakkala PO, Adoor**

**PIN : 691551**

# Agenda at a glance

## Background:

The meeting of Board of Governors is convened regularly to monitor the progress of TEQIP-II activities at CE Adoor, under Sub component 1.1, with emphasis to procurement and academic activities, and to accord necessary approvals and clearances for the ongoing activities. The 9th meeting of the BOG is to be convened on 17<sup>th</sup> June 2016.

The agenda of the meeting is as follows

## Part 1-Procedural

Item No	Item	Page No
1.1	Confirmation of the minutes of the 8 <sup>th</sup> meeting of the BoG held on 12.01.2016	4
1.2	Action taken on the minutes of the 8 <sup>th</sup> meeting of the BoG held on 12.01.2016	4

## Part 2-Ratifications and Approvals

Item No	Item	Page No
2.1	Ratification of the ITSS proposals submitted by Sri. Manu M John and Sri. Madhu A K.	5
2.2	Ratification of the revisions made in the procurement Plan	6
2.3	Approval for procurement of goods against the interest earned on principal amount received	9
2.4	Ratification of the honorarium paid for subject experts from IIT/IISc for FDP and Expert lectures	12

2.5	Ratification of the action taken by the principal in seeking the services of a supervisor for overseeing civil works under TEQIP-II.	15
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### **Part 3 – Reports**

<b>Item No</b>	<b>Item</b>	<b>Page No</b>
3.1	Fund Utilization Report	15
3.2	Report of the progress made in the various activities envisaged in TEQIP Phase II, since the last meeting of the Board of Governors on 12/01/2016	16
3.2.1	Procurement Status	16
3.2.2	Academic Activities	17
3.2.3	Teaching and Research Assistantships	22
3.2.4	Finishing School [Soft Skill Training/student support programs]	22
3.2.5	Accreditation Status	25

### **Part 4 - Any other item with the permission of the chair**

<b>Item No</b>	<b>Item</b>	<b>Page No</b>
4.1	Other Items	25

### **Part 5 – Annexure**

<b>Annexure No</b>	<b>Item</b>	<b>Page No</b>
I	Minutes of 8th BOG held on 12/01/2016	26

# Part 1-Procedural

## 1.1 Confirmation of the minutes of the 8<sup>th</sup> meeting of the BoG held on 12/01/2016.

Minutes of the 8<sup>th</sup> meeting of the Board of Governors held on 12<sup>th</sup> January 2016 have to be circulated to the members subsequent to the meeting under approval from the Chairman. Minutes are also included herewith as **Annexure I**. The board is requested to confirm the minutes.

**Action sought:** BoG may consider the Minutes for approval.

## 1.2 Action taken on the minutes of the 8<sup>th</sup> meeting of the BoG held on 12/01/2016.

The decisions taken by the Board as recorded in the Minutes of the 8<sup>th</sup> Meeting of the Board of Governors of the TEQIP Phase II held on 12.01.2016 have been noted and actions have been initiated. A report on the action taken and actions pending is presented in the Table 1.2.1 given below

SI No	Decisions Taken	Action Taken
1	The academic plan for the remaining period was approved.	<ol style="list-style-type: none"><li>1. Conducted <b>6</b> STTPs (Two 5 day programs and Four 3 day programs)</li><li>2. <b>Forty faculty</b> members attended external training.</li><li>3. <b>Two</b> staff development programs (SDPs) were conducted and <b>four</b> members of the technical staff attended external training programs.</li><li>4. <b>Thirteen</b> faculty members attended pedagogical training at IIT Madras.</li><li>5. <b>Fourteen expert talks</b> and three workshops were arranged for students.</li></ol>

2	The proposals for the conduct of conferences were approved.	The notification calling for abstracts for the <b>National Conference on Heat Transfer, Fluid Dynamics and Propulsion</b> were circulated. The deadline for the submission of abstracts is <b>11/7/2016</b> . The conference is scheduled on <b>6-8 October 2016</b> .
3	Directed to obtain prior sanction from the honorable Chairman, BoG for disbursing honorarium of Rs 5000/- to resource persons from IIT/IISc and other reputed institutions.	Prior sanction was obtained before disbursing honorarium of Rs 5000/- to resource persons from reputed institutions who delivered lectures in FDPs/workshops/expert talks since the last meeting of the BoG.

## Part 2-Ratifications and Approvals

### 2.1 Ratification of the ITSS proposals submitted by Sri. Manu M John and Sri. Madhu A K.

Proposals were submitted by Sri. Manu M John and Sri. Madhu A K, Assistant Professors in Mechanical Engineering Department, College of Engineering Adoor seeking financial support through the ITSS of TEQIP – II for attending and presenting a research paper at the **18<sup>th</sup> International Conference on Spacecraft technologies and Aerodynamic forces (ICSCAF-2016, 8-9-August 2016), Seattle, USA**, and **ASME – Summer Heat Transfer Conference 2016 (SHTC 2016, 10-14 July 2016), Washington DC, USA** respectively. As per the guidelines for ITSS existed at time of submitting the ITSS proposal, the proposals were scrutinized by an internal scrutiny committee consisting of senior faculty members on 30-05-2016 and subsequently screened by an external screening committee on 03-06-2016. The minutes of both the committees are enclosed along with the proposals.

A revised set of guidelines for ITSS is communicated to the project institutions from NPIU through e-mail dated 6th June 2016. The revised guidelines restricted international travel to those intended only for invited talks and plenary talks in

international conferences. Through a subsequent email, dated 10th June 2016, SPFU Director informed that permission may be granted to already approved cases of ITSS. However, for the fresh proposals, new guidelines are to be followed.

**Action Sought:** The ITSS proposals of Sri. Manu M John and Sri. Madhu A K has obtained the approval of BoG Chairman before the new guidelines came into effect. In these circumstances, BOG may kindly ratify and approve the proposals for ITSS.

## 2.2 Ratification of the revisions made in the procurement Plan

The institutional procurement plan is revised with the following changes.

### a. New Packages added

Sl No	Name of the package	Package Details	Method of procurement	Estimated cost	Reason for procurement
1	ASME e-journal 2016 subscription renewal	Renewal of subscription to 26 ASME e-Journals of Mechanical Engineering for the year 2016	Direct Contract	Rs. 1,70,000	The annual subscription ended in December 2015
2	Elsevier e-journal 2016 subscription renewal	Renewal of subscription of 275 Elsevier e-Journals of Engineering and Computer Science for the year 2016	Direct Contract	Rs. 4,90,000	The annual subscription ended in December 2015
3	IEEE e-journal Subscription Renewal 2016	Renewal of subscription of 145 IEEE e-Journals of Electrical & Electronics, Telecommunication and Computer Science for the year 2016	Direct Contract	Rs.3,95,000	The annual subscription ended in December 2015
4	J- Gate e-journal Subscription Renewal 2016	Subscription to J-Gate e-journals (Access to 8200 indexed and 4500 Full text of Electrical /Civil/IT/CS) for the year 2016	Direct Contract	Rs.70000/	The annual subscription ended in December 2015
5	ASTM	Subscription to ASTM digital library ( Access to	Direct	Rs. 75000	The annual subscriptio

	e- journal Subscription Renewal 2016	1500+e-books 17000+articles from 8 journals)	Contract		n ended in December 2015
4	Desktops for ME department	Two Numbers. Monitor And Desktop; Acer desktop i3 4150/4GB/500GB/DVD	Direct Contract	Rs. 80,850	New requirement from department of ME by HOD ME for department office work.
5	Digital Multifunctional Copier machine	Digital Multifunctional Color Copier Size A3 (2no)	Direct Contract	Rs.3,71,322	This package is included as per the requirement submitted from the examination cell. These high speed copier machines are highly essential for the smooth conduct of KTU examinations.
6	Platforms & lecture stand	This package includes 1. Wooden platform (6nos) 2. Lecture stands (6nos)	Shopping	Rs.2,10,000	This package is added as a new institutional requirement.
7	Laboratory Hot plate & Autotransformer	This package includes the following items 1. Rectangular Hot	Direct contract	Rs.21,800	This package is included as per the new

		<p>plate ( 1 No)</p> <p>2. Autotransformer ( 1 No)</p>			<p>requirement received from ME Dept. This is for improving the infrastructure available for research activities in the Advanced Thermal &amp; Fluid Research Lab</p>
8	Computer Accessories	<p>1. Desktop Monitor (1No)</p> <p>2. Wireless access point ( 2 nos)</p>	Direct contract	Rs.20,000	<p>To strengthen wifi internet access in the college main building premises.</p> <p>Desktop monitor is as per the request received from HOD EC Dept.</p>

**b. Packages Cancelled**

SI No	Name of the package	Method of procurement	Estimated cost	Reasons for cancellation
1	Campus Networking package	Shopping	Rs.2,47,500	Quotation submitted was not satisfied to specifications.



**Action Sought:** The BOG may kindly ratify the revisions made in the Procurement Plan.

### **2.3 Approval for procurement of goods against the interest earned on the principal amount received.**

The NPIU, through e-mail dated 28th Jan 2016, have informed that Financial Management Manual page No. 9 (point No. 3.3) permits the utilization of the interest income generated by CFIs/State institutes/SPFUs out of the advances provided by MHRD/State on project related activities. However, the expenditure should be made as per the procurement and Financial Management rules associated with that expenditure.

The Institutional procurement committee has recommended the inclusion of the following packages in the Institutional Procurement plan using 55% of the interest earned that can be allotted for the procurement.

#### **New Packages added**

<b>Sl No</b>	<b>Name of the package</b>	<b>Description of the package</b>	<b>Method of procurement</b>	<b>Estimated cost</b>	<b>Justification for the proposal</b>
1	Campus Surveillance System	This package includes the installation of 32 IR bullet cameras & 9 IR dome cameras at different locations in administrative & workshop buildings. In addition to the IR cameras, the package also includes a 64 channel DVR (1no), Hard Disc ( 4nos), 4port switch (4nos), 5port POE switch (3 nos), 8port POE switch(5nos), Camera installation up to 45 meter wiring including materials ( medium pipe, CAT6 cable , cat6 jack accessories)	Shopping	500,800	This package is added as a new institutional requirement . It is mandatory as per the guidelines to install campus surveillance system in the academic institutions.
2	Campus Management	Campus automation software with academic module, student, staff management, accounting etc modules	Shopping	250,000	This package is added as a

	Software				new institutional requirement . This software is very essential for smooth functioning & monitoring of different academic and administrative activities in the institution.
3	Muffle Furnace	This package includes one muffle furnace ( Max temperature: 1000 deg C, chamber size: 6” x 6” x 12”)	Direct Contract	31,500	This package is included as per the new requirement received from ME Dept. This is for improving the infrastructure available for research activities in the Advanced Thermal & Fluid Research Lab
4	Ball Mill	This package includes Ball Mill ( 1no)- Capacity: 1 kG, SS Jar, Speed: 80rpm	Direct Contract	41,000	This package is included as per the new requirement received from ME Dept. This

					is for improving the infrastructure available for research activities in the Advanced Thermal & Fluid Research Lab
5	Measuring Instruments for Advanced Electrical Engineering Lab	PH meter(1) ,Pressure meter(1), Tachometer (1no)	Direct Contract	36,532	This package is included as per the new requirement received from EEE Dept. This is for improving the infrastructure available in the Advanced Electrical Engineering Lab
6	Thermal Cyclic Chamber	This package includes Thermal Cyclic Chamber( 1no) Chamber size: 45 cm x 45 cm x45 cm Temperature range : ambient to 300 deg C	Shopping	80,000	This package is included as per the new requirement received from ME Dept. This is for improving the infrastructure available for research activities in the

					Advanced Thermal & Fluid Research Lab
7	Multi channel Data Logger	<p>The package includes</p> <p>Multi channel Data Logger</p> <p>Types of Input: Thermocouple, RTD Temperature measurements, thermister, ac voltage, dc voltage, ac current, dc current, frequency. Display Resolution: 6.5 Digits DMM</p> <p>Number of channels: minimum 20 channel</p> <p>Channel Scan rate: 45 channels/second basic dc scan rate</p> <p>Scaling and alarms for each channel</p> <p>Data Logging software</p> <p>1Gbit LAN and USB 2.0 for connectivity to the PC</p> <p>USB Memory interface for data transfer and storage ( 1 No)</p> <p>Armature Multiflexure module(2 No) – 20 channel</p>			This package is included as per the new requirement received from ME Dept. This is for improving the infrastructure available for research activities in the Advanced Thermal & Fluid Research Lab

**Action Sought:** The BOG may kindly grant permission for the utilization of the interest earned for the project activities and the purchase of the packages detailed above using the fraction of the interest that can be allocated for procurement.

## **2.4 Ratification of the honorarium paid to the subject experts from IIT/IISc for faculty development program and expert lectures**

As per BOG's direction prior sanction was obtained from the Honorable Chairman, Prof. T I Eldho for disbursing honorarium to subject experts from IIT/IISc for the conduct of academic activities given below at a rate of Rs 5000/- per day.

- a. The Subject experts from IIT /IISc and IIST who delivered lectures in the faculty development program "Recent Trends in Digital Image Processing" from 06th to 08th January 2016 were given honorarium of Rs.5000/- per day.

Sl no	Name & Designation of Subject Expert	Organization
1	Dr. Tony Jacob , Assistant Professor	IIT Guwahati

- b. The Subject experts from IIT /IISc and IIST who delivered lectures in the faculty development program “State- of -the art of solar energy Technologies” from 22th to 26th February 2016 were given honorarium of Rs.5000/- per day.

Sl no	Name & Designation of Subject Expert	Organization
1	Dr. S Jayaraj , Professor	NIT Calicut
2	Dr. Satvasheel Powar, Assistant Professor	IIT Mandi
3	Dr. K Srinivas Reddy, Professor	IIT Madras
4	Dr. Dibakar Rakshit, Assistant Professor	IIT Delhi
5	Dr. A Mani, Professor	IIT Madras
6	Mr. Sudhir K Singh, Director (Solar Thermal)	National Institute of Solar Energy , Ministry of New and Renewable Energy (MNRE)

- c. The Subject experts from IIT /IISc and IIST who delivered lectures in the faculty development program “Aerospace Engineering –Theory and Applications” from 18th to 23th March 2016 were given honorarium of Rs.5000/- per day.

Sl no	Name & Designation of Subject Expert	Organization
1	Dr. Praveen Nair, Head, CFD Section	VSSC, Trivandrum
2	Dr. Ashoke De, Assistant Professor	IIT Kanpur

3	Dr. Jasperlal, Group Head	VSSC, Trivandrum
4	Mr. Ajith B, Sc/Er, VSSc, SPED	VSSC, Trivandrum
5	Mr. Fazil Mohammed, Sc/Er	VSSC, Trivandrum
6	Mr. C Venkatesan, Professor & Former Head	IIT Kanpur
7	Dr. Shine S R, Assistant Professor	IIST, Trivandrum

d. The Subject experts from IIT /IISc and IIST who delivered lectures in the faculty development program “Advanced Composite Materials and Applications” from 06th to 08th April 2016 were given honorarium of Rs.5000/- per day.

Sl no	Name & Designation of Subject Expert	Organization
1	Dr. M R Bhat, Chief Research Scientist	IISc, Bangalore
2	Dr. K M Gupta, Rtd Professor	Motilal Nehru NIT, Allahabad (Visiting Professor)

e. The Subject experts from IIT /IISc and IIST who delivered expert lectures for students were given honorarium of Rs.5000/- per day.

Sl No	Date	Expert Name	Topic
1	06-02-2016	Dr.Chakravarthy Balaji, Professor, Dept of ME, IIT Madras	“Engineering- Man’s Crowning Glory & design in Nature & Engineering”
2	24-02-2016	Dr. John Philip Professor, Homi-Bhabha National Institute (HBNI)	"Smart Materials"

		SO/H, Head, SMARTS & RTS, Metallurgy and Materials Group, Indira Gandhi Centre for Atomic Research, Kalpak am	
3	03-03-2016	Dr. P.M.V Subbarao Associate Dean, Hostel Management Professor, Mechanical Engineering Department IIT Delhi	"Development of HCCI Engines: A new concept for automobiles"
4	08-03-2016	Dr. T Asokan Professor, Department of Engineering Design IIT Madras	"Autonomous Robots: Design & Control"

## **2.5 Ratification of the action taken by the principal in seeking the services of a supervisor for overseeing civil works under TEQIP-II.**

As per the instructions of the 7th BoG meeting, the Principal has requested the services of a demonstrator in civil engineering for supervising the ongoing civil works under TEQIP II, to the nearby Government Polytechnic College Manakkala. The Principal Government Polytechnic College Manakkala has extended the service of a Demonstrator in civil engineering for the purpose.

**Action sought:** It is requested to ratify the action taken by the Principal College of Engineering Adoor and an honorarium of Rs 410/day may be sanctioned, as it is equal to the per day wage of temporary staff at demonstrator level paid in this institution as per orders of the Director, IHRD.

# Part 3 Reports

## 3.1 Fund utilization Report

The Fund utilization status for the allotted 550 Lakh is presented in table given below.

No	Activity/Category of Expenditure	Total Budget Provision out of Rs. 1000 Lakh	Amount spent as on last BOG (31/12/15)	Amount spent till (31/05/16)	Improvements from last BOG
<b>1</b>	<b>Improvement in teaching, training and learning facilities</b>	<b>Lakh</b>	<b>Lakh</b>	<b>Lakh</b>	<b>Lakh</b>
(a)	Expenditure on ICT enabled learning, related software & hardware.	<b>550.00</b>	<b>33.94425</b>	<b>33.94425</b>	<b>0</b>
(b)	Expenditure on New laboratory for new PG programs		<b>0</b>	<b>0</b>	<b>0</b>
(c)	Expenditure on New laboratory for existing PG programs		<b>57.59036</b>	<b>57.59036</b>	<b>0</b>
(d)	Expenditure on Existing laboratories modernized/strengthened		<b>268.42244</b>	<b>276.04275</b>	<b>7.62031</b>
(e)	Expenditure on Library i.e. books, e-books, journals, e-journals and course specific software		<b>66.55551</b>	<b>66.55551</b>	<b>0</b>
(f)	Expenditure on membership of online journals & consortium		<b>0</b>	<b>0</b>	<b>0</b>
(g)	Expenditure on digitally/virtually accessible courses/subjects		<b>0</b>	<b>0</b>	<b>0</b>
(h)	Expenditure on Modernizing Classrooms		<b>7.94891</b>	<b>7.94891</b>	<b>0</b>
(i)	Expenditure on Procurement of Equipments etc. for Institutes/ TEQIP unit.		<b>75.31501</b>	<b>82.93871</b>	<b>7.6237</b>
(j)	Expenditure on Civil Work		<b>0</b>	<b>0</b>	<b>0</b>
(k)	Others. (Specify if Material)		<b>0</b>	<b>0</b>	<b>0</b>
<b>Sub Total</b>			<b>509.77648</b>	<b>525.02049</b>	<b>15.24401</b>
<b>2</b>	Providing Assistantship for increased enrolment in existing and new PG	<b>100.00</b>	<b>39.08129</b>	<b>48.28129</b>	<b>9.2</b>
<b>3</b>	Enhancement of R&D and Institutional Consultancy activities	<b>20.00</b>	<b>1.09890</b>	<b>1.46435</b>	<b>0.36545</b>
<b>4</b>	Faculty and Staff Development (FSD)	<b>100.00</b>	<b>17.70619</b>	<b>45.92317</b>	<b>28.21698</b>
<b>5</b>	Enhanced Interaction with Industry	<b>40.00</b>	<b>1.86585</b>	<b>3.94759</b>	<b>2.08174</b>
<b>6</b>	Institutional Management Capacity Enhancement	<b>30.00</b>	<b>2.28294</b>	<b>2.28294</b>	<b>0</b>
<b>7</b>	Academic Reforms	<b>20.00</b>	<b>11.50330</b>	<b>11.50330</b>	<b>0</b>



8	Academic Support for weak students	40.00	4.88669	6.11014	1.22345
9	Incremental Operating Cost	100.00	32.65945	37.46773	4.80828
<b>TOTAL</b>		<b>1000.00</b>	<b>620.86109</b>	<b>682.00100</b>	<b>61.13991</b>

### 3.2 Report of the progress made in the various activities envisaged in TEQIP Phase II, since the last meeting of the Board of Governors on 12/01/2016

#### 3.2.1 Procurement status

The summary of the procurement activity is as given below.

Sl. No	Procurement Status	No of packages	Amount ( Rs in Lakh)
1	Procurement Completed	145	528,82,946
2.	Packages Committed	4	21,08,122
3.	Purchase order not finalized	-	-
4	Packages not initiated	-	-
<b>Total</b>		<b>149</b>	<b>549,91,068</b>

#### 3.2.2 Academic activities

##### 1. *In-house training programs-subject domain*

Sl No	Particulars	Department	Coordinator(s)	Dates	No of Days	Expenditure
1	<b>STTP-</b> Next Generation telecommunication network – design & implementation strategies	EEE	Suma Jacob Shaema Lizbeth Mathew Reeja Thankachan	03-05 February 2016	3	47,895
2	<b>Workshop -</b> Introductory Workshop on Graphs & Computational number theory	CSE	Jayaram K Suchithra Chandra Sekharan Manju J	15- 16 February 2016	3	38,055

3	<b>STTP-</b> State of the art of solar energy technologies	ME	Madhu A K Sajomon Mathew Jesto Thomas	22-26 February 2016	5	2,40,323
4	<b>STTP-</b> Aerospace Engineering-Theory & Applications	ME	Manu M John Vaisakh G Krishnan Vaisakh R	18-23 March 2016	5	1,93,113
5	<b>STTP-</b> Mathematical Applications in Engineering	AS	Jalaja MB Sajeevan M	29-31 March 2016	3	60,134
6	<b>STTP-</b> Advanced Composite Materials & Applications	ME	Madhu A K Alexy Z Puthenparampil Sarath S	6-8 April 2016	3	Not settled

## 2. In-house Staff Development Programs

Sl No	Particulars	Department	Coordinator(s)	Dates	No of Days	Expenditure
1	<b>Workshop-</b> Advanced welding technologies and NDT technologies	ME	Jayan M C Radhakrishnan M S	28-29 January 2016	2	25,155
2	<b>Workshop-</b> A Glimpse in to the design & implementation of Electronics Hardware Resources	ECE	Raji A	10-12 February 2016	2	38,290

## 3. External training program in Subject Domain –Faculty

Sl No	Name of the faculty	Dept	Nature of the program	Training Program	Date	No of days	Organizing Institute/orga nization
1	<b>Suchithra Chandrasekheran</b>	CS	STTP	Design and Engineering	<b>29-30 December 2015</b>	2	LBS Institute of Technology for Women Trivandrum
2	<b>Binulal B R</b>	ME	Workshop	English for writing Ph.D Thesis and Journal papers	<b>20 – 22 January 2016</b>	2	NIT Trichy
3	<b>Dr. John George</b>	EEE	Symposium	Symposium on	<b>22– 23</b>	2	TLC, IIT

4	Dr. Jayachandran E S	ECE		teaching learning	January 2016		Madras
5	Manu M John	ME	STTP	Part Modeling, Assembly modeling and Production drawing for Engineers & Designers	25 – 27 January 2016	3	IIT, Mandi
6	Binulal B R	ME	STTP	Advanced Process Control	10 – 12 February 2016	3	IIT, Guwahati
7	Dr. Jayachandran E S	ECE					
8	Manju J	CSE	STTP	Computer Vision – Techniques and applications	17-19 march 2016	3	College of Engineering karunagappally
9	Bini P	ECE	STTP	Recent Advances & Developments in communication systems	4-16 April 2016	12	College of Engineering Perumon
10	Alezy Z Puthenparampil	ME	Workshop	Recent Advances in Computing	18-22 April 2016	5	IHRD
11	Vyshak R	ME					
12	Anoop R	ME					
13	Sajomon Mathew	ME					
14	Suchithra Chandrasekharan	CSE					
15	Aparna L Raj	CSE					
16	Chithra Raveendran	ECE					
17	Nyayana S	ECE					
18	Remya Krishna C	ECE					
19	Ramkumar S	ME	Workshop	Advanced Linux Administration	18-22 April	5	IHRD
20	Akhil R	ME					

21	Lekshmi Senilin	EEE			2016		
22	Aarsha S	EEE					
23	Sharon D Ronald	EEE					
24	Soumya J V	ECE					
25	Radhika M J	ECE					
26	Shehna Jaleel	ECE					
27	Rani Rajendran	ECE					
28	Manju J	CSE					
29	Bincy N Rahad	CSE					
30	Lekshmi Senilin	EEE					
31	Bharath G R	EEE					
32	Shaema Lizbeth Mathew	EEE					
33	Krishandas G	AS	Workshop	Control and Optimization Technique – An Engineering Approach	25-29 April 2016	5	IHRD
34	Jesto Thomas	ME					
35	Dains K John	ME					
36	Anuradh T R	ME					
37	Anoop S	ECE					
38	Harikumar T	ECE					
39	Preethimol Selastin	ECE					
40	Gopika Syam	ECE					
41	Shehna Jaleel	ECE	Workshop	Advances in Automation and Computing	25-29 April 2016	5	IHRD
42	Ajeesh S	CSE					
43	Syama S R	CSE					
44	Madhu AK	ME					
45	Jalaja MB	AS					

46	Syama S R	CSE	STTP	Python Programming	2-6 May 2016	5	IITM-K Trivandrum
47	Sreedeepea H S						

#### 4. External Pedagogical training programs

Sl No	Name of the faculty	Dept	Training Program	Date	No of days	Organizing Institute/orga nization
1	Girija V R	CSE	Pedagogical training program	18 <sup>th</sup> to 20 <sup>th</sup> January 2016	3	IIT Madras
2	Jalaja M B	AS				
3	Girija M G	ECE				
4	Vinayak AS	ME				
5	Anooj T James	ME				
6	Manju J	CSE	Pedagogical training program	25 <sup>th</sup> to 27 <sup>th</sup> February 2016	3	IIT Madras
7	Sharon D Ronald	EEE				
8	Aarsha S	EEE				
9	Reshma Gopinath	ECE				
10	Harikumar T	ECE	Pedagogical training program	10 <sup>th</sup> to 12 <sup>th</sup> March 2016	3	IIT Madras
11	Vibesh V Panicker	ECE				
12	Anoop S	ECE				
13	Jayaram K	CSE				

#### 5. External training Program –Staff

Sl No	Name of the Staff	Nature of the program	Training Program	Date	No of days	Organizing Institute/orga nization
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1	Baby John	Workshop	Automated Accounted System using Tally.ERP9 Solution	21 <sup>th</sup> – 23 <sup>rd</sup> January 2016	3	College of Engineering Karunagappally
2	K.Viswamohanan Pillai					
3	Biji Varghese	Workshop	Research Skills & methods	19 <sup>th</sup> - 21 <sup>th</sup> February 2016	3	IIT, Kanpur
4	Biji Varghese	Workshop	Patents and Intellectual Property Rights	4 <sup>th</sup> - 5 <sup>th</sup> March 2016	2	NIT, Goa

### 3.2.3 Teaching and research assistantships

Total number of students availing Teaching Assistantship --- **23**  
**[14 students from 2014-16 batch and 09 from 2015-17 batch]**

Total amount disbursed as on 30/04/2016 (in Rs) --- **Rs. 45, 72,129/-** [The students receive **Rs 8000/-** per month]

### 3.2.4 Finishing School [Student support programmes]

#### Student Support Programmes – Industry Institute Interaction

##### 1. Expert Talks

Sln o	Title	Date	Coordinator	Beneficiaries	Expenditure in Rs.
1	<b>Incubation and Product Design</b> – Expert talk to students, Dr. Amaresh Chakrabarti, Associate Prof., IIS Bangalore	16th January 2016	Venkitaraj K P	7th Semester – 95 students (46 ME, 11 EEE, 4 faculty, 34 external students)	35,133
2	<b>Motivation to IEEE (Empower)</b> – To motivate the 2 <sup>nd</sup> year students, Dr. Nisha Kuruvilla, Associate Professor, CE Chengannur	21st January 2016	Raji A	4 <sup>th</sup> Semester Students – 172 students (48 CS, 46 EEE, 73 EC, 5 ME)	6,901
3	<b>Internet of Things</b> - To enhance the IOT knowledge of the students of IEEE, Satish Babu, President and Co-founder InAPP, IEEE Kerala	22 January 2016	Raji A	All semester students – 46 students (23 EEE, 7 ME, 9 CS, 7 EC)	5,729

	Section				
4	<b>Hardware modeling with VHDL</b> – To equip pre final year students with the theoretical & Practical concept of hardware modeling leading to the easy implementation of final year project, Prof. Jagadeesh Kumar P, Assistant Prof., MEC Ernakulam	22-23 January 2016	Shan N	ECE Students – 40 students	15,708
5	<b>Slum dog Millionaire</b> – To ensure the knowledge of students, Geo Jolly, Micro soft students partner	29 January 2016	Raji A	All branches Students – 72 students (10 CS, 19 EC, 14 EEE, 29 ME)	2,899
6	<b>Orientation of IEEE to first year students</b> – To aware the 1 <sup>st</sup> year students about IEEE, its benefits, importance of IEEE in KTU Syllabus etc., Jai Nair, IEEE Kerala Section (Employee Techno Park)	30 January 2016	Raji A	1 <sup>st</sup> Semester Students – 255 students (47 CS,44 EEE, 77 EC, 87 ME)	8,589
7	<b>Engineering- Man’s Crowning Glory &amp; design in Nature &amp; Engineering</b> – Motivational talk for students to appreciate Engineering and the role of Design in Engineering, Dr. Chakravarthy Balaji, Prof. Dept. of ME, IIT Madras (IISc Bangalore)	02 February 2016	Madhu A K	1 <sup>st</sup> Semester Students – 246 students (121ME students, 42EEE students, 51 EC students,32 students )	35,225
8	<b>Smart materials</b> – To create awareness in the area of smart materials for faculty, Students & research areas, John Philip, Professor, Homi Bhabha National Institute, Kalpakkam	24 February 2016	Manu M John	ALL ME Students – 230 students	31,051
9	<b>Open Source Hardware</b> – To equip the interested students in the details of open source hardware, Shahim Baker, Director, Grey Technolab, Ernakulam	25 February 2016	Raji A	All branches – 36 students (22 CS, 6 EC,7 EEE, 1 ME)	5,264
10	<b>Control System in Power Generation and SCADA</b> – To understand the control system and Automation in power Generation part, G. Muraleedharan & Sabulsi M K, Assistant Engineer, Sabarigiri Hydro Electric Power Generation, Moozhiyar	29 February 2016	Anu P	S8 EEE Students – 57 students	14,719
11	<b>Development of HCCI Engineers- a new concept of engines for automobiles</b> – To get exposed to a new R&D area in the field of Automobile Industry, Dr. P M V Subbarao, IIT, Delhi	3 march 2016	Lasithan L G	ME Students – 70 students	31,467
12	<b>Autonomous Robotics: Design and</b>	8 march	Venkitaraj K	4 <sup>th</sup> Semester ME	21,412

	<b>Control</b> –To get expert to R&D Developments in robotic industry, Dr. T Asokan, Professor, IIT, Madras	2016	P	students & faculty– 73 Students (60 ME students, 13 faculty)	
13	<b>Fundamentals of Electrical drawing</b> , By Jain George, Professor	8 march 2016	Reeja Thankachan	Semester 6 EEE students	9,983
14	<b>Re-member-</b> to encourage the Entrepreneurship Activities, By Ajmal Salim, USA	28 march 2016	Lasithan L G	All students	5,480

## 2. Workshops

Slno	Title	Date	Coordinator	Beneficiaries	Expenditure in Rs.
1	<b>Python for Raspberry Pi</b> – To equip the final year students who are doing project on Raspberry Pi, Nikhil Chandran, System Architect, Arunima S Kumar & Madona Raichel, Technical Consultant, TiltLabs rivandrum	12-13 January 2016	Raji A & Remya Krishna	Final year ECE students – 31 students	25,110
2	<b>Migrating OOP with Java Technology</b> – Students Programming skill improvement programme, Sooraj S, Chief Mobile Application Developer, Anish S Nair, Chief Software Engineer in R&D, Logix Space Technology	22-23 January 2016	Jayaram K	CSE Students – 35 students	15,095
3	<b>Entrepreneurship Roller Coaster</b> –An Entrepreneurship training programme for students, Reji Thomas Mathew, Senior Manager, IBS, Techno Park	16 February 2016	Lasithan L G	All Students – 53 students (24 EC, 20 ME, 7 CS, 2 EEE)	11,282

## 3. Soft Skill Training

Slno	Title	Date	Coordinator	Beneficiaries	Expenditure
1	Quantitative Aptitude Training program	25-29 April 2016	Vibesh V Panicker	6 <sup>th</sup> Semester 6ECEB and CSE Students	75,663
2	Quantitative Aptitude Training program	03-07 May 2016	Vibesh V Panicker	6 <sup>th</sup> Semester ECEA and EEE Students	75,505



### **3.2.5 Accreditation Status**

e-SAR uploaded on 19<sup>th</sup> January 2016. As per the email communication from NBA, dated 8<sup>th</sup> June 2016, we are asked to update the e-SAR and resubmit the same to NBA. As per the direction, we are initiated steps to resubmit the e-SAR.

## **Part 4**

### **Any other matter with the permission of the Chair**

# Part 5

## Annexure

### ANNEXURE I

### COLLEGE OF ENGINEERING ADOOR

#### Minutes of Eighth Meeting of Board of Governors

Presided by  
**Hon'ble Chairman: Prof. ELDHO T I**

**Venue: Conference Hall, College of Engineering Adoor**

**Date: 12 January 2016 Time: 11.00 A.M**

#### **Members Present**

1. Prof. Eldho T I, Chairman , BOG
2. Dr. V. Gopakumar, Director, TEQIP (Special invitee)
3. Sri. M Sherif, Addl Sec., H.Edn, Government of Kerala (State Govt. Nominee)
4. Sri. James Joseph, Joint. Sec. Finance, Government of Kerala (State Govt. Nominee)
5. Dr. Ashaletha Thampuran, Mentor (Special invitee)
6. Dr. John George, Associate Professor in EEE, Principal in charge, College of Engineering Adoor

#### ***Also present***

1. Prof. Venkitaraj K P, TEQIP Coordinator
2. Dr. Jayachandran E S, HOD ECE Dept
3. Prof. Renjith Kumar D, Civil works Coordinator & HOD EEE Dept
4. Prof. Binulal B R, HOD ME Dept
5. Prof. Krishnadas G, Accreditation Coordinator & HOD AS Dept
6. Prof. Girija V R, HOD CSE Dept
7. Sri. P K Rajendran Nair, Administrative Officer

The following members of the BOG conveyed their inability to attend the meeting.

1. Dr. Achuthsankar S Nair, HOD, Department of Computational Biology and Bioinformatics, University of Kerala
2. Dr. Zakkariya K A, Syndicate Member, CUSAT (University Nominee)
3. Mr.K.C.Chandrasekharan Nair , Associate Principal Consultant, KITCO, Cochin
4. Sri. L L Ramachandran, Deputy General Manager IIS, BPCL Cochin Refineries Ltd.
5. Prof. Manju S Nair, Associate Professor in CSE, College of Engineering Adoor

## **Agenda**

### **Item No1/BOG8: Procedural Items**

- 1.1. Approval of the minutes of the previous BOG meeting
- 1.2. Report on the action on the decisions

### **Item No.2/BOG8: Ratification & Approvals –Discussion and consideration**

- 2.1. Approval for the Academic plan for the remaining project period
- 2.2. Ratification of the revisions made in the procurement Plan
- 2.3. Approval of proposals for the conducting Conferences
- 2.4. Ratification of International Travel by Dr. John George under ITSS
- 2.5. Ratification of the honorarium paid for subject experts from IIT/IISc/IIST for FDP
- 2.6. Ratification of the enhancement of scholarship for M.Tech Students

### **Item No.3/BOG8: Reports**

- 3.1. Fund Utilization report
- 3.2. Report of the progress made in the various activities envisaged in TEQIP II
  - 3.2.1 Procurement Status
  - 3.2.2 Academic activities
  - 3.2.3. Teaching & research assistantships
  - 3.2.4. Finishing School [Soft Skill Training/student support programs, Result Analysis, Transition Rate]
  - 3.2.5. Accreditation Status

### **Item No.4/BOG8: Any other item**

- 4.1. Request letter from Smt. Vidya S, Data Entry operator
- 4.2. Request letter from Smt. Viji S, Junior Accountant

### **Item No.5/BOG8: Annexure**

The Meeting started at 11.00 AM under the presidency of the Prof. Eldho T I, Hon'ble Chairman. The Principal Dr. John George welcomed all the members and special invitees. A brief report was made by the Principal on the various activities related to TEQIP and development in college as the impact of these activities. The Principal also provided a brief report about the agenda of the meeting. The BOG congratulated Dr. John George and Dr. Jayachandran E S for acquiring Ph.D.

## **PART 1**

### **PROCEDURAL**

#### **Item No 1.1/BOG8: Approval of the minutes of the 7<sup>th</sup> BOG meeting held on 03.10.2015**

Minutes of the seventh BOG meeting held on 03.10.2015 was circulated to the BOG members for confirmation. The BOG approved the minutes of the BOG meeting held on 03.10.2015.

#### **Item No 1.2/BOG8: Report on the action on the decisions in the minutes of the 7<sup>th</sup> BOG meeting held on 03.10.2015.**

The Principal explained about the action taken based on the decisions made in the 7<sup>th</sup> BOG meeting. The BOG noted the actions taken as reported in the agenda item on the decisions of seventh meeting held on 03.10.2015.

BOG expressed displeasure on the written explanations given by Sri. Rajesh M S, Assistant Professor, ECE Dept and Sri. Ajeesh S, Assistant Professor in CSE Dept for not attending the Pedagogical Training Programme conducted at IIT Madras from June 22-24, 2015. BOG opined that the written explanations given by them are insulting in nature and hence not acceptable. BOG opined that this kind of reply is not expected from responsible faculty members. BOG directed to inform this matter to Sri. Rajesh M S, Assistant Professor, ECE Dept and Sri. Ajeesh S, Assistant Professor in CSE Dept with a warning for not to repeat this kind of irresponsible actions in future.

## **PART 2**

### **RATIFICATIONS AND APPROVALS**

#### **Item No 2.1/BOG8: Approval for the academic plan for the remaining project period**

The Principal presented the academic plan for the remaining project period. BOG discussed the academic plan and approved the plan for the remaining project period.

#### **Item No 2.2/BOG8: Ratification of revisions made in the procurement Plan**

The Principal presented the revisions in the institutional procurement plan. BOG approved the revisions and ratified the revised procurement plan.

#### **Item No 2.3/BOG8: Approval of the proposals for the conducting conferences**

The Principal presented the proposals from respective departments for conducting conferences. Two proposals were presented viz. (1) Heat Transfer, Fluid Dynamics and Propulsion (ME Dept.) and (2) Emerging Trends in Power Control Communication & Computing (Jointly by ECE, EEE, CSE Depts.). BOG approved the proposals as well as the budget proposed for the same.

#### **Item No 2.4/BOG8: Ratification of the International Travel by Dr. John George under ITSS**

A proposal received from Sri. John George, Associate Professor in Electrical Engineering Department (In Charge of Principal), College of Engineering Adoor for presenting paper at the IEEE Power and Energy Society ISGT Asia 2015 conference to be held in Bangkok, Thailand from 04.11.2015 to 06.11.2015 under International Travel Support Scheme ,TEQIP. The honorable BOG chairman had accorded sanction for the same based on the screening committee report. The BOG ratified the decision made on proposal for ITSS and instructed to complete the procedure as per the TEQIP guidelines.

**Item No 2.5: Ratification of the honorarium paid to the subject experts from IIT/IISc for faculty development program**

The Subject experts from IIT /IISc and IIST who delivered lectures in the faculty development program “Green Nanotechnology in Materials Engineering and Energy Applications” held from 15<sup>th</sup> to 19<sup>th</sup> December 2015 were given honorarium of Rs.5000/- per day. The details are given below.

Sl no	Name & Designation of Subject Expert	Organization
1	Dr. Kuruvila Joseph, Senior Professor, Dept. of Chemistry	IIST, Trivandrum
2	Dr. P Muthukumar, Professor, Dept. of Mechanical Engineering	IIT, Guwahati
3	Dr. Rishi Raj, Asst. Prof ,Coordinator of Center for Energy & Environment, Dept of Mechanical Engineering	IIT, Patna
4	Dr. Shantanu Bhattacharya, Asso. Professor, Dept. of Mechanical Engineering	IIT, Kanpur
5	Dr. Siddarth P Dattagupta, Asso. Professor , Dept. of Electrical Engineering	IIT, Bombay

The BOG ratified the honorarium paid to subject experts for “Green Nanotechnology in Materials Engineering and Energy Applications”.

BOG also given approval for the honorarium disbursing at the rate of Rs.5000/ day to the experts from IIT who are delivering lectures in the ongoing faculty development program “Computational Fluid Dynamics” held from 11<sup>th</sup> to 15<sup>th</sup> January 2016. The details are given below.

Sl no	Name & Designation of Subject Expert	Organization
1	Dr. Swarup Kumar Mahapatra , Professor & HOS, Department of Mechanical Sciences	IIT Bhubaneswar
2	Dr. Anil Kishan, Assistant Professor, Department of Mechanical Engineering	IIT, Mandi
3	Manabendra Pathak, Associate Professor, Department of Mechanical Engineering	IIT, Patna
4	Dr. T I Eldho, Professor, Dept. of Civil Engineering	IIT, Bombay

5	Dr. Rajesh G, Associate Professor, Dept. of Aerospace Engineering	IIT, Madras
6	Dr. Arvind Pattamatta, Associate Professor, Dept. of Mechanical Engineering	IIT, Madras
7	Dr. S P Mahulikar, Professor, Dept. of Aerospace Engineering	IIT, Bombay
8	Dr.Syed Nizamuddin Khaderi, Assistant Professor, Department of Mechanical Sciences	IIT, Hyderabad
9	Dr. Somnath Roy, Assistant Professor, Department of Mechanical Engineering	IIT, Patna
10	Dr.Yogesh G Bhumkar, Assistant Professor, Department of Mechanical Sciences	IIT, Bhubaneswar
11	Dr. Sameen A, Associate Professor, Dept. of Aerospace Engineering	IIT, Madras
12	Dr. Raja Banerjee, Associate Professor, Department of Mechanical & Aerospace Engineering	IIT, Hyderabad

BOG also given prior approval for the honorarium to the resource person from IISc for delivering an expert talk “Incubational Product Design” held on 16<sup>th</sup> January 2016, to students. The details are given below.

Sl no	Name & Designation of Subject Expert	Organization
1	Dr. Amaresh Chakrabarti, Professor & Chairman, CPDM	IISc, Bangalore

BOG directed to obtain prior sanction from the Honorable Chairman for disbursing honorarium to resource person from IIT/IISc and similiar institutions at a rate of 5000/day.

### **PART 3** **REPORTS**

#### **Item No 3.1/BOG8: Fund Utilization Report**

The Principal presented the summary of expenditure as on 30.12.2015. The BOG noted the expenditure incurred till date, for the allotted fund of Rs.900 lakhs.

#### **Item No 3.2/BOG8: Report of the progress made in the various activities envisaged in TEQIP**

## **Phase II, since the last meeting of the BOG.**

The Principal presented of the summary of the procurement activities post the seventh BOG meeting. The Principal reported the in-house and out-station training programmes for faculty, out-station pedagogical training programs for faculty after the seventh BOG meeting. The Principal also reported the teaching and learning assistantships given to PG students, activities under finishing school and activities for student support. The status of accreditation process has been reported after the BOG. The progress made under these various activities had been reviewed and approved by the BOG.

### **PART 4**

#### **Any other item with the permission of the chair**

##### **Item No 4.1/BOG8: Request from Smt. Vidya S, Data Entry Operator, TEQIP II office, College of Engineering Adoor**

A letter has been received from Smt. Vidya S, Data Entry Operator, TEQIP II office, College of Engineering Adoor requesting for converting from daily wages basis to contract basis. BoG observed that qualifications of Smt. Vidya S qualifications do not match with prescribed qualifications of Data Entry Operator contract basis, and therefore rejected her request.

##### **Item No 4.2/BOG8: Request from Smt. Viji S, Junior Accountant, TEQIP II office, College of Engineering Adoor**

A letter has been received from Smt. Viji S, Junior Accountant, TEQIP II office, College of Engineering Adoor requesting to grant retrospective effect to the revised consolidated pay in respect of Clerk-cum-Junior Accountant. BOG rejected the request.

### **Part 5**

#### **Any Other Matters with the permission of the chair**

The Principal asked a clarification about the support under TEQIP for staffs' qualification Upgradation. The Director, SPFU and the BOG confirmed that the TEQIP support can be provided for qualification Upgradation only if it is a necessary qualification requirement notified for the post held by the staff concerned

The meeting was dissolved at 1:30 PM.

**Chairman, BoG**

**Prof. Eldho T I**

**Principal**

**Dr. John George**