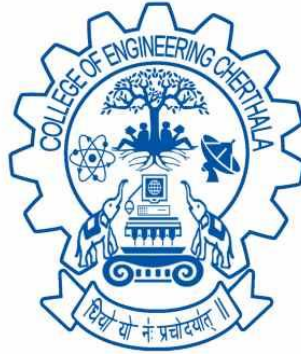


TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME Phase II

Sub Component I.1



5<sup>th</sup> MEETING OF  
THE BOARD OF GOVERNORS  
DETAILED AGENDA NOTES

Date: 5-09-2014

Time: 11.30 AM

Venue: Seminar Hall

COLLEGE OF ENGINEERING CHERTHALA  
PALLIPPURAM P.O., CHERTHALA-688 541, KERALA

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## Background

The meeting of Board of Governors is convened to monitor the progress of TEQIP-II activities at CE Cherthala, under Sub component 1.1, with emphasis to procurement and academic activities, and to accord necessary approvals and clearances for the ongoing activities. The 5<sup>th</sup> meeting of the BOG is being convened on 5<sup>th</sup> of September 2014.

# AGENDA

## Part 1-Procedural

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### Part 4-Other items

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4.2	Request to authorize Prof. Jayadas C K, Associate Professor in Electronics Engineering to assume charge of Finance Coordinator in the interim	54
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## Part 5

### Annexures

Sl. No		
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# PART 1

## Procedural Items

## 1.1 Confirmation of the Minutes of the 4<sup>th</sup> Meeting of the Board of Governors held on 25-02-2014 at CE Cherthala

The Minutes of the 4<sup>th</sup> Meeting of Board of Governors of TEQIP Phase II of CE Cherthala held on 25-2-14 was sent to the Hon'ble Chairman for his approval. A copy of the Minutes is appended as Annexure 1 for confirmation.

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

## 1.2 Report on action taken/action pending on the pertinent decisions in the Minutes of the 4<sup>th</sup> Meeting of the Board of Governors held on 25-02-2014 at CE Cherthala

The decisions taken by the Board as recorded in the Minutes of the 4<sup>th</sup> Meeting of the Board of Governors of CE Cherthala held on 25-2-2014 have been noted and actions have been initiated. A report on the action taken and actions pending is presented in the Table 1.2 given below

Sl no.	Decision Taken	Action Taken
1	Agenda Notes to include Action Taken Reports (ATR) of the previous BOG meeting	ATR has been included in the Agenda Notes of the V <sup>th</sup> BOG meeting. Will be complied with in all future agenda notes.
2	AMC terms for the NCB packages to be negotiated.	All packages have three year warranty or more. For the package Network Accessories, the warranty for passive devices is 15 years and that for active devices is 5 years. On discussion with the firms to whom the NCB bids were awarded, the AMC terms could be fixed only based on the market price of the equipment after the expiry of the warranty period.
3	Status of Completion of the Civil works packages	The civil works packages were due to be completed by March 31, 2014. The work on all packages except one (Extension of Electrical Workshop) has been completed. Payment has been completely effected for three packages. A notice was issued to the contractor directing him to complete the work at the earliest. He cited incessant rain for the delay. The work has since then been completed, and is being certified by the Asst. Engineer of IHRD, who has been coopted for the purpose by the

		BOG. The Electrification works package has been completed and has been certified by the expert from Model Engineering College who has been coopted for the purpose by the BOG.
4	Allowing Industries to utilize facilities acquired under TEQIP, to promote Industry Institute Interaction	Will be complied with.
5	Faculty to participate in International Conferences and Training Programmes abroad	Dr. Vinu Thomas, TEQIP Coordinator, presented a paper in World Automation Congress 2014 at Big Island Hawaii during August 3-7, 2014.
6	Engaging services of a professional counselor for giving counseling to students and parents.	A Professional Counselor, Sri Anoop Kumar K V, has been engaged for the same. He has had three sittings with the students. Meetings with parents are yet to be arranged. One such meeting is scheduled for 4.9.2014.
7	Peer Group learning system for UG students, under the supervision of a PG student, if it is outside office hours	Was tried out in the previous semester, during study holidays.
8	Extending the above facility to lady students on their request	No such requests have been received. The facility will be extended to them if requests are received.
9	Report status of accreditation in the next meeting.	The status of accreditation is reported in this agenda notes.
10	Writing to SPFU for additional grant to meet pending expenditure	SPFU has been represented and additional grant of Rs 2.5 crore to meet the pending expenditure has been received on 6.8.2014

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



**PART 2**  
**RATIFICATION, DISCUSSION & APPROVAL**

## **2.1 Ratification of the agenda notes circulated on 1<sup>st</sup> July 2014**

Agenda items on the V BOG of CE Cherthala, which required immediate attention, was circulated among all BOG members on 1<sup>st</sup> July 2014 by email. The agenda items were as below.

1. Approval for the International Conference ICIS-2014 to be held on 4th and 5th of July
2. Approval for international travel under ITSS by Dr. Vinu Thomas, TEQIP Coordinator.

The circulated notes are included as Annexure 2. Both the items were completed satisfactorily. The detailed reports for the same have been included in this agenda notes.

The Hon. BOG Chairman kindly gave his approval for the items in the agenda, and asked to ratify the same in the next BOG meeting.

**Action Sought:** The BOG may kindly ratify the items in the circulated agenda notes.

## **2.2 Status of Procurement of goods**

As of today, the number of completed packages for procurement of goods in the procurement plan is 48 out of 70 packages for procurement of goods. Total payments that have been made is Rs. 2, 37, 59,724/- (Rupees Two Crore Thirty Seven Lakh Fifty nine Thousand Seven Hundred Twenty Four only).

Purchase orders have been awarded for 16 packages, out of which 14 packages have been fully delivered. The total pending payment is Rs. 2, 05, 38,196/- (Rupees Two Crore Five lakhs Thirty Eight Thousand One Hundred Ninety Six only).

Quotations have been received for two packages and are being processed. Four packages have not been initiated. It is proposed that the uninitiated packages be deleted from the Procurement Plan and new packages be added in their place, to suit the revised needs of the institution.

An amount of Rs. 51, 31,935/- (Rupees Fifty one lakh Thirty one Thousand Nine Hundred Thirty Five only) will be available as balance amount for procurement of goods, by way of the proposed deletion of packages, and savings in the purchase of various packages that have been completed/purchase order issued. New Packages are being proposed in their place. The details of the various packages are tabulated in the following pages.

Table 2.1

Completed Packages in Procurement Plan					
Sl.No	Package Name	Package Code	FIRM	Budgeted Amount (Rs.)	Actual Amount (Rs.)
1	Bridges and potentiometer	TEQIP-II/KL/KLIG19/36	Elmatics Enterprises	124,200.00	110,155.00
2	Cables and Installation for multimedia projectors, interactive boards	TEQIP-II/KL/KLIG19/94	Binary Systems	24,995.00	24,995.00
3	CATIA and DELMIA	TEQIP-II/KL/KLIG19/47	EDS Technologies Pvt. Ltd	740,000.00	712,125.00
4	Computer Furniture	TEQIP-II/KL/KLIG19/24	Chair Zone	611447.00	611401.00
5	DSP boards	TEQIP-II/KL/KLIG19/28	Edgate Technologies	905,000.00	712,125.00
6	E TAP Software	TEQIP-II/KL/KLIG19/43	ETAP Automation Pvt. Ltd.	300,000.00	299,906.00
7	Electrical trainer kits	TEQIP-II/KL/KLIG19/37	Elmatics Enterprises	315,100.00	327,666.00
8	Electronics Text books	TEQIP-II/KL/KLIG19/56	current books india pvt ltd	702,261.00	532,801.00

9	Eleven Lab PCB Prototyping Machine	TEQIP-II/KL/KLIG19/45	ENTUPLE Technologies	990,000.00	990,000.00
10	EPABX	TEQIP-II/KL/KLIG19/9	ZERONE TECHNOLOGIES PRIVATE LTD	450,000.00	243,150.00
11	HFSS	TEQIP-II/KL/KLIG19/8	ENTUPLE Technologies	700,000.00	700,000.00
12	IC Testers and programmer	TEQIP-II/KL/KLIG19/19	Kitek Technologies Pvt.Ltd	499,200.00	343,650.00
13	IEEE ASPP e journal	TEQIP-II/KL/KLIG19/55	Global Information Systems Technology Pvt Ltd	370,500.00	376,200.00
14	LABVIEW	TEQIP-II/KL/KLIG19/39	Trident Techlabs Pvt Ltd	490,000.00	477,750.00
15	LibraryReferenceFurniture	TEQIP-II/KL/KLIG19/96	ALAPPATT AGENCIES PVT LTD	823866.00	799138.00
16	Logic Analyzer	TEQIP-II/KL/KLIG19/18	Innovative Instruments Inc	982,000.00	766,500.00
17	MATLAB	TEQIP-II/KL/KLIG19/13	M/s. CoreEL Technologies (I) Pvt. Ltd.	990,000.00	988,345.00
18	Mentorgraphics modelsim	TEQIP-II/KL/KLIG19/16	CoreEL Technologies (I) Pvt. Ltd.	300,000.00	300,675.00
19	Mi Power software	TEQIP-II/KL/KLIG19/44	TRIDAX ENGINEERING SOFTWARES PVT. LTD.	650,000.00	590,000.00
20	Microwave test bench	TEQIP-II/KL/KLIG19/11	Scientific Enterprises	211,000.00	145,373.00

21	Multimedia Projectors and interactive boards	TEQIP-II/KL/KLIG19/91	Binary Systems	953,360.00	953,353.00
22	NI ELVIS II	TEQIP-II/KL/KLIG19/41	Trident Techlabs Pvt Ltd	565,000.00	564,900.00
23	Office furniture	TEQIP-II/KL/KLIG19/25	Godrej Boyce	997,571.00	997,522.00
24	Optical fibre trainer kits	TEQIP-II/KL/KLIG19/12	Benchmark electronic Systems pvt ltd	132000.00	126000.00
25	OrCad software	TEQIP-II/KL/KLIG19/46	FTD AUTOMATION PVT. LTD.	600,000.00	599,550.00
26	Oscilloscopes	TEQIP-II/KL/KLIG19/4	Innovative Instruments Inc.	933,500.00	932,505.00
27	Power electronics trainer kit	TEQIP-II/KL/KLIG19/38	Elmatics Enterprises	162,600.00	147,934.00
28	power quality analyzer	TEQIP-II/KL/KLIG19/93	CONVERGENT TECHNOLOGIES	422,000.00	422,000.00
29	power supplies	TEQIP-II/KL/KLIG19/2	Innovative Instruments Inc.	928,000.00	942,049.00
30	Printers and copiers	TEQIP-II/KL/KLIG19/14	RICOH INDIA LIMITED	922,000.00	716,625.00
31	rheostats	TEQIP-II/KL/KLIG19/33	Scientific enterprises	190,025.00	145,929.00
32	Science direct e journal	TEQIP-II/KL/KLIG19/76	International Book House Pvt. Ltd.	470,000.00	472,973.00

33	signal generators	TEQIP-II/KL/KLIG19/3	Innovative Instruments Inc.	473,000.00	440,580.00
34	Spectrum Analyzer	TEQIP-II/KL/KLIG19/17	Innovative Instruments Inc.	500,000.00	496,650.00
35	Springer -e Journal	TEQIP-II/KL/KLIG19/79	Global Information Systems Technology Pvt. Ltd	220,000.00	205,390.00
36	Tally accounting software	TEQIP-II/KL/KLIG19/78	Tally Solutions Pvt. Ltd	18,500.00	14,400.00
37	Trainer kits-microprocessors, microcontrollers, Digital IC.	TEQIP-II/KL/KLIG19/20	Kitek Technologies Pvt. Ltd	737,250.00	581,137.00
38	Transformer and load	TEQIP-II/KL/KLIG19/31	Scientific enterprises	279,260.00	209,264.00
39	Video conferencing equipment	TEQIP-II/KL/KLIG19/21	Zerone Technologies	470,000.00	552,985.00
40	Xilinx University VIVADO System Edition S - 25 user license	TEQIP-II/KL/KLIG19/15	CoreEL Technologies (I) Pvt. Ltd.	126,600.00	126,600.00
41	JET ejournal	TEQIP-II/KL/KLIG19/77	INFORMATICS (INDIA) LTD	73000.00	67416.00
42	Barcode printer and scanner	TEQIP-II/KL/KLIG19/29	Van League Automation Solutions pvt Ltd	44,900.00	47,985.00
43	Estinet network simulator	TEQIP-II/KL/KLIG19/51	Dell Soft Technologies	900000.00	577500.00

44	Hard disk	TEQIP-II/KL/KLIG19/	Team Frontline Limited	40,000.00	28400.00
45	AC machines	TEQIP-II/KL/KLIG19/32 ↓	Elmatics Enterprises	921,000.00	733,589.00
46	Air conditioner**	TEQIP-II/KL/KLIG19/50	ABM COOLING SOLUTIONS INDIA PVT LTD	998,000.00	998761.00
47	Class room furniture	TEQIP-II/KL/KLIG19/26	KERALA SIDCO	899580.00	940045.00
48	Diesel generator	TEQIP-II/KL/KLIG19/23	Southern Associates	750,000.00	665,727.00

**Table 2.2**  
**Pending Payments under Procurement**

Sl.No	Package Name	Package Code	FIRM	Budgeted Amount (Rs.)	Actual Amount (Rs.)
1	Computer Text books	TEQIP-II/KL/KLIG19/57	Current books India Pvt. ltd	655,650.00	561,104.00
2	Electrical measuring instruments	TEQIP-II/KL/KLIG19/35	Elmatics Enterprises	295,675.00	236,742.00
3	Electrical Text books	TEQIP-II/KL/KLIG19/58	Current books India Pvt. ltd	310,860.00	328,309.00
4	general books	TEQIP-II/KL/KLIG19/74	Current books India Pvt. ltd	57,350.00	57,123.00
5	Lab Furniture	TEQIP-II/KL/KLIG19/27	KERALA SIDCO	765550.00	764860.00
6	Mechanical Text books	TEQIP-II/KL/KLIG19/60	Current books India Pvt. ltd	117,200.00	104,451.00
7	Text books- applied science	TEQIP-II/KL/KLIG19/59	Current books India Pvt. ltd	250,000.00	237,375.00
8	Voice and Data cabling	TEQIP-II/KL/KLIG19/92	ISYX Technologies India Pvt. Ltd	945,000.00	975,064.00
9	wooden trolley	TEQIP-II/KL/KLIG19/97	RICOH INDIA LIMITED	4500.00	4500.00



10	Xilinx FPGA Boards	TEQIP-II/KL/KLIG19/81	CoreEL Technologies (I) Pvt. Ltd.	458,000.00	452,173.00
11	Computers	TEQIP-II/KL/KLIG19/5	Frontier business system Pvt. Ltd	10,088,000.00	<b>9915486.00</b>
12	Servers	TEQIP-II/KL/KLIG19/49	Frontier business system Pvt. Ltd	2,286,000.00	<b>2090010.00</b>
13	UPS	TEQIP-II/KL/KLIG19/6	Novatuer Electrical&Digital systems +	2,000,000.00	<b>1783000.00</b>
14	ASTM Digital Library	TEQIP-II/KL/KLIG19/75	BOOK SUPPLY BUREAU	76010.00	71720.00
15	McGraw Hill Access Engineering e journals	TEQIP-II/KL/KLIG19/80	Global Information Systems Technology Private Ltd	150000.00	143220.00
16	network accessories	TEQIP-II/KL/KLIG19/10	Zerone Technologies Pvt. Ltd.	3,224,738.00	<b>2813058.75</b>

**Table 2.3**  
**Initiated Packages**

Sl.No	Package Name	Package Code	FIRM	Budgeted Amount (Rs.)
1	workshop tools	TEQIP-II/KL/KLIG19/61	Shopping	187,445.00
2	workshop m/c tools	TEQIP-II/KL/KLIG19/63	Shopping	382,700.00

**Table 2.4**  
**Packages proposed to be deleted (not initiated)**

Sl.No	Package Name	Package No.	Proc. Method	Status	Budgeted Amount (Rs.)
1	router + media convertor	TEQIP-II/KL/KLIG19/73	Shopping	Not Initiated	99,419.00
2	Audio system-smart class room	TEQIP-II/KL/KLIG19/83	Shopping	Not Initiated	1,40,000.00
3	Solar Energy Training System	TEQIP-II/KL/KLIG19/40	Shopping	Not Initiated	25,000.00
4	Qualnet + Sensor node network	TEQIP-II/KL/KLIG19/84	Shopping	Not Initiated	6,50,000.00

**Table 2.5**

List of new packages to be added in the procurement plan			
No.	Package	No. of Items	Approximate Price
1	Stabilizer (3 KVA) for A/c	24	75000
2	Phone	50	40000
3	Cabinets for keeping lab equipments	4	300000
4	Projector screen & Metal Box for housing cables	23+5	50000
5	Audio system smart class room + Auditorium	4+1	440000
6	Ebook (Springer)		610000
7	LCD Monitor	1	130000
8	ID Card Printer	1	100000
9	Label Printer	1	5000
10	Fire Safety equipment	15	300000
11	Lightning arrester for protection	for 3 buildings	800000
12	Vacuum Cleaner 1. Big 2. small	1+1	25000
13	Platform + Lectern	17	520000
14	N video card for CUDA	2	100000
15	Fire wall for the campus Network	1	400000
16	20 Mbps Internet connection from BSNL	1	65000
17	media converter	1	10000
18	Sensor network nodes	5	75000
19	Campus Automation software	1	500000
20	Electrical demonstrator & trainer module	8	134250
21	Cut sections of machine	3	80085
22	water purifier system	4	200000
23	Workshop tools	50	22600
24	Digital Multimeter	30	150000
	<b>Total Amount</b>		<b>5131935</b>

Table 2.6

Summary

Budgeted Amount	50000000.00
Completed Payment	23759724.00
Initiated Packages	785085.00
Pending Payment	20323256.00
Balance Amount available for Procurement- New Packages added:	5131935.00

Action Sought:

1.The BOG may kindly approve the completed packages.

2. \*\* The package Airconditioners (50) had been modified on 4.2.2014, to include 24 numbers of Airconditioners in place of 22 Airconditioners in the original package. This is necessitated by the fact that the newly constructed GD and Interview room, which is also being used as PG Project lab, requires 4 Airconditioners of 2 Tonnes for efficient cooling. Earlier only two numbers of Airconditioners were planned for this room. (This lab houses 48 PG students). Therefore the estimated amount had been revised from Rs 9,68,000/- to Rs 9,98,000/-. The BOG may kindly ratify the revision in the number of equipment and the revision in the estimated price.

3. The BOG may approve revision in the package Airconditioners (deletion of the packages in Table 2.4 and inclusion of the new packages in Table 2.5.

## 2.3 Status of Civil Works

As of today, the number of completed civil works packages for which payment has been effected, is 3 out of 6 packages in the procurement plan. The other three works have been completed, and are being certified. An amount of Rs 117630/- (Rupees One Lakh Seventeen Thousand Six Hundred and Thirty is now available in the civil works package. New civil works packages are being proposed to utilize this fund. These are

1. To construct a steel staircase with hand grills for the newly constructed Research Lab (Extension of existing building to provide GD and Interview rooms)
2. To construct a steel trussed soft roof for the entry to the research lab, for keeping footwear etc.
3. To fix grills on all windows of the research lab and the extensions to the mechanical and electrical workshop, that were constructed using the TEQIP-II funds, as there is not enough security to house computers and equipment that have been purchased.

The status of the civil construction projects, summary of the civil construction till date, and estimates for the proposed civil works packages are included in the following tables.

### Civil Construction Projects

Sl.No	Package Name	Package Code	Budgeted Value (Rs.)	Contract Value (Rs.)	Payment Effected	Remarks	Pending payments
1	Electrification works	TEQIP-II/KL/KLIG19/88	1296780.00	1374033.00	343508	25 percentage (work is being certified)	1030524.75
2	Extension of building to house diesel generator	TEQIP-II/KL/KLIG19/89	189545.00	184207.00	154035	Completed	0
3	Extension of existing building to provide GD and interview rooms	TEQIP-II/KL/KLIG19/90	782928.00	742079.00	685458	Completed	0

4	Extension of the electrical machines lab	TEQIP-II/KL/KLIG19/86	1261107.00	1249641.00	312410	25 percentage	937231
5	Extension of the mechanical workshop	TEQIP-II/KL/KLIG19/85	1261107.00	1249641.00	1218829	Completed	0
6	Refurbishment of seminar hall	TEQIP-II/KL/KLIG19/87	208533.00	200374.00		(work is being certified)	200374.00
Total (Rs.)			5000000.00	49,99,975.00	2714240.25		2168130

#### SUMMARY OF THE CIVIL CONSTRUCTION TILL DATE

Budgeted Amount	5000000
Completed Payment	2714240
Pending Payment	2168130
Balance Amount available for civil construction : new packages added	117630

## ESTIMATES FOR NEW CIVIL WORK PACKAGES BEING PROPOSED

### 1. STEEL TRUSSED SOFT ROOF FOR THE ENTRY TO THE RESEARCH LAB, FOR KEEPING FOOTWEAR ETC

<u>BILL OF QUANTITIES</u>						
<u>ROOFING</u>						
Sl No	Description	Quantity	Unit	Estimated Cost (Rate) (Rs)		Amount
				in figures	in words	
1	Supply and fixing roof truss using MS square sections including applying a coat of iron primer and including cost of all materials, labour conveyance etc. complete a) 3"x1" Rectangular pipe	45	Kg	130	one hundred and thirty only	5850
	b) 1" square pipe	15				1950
2	Roofing with pre painted aluminium zinc steel sheet (Trafford profile sheet) 0.35mm or nearest thickness with C I bolts and bitumen washers including cost of all materials, conveyance, labour etc complete	13	m <sup>2</sup>	500	five hundred only	6500.00

3	Supplying and fixing 150 mm half round PVC split pipe including cost of all materials labour etc. complete	31	m	160	one hundred and sixty only	4960.00
TOTAL						19260.00
Rupees Nineteen Thousand Two Hundred and sixty only.						



2. STEEL STAIRCASE WITH HAND GRILLS FOR THE NEWLY CONSTRUCTED RESEARCH LAB

<b>BILL OF QUANTITIES</b>					
<b>STAIRCASE AND HAND RAILLING</b>					
<b>SI No</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Estimate</b>	<b>Amount</b>
				<b>in figures</b>	
1	Supplying and fixing stair case and hand railling. The following materials are used including labour charge  a)20x6mm MS flat	160	Kg	112	17920
	b)25x25x6mm Angle section	100	Kg	112	11200
	c)40x40x6mm angle section	60	Kg	112	6720
	d)C-Channel 3"	45	Kg	112	5040
<b>TOTAL</b>					<b>40880.00</b>
<b>Rupees Fourty thousand eight hundred and eighty only.</b>					

3. TO FIX GRILLS ON ALL WINDOWS OF THE RESEARCH LAB AND THE EXTENSIONS TO THE MECHANICAL AND ELECTRICAL WORKSHOP

BILL OF QUANTITIES

M S GRILL FOR WINDOWS OPENING

Sl No	Description	Quantity	Unit	Estimated Cost (Rate) (Rs)		Amount
				in figures	in words	
1	Supplying and fixing m s grill for window openings 6 mm dia round rod and 25x6mm MS flat including cost of all materials, labour conveyance etc complete and applying a coat of iron primer	95.85	Kg	115	Eighty only	11022.75
	1) GD and Interview room 1.40x1.50 - 5 nos					
	2) Mechanical and Electrical workshop					212.4
	a)1.50x1.50 - 10nos					70.56
	b)1.20x1.50 - 4nos	15.66				8114.4
	c)1.00x1.50 - 1nos					1725.00

2	Painting the steel work synthetic enamel paint two coat after scarping and cleaning the surface including cost of all materials, conveyance, labour etc.complete	45	m <sup>2</sup>	86	eighty six only	3870.00
TOTAL						50000.00
Rupees Fifty thousand only						

Action Sought: The BOG may kindly approve the inclusion of the new civil works packages.

## 2.4 ACADEMIC PROGRAMMES CONDUCTED

### 2.4.1 Report on International Conference on Information Science (ICIS'14) 4<sup>th</sup> and 5<sup>th</sup> July 2014

Venue: Le Meridian, Kochi

The TEQIP-II sponsored International Conference on Information Science was organized by College of Engineering Cherthala in collaboration with Computer Society of India (CSI) on 4<sup>th</sup> and 5<sup>th</sup> July 2014 at Le-Meridian Cochin. The conference included eight keynote addresses by eminent academicians and experts from industry in different areas. The two day conference included eight chairs in different fields such as Communication, Data mining, Security, Digital Image Processing, Natural Language Processing, Cloud and Parallel computing and Computer Networks. The sessions were conducted at two different venues at Le-Meridian.

Around 200 papers were received for the conference from which 57 papers were selected by the International panel of reviewers. In addition to the above, 4 papers were selected in the poster paper category. The selected papers were published in the conference proceedings. Among these three papers are being advocated for the best paper 2014 award at the annual meet of CSI.

The inaugural function was presided over by Dr. P.S Sreejith (Director IHRD). The conference was inaugurated by Dr. Paulose Jacob (Pro-Vice Chancellor, Cochin University). Dr. H.R Mohan (President CSI), released the first copy of the proceedings and handed it over to Dr. K Paulose Jacob. The ceremony was graced by Dr. E Gopinathan (former Director NIT Calicut & Senior research Advisor CE-Cherthala) and Dr. S. P Soman, (Regional Vice President CSI).

The first day at venue-I included inaugural session, four keynote addresses and five paper presentations. The first Keynote address was by Dr. Partha Das Gupta, Associate Professor in School of Computing, Informatics and Decision Systems Eng. Arizona State University, USA on "The Privacy Conundrum". The Second Keynote address was by Dr. B Chandra, IIT Delhi on the topic "Data mining and Applications".

The next keynote address was delivered by Dr. Shivashankar B Nair, Professor and HOD of Computer Science & Engineering, IIT Guwahati, on "Emulating Bio-inspired Algorithms". The last keynote address of the day was addressed by Dr. Anirban Basu, Research Professor of CSE and Consultant Chairman CSI Division-V on "Essential utilization and delivery networks". The Keynote addresses were followed by 5 paper presentations on Digital Image Processing. This session was chaired by Dr. Rajesh Cherian Roy, Professor in Electronics Engineering, Adishankara Institute of Engineering and Technology.

The paper presentation at Venue-II on Day I included 7 papers in the session on Communication, chaired by Dr. Thomaskutty Mathew, Professor, School of Technology & Applied Science, Mahatma Gandhi

University and 8 papers in the session about Data Mining, chaired by Dr Deepak Singh Tomar, Asst. Professor, NIT Bhopal.

The second day of the conference included four keynotes and seven paper presentations at the Venue-I. The first Keynote address was delivered by Dr. Deepak Singh Tomar, Assistant Professor in the Department of CSE, NIT Bhopal on the topic “Web Application Forensics for Code Injection Attacks”. The second keynote address was by Dr. Durgesh Mishra, Professor CSE and Dean (R&D), Sri Aurobindo Institute of Technology, Indore on the topic “Secure Multi- party computation for preserving privacy in research perspective”, followed by 7 paper presentations on Wireless sensor networks.

In the afternoon session Dr. Sandeep Shukla delivered a keynote on “Smart Grid”, followed by another keynote by Dr. Susantha Karmakar Asst. Professor, Department of CSE IIT Guwahati on the topic “Distributed computing some models and algorithms”.

At the second venue on the second day, there were 8 papers presented on Security chaired by Dr. B Chandra, 5 papers on Digital Image Processing chaired by Dr.Vrinda V Nair, Professor, College of Engineering Thiruvananthapuram, and 4 papers on Cloud Computing and Parallel Processing, chaired by Dr. Elizabeth Sherley, IIITMK, Thiruvananthapuram.

ICIS 2014 was rated very good to excellent by the resource persons and the majority of the participants, as evident from the feedback. From the feedback collected, many respondents suggested that future conferences should be more area specific. It was also suggested to arrange a keynote address prior to every paper presentation session.

ICIS 2014 details are summarized in the table below.

Sl. No.	Title of the Conference	Department & ref: no	Duration & date	Papers		Number of Participants		Co-ordinator	Expenditure (Rs.)	IRG Generated
				Received	Accepted	Internal	External			
1.	International conference on “Information Science”	CS-01 (TEQIP-II/CEC/FSD/IC-CS-01)	2 Days 4- 5 July 2014	200	61	78 (35 Regular + 43 Contract )	72 <b>external</b>	Prof. Manilal D.L., HOD, Computer Science Department	12,66,431/- (Lesser than the budgeted amount of Rs. 13,71,900/- )	1,84,425/-

## 2.4.2 In house Faculty Development Programmes

The table below summarizes the in house attended by the faculty and staff of the institute since the IV<sup>th</sup> BOG.

### Faculty Development Programme – Inhouse

Sl. No.	Title of the Programme	Department & course No.	Duration & date	No. of participants			Co-ordinator	IRG(Rs.)	Expenditure (Rs.)
				Own Institute	Other Institutes (IRG)	Total			
1.	Machine Learning Techniques and its applications	CS-07	03/03/2014 -07/03/2014 (5 Days)	41	6	47	Sony P.	3000	94152
2.	Recent Trends in Signal Compression	EC-07	22/04/2014 - 26/04/2014 (5 Days)	35	0	35	Remya S.	0	50215
3.	Recent Trends in Electronics & Research Methodology	EC-08	20/08/2014	38	0	38	Vishnu Pradeep	0	7800

## 2.4.3 Outstation FSD Programmes

The table below summarizes the outstation programmes attended by the faculty and staff of the institute since the IV<sup>th</sup> BOG.

### Faculty Development Programme – Outstation

Sl. No.	Name	Designation	Department & course No.	Host Institute	Programme Title	Duration & Date	Expenditure (Rs.)
1.	Manilal D. L.	Associate Professor	CS-10	IIT Bombay	workshop on “Parallel Computer Architecture and applications on Multicore to	5 Days 16/06/2014-20/06/2014	Rs 30212

					Manycore Processing Systems”		
2.	Anupama A.	AP	EC-16	COE Karunagappally	Workshop on ‘Vedic Mathematics in Engineering’	3 Days, 09/07/2014-11/07/2014	3200
3.	Faizal K.	AP	ME-06	COE Karunagappally	Workshop on ‘Vedic Mathematics in Engineering’	3 Days, 09/07/2014-11/07/2014	3200

#### 2.4.4 Management Capacity Development Programmes

The table below summarizes the Management Capacity Development Programmes attended by the faculty and staff of the institute since the IV<sup>th</sup> BOG.

##### Management Capacity Enhancement – Outstation

Sl. No.	Name	Designation	Department & course No.	Host Institute	Programme Title	Duration & Date	Expenditure (Rs.)
1.	Jayadas C. K.	Associate Professor(HOD-EC)	EC-04	IIMK	Academic Leadership	6 Days 23/06/2014-28/06/2014	4244
2.	Devanand C. N.	Assistant Professor(HOD-ME)	ME-01	IIMK	Academic Leadership	6 Days 23/06/2014-28/06/2014	4244
3.	Dr. Ashokkumar	Associate Professor	EC-05	IIMK	Academic Leadership	6 Days 25/08/2014-30/08/2014	4244
4.	Dr. Jobymol Jacob	Associate Professor	EC-06	IIMK	Academic Leadership	6 Days 25/08/2014-30/08/2014	4244

#### 2.4.5 Papers Published by Faculty since the IV<sup>th</sup> BOG

The following table summarizes the papers published by the faculty in various conferences, since the IV<sup>th</sup> BOG.

##### Paper presented in Conferences

Sl. No.	Name of the faculty	Name of the Conference	Name of the paper	Institute	Department & Conf.No.	Duration & date	Expenditure (Rs.)

1.	Muhammed Ilyas H AP in CS	International Conference on Advances in Computing, Communication & Information Science 2014	<i>A survey on Secure Key Sharing Mechanisms that can be used in Wireless sensor networks</i>	TKM College of Engg. Kollam	CS-02	26/06/2014-28/06/2014	
2.	Dr. Vinu Thomas Associate Professor in EC	International Conference 'WAC - 2014'	"Pectoral Muscle Boundary Detection- A preprocessing Method for Early Breast Cancer Detection"	IEEE SMC Society, Waikoloa, Hawaii	EC-01	5 Days 03/8/2014 To 07/8/2014	Rs 2,70,000/-  (ITSS availed, detailed report included)
3.	Sony P. AP in CS	International conference on Advances in Computing & Communication (ACC-2014)	"Semantic Oriented Multilingual Machine Translation with Word Sense Disambiguation"	Rajagiri School of Engineering & Technology	CS-03	27/8/2014 to 29/8/2014	7500
4.	Dr. Vinu Thomas Associate Professor in EC	ICIS 2014	"Detection and approximation of pectoral muscle using median filtering and gray level thresholding"	CE Cherthala		4/7/2014 to 5/7/2014	5000
5	Dr. Vinu Thomas Associate Professor in EC	ICIS 2014	"CAD system for Breast Ultrasound Images Using Multi-Scale Blob Detection and Active Contour Segmentation"	CE Cherthala		4/7/2014 to 5/7/2014	
5	Dr. Vinu Thomas Associate Professor in EC	ICIS 2014	"A novel method to detect Architectural Distortion in Mammogram"	CE Cherthala		4/7/2014 to 5/7/2014	



6	Sony P AP in CS	ICIS 2014	“Survey on Association Rule Mining Algorithms in Medical Domain”	CE Cherthala		4/7/2014 to 5/7/2014	
7	Muhammed Ilyas H, Lomin Joy AP in CS	ICIS 2014	“Enabling and Implementation of Fairness in a Peer-to-Peer System using a Deficit based algorithm in P2P Simulator”	CE Cherthala		4/7/2014 to 5/7/2014	
8	Manilal DL Associate Professor in CS Lomin Joy AP in CS	ICIS 2014	“User-Intention Based Anomaly Detection Approach To Identify Anomalous DNS Traffic”	CE Cherthala		4/7/2014 to 5/7/2014	
9	Muhammed Ilyas H, Lomin Joy AP in CS	ICIS 2014	“A Security Architecture in Wireless Sensor Networks with Mobile Sinks”	CE Cherthala		4/7/2014 to 5/7/2014	
10	Muhammed Ilyas H, Lomin Joy AP in CS	ICIS 2014	“Redefine and Accelerate Video Streaming for Cloud Gaming”	CE Cherthala		4/7/2014 to 5/7/2014	
11	Greeshma N Gopal AP in CS	ICIS 2014	“Fast Parallel Markov Clustering using CUDA and CSR Sparse Format”	CE Cherthala		4/7/2014 to 5/7/2014	
12	Manilal DL Associate Professor in CS Lomin Joy AP in CS	ICIS 2014	“MapReduce-Based Pattern Listing Algorithm Applied in Motif Detection For social Networks”	CE Cherthala		4/7/2014 to 5/7/2014	

13	Dr Vinu Thomas Associate Professor in EC	ICIS 2014	“Despeckling of Breast Ultrasound Images using Level Adaptive Thresholding of Discrete Shearlet Transform Coefficients”	CE Cherthala		4/7/2014 to 5/7/2014	
14	Sreekumar K, Abdul Kareem AP in EC	ICIS 2014	“Matrix based Ramanujan Sums Transform for Image Coding”	CE Cherthala		4/7/2014 to 5/7/2014	

#### 2.4.6 Staff Development Programme -Outstation

The following table lists the outstation training programmes attended by support and office staff.

Sl. No.	Name	Designation	Department & course No.	Host Institute	Programme Title	Duration & Date	Expenditure (Rs.)
1.	Lekshmi V. R	Technician Gr.II	EC-03	RIT Kottayam	Testing & Calibration of Electronic Equipments	3 Days 19/03/2014-21/03/2014	1076
2.	Smitha U.	SOA	AD-05	COE Karunagappally	IT Enabled Office Management System	3 Days 16/06/2014-18/06/2014	

#### 2.4.7 Brief Report of the Programs

##### A. In house Programs

A 5 days training program on “Machine Learning Techniques and its applications” has been coordinated by Sony P., AP in Computer Science from 03/03/2014 to 07/03/2014. Dr.P G Romeo Prof & HOD ,Mathematics Dept,Cochin university of Science & Technology , has delivered the inaugural address and the keynote speech. Eminent experts from various institutes lead the sessions for the remaining days. A total of 47 faculty attended the programme among which six participants were external. According to the feedback collected from the participants, the programme was excellent. The expenditure incurred for the programme was Rs. 94,152/-

Department of Electronics has conducted a training program on “Recent Trends in Signal Compression” from 22/04/2014 to 26/04/2014 under FSD of TEQIP PHASE II. The 5 day programme was coordinated by Remya S, AP in Electronics. The program was inaugurated by Dr.Sathidevi.P.S, Professor, Department of ECE, NITCalicut and she handled the remaining session on fundamentals of data compression. The remaining sessions are handled by eminent academicians and industrialists. The program

covered all the relevant and advanced signal compression techniques and standards. A total of 35 faculty attended the programme. According to the feedback collected from the participants, the programme was excellent. The expenditure incurred for the programme was Rs. 50,215/- . An expert talk on “Recent Trends in Electronics & Research Methodology” has been coordinated by Vishnu Pradeep, AP in Electronics on 20/08/2014. The session was handled by an eminent academician Dr. Sukesh Kumar who gave an inspiring talk. A total of 38 faculty attended the programme. The forenoon session was basically regarding the recent trends and future of Electronics. In the afternoon session, the importance of research oriented study in academics was the topic of discussion. According to the feedback collected from the participants, the talk was excellent. The expenditure incurred for the programme was Rs. 7800.

#### **B. Outstation Programmes**

Manilal D.L. HOD, CS Department has attended the five Days workshop on “Parallel Computer Architecture and applications on Multicore to Manycore Processing Systems” at IIT Bombay from 16/06/2014 to 20/06/2014. Eminent professors from IIT Bombay and other premier institutions handled the classes. The classes were all very informative and scheduled in such a way that it one can gather information from scratch to in-depth level.

Anupama A., AP in Electronics Engg., Faizal K., AP in Mechanical Engg., has attended the TEQIP-II sponsored Three Day Workshop on “Vedic Mathematics in Engineering” at College of Engineering Karunagappally from 09/07/2014 to 11/07/2014. The talks were mainly on Vedic Mathematics for Arithmetic computations, application of Vedic Mathematics in Engineering , Relevance of Vedic Mathematics in modern era, and Ancient Indian mathematics. The course enabled the participants to develop a constructive idea about the subject. The workshop was well planned and the participants were highly benefited out of it.

#### **C. Management Capacity Enhancement - Outstation**

Jayadas C. K., Devanand C.N., Dr. Ashokkumar T. Dr. Jobymol Jacob have participated in the Management Capacity Development program on Academic Leadership at IIMK. Various issue in the Higher Education sector and the governance plan and the institutional development plan were discussed in the program.

#### **D. Staff Development Programme –Outstation**

Lekshmi V. R, Technician Gr.II , Department of Electronics has attended the training program on “Testing & Calibration of Electronic Equipments” from 19/03/2014-21/03/2014 at RIT Kottayam. The various techniques for testing and calibration of the equipments were discussed in the program along with lab sessions.

Smitha U., Senior Office Assistant has attended a training program on IT Enabled Office Management System at COE Karunagappally from 16/06/2014 to 18/06/2014. The course provided an awareness about the IT enabled office management.

#### **E. International Conference attended by Dr. Vinu Thomas, TEQIP Coordinator**

The paper “Pectoral Muscle Boundary detection- A pre-processing method for early breast cancer detection” , authored by Dr. Vinu Thomas and his research students Smt. Rekha Lakshman & Smt. Shiji T P of Model Engineering College Thrikkakara, and Dr. Suma Mariam Jacob & Dr. Thara Pratab, Dept. of Radiology, Lakeshore Hospital, Kochi, India was presented at the World Automation Congress 2014, Waikoloa, Hawaii, a prestigious conference sponsored by the IEEE Systems Man and Cybernetics Society ([http://www.ieee.org/conferences\\_events/conferences/conferencedetails/index.html?Conf\\_ID=32651](http://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=32651)). The paper has been published in the conference proceedings. Dr Vinu Thomas availed of travel grant under ITSS of TEQIP for which he was sanctioned an amount of Rs 2,75,000/- by the SPFU.

The World Automation Congress has five established main tracks as long as 27 years old, as per the IEEE website description: IFMIP 2014 - 9th International Forum on Multimedia and Image Processing (IFMIP), ISORA 2014 -- 14th International Symposium on Robotics and Applications, ISIAC 2014 -- 10th International Symposium on Intelligent Automation and Control, ISOMSE 2014 -- 14th International Symposium on Manufacturing and Systems Engineering & ISSCI 2014 -- 9<sup>th</sup> International Symposium on Soft Computing for Industry. This year’s conference chairs were Professors Mo Jamshidi of Uty. Of Texas at San Antonio and Prof. Asad H Madni, of Uty of California at Los Angeles. Professors Jamshidi and Madni were honoured during the conference for their contributions to the field of Electronics Engineering.

There were several invited talks by distinguished academicians from all over the world. The talks on 4.8.2014 are as follows.

1. Prof. Mau-Chung Frank Chang, UCLA, USA, Wintek Endowed Chair and Distinguished Professor of Electrical Engineering and the Chairman of the Electrical Engineering Department, UCLA, delivered a talk about the Next Generation Systems-on-Chip for Communication, Radar, Interconnect and Imaging Systems
2. Dr. Saeid Nahavandi, Alfred Deakin Professor and the Director for the Centre for Intelligent Systems Research at Deakin University in Australia, discussed his innovation on Modelling and Control of an Interactive 3D Programmable Surface.
3. Prof. Delbert Tessar, Distinguished Professor in Mechanical Engineering at Uty. Of Texas at Austin, delivered the lifetime achievement award on Overview of the Next Wave of Technology. According to him, all progress in the Core Engineering disciplines in the last decade have been aided and abetted by progress in the circuit disciplines such as Electronics and Computer Science.

In the Afternoon session, the various papers were selected in four parallel sessions. The presentation by Dr Vinu Thomas was in the IFMIP session 1 on 4.8.2014 as the 4<sup>th</sup> presentation. The presentation was scheduled for 2.20 PM-2.40 PM, with 15 minutes for the presentation and 5 minutes for the question answer session. The session was moderated by Prof. Yutaka Hata, Professor and Dean in the Graduate School of Simulation Studies, Uty. Of Hyogo, Japan, & Member, Board of Governors, IEEE SMCS Society, who is also

the editor in chief of the highly reputed IC-MED journal of Taylor & Francis publications. Research. The work done by Dr. Vinu Thomas and his group was appreciated by the moderator and the audience.

On 5.8.2014, Kazuo Kiguchi, Prof. Design and Control of Human Assist Robots, Kyushu University, Japan delivered the lifetime achievement lecture on Design and Control of Human Assist Robots. This was followed by the Honoree Keynote on Big Data” Analytics in Smart Energy Grids, by the Conference co-chair Prof. Mo Jamshidi . Prof. Jamshidi is reckoned as the most renowned expert on System of Systems (SoS) Engineering in the world. He talked about how SoS gave rise to Big Data, and how a promising approach, called “Data Analytics”, which uses statistical and soft computing (SC) tools such as principal component analysis (PCA), clustering, fuzzy logic, neuro-computing, evolutionary computation, Bayesian networks, etc. to reduce the size of “Big Data” to a manageable size was developed. He also discussed about how to apply these tools to extract information, build a knowledge base using the derived data, and eventually develop a non-parametric model for the “Big Data”.The next talk was by the conference co-chair Prof. Asad H Madni, of UCLA, who has also served as President, COO & CTO of BEI Technologies Inc. , Systron Donner Corporation etc, and has been acknowledged all over the world for his contributions to the development of RF & Microwave Systems & Instrumentation. He discussed about emerging technologies and their applications including intelligent sensors and wireless sensor networks, intelligent cars, smart highways, tele-health (wireless healthcare), micro-electromechanical systems (MEMS), nanotechnology etc. This was followed by the various sessions.

On 6.8.2014, the day’s deliberations opened with the talk on the Bees Algorithm by Prof. Duc Truong Pham, Head of the School of Mechanical Engineering and Chance Professor of Engineering at the University of Birmingham, UK. Dr Vinu Thomas reports that he was fortunate to have discussion with Prof. Pham regarding his research on Microwave Imaging, which has the possibility of application of a stochastic optimization tool. Prof. Pham was kind enough to have a conversation about his research and promised to open a correspondence through email. Thereafter the keynote talk was delivered by Prof. Prem Kumar Kalra, former Director of IIT Rajasthan and currently Director of the Dayalbagh Educational Institute, Agra. Prof. Kalra discussed about the innovations in the teaching/learning processes that he had implemented at IIT Rajasthan and is currently pursuing at the Dayalbagh Educational Institute, incorporating school, collegiate and technical education under a single umbrella, and how the programs should necessarily be of interdisciplinary nature.

#### **2.4.8 TNA Plan for faculty & Staff**

The table below gives the in house and outstation training programmes planned for the period Sept-Nov. 2014.

Faculty Development Programme – Inhouse -planned

Sl. No.	Title of the Programme	Department & course No.	Duration & date	No. of participants			Co-ordinator	Expected Expenditure (Rs.)
				Own Institute	Other Institutes (IRG)	Total		
1.	Data Warehousing & Data Mining	CS-01	5 days September 2014	35	5	40	Sony P.	1.2 lakh
2.	Web Service	CS-02	4 days October 2014	35	5	40	Janu R.	1 lakh
3.	Network Simulation in NS2	CS-03	4 days November 2014	35	5	40	Greeshma N. Gopal	1 lakh
4.	Sensor Network	CS-04	4 days November 2014	35	5	40	Janu R.	1 lakh
5.	Applications of Computer Graphics and Multimedia Technologies	CS-05	4 days November 2015	35	5	40	Illyas H.	1 lakh
6.	Embedded System Design	EC-01	5 days October 2014	35	5	40	Irshad Ali T.K.	1.2 lakh
7.	Time Frequency Transforms	EC-02	4 days October 2014	35	5	40	Sreekumar M.	1 lakh
8.	Advanced Signal Processing	EC-03	4 days November	35	5	40	Jayadas C K	1 lakh

			er 2014					
9.	VLSI Technology	EC-04	4 days November 2014	35	5	40	Dr. Jobymol Jacob	1 lakh
10.	CMOS VLSI Design	EC-05	4 days November 2015	35	5	40	Anupama	1 lakh
11.	Modeling of Electrical Machines	EE-01	5 days October 2014	35	5	40	Elizwa Laiju	1.2 lakh
12.	Recent advancements in smart grid technologies	EE-02	4 days November 2014	35	5	40	Elizwa Laiju	1 lakh
13.	Modern trends in construction management	ME-01	5 days October 2014	35	5	40	Sandhya p. Gopal	1.2 lakh
14.	Discrete mathematics and linear algebra	AS-01	5 days October 2014	35	5	40	Radha Balakrishnan	1.2 lakh
15.	Engineering Applications of Differential Equations and Finite Element Methods	AS-02	5 days November 2014	35	5	40	Devanand C.N.	1.2 lakh
16.	Applications of Transforms in Engineering	As-03	5 days November 2014	35	5	40	Sarakutty K.J.	1.2 lakh
17.	Optimization Techniques	AS-04	5 days October 2014	35	5	40	Pradip M.	1.2 lakh
18.	Probability & Random Process for Engineers	AS-05	5 days November	35	5	40	Priyakumar N.	1.2 lakh

			er2014				
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Faculty Development Programme – Outstation -planned

Sl. No.	Name	Designation	Department & course No.	Host Institute	Programme Title	Duration & Date	Expenditure (Rs.)
1	Janu R.	AP	CS-05	ESCI Hyderabad	Web Designing Using PHP & MYSQL	5 Days 14/10/2014-18/10/2014	30000
2	Greeshma. N. Gopal	AP	CS-06	ESCI Hyderabad	IT Security Awareness: Managers & Executives 28 – 31 Oct 4	4 Days 28/10/2014-31/10/2014	30000
3	Manilal D.L.	Associate Professor	CS-07	ESCI Hyderabad	Data Backup and Recovery Tools 03 – 06 Nov 4	4 Days 03/11/2014-06/11/2014	30000
4	Sony P.	AP	CS-08	ESCI Hyderabad	Network Security Administration 24 – 28 Nov 5	5 Days 24/11/2014-28/11/2014	30000
5	Illyas H.	AP	CS-09	ESCI Hyderabad	Oracle 11g Database Administration 15 – 19 Dec 5	5 Days 15/12/2014-19/12/2014	30000
6	Anitha M. A.	AP	CS-10	ESCI Hyderabad	Windows Server 2012 Administration 19 – 23 Jan 5	5 Days 19/01/2015-23/01/2015	30000
7	Greeshma N. Gopal	AP	CS-11	ESCI Hyderabad	Internet Technologies & web developing methods using jQuery 09 – 13 Feb 5	5 Days 19/01/2015-23/01/2015	30000
8	Sony P.	AP	CS-12	ESCI Hyderabad	Advance Excel with Macros & VB Script 26 – 27 Feb 2	2 Days 26/02/2015-27/02/2015	30000
9	Dr. Ashok	AP	EC - 01	NIT Trichy	Implementation	2 days	30000



	Kumar T				of Firefly Algorithm in SCILAB and $\mu$ -Controller	10/10/2014 - 11/10/2014	
10	Dr. Vinu Thomas	AP	EC - 01	NIT Trichy	Implementation of Firefly Algorithm in SCILAB and $\mu$ -Controller	2 days	30000
11	Dr. Vinu Thomas	Associate Professor	EC-02	IIT Kharagpur	Management development programme on multivariate data analysis (mda 2014)	6 days 01/12/2014-06/12/2014	30000
12	Jayadas C.K.	Associate Professor	EC-03	IIT Kharagpur	Management development programme on multivariate data analysis (mda 2014)	6 days 01/12/2014-06/12/2014	30000
13	Vishnu Prdeep K	AP	EC-04	NITTR Extension centre, Kalamassery	Induction Programme for Newly Recruited Teachers	27-31 Jan 2015	30000
14	Jasleena C	AP	EC-05	ESCI Hyderabad	SCADA Applications in Transmission Systems	3days 03/02/2015 - 05/02/2015	30000
15	IrshadAli T.K.	AP	EC-06	IIT Kharagpur	Short term course on "Design & Analysis of Efficient systems for Microwave Transmission & Radiation"	6 days February 23-28, 2015	30000
16	Anupama A	AP	EC-07	IIT Kharagpur	Short term course on "Design & Analysis of	6 days February 23-28, 2015	30000

					Efficient systems for Microwave Transmission & Radiation”		
17	Remya R	AP	EC-08	IIT Kharagpur	Short term course on “Design & Analysis of Efficient systems for Microwave Transmission & Radiation”	6 days February 23-28, 2015,	30000
18	Dr. Jobymol Jacob	AP	EC-09	IIT Kharagpur	Short term course on “Design & Analysis of Efficient systems for Microwave Transmission & Radiation”	6 days February 23-28, 2015	30000
19	Ajaynath S A	AP	EC-10	NITTR Extension centre, Kalamassery	Evaluation Techniques	9-13 Mar 2014	30000
20	Dwija D	AP	EC-11	NITTR Extension centre, Kalamassery	Evaluation Techniques	9-13 Mar 2014	30000
21	Devanand C. N.	AP	ME-01	IIT Roorkee	Heat Transfer in Chemically Reacting Systems	01-Dec-14	30000
22	Sandhya P. Gopal	AP	ME-02	IIT Roorkee	Heat Transfer in Chemically Reacting Systems	01-Dec-14	30000

23	Sarakutty K J	Associate Professor	M-01	NITTR Bhopal	Innovations in Classroom Teaching	13-17 Oct 14	30000
24	Radha Balakrishnan	AP	M-02	NITTR Bhopal	Innovations in Classroom Teaching	13-17 Oct 14	30000

#### Staff Development Programme –Outstation –planned

Sl. No.	Name	Designation	Department & course No.	Host Institute	Programme Title	Duration & Date	Expenditure (Rs.)
1	Suresh T.K.	Technician	CST-01	ESCI Hyderabad	Mail Server Administration	4 Days 23/09/2014-26/09/2014	
2	Suresh T.K.	Technician	CST-02		Internet Technologies & web developing methods using jQuery	5 Days 19/01/2015-23/01/2015	
3	Madhusoodhana Kurup		CST-03	NITTR Bhopal	ASP. NET with VB. NET	5 Days 2-6 Feb 2015	
4	Lekshmi V R	Technician	ECT-01	NITTR Bhopal	MULTISIM and LABVIEW	10 Days 05-16 Jan 2015	
5	George C. Caramal	Technician	ECT-02	NITTR Bhopal	SCILAB for Electronic Circuits	5 Days 23-27 Mar 2015	

#### 2.4.9 Student Activities under EAP

The tables below indicate the remedial classes conducted for theory and laboratory sessions, as well as soft skill and technical skill impart programmes to prepare student for placements.

**Remedial classes conducted from 01/03/2014 to 12/06/2014**

No.	Subject	Faculty	No.of students	No.of hours	Total no.of hrs
6 <sup>TH</sup> SEMESTER					
1	DSP	AjayNath S A	35	5	*11+5=16
4 <sup>TH</sup> SEMESTER					
2	1402Microprocessor	Lomin Joy	43	6	6
3	1403Electroniccircuits	Nidhin K	40	6	6
4	1402EE Digital electronics	Abdulkareem	23	3	3
5	1406DSD	Vishnu Pradeep	55	7	7
6	1404ALC	Janu R Panicker	20	21	*16+21=37
7	Signals &Systems	Dr.Vinu Thomas	15	4	*8+4=12
8	1401Engg.Maths	Sarakutty K.J.	38	6	*15+6=21
FIRST YEAR					
9	1105Engg.graphics	Anoop Uthaman	50	8	8
10	1105Engg.graphics	Justin Sebastian	22	14	14
11	1104Engg.mechanics	Devanand C.N.	20	2	2
12	1101Engg.Maths	Priyakumar T.N.	40	21	21
13	1105Engg.graphics	Jayadeepkumar J	20	16	*12+16=28
14	1108Computer programming	Pramod Mathew Jacob	43	16	32
		Josna Jose	43	8	
		Muhammed Illyas	43	8	
Total				151	

\* No.of hours taken till 10/02/2014 , which was presented in the last BOG meeting

Expenses:-

1.Remuneration to faculty -151\*600 = 90,600/-

2. Tea &Snacks to students = 4520/-

TOTAL = 95,120/-

#### Remedial Lab sessions

Sl. No.	Subject	Faculty	Semester & batch	Duration & date	No. of participants
1	Electronics circuits lab	Nidhin K Vishnu Pradeep Kuriachen T.D.	S4EC A &S4ECB	2 days(12 hrs) 17/02,2014, 19/02/2014	96

Expenses:-

1. Remuneration to faculty &staff = 10200/-

2. Consumables & electronics kits = 4800/-

TOTAL =15000/-

#### Student Counseling

On the directions of the IV<sup>th</sup> BOGmeeting, the services of a Professional Counselor, Sri Anoop Kumar TV, was engaged for counseling the students. He delivered motivational Lectures for the final year and pre-final year students. More sessions are being planned. Personal Counseling sessions were held on three days for needy students (maximum eight students per day). The expenditure involved is summarized in the following table

Sl No	Dates Engaged	Remuneration	Activity
1	4.3.2014	Rs 3000/-	Motivational Talk for pre final year students
2	30.7.2014	Rs 3000/-	Motivational Talk for final year EC students

3	8.8.2014	Rs 3000/-B	Motivational Talk for final year CS students
4	28.8.2014		Personal Sessions
5	29.8.2014		Personal Sessions
6	4.9.2014		Personal Sessions

#### 2.4.10 Finishing School activities

As per the advice from SPFU, Placement cell has already initiated the training programs and procedures to conduct employment eligibility test. It is decided to conduct the Employment Eligibility Test through Aspiring minds as we found that they are a national level reputed organization conducting scientific assessment for entry level jobs. Some others factors for selecting Aspiring Minds are:

No other written test: Students do not have to take any other written test once he/she appears for AMCAT for the pool of companies associated with Aspiring Minds

Score validity for 3 years : Students will keep on getting opportunities from Aspiring Minds for a period of 3 years

Campus Visibility: Campus will come under the scope of giant corporate names. It will be helpful for current students as well as upcoming final year students.

### Placement Training

Soft skills trainings were arranged for the final year students. The classes were handled by the following resource persons.

#### 1. SHERINE DEEPAK

*Soft Skills & Communicative English Trainer*

MA English, MSc in Psychology LLB

Trained in TA, NLP & Hypnotism

#### 2. Dr ASHA PETER

*Consultant Psychologist, free lance Corporate trainer*

Ph.D research on psychological empowerment for management students

Served as Psychologist at Allianz Cornhill, faculty at TKM Institute of Management

In addition, a training programme for Linux and C Programming of one day duration was arranged for the final year students to prepare them for the placement drive by Poornam Software.

The table below indicates the expenditure incurred for soft skill and technical skills impart programmes to prepare student for placements.

Sl. No.	Title of the Programme	Semester & batch	Duration & date	No. of participants	Expenditure (Rs.)
1	Linux and C	S8 EC &	1day	104	9880

	programming	S8 CS	01/03/14		
2	Soft skill training	S8 EC & S8 CS	6 days 8,9,15,16,22, 23/02/2014	104	49080

*Total Expenses = 58,960/-*

## 2.4.II Student Activities under IIIC Component

The table below indicates the activities under the IIIC Component.

### SHORT TRAINING PROGRAM/WORKSHOP CONDUCTED

Sl. No.	Department	Title of the Talk	Date & Duration	No. of participants	Coordinator	Name of the trainer	Industry/institute	Expenditure
1.	Electronics Engg.	Workshop on Microstrip Design & Ansys HFSS & MITS-PCB Fabrication	19/03/2014 to 21/03/2014 3 Days	40	Lekshmi Sasidharan Nair	Mr.Sarath C. & Mr.Kamalesh Kumar	Entuple Technologies, Bangaluru.	21,458

The table below indicates the activities planned under the IIIC Component.

### ACTION PLAN FOR IIIC ACTIVITIES

Sl.No.	Event	Hosted Dept.			Details of Talk			Faculty From	Approx. Amount of Expenses (Rs)
		Name	Targeted Group	Expected No. of Participants	Title of the Talk	No. of Days	Month of Conduction	Institution	

1	Expert Talk	Electronics Engineering	3year EC	100	Object-Oriented Design and Programming in LabVIEW	1	October	NI,Bangalore	20000
2	Expert Talk	Computer Engineering	3 year CS	90	PHP for OO/Procedural Programmers	1	September	CTS, Cochin	20000
3	Expert Talk	Electrical Engineering	2nd and 3rd Year EE	110	SCADA	1	October	KSEB	20000
4	Expert Talk	Electronics Engineering	2nd year EC	100	Analog and Digital Signal Processing	1	November	IIT Madras	20000
5	Workshop	Electronics Engineering	B.Tech EC	100	ANSYS Simulation Tools:HFSS and Designer RF.	3	October	Entuple Technologies, Bangalore	55000
6	Workshop	Computer Engineering	MTech CS	48	Networking and Security	2	October	Kites Softwares, Cochin	30000
7	Workshop	Electrical Engineering	3rd Year EE	55	Micro Controllers and Its Applications in Control Systems	2	November	Walco Solutions, Ernakulam	30000
8	Workshop	Electronics Engineering	M.Tech EC	48	Image Processing Tool Box in MATLAB	2	November	Mathworks, Bangalore	30000
Total									225000

Action Sought: The BOG may kindly ratify the academic programmes conducted and expenditure incurred, and approve the TNA plan for faculty and staff and the planned academic activities.



**PART 3**  
**REPORTS**



### 3.1 Summary of expenditure as on 5-09-2014

Procurement		Academic		IOC	Total Completed Payment till date	Amount required for settling outstanding payments	Bank Balance
Completed	Pending payments	Completed	Pending	Completed			
2,64,73,964/-	2,32,76,471/-	61,61,529/-	Approx.. 5 lakhs	19,04,493/-	3,45,39,986/-	2,37,76,471/-	2,03,64,566/-

Action Sought: The BOG may kindly take note.

### 3.2 Faculty position as on 5-09-2014

Department	Regular	Contract	Professors	Associate Professors	Assistant Professors	PhD	MTech/MSc + MPhil	BTech
Electronics & Communication	10	10	0	6 (Regular) One faculty on Leave	14 (4 Regular and 10 Contract)	3	13	4
Computer Science & Engineering	7	11	0	1	17(6 Regular and 11 Contract) <i>One faculty on Leave</i>	0	17	1
Electrical and Electronics	2	3	0	0	5 (2 Regular and 3 Contract) <i>One faculty deputed for PhD</i>	0	5	0
Mechanical Engineering	3	2	0	0	5 (3 Regular and 2 Contract) <i>One faculty deputed for PhD</i>	0	5	0
Applied Sciences	3	4	0	0	7 (3 regular and 4 contract)	0	7	0

The following faculty have joined CE Cherthala

1. Sri Jayadas C K, Associate Professor in E & C
2. Smt Remya S, Assistant Professor in E&C
3. Smt Anupama A, Assistant Professor in E &C

The following faculty has returned from LWA (foreign service)

1. Dr Ashok Kumar T V, Associate Professor in E & C

**Action Sought: The BOG may kindly take note.**

### **3.3 Report on Visit of Mentor**

The Hon'ble Mentor Dr P Pratapachandran Nair conducted the mentoring visit on 12<sup>th</sup> and 13<sup>th</sup> August 2014 at College of Engineering, Cherthala. The Hon'ble Mentor interacted with the Principal and HODs of the various Departments, UG and PG students, faculty and support staff, TEQIP cell, Alumni and the PTA. The Hon'ble Mentor's report is attached as Annexure 3.

**Action Sought: The BOG may kindly take note.**

### **3.4 Report on status of Accreditation**

College of Engineering Cherthala has remitted the fees for accreditation by the National Board of Accreditation (NBA) as per the requirements of TEQIP-II for the Departments of Electronics & Communication and Computer Science & Engineering that are eligible to apply for accreditation. The Self-Assessment Reports (SARs) of both the Departments have been prepared. The same has to be uploaded through the NBA portal in November. The documentations required for the same are under preparation. A Committee has been setup with Prof. Jayadas C K as the convener to oversee the preparations.

**Action Sought: The BOG may kindly take note.**

### **3.5 Report on grant recommended under RUSA**

College of Engineering Cherthala submitted an Institutional Development Proposal under Component 7: Infrastructure Grants to Colleges, for a total grant of Rs. 2 Crore, under the Rashtriya Uchchathar Shiksha Abhiyan (RUSA) of the Govt. of India, to the State Higher Education Council, Govt. of Kerala. The proposals received from colleges all over Kerala were vetted by the State Higher Education Council and the shortlisted proposals were submitted to the Govt. of India for approval. College of Engineering Cherthala was recommended for the full grant of Rs 2 crore under RUSA by the State Higher Education Council, Govt. of Kerala, which is the highest among all colleges under IHRD.

**Action Sought: The BOG may kindly take note.**

**PART 4**

**OTHER ITEMS WITH THE PERMISSION OF  
THE CHAIR**

#### 4.1 Permission to recruit new personnel to the post of Data Entry Operator

The Data Entry Operator of CE Cherthala for TEQIP-II, Smt. Joyal Michael, has submitted her resignation on 3.7.2014. As the select list for Data Entry Operator is more than a year old, permission may be granted to conduct an interview for the same to select a suitable candidate. The interview will be conducted after proper advertisement in the newspapers.

Action Sought: The BOG may kindly take approve.

#### 4.2 Request to authorize Prof. Jayadas C K, Associate Professor in Electronics Engineering to assume charge of Finance Coordinator in the interim

As the incumbent Finance Coordinator Prof. Pradeep M has requested for leave to complete his research, it is requested that the charge of the Finance Coordinator may be given to Prof. Jayadas C K, Associate Professor in Electronics Engineering till Prof Pradeep M reassumes charge.

Action Sought: The BOG may kindly take approve.

#### 4.3 Request to reimburse expenditure by faculty for registration to International Conferences, where their papers have been accepted

The following faculty have requested to reimburse expenditure for registration to International Conferences, where their papers have been accepted.

No.	Name of Faculty	Name of Conference	Expenditure Incurred
1	Sri Manilal D L	ICIS 2014	Rs 5000/-
2	Dr Vinu Thomas	2014 International Conference on Advances in Image Processing (ICAIP 2014) Bangkok, Thailand, October 10-12, 2014	US \$ 450
3	Dr Vinu Thomas	ICIS 2014	Rs 5000/-
4	Sri Manilal D L	4 <sup>th</sup> International Conference on Advances in Computing and Communication at RSET	Rs 3000/-
5	Smt. Sony P	4 <sup>th</sup> International Conference on Advances in Computing and Communication at RSET	Rs 7500
6	Sri Muhammed Ilyas	Int. Conference on Advanced Computing and Information Science, TKM Engineering College, June 28, 29	Rs 6000/-

Action Sought: The BOG may kindly take approve.

#### 4.4 Request to sanction the Principal and Head of Departments financial powers for TEQIP-II activities

It is requested that financial powers be delegated to the Principal and the various Heads of Departments as per the revised Project guidelines of TEQIP-II

Action Sought: The BOG may kindly take approve.

# ANNEXURE 1



# TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME

## Phase II Sub Component I.1



### 4<sup>th</sup> MEETING OF THE BOARD OF GOVERNORS

### Approved Minutes

Date: 25-02-2014

Time: 10.30 am

Venue: Seminar Hall, College of Engineering Cherthala

**COLLEGE OF ENGINEERING CHERTHALA**  
**PALLIPPURAM P.O., CHERTHALA-688 541, KERALA**

Phone: +91 478 2553416

# AGENDA SUMMARY

## Part 1-Procedural

Sl. No	Items	Page Number
1.1	Confirming the Minutes of the 3 <sup>rd</sup> Meeting of the Board of Governors held on 04-12-2013 at College of Engineering Cherthala, Alappuzha	6

## Part 2-Ratifications and Approvals

Sl. No	Items	Page Number
2.1	Expenditure incurred for procurement of goods, and price revisions of various completed and committed packages	8
2.2	Status of various NCB Packages and BOG approval for the packages	10
2.3	Status of various civil works packages	14
2.4	Report of III Cactivities	15
2.5	Report of the various Academic programs attended by faculty.	17
2.6	Report of programmes under EAP	22

## Part 3-Reports

Sl. No	Items	Page Number
3.1	Summary of expenditure as on 24-02-2014	26
3.2	Faculty position as on 24-02-2014	26
3.3	Report on Performance Audit	27
3.4	Report on Visit of Hon'ble Mentor	27
3.5	Status of IRG Accounts	27

## Part 4- Any Other item with the permission of the chair

Sl. No	Items	Page Number
4.1	Institutional membership in professional bodies	29
4.2	Guidelines for payments to counselor	29
4.3	Constitution of Research Guidance Council	

### Members present

1. Dr C P Girjavallabhan, Hon. Chairman.
2. Shri. M Sherif , Addl. Sec. ,H. Edn, Government of Kerala (State Govt. Nominee)
3. Shri James Joseph, Jt. Sec, Finance, Government of Kerala (State Govt. Nominee)
4. Dr VP Devassia , PrincipalModelEngineering College
5. Dr. Philip Kurien, (University Nominee)
6. Sri Jacob Mathew, Vice President, Idea Cellular
7. Prof. Pradeep M, HOD, Electronics Engineering Dept.
8. Prof. Manilal D L, HOD, Computer Science and Engineering Dept.
9. Dr. P Suresh Kumar (Principal)

The following member of the BOG conveyed his inability to attend the meeting:

1. Shri Salim M K, MD, Assuretech, Technopark, Thiruvananthapuram

The following persons were specially invited to attend the BOG meeting

1. Dr P Pratapachandran Nair, Hon'ble Mentor of C.E Cherthala
2. Professor K Narayanan, consultant, TEQIP-SPFU, Kerala

Others present in the meeting,

1. Dr Vinu Thomas, TEQIP Coordinator
2. Dr. Jobymol Jacob, Academic Coordinator
3. Prof. Sarakutty K J, EAP Coordinator
4. Prof. Priyakumar T N, Coordinator, Civil Works Committee
5. Sri Sreekumar K, IIC Coordinator
6. Sri Irshad Ali T K, M&E Coordinator
7. Sri Muhammed Ilyas H, Asst. Professor in CS
8. Smt. Anitha M A, Asst. Professor in CS

The meeting started with silent prayer at 10.30 AM.

The Hon'ble Chairman brought the meeting to order. The Chairman in his introductory note commended the efforts put in by the Principal and the TEQIP Cell of CE Cherthala for the implementation of TEQIP-II project at the institute, since the third BOG meeting on 4<sup>th</sup> December 2013. He expressed satisfaction at the progress in Procurement and the Academic activities and congratulated the TEQIP Cell for the hard work that was put in.

The Hon'ble Chairman invited the Principal to introduce the agenda for the 4<sup>th</sup> BOG meeting. Principal Dr P Suresh Kumar thanked the Hon'ble Chairman and presented the agenda for the meeting. In the introductory briefing, he mentioned the visit of the Hon'ble Performance Auditor Dr. Suresh Kumar Dhameja, and the Hon'ble Mentor Dr. P Pratapachandran Nair to the campus. The Principal also informed the BOG that both the Hon'ble Performance Auditor and the Hon'ble Mentor had appreciated the efforts put in by the TEQIP Cell despite various hurdles, and that both of them had noted the progress on the procurement front, with the College topping the second cycle institutions in Kerala in terms of the procurement target achieved.

## **1.1 Confirmation of the Minutes of the 3<sup>rd</sup> Meeting of the Board of Governors held on 04-12-2013 at CE Cherthala**

The BOG confirmed the approved minutes of 3rd Meeting of Board of Governors of CE Cherthala held on 04-12-13. Professor K Narayanan directed that henceforth the agenda notes for the BOG meetings should include Action Taken Reports of the previous BOG meeting.

## **2.1 Expenditure incurred for procurement of goods, and price revisions of various completed and committed packages**

The completed procurement, all price revisions and award of Purchase order of the packages as mentioned in the detailed agenda notes for the fourth BOG were approved.

## **2.2 Status of various NCB Packages and BOG approval for the packages.**

The Principal explained the current status of the four NCB packages as per the approved Procurement Plan of CE Cherthala. The BOG made the following decisions as below,

### **1. TEQIP-II/KL/KLIG19/5 Computers:**

The BOG gave its approval to purchase the package Computers -TEQIP-II/KL/KLIG19/5 from the eligible lowest quoting firm Frontier Business Systems Pvt Ltd, Kochi, the L1 bidder, for an amount of Rs. 99,15,486/- (Rupees Ninety Nine Lakh Fifteen Thousand Four Hundred and Eighty six only) inclusive of all taxes.

### **2. TEQIP-II /KL/KLIG19/6 UPS**

The BOG gave its approval to purchase the package UPS -TEQIP-II /KL/KLIG19/6 from the eligible lowest quoting firm Novateur Electrical and Digital Systems Pvt. Ltd Cochin, the L1 bidder, for an amount of Rs. 17,83,000/- (Rupees Seventeen Lakh Eighty Three Thousand only) inclusive of all taxes.

### **3. TEQIP-II /KL/KLIG19/10 Network Accessories**

The BOG gave its approval to purchase the package Network Accessories -TEQIP-II/KL/KLIG19/5 from the eligible lowest quoting firm Zerone Technologies Pvt. Ltd New Delhi, the L1 bidder, for Rs. 28,13,058.75/- (Rupees Twenty Eight Lakh Thirteen Thousand Fifty Eight, Paise Seventy Five only) inclusive of all taxes.

#### **4. TEQIP-II /KL/KLIG19/49 Servers**

The BOG gave its approval to purchase the package Servers -TEQIP-II/KL/KLIG19/49 from the only eligible firm Frontier Business Systems Pvt. Ltd Cochin for Rs. 20,90,010/- (Rupees Twenty Lakh Ninety Thousand and Ten only) inclusive of all taxes.

Professor K Narayanan suggested that the terms for AMC for the four NCB Packages should be negotiated, to the benefit of the institution with the firms as above, to whom the award of contract is recommended by the BOG. Sri Jacob Mathew mentioned that care should be taken such that after the warranty period of three years, the AMC amount should be reasonable. The BOG agreed with the above observation.

### **2.3 Status of various civil works packages**

The BOG noted the progress in the various civil works packages. Sri M Sherif enquired about the probable date of completion. The Principal replied that all the civil work packages were expected to be completed in March 2014.

### **2.4 Report of IIIC activities**

The BOG took note of the MOUs signed with industries and the activities conducted under IIIC. Dr V P Devassia enquired whether any conditions mentioning commitments from the part of the Institute, were mentioned in the MOUs. The Principal replied that the MOUs did not include any conditions that would put the Institute to any disadvantage in the future. Professor K Narayanan opined that the industries could be allowed to utilize the facilities in the college, however the decision making authority for this should be the Principal. Sri James Joseph opined that this might benefit the students in getting hands on experience and by interaction with the industry.

### **2.5 Report of the various Academic programs attended by faculty and staff**

The BOG noted the various Academic programmes for faculty and staff conducted at the institute. Professor K Narayanan instructed that faculty should try to go abroad to participate in International Conferences and Training programmes to get exposure to latest developments in technology.

### **2.6 Report of programmes under EAP**

The BOG noted the High Intensity Training Programme on Android and Java and the various remedial classes. Professor K Narayanan suggested that the services of the Professional Counselor could be employed for giving counseling to parents along with the students. The Principal mentioned that peer group of students were formed, with an academically well performing student in charge of a group of academically weaker students, and that a faculty member was put in overall charge of a peer group. He also mentioned that such groups were allowed to use the class rooms for studying, after office hours. This facility was also made available, but not mandatory, for lady students accompanied by lady faculty members who reside near the campus. Sri M Sherif suggested that a peer group could be entrusted to a PG student, to monitor their studies in the college outside working hours. Prof. K Narayanan suggested that if there are a minimum number of lady students to attend such sessions on a particular day, the facility could be extended to them, based on their request.

### **3.1 Summary of Expenditure as on 24.02.2014**

The Principal presented the summary of expenditure as on 24.02.2014. The BOG noted the expenditure incurred till date.

### **3.2 Faculty Position as on 24.02.2014**

The Principal presented the current faculty position. The BOG took note of the same.

### **3.3 Report on Performance Audit**

The Principal reported that the performance audit of the institute was conducted by the Hon'ble Performance Auditor of CE Cherthala, Dr. Suresh Kumar Dhameja, Dean, NITTR, Chandigarh, during 29.1.2014 to 31.01.2014 during which he was accompanied by the Data Auditor Prof. Pradeep R, College of Engineering Trivandrum. The Principal reported that the Hon'ble Performance Auditor had commended the TEQIP Cell of CE Cherthala for the hard work they had put in. The BOG took note of this.

### **3.4 Report on visit of Hon'ble Mentor**

The Principal reported that the second visit of the Hon'ble Mentor Dr. P Pratapachandran Nair, was conducted on February 6<sup>th</sup> and 7<sup>th</sup> of 2014, during which he interacted with the TEQIP Cell, faculty, technical and office staff and alumni. The BOG took note of the same.

### **3.5 Status of the IRG Accounts**

The Principal reported the status of the four IRG accounts. The BOG took note of the same.

#### **4.1 Permission for institutional membership in Professional Bodies**

The Principal requested that permission may be granted for taking institutional memberships in professional Bodies such as IEEE, CSI etc for establishing functional bodies in the college as the same is required to avail of financial and other aids from such bodies for hosting international and national seminars and conferences. Prof. K Narayanan instructed that a letter be written to the SPFU for sanction for the same.

#### **4.2 Guidelines on Payments to student Counselor**

The Principal requested the BOG to issue guidelines on payments to the student counselor. The BOG resolved that this decision may be made by the Principal as per the TEQIP-II guidelines for EAP.

#### **4.3 Research Guidance Council**

The Principal requested that permission may be granted to set up a Research Guidance Council (RGC) for College of Engineering Cherthala, with the Senior Research Advisor Dr. E. Gopinathan as chairman, and Dr. Santosh Kumar, Assistant Professor, Dept. of Computer Science, CUSAT, Mr. Vivekanand V, Engineer (S.E), CSDD, ISRO, Thiruvananthapuram and Mr. Jaison Martin, Senior Project Lead, WIPRO VLSI, Cochin as members to scrutinize the seed money requests and to monitor the progress of such projects. The BOG approved the committee. He also requested to fix norms for honorarium to the RGC members. Professor K Narayanan informed that guidelines are already issued for the same as per the Approved Minutes of the 05<sup>th</sup> Meeting of the State Steering Committee held on 11<sup>th</sup> April 2013, and that no further decision will therefore be necessary from the BOG. This was accepted by the BOG for compliance by the Institute.

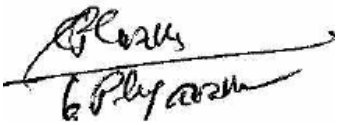
#### **Additional items taken up for discussion**

- Professor K Narayanan instructed that the status of accreditation be reported in the following BOG meeting.
- He also instructed the College of Engineering Cherthala to finalize the immediate financial grant needed from SPFU to meet the expenditure towards the NCB and other packages and to write to the Director of Technical Education and SPFU Director to release this as the next installment of the grant.

The Hon'ble Chairman in his concluding remarks appreciated the quality of the deliberations of the 4<sup>th</sup> BOG meeting. He thanked all the members for attending the meeting and contributing to it by their valuable



suggestions and comments. He once again commended the Principal and the TEQIP Cell of CE Cherthala for their good work. He hoped that this good work would continue. The Hon'ble Chairman called the meeting to end at 1.30 PM.



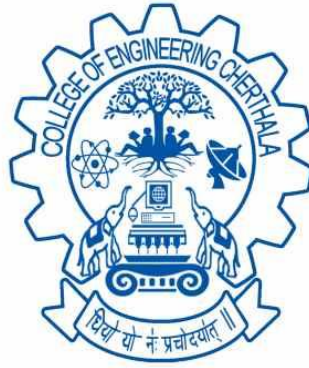
**Dr. C.P Girijavallabhan**  
**Chairman**



**Dr. P Suresh Kumar**  
**Principal**

## ANNEXURE II

TECHNICAL EDUCATION QUALITY IMPROVEMENT  
PROGRAMME Phase II Sub Component I.1



Notes for circulation

COLLEGE OF ENGINEERING CHERTHALA, PALLIPPURAM P.O.,  
ALAPPUZHA-688541, KERALA

Phone: +91 478 2553416

## Item 1

It is proposed to organize the “ International Conference on Information Science 2014 (ICIS'14)” during 4<sup>th</sup> and 5<sup>th</sup> of July 2014. The conference is being organized by the Department of Computer Science and Engineering. As the college lacks facility to host an International Conference of this magnitude, it was recommended in the academic committee dated 31.03.2014 that the conference maybe held at Le Meridian, Nettoor, which is easily accessible from the Airport, National Highway and Railway Station, and also reasonably close to the College of Engineering Cherthala. It was felt that this would attract quality communications and also would result in greater visibility for the institute. The Conference also has collaboration by Computer Society of India. (CSI) Division III, IV & V and its Cochin Chapter. Selected papers from the presented papers will be published in the reputed CSI Journal. The Conference proceedings are to be published by Bonfring Publications, Coimbatore, who submitted the lowest quote for the same. The details of the conference are available at [www.iciscec.in](http://www.iciscec.in).

The main themes of ICIS'14 are

- 1.Cloud & Grid Computing
- 2.Data Mining
- 3.Natural Language Processing
- 4.Network & Communications
- 5.Intelligent Computing
- 6.Security & Cryptography
- 7.Parallel Programming
- 8.Digital Image Processing

182 papers were received and they were double blind reviewed by an expert panel comprising of eminent researchers and academicians, following which 61 papers were selected. The papers are organized into eight sessions over the two days. Each session will be preceded by a keynote address by an eminent person. The conference will be inaugurated by Dr. Paulose Jacob, Pro Vice Chancellor of CUSAT. Some of the eminent academicians and industry experts who will be gracing the conference by their presence and valuable inputs are

1. Dr Partha Dasguptha, Arizona State University
2. Dr. Sandeep Shukla, Virginia Tech Arlington Research Centre
3. Dr. E Gopinathan, former Director, NIT Calicut

4. Dr. B Chandra, IIT Delhi
5. Dr. Anirban Basu, CSI Division 5 chair
6. Dr. Durgesh Misra, CSI Division 4 chair
7. Dr. Shivashankar B Nair, IIT Guwahati
8. Dr. Sushantha Karmakar, IIT Guwahati
9. Dr. Deepak Singh Tomar, NIT Bhopal

An estimate of Rs 14.7 lakhs has been prepared by the Department of Computer Science & Engineering.

The Budget for the conduct of the conference is as shown below,

<b>COLLEGE OF ENGINEERING, CHERTHALA</b>						
<i>International Seminar in Information Science</i>						
	<b>Purpose</b>	<b>Sl No.</b>	<b>Expense Estimate</b>	<b>Unit Price</b>	<b>Quantity</b>	<b>Amount</b>
1	Conference kit	1	Bag	350	150	52500
		2	Pen	10	150	1500
		3	Notepad	40	150	6000
			Badge with Tag	40	150	6000
2	Printing	1	Proceedings	400	150	60000
		3	Brochure	50	300	15000
		5	Certificate	30	150	4500
				<b>Anticipated Expenditure</b>		
3	TA for external delegates(flight charge only)	1	Dr. Niladri (Chair)			18000
		2	Dr. Chandra B			22000
		3	Dr. Sivashankar B. Nair (Key Note)			16000
		4	Dr. Deepak Singh (Chair)			30000
		5	Dr. Susantha Karmakar (Key Note)			23000
		6	Dr. Partha Dasguptha(Key Note)			225000
		7	Dr. Anirban Basu			10000
		8	Dr. Durgesh Mishra			25000
		9	Dr. H R Mohan			8172
		10	Dr. Viswakarma			2500
		11	Dr. Sandeep Shukla(Key Note)		will be borne by ACM	
4	TA for external delegates(excluding flight charge)	1	Dr. Niladri (Chair)			2000
		2	Dr. Chandra B			2000
		3	Dr. Sivashankar B. Nair (Key Note)			2000
		4	Dr. Deepak Singh (Chair)			2000
		5	Dr. Susantha Karmakar (Key Note)			2000
		6	Dr. Partha Dasguptha(Key Note)			2000
		7	Dr. Anirban Basu			2000
		8	Dr. Durgesh Mishra			2000

		9	Dr. H R Mohan			2000
		10	Dr. Sandeep Shukla(Key Note)			2000
		11	Dr. Viswakarma			2000
		12	Dr.Thomas Kutty Mathew			1000
		13	Dr.Elizabeth Sherly			2000
		14	Dr.Rajesh Cheritan Roy			2000
		15	Dr.Vrinda Nair			2000
5	Remuneration for external delegates	1	Dr. Niladri (Chair)		2 days	10000
		2	Dr. Chandra B		2 days	10000
		3	Dr. Sivashankar B. Nair (Key Note)		1 day	5000
		4	Dr. Deepak Singh (Chair)		2 days	6000
		5	Dr. Susantha Karmakar (Key Note)		2 days	10000
		6	Dr. Partha Dasguptha(Key Note)		1 day	5000
		7	Dr. AnirbanBasu		1 day	3000
		8	Dr. Durgesh Mishra		1 day	3000
		9	Dr. H R Mohan		2 days	6000
		10	Dr. Sandeep Shukla(Key Note)		will be borne by ACM	0
		11	Dr. Viswakarma		1 day	3000
		12	Dr.Thomas Kutty Mathew		1 day	3000
		13	Dr.Elizabeth Sherly		1 day	3000
		14	Dr.Rajesh Cherian Roy		1 day	3000
		15	Dr.Vrinda Nair		1 day	3000
6	Accommodation for external delegates	1	Dr. Niladri (Chair)			10500
		2	Dr. Chandra B			7000
		3	Dr. Sivashankar B. Nair (Key Note)			7000
		4	Dr. Deepak Singh (Chair)			10500
		5	Dr. Susantha Karmakar (Key Note)			10500
		6	Dr. Partha Dasguptha(Key Note)			10500
		7	Dr. AnirbanBasu			10500
		8	Dr. H R Mohan			7000
		9	Dr. Sandeep Shukla(Key Note)			11000
		10	Dr. H R Viswakarma			3500
		11	Durgesh Mishra			3500
7	Venue		inclusive of rent for two auditoria, food for all delegates- (lunch, high tea, tea and cookies, mineral water for delegates), light and sound, multimedia projection facility, auditoria internal decorations, platforms, outside decorations			700000
8	Miscellaneous					50000
TOTAL						1468672

Action Sought:

*The BOG may kindly approve the conduct of the conference and the anticipated Budget.*

## Item 2

Dr. Vinu Thomas, Associate Professor in Electronics, has submitted a request for travel support under the International Travel Support Scheme (ITSS) of TEQIP-II to present his paper “Pectoral Muscle Boundary detection – A pre-processing method for early breast cancer detection” at the World Automation Congress-2014 (WAC-2014) at Hawaii during August 3-7, 2014. The registration fee of US \$ 600/- has been paid by him towards participation in the conference. The receipt for payment of the registration fees and the invitation letter is attached for reference. The final decision on ITSS support will be taken by the SPFU. Dr. Vinu Thomas has intimated that the travel expenditure along with the expenditure for accommodation etc. will come to around Rs. 3.5 lakhs.


### Action Sought:

*The BOG may kindly approve the request for travel.*

EDAS (1028137 - rekha@n... x | Inbox (566) - rekha@mec... x | Registration payment rece... x

← → ↻ edas.info/showReceipt.php?payment=123539

### Registration payment receipt for WAC 2014 (2014 World Automation Congress (WAC))

 EDAS Conference Services LLC  
313 Westview Ave  
Leonia, NJ 07605  
USA

Code	Description	Attendee	Event date	Registered	Invoice amount	Cancelled?
R1:R	Regular Registration	Vinu Thomas		May 12, 2014 11:41 PM	USD 600.00	

#### Payment details

Account	1028137
Invoice number	123539
Paid	May 15, 2014 04:17:37 EDT
Payment method	creditcard
Credit card number and transaction	...7489: 84C02427EP0000709
Amount paid	\$600.00
Address	Dr. Vinu Thomas Nandikkattu house, Santhipuram-99 Near St. Antony's church, Thrikakkara(P.O), kochi-682021, Kerala, India

#### Papers covered by this payment

R1	1569911467	Pectoral Muscle Boundary detection - A preprocessing method for early breast cancer detection
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Windows taskbar: Internet Explorer, Google Chrome, VLC, Firefox, Word, PDF Reader, etc.

## ANNEXURE III



## MENTOR'S REPORT FORM (1)

NAME OF MENTOR:Dr. P. Pratapachandran Nair

DATES OF MENTORING VISIT: 12<sup>th</sup> & 13<sup>th</sup> August 2014

NAME OF INSTITUTION WITH LOCATION:College of Engineering, Cherthala

No.	SEVEN KEY ASPECTS	QUALITATIVE SUMMARY AND SUPPORTING EVIDENCE OF PROGRESS COMPONENT1: IMPROVING THE QUALITY OF EDUCATION	PROGRESS SINCE PREVIOUS VISIT
1.1	STRENGTHENING INSTITUTIONS TO IMPROVE LEARNING OUTCOMES AND EMPLOYABILITY OF GRADUATES	Cochin university had revised the curriculum and syllabi in 2012 and more electives are offered. 38 faculty were sent for subject updation programme and 15 FDP were conducted in the college. 2 staff development programmes were conducted in house and 9 supporting staff attended training programmes outside the institution. One International Conference on "Information Science" was successfully conducted by the Computer Science Dept. in July 2014. One faculty member presented a paper in the International conference WAC-2014 in Hawaii, USA. Another faculty member presented a paper in the International conference held at TKM college of Engineering, Kollam. Laboratories have been modernized and 22 class rooms are provided with LCD projectors. 4 class rooms and one seminar hall are made smart. 36 students have been placed so far. Soft skill training is imparted to the final year students.	The result of the first year students has not yet come. Even though there is a slight decline in the cumulative result of the final year students, the overall result of the college is 4 <sup>th</sup> in the Cochin university. Pass percentage of the M. Tech CSE students is 83.3%
1.2	SCALING UP POSTGRADUATE EDUCATION AND DEMAND-DRIVEN	Two M. Tech programmes are offered in the college. 36 students are offered assistance ship. No additional	Progress is seen.

	RESEARCH, DEVELOPMENT AND INNOVATION	courses are started. PG laboratories are modernized. Rail Net connection with 1 GBPS is provided. Campus networking is over. 2 faculty members are undergoing PhD programme and 1 for M. Tech programme under QIP.	
1.2.1	ESTABLISHING CENTRES OF EXCELLENCE	Centre for excellence in Signal Processing is to be initiated.	Slight progress is seen
1.3	FACULTY DEVELOPMENT FOR EFFECTIVE TEACHING(PEDAGOGICAL TRAINING)	To be initiated	Action from SPFU is needed.
<b>COMPONENT 2: IMPROVING SYSTEM MANAGEMENT</b>			
2.1	CAPACITY BUILDING TO STRENGTHEN MANAGEMENT	4 senior members of faculty have undergone training in IIMs and 4 senior faculty have attended courses on "Accreditation"	Progress is observed.
2.1.1	IMPLEMENTATION OF GOOD INSTITUTIONAL GOVERNANCE	4 B.O.Gs had been conducted so far and the 5 <sup>th</sup> meeting is scheduled on 5 <sup>th</sup> September 2014. SDP for Good Governance has been prepared and sent to NPIU.	Progress is seen.
2.2	PROJECT MANAGEMENT, MONITORING AND EVALUATION	Governing body takes interest in the implementation of the project. Regular review meetings are held by SPFU, Kerala for monitoring the progress. One performance audit had been conducted in January 2014. The report seems to be satisfactory.	Progress is seen.

**MENTOR'S REPORT FORM (2)**

NAME OF MENTOR: Dr. P. Pratapachandran Nair

DATES OF MENTORING VISIT: 12<sup>th</sup> & 13<sup>th</sup> August 2014

NAME OF INSTITUTION WITH LOCATION: College of Engineering, Cherthala

No.	LIST OF INTERVIEWS	KEY DISCUSSION SUMMARY POINTS
1.	UNDERGRADUATE STUDENTS	Transparent student evaluation. Online evaluation of teachers carried out twice in a semester and corrective actions based on the students feedback is taken. Only one industrial visit was carried out. More visits to be conducted. Placement activities to be improved. A new canteen is planned with PTA fund. A new stadium is planned using MLA fund. Hostels to be provided. More students to register in the professional societies like IEEE, CSI, IE (I), ISTE, etc.
2.	POSTGRADUATE STUDENTS	Bus facility to be improved. Industrial tie up is needed to get good projects.
3.	FACULTY	Mentoring of students to be improved. Industry institution tie up to be improved to get good projects and consultation activities. Shortage of regular faculty and filling up positions like Associate Professor, Professor, etc. Pedagogical training is yet to be arranged.
4.	SENIOR MANAGEMENT	Satisfactory progress in implementation of the project.
5.	MEMBERS OF THE GOVERNING BODY	External members were not available
6.	INDUSTRY REPRESENTATIVES	Not available
7	HEAD OF THE INSTITUTION	So far 5.5 crores was received. To meet the committed expenditure more fund is required. All 75 packages are initiated. Shortage of regular faculty and filling up the post of Professor, Associate Professor, etc. is

		<p>to be urgently required since the institution is to upload the SAR for NBA accreditation of the courses by November 2014. Construction of hostels for boys and girls needs immediate attention.</p> <p>Research laboratories to be set up in the disciplines where M. Tech Programmes are offered (ECE and CSE). Research proposals from faculty to be sent to Senior Research Advisor. Academic tie up with IITs or NITs to be initiated. Soft skill training to be given to the students from the first year onwards</p>
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**ANNEX3 (3)**

**MENTOR'S REPORT FORM (3)**

NAME OF MENTOR: Dr. P. Pratapachandran Nair

DATES OF MENTORING VISIT: 12<sup>th</sup>& 13<sup>th</sup> August 2014

NAME OF INSTITUTION WITH LOCATION: College of Engineering, Cherthala

No.	RECORD OF KEY POINTS (Discussed with Head of the Institution, Chair of the Governing Body)	INSTITUTIONAL RESPONSE	NOTE OF ANY FOLLOW-UP NEEDED BY MENTORS, SPFU,NPIU
1.	Shortage of regular faculty and supporting staff. Filling up the posts of Professor, Associate Professor, etc.	The same was brought to the attention of the higher authorities.	Even though the problem was discussed in the Review Committee meetings, no action has taken place.
2.	Additional space requirement to offer new courses	One academic block funded by NABARD is to be completed by March 2015.	NA
3.	Lack of hostels for boys and girls	The same is brought to the notice of higher authorities	NA
4.	Pedagogical training for faculty	Brought to the notice of SPFU, NPIU	Urgent action from SPFU, NPIU is needed.

