AGENDA

of

Second Meeting of Board of Governors, College of Engineering Karunagappally on 30th October 2013 at 9.30 am

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Second Meeting of Board of Governors of College of Engineering Karunagappally on 30/10/2013 at 9.30 AM under the Chairmanship of Hon. Chairman Prof. V.P.N Nampoori

Agenda:

Silent Prayer

Item No. 1 / BOG 2: **Welcome address by the Principal and reporting about the college:**

Prof. Hari V S.

A brief report on developments of the college and TEQIP activities after first BOG meeting

Item No. 2 / BOG 2: **Approval of the minutes of the previous BoG meeting**

The minutes of first BOG meeting held on 22.6.2013 was sent to the Hon. Chairman and now placed before the BOG for approval.

Item No. 3 / BOG 2: Review of Procurement Activity and ratification of revision in Procurement Plan

The procurement plan as presented in the last BOG meeting was submitted to NPIU in the PMSS (Procurement Management Support System) web site on 15.6.2013 and the same was approved by the NPIU on 04.7.2013. Total number of packages submitted in the PMSS was 112. NPIU has permitted the revision of the Procurement Plan till 31.10.2013. As requested by various departments the Procurement plan was revised due to the changes in specification, price etc. without changing the total number of packages. Out of these packages, 6 packages have been completed, purchase order has been issued for 12 packages, work order issued for 5 packages and another 31 packages are initiated. The revised Procurement Plan and details of all the packages are given in Annexure 1. This is placed before the BOG and request to ratify the changes in the procurement paln.

While srutinising the quotations it was found that price variations were there in most of the initiated packages, from the budgeted expenditure. The list of packages with price variation is indicated in Annexure 2. Five packages under goods are cancelled due to very high rate of quoted price. One package under civil works, Electrification of Labs, is also cancelled. Deleted and Newly added packages are also included in the Annexure 2. It is requested that the price revisions of these packages be ratified.

Item No. 4 / BOG 2: Review of Academic Activities Conducted

The different academic activities conducted under TEQIP are as follows.

4.1 Faculty and Staff Programme

4.1.1 In-House Programmes conducted
The list of in-house programmes conducted is attached as Annexure 3.

4.1.1 Oustation Programmes attended

The list of outstation programmes attended by the faculty, technical staff and library staff is attached as Annexure 4.

4.2 Industry Institute Interaction Cell Activity

The various activities conducted by III Cell is given as Annexure 5.

4.3 Research and Development

In the previous BOG meeting Prof. E. Gopinathan, former Director NIT Calicut has been approved as the SRA of CE Karunagappally. As per the Minutes of the Review of Progress of TEQIP II in the Project Institutions of Kerala, held from 29th January to 4th February 2013, in the presence of Mentors, DTE and SPFU Officials vide Clause 3.2 it was decided that for promoting Research Initiatives of faculty members under R&D, with the approval of the BoG, the Project Institutions may invite applications for one time Seed Money as Research Assistance. For granting seed money, a Research Guidance Committee (RGC) has been constituted with SRA Prof. E. Gopinathan as the Chairman.
The details of the committee are given in Annexure 6. The guidelines and application form for seed money are attached as Annexure 7. The proposal is placed before the BOG for approval.

4.4 Activities under Equity Action Plan

The various activities conducted under Equity Action Plan is given as Annexure 8.
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Item No 5 / BOG 2: Ratification of appointment of project staff.

As approved in the first BOG meeting, a Committee was formed for selecting Junior Accountant/Clerk and Data Entry Operator. As per the Extract of the Approved Minutes of the 05th Meeting of the State Steering Committee held on 11th April 2013 attached as Annexure-9 and GO added as Annexure-10, TEQIP institutions are directed to appoint one MIS officer on contract basis for a consolidated monthly salary of Rs. 25000/- . The qualification and experience required for the post are B Tech in Computer Science & Engineering or Information Technology/MCA with minimum experience of 2 (two) years in data processing. A committee for this purpose was formed with Principal as Chairman and TEQIP Coordinator, HOD Computer Science as members and Prof. Smithadharan, Associate Professor in CS, CE Chengannur as an expert. Test and Interviews to the posts of MIS Officer, Junior Accountant/Clerk and Data Entry Operator were held with the assistance of experts. The following persons were appointed to the above posts after Test and Interview:

Sl. No.	Post	Name of Officer appointed	Date of Appointment
1	Junior Accountant/Clerk	Shanida Lthief	08.7.2013
2	Data Entry Operator	Dini M	08.7.2013
3	MIS Officer	Rijo George	12.8.2013

These appointments may kindly be ratified.

Item No 6 / BOG 2: Ratification of expenditure incurred under various components

The expenditure incurred till date is shown as Annexure 11. The same may kindly be ratified.

Item No 7 / BOG 2: Action plan for Procurement for the remaining project duration.

The action plan to complete the procurement is given as Annexure 12. The same may kindly be approved.

Item No 8/ BOG 2: Action plan for Academic Programmes

The action plan prepared by the Academic Committee for the Academic programmes is shown as Annexure 13. The same may kindly be approved.

Item No 9/ BOG 2: Approval of revised committee members

Mrs. Libi A, HOD EEE requested to relieve her from the charge of Finance Coordinator due to personal reasons. Hence Sri. Premnath, Assistant Prof. in ME has been given the charge of Finance Coordinator. The action taken in this regard may be ratified.

Item No 10/ BOG 2:   Any other item with the permission of the Chair

1. Built-up space

2. Faculty strength

3. Faculty position in the higher post

Annexure 1

Procurement Activities

	PACKAGES COMPLETED							
Sl No	Name of Package	Package Code	Sub Category	Status	Estimated Cost (Rs)	Quoted Cost (Rs)	Difference (Rs)	Percentage variation
1	Duplicating Machine	TEQIP II/KL/KL1G18/65	Equipment	Completed	1,32,673.00	1,51,900.00	19227	**-14.4**
2	HFSS Software	TEQIP II/KL/KL1G18/25	Equipment	Completed	6,00,000.00	6,60,000.00	60000	**-10**
3	Matlab Software	TEQIP II/KL/KL1G18/1	Equipment	Completed	9,42,595.00	9,94,438.00	51843	-5.5
4	Multimedea Projectors	TEQIP II/KL/KL1G18/85	Equipment	Completed	4,28,000.00	4,90,060.00	62060	**-14.5**
5	Tool kit	TEQIP II/KL/KL1G18/55	Minor Items	Completed	12,000.00	14,313.00	2313	**-19.27**
	TOTAL COMPLETED					23,10,711.00		

CIVIL WORKS

Sl No	Name of Package	Package Code	Sub Category	Status	Estimated Cost (Rs)	Quoted Cost (Rs)	Difference (Rs)	Percentage variation
6	Ceiling work of Computer lab	TEQIP II/KL/KL1G18/133	Refurbishment works	Work order	2,00,000.00			

Sl No	Name of Package	Package Code	Sub Category	Status	Estimated Cost (Rs)	Quoted Cost (Rs)	Difference (Rs)	Percentage variation
7	Extension of Generator Room	TEQIP II/KL/KL1G18/130	Extension of Buildings	Work order	14,75,000.00			
8	Foundations for Machines	TEQIP II/KL/KL1G18/131	Refurbishment works	Work order	2,00,000.00			
9	Partitioning work	TEQIP II/KL/KL1G18/127	Refurbishment works	Work order	11,40,000.00			
10	Refurbishment work of labs	TEQIP II/KL/KL1G18/132	Refurbishment works	Work order	7,10,617.00			
			TOTAL WORKS COMMITTED		**37,25,617.00**			

GOODS

Sl No	Name of Package	Package Code	Sub Category	Status	Estimated Cost (Rs)	Quoted Cost (Rs)	Difference (Rs)	Percentage variation
11	Accounting Software Tally	TEQIP II/KL/KL1G18/158	Minor Items	Purchase Order	18,000.00	17900	100	0.5
12	Adobe Software	TEQIP II/KL/KL1G18/5	Equipment	PO	3,40,000.00	314204	25796	7.58
13	Barcode scanner	TEQIP II/KL/KL1G18/122	Minor Items	PO	24,980.00	24,990.00	10	0.04
14	Computer Hardware Accessories	TEQIP II/KL/KL1G18/34	Equipment	PO to be given	6,68,710.00			
15	DC Machines	TEQIP II/KL/KL1G18/72	Equipment	PO to be given	8,40,000.00			
16	DC Power supply	TEQIP II/KL/KL1G18/19	Equipment	PO to be given	6,48,000.00			
17	Digital IC Tester	TEQIP II/KL/KL1G18/23	Equipment	PO to be given	60,000.00			
18	Digital IC Trainer kit	TEQIP II/KL/KL1G18/29	Equipment	PO to be given	2,00,000.00			

19	DSP starter kit	TEQIP II/KL/KL1G18/11	Equipment	PO to be given	3,75,000.00			
20	Equipment for Smart class room	TEQIP II/KL/KL1G18/10	Equipment	PO to be given	5,65,406.00	4,00,000.00	165406	**29.25**
21	Fitting tools	TEQIP II/KL/KL1G18/57	Equipment	PO to be given	3,68,775.00	1,63,042.00	205733	**55.78**
22	Foundry tools	TEQIP II/KL/KL1G18/95	Equipment	PO	96,010.00	34,854.00	61156	**63.7**
23	Function Generator	TEQIP II/KL/KL1G18/20	Equipment	PO to be given	9,50,000.00			
24	General Engineering tools	TEQIP II/KL/KL1G18/100	Equipment	PO	1,45,515.00	79,639.00	65879	**45.27**
25	Hardware for Network Lab	TEQIP II/KL/KL1G18/41	Equipment	PO	50,000.00	33,160.00	16840	**33.68**
26	Library EEE	TEQIP II/KL/KL1G18/114	Books & Learning Resources	PO	4,22,800.00	2,90,000.00	132800	**31.41**
27	Mac System	TEQIP II/KL/KL1G18/32	Equipment	PO to be given	2,42,300.00			
28	Measuring Instruments I	TEQIP II/KL/KL1G18/31	Equipment	PO	1,34,400.00	1,05,687.60	28713	**21.36**
29	Measuring Instruments II	TEQIP II/KL/KL1G18/38	Equipment	PO to be given	73,600.00			
30	Microsoft OVS-ES agreement	TEQIP II/KL/KL1G18/123	Books & Learning Resources	PO to be given	2,10,000.00			
31	N Computing System	TEQIP II/KL/KL1G18/4	Equipment	PO	4,66,500.00	422100	44400	9.5

32	Network Simulator and trainer kit	TEQIP II/KL/KL1G18/40	Equipment	PO	2,27,462.00	227462	0	0
33	Open Hardware	TEQIP II/KL/KL1G18/27	Equipment	PO	1,24,000.00			
34	ORCAD	TEQIP II/KL/KL1G18/22	Equipment	PO	2,50,000.00	2,62,500.00	12500	5
35	Power Lab KIt	TEQIP II/KL/KL1G18/54	Equipment	PO to be given	1,19,000.00			
36	Power Quality Analyser	TEQIP II/KL/KL1G18/82	Equipment	PO to be given	4,50,000.00			
37	PROTEUS PCB Design Software	TEQIP II/KL/KL1G18/151	Equipment	PO to be given	3,20,000.00			
38	Spectrum analyzer	TEQIP II/KL/KL1G18/58	Equipment	PO to be given	6,00,000.00			
39	Universal Software Radio Perpheral	TEQIP II/KL/KL1G18/63	Equipment	PO to be given	6,00,000.00			
40	Wifi Dongle and Screen for Projectors	TEQIP II/KL/KL1G18/159	Minor Items	PO to be given	24,500.00			
41	Workstation Computer	TEQIP II/KL/KL1G18/153	Equipment	PO to be given	2,45,000.00			
42	ID card printing machine	TEQIP II/KL/KL1G18/91	Equipment	PO	80,000.00	94,000.00	14000	4.4
43	LAN Trainer	TEQIP II/KL/KL1G18/14	Equipment	Tabulation	1,10,000.00			
44	Microwave components	TEQIP II/KL/KL1G18/36	Equipment	Tabulation	1,94,000.00			
45	Rectifier Unit	TEQIP II/KL/KL1G18/77	Equipment	Tabulation	3,70,000.00			
46	Rheostats	TEQIP	Equipment	Tabulation	2,32,400.00			

		II/KL/KL1G18/60						
47	Servo motor	TEQIP II/KL/KL1G18/51	Minor Items	Tabulation	20,000.00			
48	Voltage Stabilizer	TEQIP II/KL/KL1G18/17	Equipment	Tabulation	1,08,000.00			
49	Carpentry Tools for ME Workshop	TEQIP II/KL/KL1G18/155	Equipment	Initiated	43,600.00			
50	Laptop System	TEQIP II/KL/KL1G18/84	Equipment	Initiated	8,75,000.00			
National Competetive Bid (NCB) Initiated								
51	Desktop Computer	TEQIP II/KL/KL1G18/13	Equipment	Initiated	88,56,000.00			
52	Campus networking	TEQIP II/KL/KL1G18/128	Equipment	Initiated	24,99,400.00			
53	Digital Storage Oscilloscope	TEQIP II/KL/KL1G18/	Equipment	Initiated	27,85,000.00			
TOTAL					**2,60,33,358.00**			
GRAND TOTAL FOR COMPLETED/COMMITTED/PIPELINE PACKAGES					**3,20,69,686.00**			

PACKAGES TO BE INITIATED						
Sl No	**Name of Package**	**Package Code**	**Sub Category**	**Method of Purchase**	**Estimated Cost (Rs)**	**Remarks**
1	Server Computer	TEQIP II/KL/KL1G18/9	Equipment	Shopping	8,69,000.00	
2	FPGA Trainer kits	TEQIP II/KL/KL1G18/12	Equipment	Shopping	3,25,000.00	
3	Bread Board	TEQIP II/KL/KL1G18/16	Minor Items	Direct Contract	24,000.00	

4	Multimeter	TEQIP II/KL/KL1G18/18	Equipment	Shopping	1,94,000.00	
5	Keil Software	TEQIP II/KL/KL1G18/24	Equipment	Direct Contract	2,60,000.00	
6	Soldering Iron	TEQIP II/KL/KL1G18/30	Equipment	Shopping	71,000.00	
7	Vaccum Cleaner	TEQIP II/KL/KL1G18/35	Minor Items	Direct Contract	11,000.00	
8	Tablet PC	TEQIP II/KL/KL1G18/37	Equipment	Shopping	1,48,000.00	
9	PCB Lab equipment	TEQIP II/KL/KL1G18/44	Equipment	Shopping	70,000.00	
10	Water Dispensor	TEQIP II/KL/KL1G18/46	Minor Items	Direct Contract	18,000.00	
11	AEE Lab Trainer Kit	TEQIP II/KL/KL1G18/47	Equipment	Shopping	1,44,500.00	
12	Microprocessors and microcontrollers	TEQIP II/KL/KL1G18/48	Equipment	Shopping	5,83,000.00	
13	Relays	TEQIP II/KL/KL1G18/50	Equipment	Shopping	1,30,000.00	
14	Photocopier machines	TEQIPII/KL/KL1G18/59	Equipment	Shopping	1,50,000.00	
15	Printer and scanner	TEQIP II/KL/KL1G18/62	Equipment	Shopping	2,30,800.00	
16	Transformers	TEQIP II/KL/KL1G18/66	Equipment	Shopping	1,56,000.00	
17	Language Laboratory Software	TEQIP II/KL/KL1G18/68	Equipment	Shopping	1,10,000.00	
18	Television	TEQIP II/KL/KL1G18/69	Equipment	Shopping	47,000.00	
19	Digital meters Electrical	TEQIP II/KL/KL1G18/70	Equipment	Shopping	66,300.00	

20	AC Machines	TEQIP II/KL/KL1G18/75	Equipment	Shopping	5,65,000.00	
21	Air Conditioner	TEQIP II/KL/KL1G18/83	Equipment	Shopping	9,50,000.00	
22	UPS	TEQIP II/KL/KL1G18/87	Equipment	NCB	31,90,000.00	
23	Firewall	TEQIP II/KL/KL1G18/89	Equipment	Shopping	2,30,000.00	
24	Fire Extinguisher	TEQIP II/KL/KL1G18/92	Equipment	Shopping	52,500.00	
25	Weighing Machine	TEQIP II/KL/KL1G18/94	Minor Items	Direct Contract	4,250.00	
26	E TAP Software	TEQIPII/KL/KL1G18/103	Equipment	Direct Contract	1,80,000.00	
27	Lab View Software	TEQIPII/KL/KL1G18/104	Equipment	Direct Contract	6,00,000.00	
28	PSCAD software	TEQIP II/KL/KL1G18/105	Equipment	Direct Contract	4,45,000.00	
29	Library Environmental and Social Science	TEQIPII/KL/KL1G18/108	Books & Learning Resources	Shopping	2,43,295.00	
30	Library CS	TEQIP II/KL/KL1G18/109	Books & Learning Resources	Shopping	6,69,774.00	
31	EPBAX System	TEQIP II/KL/KL1G18/110	Equipment	Shopping	2,00,000.00	
32	Library IT	TEQIP II/KL/KL1G18/111	Books & Learning Resources	Shopping	6,47,280.00	
33	Library EC1	TEQIP II/KL/KL1G18/112	Books & Learning Resources	Shopping	5,51,736.00	
34	Library EC2	TEQIP II/KL/KL1G18/113	Books & Learning Resources	Shopping	3,91,500.00	

35	Library Mechanical	TEQIP II/KL/KL1G18/115	Books & Learning Resources	Shopping	73,260.00	
36	Library Applied science	TEQIP II/KL/KL1G18/116	Books & Learning Resources	Shopping	2,59,204.00	
37	E-Journal Springer	TEQIP II/KL/KL1G18/117	Books & Learning Resources	Direct Contract	1,67,210.00	
38	E-Journal Wiley	TEQIP II/KL/KL1G18/118	Books & Learning Resources	Direct Contract	79,970.00	
39	E- Journal MGH Access Engineering	TEQIP II/KL/KL1G18/119	Books & Learning Resources	Direct Contract	1,15,545.00	
40	E- Journal Elsevier	TEQIP II/KL/KL1G18/120	Books & Learning Resources	Direct Contract	3,81,517.00	
41	E - Journal ASTM Digital Library	TEQIP II/KL/KL1G18/121	Books & Learning Resources	Direct Contract	61,930.00	
42	CC TV camera	TEQIP II/KL/KL1G18/124	Equipment	Shopping	45,000.00	
43	Unitized sub-station	TEQIP II/KL/KL1G18/125	Equipment	NCB	17,00,000.00	
44	Furniture Seminar Hall	TEQIP II/KL/KL1G18/135	Furniture	Shopping	3,19,000.00	
45	Furniture Office	TEQIP II/KL/KL1G18/136	Furniture	Shopping	7,82,500.00	
46	Furniture Mechanical	TEQIP II/KL/KL1G18/137	Furniture	Shopping	2,90,000.00	
47	Furniture for Lab and classroom	TEQIP II/KL/KL1G18/138	Furniture	Shopping	9,04,750.00	
48	Furniture -Faculty	TEQIP II/KL/KL1G18/139	Furniture	Shopping	3,20,000.00	
49	Furniture Desk and Bench	TEQIP II/KL/KL1G18/140	Furniture	Shopping	3,00,000.00	

50	Public Address System	TEQIP II/KL/KL1G18/144	Equipment	Shopping	1,00,000.00	
51	PLC Trainer Kits	TEQIP II/KL/KL1G18/145	Equipment	Shopping	1,60,000.00	
52	DC Motor Alternator set	TEQIP II/KL/KL1G18/150	Equipment	Shopping	5,60,000.00	
53	Diesel Generator Set	TEQIP II/KL/KL1G18/152	Equipment	Shopping	8,10,000.00	
54	Hardware for Project Lab	TEQIP II/KL/KL1G18/156	Equipment	Shopping	1,78,000.00	

Packages Cancelled

Sl No	Package Name	Package Code	Sub	Estimated Cost (Rs)	Reason for cancelling
1	Antivirus software	KL1G18/49	Minor Items	14,000.00	The rate quoted was more than 25%
2	Carpentry tools	KL1G18/98	Minor Items	17,415.00	The estimated cost was low and the least quoted price was above 25% of the estimated price.
3	Network analyzer	KL1G18/56	Equipment	9,00,000.00	The estimated cost was low and the least quoted price was above 25% of the estimated price
4	Scanner for DIP Lab	KL1G18/8	Equipment	93,000.00	The least quoted price is above 25% of the

					estimated price
5	Tally software	KL1G18/80	Books & Learning Resources	18,000.00	Proprietery item changed to DC
6	CADENCE Design Software	TEQIP II/KL/KL1G18/107	Equipment	6,50,000.00	The price quoted is high
7	Elecrical work	TEQIP II/KL/KL1G18/126	Refurbishment works	12,74,383.00	The firms quoted for only 3 items against 7 items in the quotation.

ANNEXURE 2
REVISIONS OF PROCUREMENT PLAN

			PACKAGES COMPLETED					
Sl No	Name of Package	Package Code	Sub Category	Status	Estimated Cost (Rs)	Quoted Cost (Rs)	Difference (Rs)	Percentage variation
1	Duplicating Machine	TEQIP II/KL/KL1G18/65	Equipment	Completed	1,32,673.00	1,51,900.00	19227	-14.4
2	HFSS Software	TEQIP II/KL/KL1G18/25	Equipment	Completed	6,00,000.00	6,60,000.00	60000	-10
3	Matlab Software	TEQIP II/KL/KL1G18/1	Equipment	Completed	9,42,595.00	9,94,438.00	51843	-5.5
4	Multimedea Projectors	TEQIP II/KL/KL1G18/85	Equipment	Completed	4,28,000.00	4,90,060.00	62060	-14.5
5	Tool kit	TEQIP II/KL/KL1G18/55	Minor Items	Completed	12,000.00	14,313.00	2313	-19.27
	TOTAL COMPLETED					23,10,711.00		

CIVIL WORKS

Sl No	Name of Package	Package Code	Sub Category	Status	Estimated Cost (Rs)	Quoted Cost (Rs)	Difference (Rs)	Percentage variation
6	Ceiling work of Computer lab	TEQIP II/KL/KL1G18/133	Refurbishment works	Work order	2,00,000.00			

					Estimated Cost (Rs)			
7	Extension of Generator Room	TEQIP II/KL/KL1G18/130	Extension of Buildings	Work order	14,75,000.00			
8	Foundations for Machines	TEQIP II/KL/KL1G18/131	Refurbishment works	Work order	2,00,000.00			
9	Partitioning work	TEQIP II/KL/KL1G18/127	Refurbishment works	Work order	11,40,000.00			
10	Refurbishment work of labs	TEQIP II/KL/KL1G18/132	Refurbishment works	Work order	7,10,617.00			
			TOTAL WORKS COMMITTED		**37,25,617.00**			

GOODS

Sl No	Name of Package	Package Code	Sub Category	Status	Estimated Cost (Rs)	Quoted Cost (Rs)	Difference (Rs)	Percentage variation
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13	Barcode scanner	TEQIP II/KL/KL1G18/122	Minor Items	PO	24,980.00	24,990.00	10	0.04
20	Equipment for Smart class room	TEQIP II/KL/KL1G18/10	Equipment	PO to be given	5,65,406.00	4,00,000.00	165406	29.25
21	Fitting tools	TEQIP II/KL/KL1G18/57	Equipment	PO to be given	3,68,775.00	1,63,042.00	205733	55.78
22	Foundry tools	TEQIP II/KL/KL1G18/95	Equipment	PO	96,010.00	34,854.00	61156	63.7
24	General Engineering tools	TEQIP II/KL/KL1G18/100	Equipment	PO	1,45,515.00	79,639.00	65879	45.27

25	Hardware for Network Lab	TEQIP II/KL/KL1G18/41	Equipment	PO	50,000.00	33,160.00	16840	33.68
26	Library EEE	TEQIP II/KL/KL1G18/114	Books & Learning Resources	PO	4,22,800.00	2,90,000.00	132800	31.41
28	Measuring Instruments I	TEQIP II/KL/KL1G18/31	Equipment	PO	1,34,400.00	1,05,687.60	28713	21.36
31	N Computing System	TEQIP II/KL/KL1G18/4	Equipment	PO	4,66,500.00	422100	44400	9.5
32	Network Simulator and trainer kit	TEQIP II/KL/KL1G18/40	Equipment	PO	2,27,462.00	227462	0	0
34	ORCAD	TEQIP II/KL/KL1G18/22	Equipment	PO	2,50,000.00	2,62,500.00	12500	5
42	ID card printing machine	TEQIP II/KL/KL1G18/91	Equipment	PO	80,000.00	94,000.00		4.4

Packages Cancelled

Sl No	Package Name	Package Code	Sub	Estimated Cost (Rs)	Reason for cancelling
1	Antivirus software	KL1G18/49	Minor Items	14,000.00	The rate quoted was more than 25%
2	Carpentry tools	KL1G18/98	Minor Items	17,415.00	The estimated cost was low and the least quoted price was above 25% of the estimated price.
3	Network analyzer	KL1G18/56	Equipment	9,00,000.00	The estimated cost was low and the least quoted price was above 25% of the estimated price
4	Scanner for DIP Lab	KL1G18/8	Equipment	93,000.00	The least quoted price is above 25% of the estimated price
5	Tally software	KL1G18/80	Books & Learning Resources	18,000.00	Proprietery item changed to DC
6	CADENCE Design Software	TEQIP II/KL/KL1G18/107	Equipment	6,50,000.00	The price quoted is high
7	Elecrical work	TEQIP II/KL/KL1G18/126	Refurbishment works	12,74,383.00	The firms quoted for only 3 items against 7 items in the quotation.

Annexure 3

List of Inhouse Programmes Conducted

Sl. No.	Title of the Programme	Coordinator and Dept	Duration	No. of Participants		Amount Spent
				External	Internal	(Rs)
1	Speech processing	Deepa V.S, Sylish S V, EC Dept	27/5/13 - 29/5/13	6	24	35609
2	Web technologies through PHP	Smitha P, Shajy L, IT Dept	24/6/13 - 29/6/13	5	25	83500
3	Data Science and Engineering	Geetha S, CS Dept	10/6/13 - 15/6/13	6	34	78867
4	Workshop on Joomla	Anilkumar A	17/7/13 - 19/7/13	5	25	36249
5	VLSI design	Deepa T.R, EC Dept	23/7/13 - 27/7/13	6	29	72611
6	Workshop on 3D Max	Vinod R, CS Dept	12/8/13 - 17/8/13	5	25	41892
7	Workshop on Linux administration	Shajy L, IT Dept	29/8/13 - 31/8/13	7	28	42225
8	Study and maintenance of modernized electronic Labs	Kuriachan, EC Dept	12/8/13 - 17/8/13	28	10	91559
9	Power system analysis and load despatch	Haseena P.Y, EE Dept	2/8/13 - 03/8/13	2	23	29390

10	Energy management and recent trends in power.	Haseena P.Y, EE Dept	26/8/13 - 30/8/13	6	24	61895
11	Recent Trends in Signal Processing	Anisha Mohammed EC Dept	3/9/13 - 08/9/13	4	31	
12	Library Management using KOHA	Jincy, Library	5/9/13 - 07/9/13	29	5	51290
13	Random Processes	PremaKumari, Mathematics	9/9/13 - 11/9/13	10	30	60621
14	Soft Computing	Deepa A.K, Remya R.S, EC/CS	23/9/13 - 29/9/13	6	26	150682
15	Time Management & Interpersonal Relationships	Vidya, Office	26/9/13 - 28/9/13	8	22	56576
16	Seminar on Recent Research areas in Image Processing	Jyothi R.L, CS Dept	31.7.13		120	7786

Annexure 4

List of Outstation Programmes Attended

Sl. No	Name	Title of the programme	Institution attended	Duration	Amount spent (Rs)
1	Deepa A K	Computer Support Group	NIT Trichy	10.6.13-13.6.13	8360
2	Shiny C				8360
3	Deepa T R	VLSI design	,TKM College of Engineering, Kollam	18.6.13-22.6.13	3156
4	Shiny C				3156
5	Sylish S. V	Recent Trends in Communication and Signal Processing	MNIT, Jaipur	01.7.13-05.7.13	20224
6	Reji Thankachan				20224
7	Shajy L	Application of Linear Algebra	LBS institute of technology for women	11.3.13-15.3.13	2580
8	Remya R.S				2580
9	Manoj Ray D	Parallel Computing using CUDA	CET	14.3.13-16.3.13	2292
10	Geetha S				2292
11	Sabeena K				2292
12	Sabeena K	Network Administration and Configuring secure LAN and WAN	ESCI Hyderabad	22.7.13-28.7.13	36196
13	Jyothi R.L				36196
14	Anilkumar A				30553

15	Manoj Ray D	IDSAR(Information Delivery Systems for Academic & Research Institutions	IIMK&ICFOSS, Technopark, Trivandrum	24.7.13-26.7.13	7415
16	Kuriachan T D				7806
17	Smitha P				2024
18	Remya R.S	Network on chip,	TKMCE, Kollam	24.7.13-25.7.13	2024
19	Geetha S				2024
20	Shajy L				2024
21	JayaKrishnan A	Intelligent Methods towards Computational Linguistics	College of Engineering Cherthala		2848
22	Abin K R				2848
23	Libi A	Testing and commissioning of Electrical Equipments	ESCI Hyderabad	22.7.13-26.7.13	41054
24	Dr. Ajilkumar A	Economics and financing of Non Conventional Energy Technologies	IIT Delhi	24.7.13-27.7.13	48952
25	Dr. Ajilkumar A				14557
26	Jayadeepkumar J	STTP on Optimization Techniques	GEC, Thrissur	10.6.13-14.6.13	11711
27	Rethee Kumari				11826
28	Sheela R				11826
29	Jyothi R L	Pattern Recognition,	RIT Kottayam	24.6.13-28.6.13	5012
30	Vinod R	Oracle 11g Data Administration	ESCI Hyderabad	15.7.13-19.7.13	38926
31	Smitha P	Research issues in Data Mining	GEC,Bhargur,Krishnagiri	19.8.13-25.8.13	13232
32	Shajy L				13232
33	Libi A	Recent Trends in Rewable	CE Adoor, Kerala	10.6.13-13.6.13	1932

34	Premnath G	Energy System			1932
35	Deepa V S	Speech Signal Processing	CET	18.3.13-22.3.13	2692
36	Jayadeep Kumar J	MAT Lab	GEC Barton Hill	21.3.13-26.3.13	2780
37		Discrete and fuzzy logic	FISAT, Kerala		
38	AnilKumar A	Workshop on Linux Administration for Servers	ESCI,Hyderabad	26.8.13-29.8.13	29020
39	Kuriachan T D				29020
40	Sabeena K	Workshop on algorithm Analysis and design	IITMK, Trivandrum	06.9.13-10.9.13	4028
41	Jyothi R.L				4028
42	Remya R.S	Advanced Communication Technologies	RIT Kottayam	31.7.13-02.8.13	2928
43	Meharuneeza Nazeem				2648
44	Sree S. Bhagya				2648
45	Santhini Paul				2648
46	Remya R S	Workshop on Fuzzy Systems and Applications	NIT Trichy	13.7.13	6119
47	Aryamol Sudhakaran	Industrial Automation & Systems in PLC and SCADA	CE Cherthala	3.9.13-05.10.13	2913
48	Sabeena A.				2913
					516051

Annexure 5

IIIC Programmes Conducted

Sl No	Activity	Department	Title of the Program	Target	Date	Amount
1	Internship	Electrical & Electronics	Internship At KEL	Students	17/6/2013	5000
2	Industrial Visit	Electrical & Electronics	Faculty visit to UEL,Kollam	Faculty	07-04-2013	12000
3	Industrial Visit	Electrical & Electronics	Student Visit to TELK ,Angamaly	Students	07-06-2013	5000
4	Expert Lecture	Electrical & Electronics	Renewable Energy Sources	Students	31/7/2013	3650
5	Expert Lecture	Electronics & Communication	Convergence to Next generation networks	Students	08-05-2013	5350
6	Expert Lecture	Electronics & Communication	Entreprenuership	Students	23/8/13	3000
7	Expert Lecture	Computerscience & Engineering	Business Intelligence-An application of Artificial Intelligence	Students	09-06-2013	5000

Annexure 6

COLLEGE OF ENGINEERING KARUNAGAPPALLY

RESEARCH GUIDANCE COMMITTEE

Sl. No.	Name	Designation	Position in the Committee	
1	Prof. Gopinathan E	Former Director, NIT Calicut	Chairman	
2	Prof. Hari V.S	Principal	Convenor	
3	Dr. Rajkumar Choudhary	Scientist Space Physics Laboratory, VSSC	Member	
4	Shajahan M	Scientist Space Physics Laboratory, VSSC	Member	
5	Prof. Manoj Ray	HOD CS	Member	
6	Prof. Deepa VS.	HOD EC	Member	
7	Prof. Smitha	HOD IT	Member,R&D Coordinator	
8	Prof. Libi A	HOD EEE	Member	
9	Dr. Ajilkumar A	TEQIP Coordinator	Member	

Annexure 7
College of Engineering Karunagappally
TEQIP – II
Research Seed Money.
Guidelines

1. The objective of this scheme is to provide financial assistance to faculty members to initiate research in frontier areas of engineering and technology under R &D.

2. Grant will be released to the Principal Investigator of the project.

3. The maximum duration of the project will be one year from the date of start of the project.

4. Assistance will be given to secure sponsored research and consultancy projects from other funding agencies or industries.

5. The maximum amount of seed money will be   Rs. 2 lakhs per Principal Investigator.

6. Proposals for financial assistance will be screened and approved by the Research Guidance   Committee (RGC).

7. The investigators shall make a presentation of the outcome of the research before RGC.

8. The maximum amount permissible to each Principal Investigator for the Research Assistance, eligibility, terms and conditions etc will be finalised by the RGC.

9. The progress report and utilization of funds shall be reported every three months.

10. The monitoring and evaluation of the research shall be carried out by the RGC.

11. The final report and statement of expenditure shall be submitted after successful completion of the project.

12. The whole or part of the granted money remaining unutilized within the prescribed time limit should be refunded.

13. Seed money can be used:

    ➢ To meet travel expenses, boarding and lodging charges and sundry expenses/allowances of investigators as per applicable norms and rules.
    ➢ To pay fees charged for availing research facilities (other than parent institution).
    ➢ For buying consumables necessary for doing research.
    ➢ To meet the expenses for preparing the project proposals to be submitted to funding agencies.

14. The investigator should submit at least one proposal to funding agencies like AICTE, DST etc.based on the research carried out using seed money.

15. The other outcomes of the project may be publication of research papers and obtaining patents.

16. A soft copy and four hardcopies of the proposal should be submitted.

College of Engineering Karunagappally
TEQIP-II
Application format for Research Seed Money

1. Title of the Research Proposal   :

2. Name of Principal Investigator   :

3. Designation and Department   :

4. Scale of pay, pay and total pay   :

5. Email   :

6. Contact number   :

7. Name of Co-Investigator (if any)   :

8. Designation and Department   :

9. Scale of pay, pay and total pay   :

10. Email   :

11. Contact number   :

12. Duration of the project   :

13. Broad Subject area / Field of

            Classification   :

14. Project type(s) (Basic Research/

    Applied Research/Developmental)   :

15. Objectives of the Project (300 ch)   :

16. Definition of the problem   :

17. Abstract (500 ch)   :

18. Details of state of the art in the research area, literature review and any preliminary

     work done by the investigator   :

19. Novelty/Importance of the proposed project in the context of current status:

20. Work plan/ Methodology   :

21. Whether the project was submitted to any other organization for financial support, if

     so, give details.

               :

22. Budget estimate of the project

Sl.No.	Particulars	Amount in Rupees
1	Consumables **(Do not exceed 20% of the total amount)**	
2	Equipmnets	
3	Travel **(Do not exceed 10% of the total amount)**	
4	Research Literature	
5	Contingencies	
6	Others **(Do not exceed 10% of the total amount)**	
	Total	

23. The sources of funding the research project including funds from other agencies from which financial assistance is obtained/expected to be obtained:

24. Quantum of assistance expected from the TEQIP:

25. Whether grant under this scheme has been availed earlier by the investigator(s) :
    (If so, provide details):

Declaration

Certified that the details furnished above are correct to the best of my knowledge and belief and that the amount of financial assistance, if granted, will be utilized for the purpose for which it is granted within the time prescribed by TEQIP-II. I also undertake to abide by the rules and other conditions prescribed by TEQIP-II.

Name and Signature of the Investigator(s)

Name and signature of Head of the Department

Department seal

Annexure 8

Equity Action Plan Conducted

Sl. No	Type of Programme	Classes	Duration	Amount Spent (Rs)
1	Counselling programme for first year students	S1S2 EC, CS	31.5.2013	4000
2	Remedial Classes for various classes	Second, Third, Fourth Year Students	162 hrs	97200
3	Students Orientation and Counseling	First year	31.8.2013	4496
4	Expert Lecture on Renewable Energy Sources	S5 EEE	31.7013	7456
5	Bridge Courses for first year	SIS2 EC, CS, EEE, IT	144 Hrs	86400
6	Soft Skill Training for Final year Students	Final year EC. CS, IT	4 Days	32031
7	Data Base Management System	S5 CS.IT	1	4500
8	Clusturing TECHNIQUES	CS PG	1	4500
TOTAL				**240583**

No. 50/SPFU/GOK/2013   Date: 29.04.2013

Extract of the Approved Minutes of the 05th Meeting of the State Steering Committee held on 11th April 2013, to be taken note of by the Project Institutions of Kerala, specifically the foot note given below each item

Item No. SSC – K 5.6 **Regarding appointment of Senior Research Advisors (SRA) – letter from NPIU – Actions taken – Report that of.**

Decisions:

In this regard the following decisions were taken,

a) Since the SRA to be engaged by a Project Institution is aimed at enhancement of R&D activities, the leadership he/she extends need not necessarily lead to a PhD of a particular faculty or publication of Research Papers.

b) Since promotion of Institutional consultancy is also envisaged as part of R&D, the SRA may take a lead role in fostering this.

c) The activities of Industry Institute Interaction (III Cells for which there is a life time budget of Rs. 40 Lakh) and R&D (Rs. 20 Lakh) will be pooled together, but booking the expenditure of SRA under R&D/IOC.

d) Since several branches/programmes at B Tech level and M Tech level are being offered in a Project Institution, the identified SRA need not belong to a specific branch of engineering in a Project Institution. Instead the SRA may serve as a Research and Consultancy Mentor covering all engineering disciplines.

e) The specific deliverables of the SRA are the following,

1. Deliver talks on Research Methodology to PG students and PhD aspirants of the Project Institutions

2. Motivate the PhD holders in the Institution to enrol as Research Guides in the concerned universities, abiding by the university requirements in this regard.

3. Motivate the Institution to become an approved centre of research of the university concerned.

4. Guide in house seminars on one Research Topic each by the PG students as well as PhD aspirants and make assessments regarding the suitability of the Research Topics and offer guidance on future course of action.

5. Offer Tools regarding Searching & Downloading of literature the SRA.

6. Offer guidance on Thesis Writing including compiling and Reference Writing, Paper Publication and Poster Preparation. He may also offer awareness on Citation Index and Impact Factor

7. Suggest talks by other experts in the above areas including Research ethics avoiding Research misconduct.

8. Regarding consultancy it is pertinent that Project Institutions should have the required facility and in house expertise. The SRA will motivate the Institutions by developing at least one area of expertise and consultancy during the project period.

9. Regarding patenting the SRA may motivate the Institution on the laws related to National and International patenting. He/She may help the Institutions in arranging talks by patent law attorney on Process Patenting and Product Patenting.

10. The SRA will also motivate the Project Institutions in holding Seminars on promotion of Research and Consultancy in which R&D and Quality Group Engineers from Industries as well as Stakeholder Departments participate.

11. The SRA may also guide the Institutions in organizing Conferences/Seminars/Workshops/Exhibitions on R&D and IIIC.

f) Each of the Project Institution shall be permitted to engage one SRA by paying a per day honorarium of Rs. 5000/- apart from meeting the TA/DA as per the G.O. (Rt) No. 2113/2012/H.Edn dated, 04.10.2012.

g) When the rest of the Project Institutions utilize the services of the SRA the honorarium as per clause (f) and TA/DA rules as per G.O. (Rt) No. 2113/2012/H.Edn dated, 04.10.2012 will be made applicable.

h) As per the Minutes of the Review of Progress of TEQIP II in the Project Institutions of Kerala, held from 29th January to 4th February 2013, in the presence of Mentors, DTE and SPFU Officials vide Clause 3.2 it was decided that for promoting Research Initiatives of faculty members under R&D, with the approval of the BoG, the Project Institutions may invite applications for one time Seed Money as Research Assistance.

- The period of research shall be maximum one year.
- The Institutions with the involvement of Senior Scientists from outside shall constitute a Research Guidance Committee (RGC).
- The RGC shall device a format for inviting applications from eligible faculty, with in a dead line fixed for the same.
- The maximum amount permissible for the Research Assistance, eligibility, terms and conditions etc shall also be finalized by the RGC.
- The filled in applications shall be evaluated and the candidates screened if necessary by the RGC in the presence of the Senior Scientists.
- Case by case the RGC will decide the maximum amount permissible to each Principal Investigator, citing terms and conditions like insistence of quarterly Progress Reports, Continuation of the Research Project, Continuing Funding etc.

- The monitoring and evaluation of the research shall also be carried out by the RGC. It was decided that the SRA will be the Chairperson of the RGC.
- Procurement of consumables and components and expenses regarding service charges shall be booked under seed money which may be a maximum of Rs. 2 Lakh per Chief Investigator, released under R&D. The eligibility of the seed money will also be extended to Research Scholars of the Project Institution.

i) The SRA shall be from any of the Engineering branches only since promotion of Institutional Consultancy and Industry Institute Interaction is also contemplated.
j) Adhering to the decisions of the SSC the Institutional BoGs are permitted to select their SRA.

{Action: Project Institutions}

Project Institutions are requested to comply with.

Item No. SSC-K 5.7: Regarding founding of MIS Cells– letter from NPIU – Actions taken – Report that of

Decisions:

1. Decided to fill in the post of MIS officer on contract basis in all the Project Institutions during the project life period. He/She will be fully responsible for data collection, consolidation and reporting.
2. Qualification and experience required for the post shall be B Tech in Computer Science & Engineering or Information Technology/MCA – minimum experience 2 (two) years in data processing and total consolidated amount payable shall be Rs. 25000/- per month.
3. Mode of selection – through a selection process to be carried out by the Project Institution with the approval of the BoG. The hand shall be engaged initially for a period of three months and permitted to continue only after assessment of satisfactory performance by the TEQIP Committee of the Project Institution.
4. Since one each Data Entry Operator is posted by all the Project Institutions as per the decision of the 03rd Meeting of the SSC, one more Data Entry Operator need not be posted for MIS Cells.

{Action: Project Institutions}

Project Institutions are requested <u>note to comply with immediately</u> but wait for Govt. approval in this regard.

Item No. SSC – K 5.11:– Other Item No. 2 – Teaching/Research Assistantships to those students of a Project Institutions admitted before the date of signing of MoU between the State and the Institution, but continuing studies during the course of implementation of TEQIP II in the Project Institution.

   Decision:-

        The SSC decided to authorize the BoGs to take suitable decision in this regard.

        {Action: Project Institutions}

It may be noted that the BoG meeting held at RIT, Kottayam on 27.04.2013 decided to pay Rs. 4000/- per month to those M Tech Students who were admitted before the date of signing of MoU between the State and the Institution subject to the condition that the same will be paid only during their 4th Semester studies, with no payment of arrears. This decision may be treated as a precedent for taking similar decisions by the BoGs of rest of the Project Institutions.

Item No. SSC – K 5.11:– Other Item No. 3 – Reimbursement of Fee for faculty members who undergo qualification up gradation (M Tech/PhD) of a Project Institution who were relived for the same, before the date of signing of MoU between the State and the Institution.

   Decision:-

        The SSC decided to authorize the BoGs to take suitable decision in this regard.

        Action: Project Institutions}

No precedence is taken note of till date.

        Approved for issue among 19 Project Institutions

        Sd/-

        Dr. J. Letha

Director of Technical Education & State Project Advisor, TEQIP II

Annexure 10

G.O.

ANNEXURE 11

Expenditure Incurred under various components

Sr.No.	Expenditure Name	Expenditure for the First Half Year	Expenditure Financial Year to Date	Cumulative Expenditure to Date
1	Improvement in Teaching, Training and Learning Facilities			
1.1	Equipment	2310711.00	2310711.00	2310711.00
1.2	Furniture	0.00	0.00	0.00
1.3	Books and LRs and Software	0.00	0.00	0.00
1.4	Minor Items	0.00	0.00	0.00
1.5	Refurbishment(Minor Civil Works)	0.00	0.00	0.00
1.6	Consultant Services	0.00	0.00	0.00
2	Providing Assistantships for Increased enrolment in existing and new PG Programmes in Engineering Disciplines	601200.00	601200.00	601200.00
3	Enhancement of Research and Development and Institutional Consultancy Activities	0.00	0.00	0.00
4	Faculty and staff devlopment for improved competence based on Training Needs Analysis(TNA)	1003298.00	1003298.00	1003298.00
5	Enhanced Interaction with Industry	33259.00	33259.00	33259.00
6	Institutional Management Capacity enhancement	206603.00	206603.00	206603.00
7	Implementation of Institutional reforms	0.00	0.00	0.00
8	Academic support for weak students	33316.00	33316.00	33316.00
9	Incremental Operating Cost	272633.00	272633.00	272633.00
9.1	Salaries	00	00	00
9.2	Consumables	44300.00	44300.00	44300.00
9.3	Operation and Maintence	0	0	0
	Total	**4471820.00**	**4471820.00**	**4471820.00**

Annexure 12

Action Plan for Procurement

CIVIL WORKS

Sl No	Name of Package	Package Code	Sub Category	Status	Estimated Cost (Rs)	Targeted Date of Completion)
1	Ceiling work of Computer lab	TEQIP II/KL/KL1G18/133	Refurbishment works	Work order	2,00,000.00	31.10.2013
2	Extension of Generator Room	TEQIP II/KL/KL1G18/130	Extension of Buildings	Work order	14,75,000.00	31.01.2014
3	Foundations for Machines	TEQIP II/KL/KL1G18/131	Refurbishment works	Work order	2,00,000.00	30.12.2013
4	Partitioning work	TEQIP II/KL/KL1G18/127	Refurbishment works	Work order	11,40,000.00	30.01.2014
5	Refurbishment work of labs	TEQIP II/KL/KL1G18/132	Refurbishment works	Work order	7,10,617.00	25.01.2014
			TOTAL WORKS COMMITTED		**37,25,617.00**	

GOODS

Sl No	Name of Package	Package Code	Sub Category	Status	Estimated Cost (Rs)	Targeted Date of Completion
1	Accounting Software Tally	TEQIP II/KL/KL1G18/158	Minor Items	Purchase Order	18,000.00	10.11.2013

2	Adobe Software	TEQIP II/KL/KL1G18/5	Equipment	PO	3,40,000.00	10.11.2013
3	Barcode scanner	TEQIP II/KL/KL1G18/122	Minor Items	PO	24,980.00	10.11.2013
4	Computer Hardware Accessories	TEQIP II/KL/KL1G18/34	Equipment	PO to be given	6,68,710.00	12.11.2013
5	DC Machines	TEQIP II/KL/KL1G18/72	Equipment	PO to be given	8,40,000.00	15.11.2013
6	DC Power supply	TEQIP II/KL/KL1G18/19	Equipment	PO to be given	6,48,000.00	15.11.2013
7	Digital IC Tester	TEQIP II/KL/KL1G18/23	Equipment	PO to be given	60,000.00	20.11.2013
8	Digital IC Trainer kit	TEQIP II/KL/KL1G18/29	Equipment	PO to be given	2,00,000.00	05.11.2013
9	DSP starter kit	TEQIP II/KL/KL1G18/11	Equipment	PO to be given	3,75,000.00	10.11.2013
10	Equipment for Smart class room	TEQIP II/KL/KL1G18/10	Equipment	PO to be given	5,65,406.00	12.11.2013
11	Fitting tools	TEQIP II/KL/KL1G18/57	Equipment	PO to be given	3,68,775.00	15.11.2013
12	Foundry tools	TEQIP II/KL/KL1G18/95	Equipment	PO	96,010.00	15.11.2013
13	Function Generator	TEQIP II/KL/KL1G18/20	Equipment	PO to be given	9,50,000.00	15.11.2013
14	General Engineering tools	TEQIP II/KL/KL1G18/100	Equipment	PO	1,45,515.00	05.11.2013
15	Hardware for Network Lab	TEQIP II/KL/KL1G18/41	Equipment	PO	50,000.00	03.11.2013

16	Library EEE	TEQIP II/KL/KL1G18/114	Books & Learning Resources	PO	4,22,800.00	05.11.2013
17	Mac System	TEQIP II/KL/KL1G18/32	Equipment	PO to be given	2,42,300.00	10.11.2013
18	Measuring Instruments I	TEQIP II/KL/KL1G18/31	Equipment	PO	1,34,400.00	05.11.2013
19	Measuring Instruments II	TEQIP II/KL/KL1G18/38	Equipment	PO to be given	73,600.00	15.11.2013
20	Microsoft OVS-ES agreement	TEQIP II/KL/KL1G18/123	Books & Learning Resources	PO to be given	2,10,000.00	15.11.2013
21	N Computing System	TEQIP II/KL/KL1G18/4	Equipment	PO	4,66,500.00	10.11.2013
22	Network Simulator and trainer kit	TEQIP II/KL/KL1G18/40	Equipment	PO	2,27,462.00	10.11.2013
23	Open Hardware	TEQIP II/KL/KL1G18/27	Equipment	PO	1,24,000.00	12.11.2013
24	ORCAD	TEQIP II/KL/KL1G18/22	Equipment	PO	2,50,000.00	10.11.2013
25	Power Lab KIt	TEQIP II/KL/KL1G18/54	Equipment	PO to be given	1,19,000.00	15.11.2013
26	Power Quality Analyser	TEQIP II/KL/KL1G18/82	Equipment	PO to be given	4,50,000.00	30.10.2013
27	PROTEUS PCB Design Software	TEQIP II/KL/KL1G18/151	Equipment	PO to be given	3,20,000.00	10.11.2013
28	Spectrum analyzer	TEQIP II/KL/KL1G18/58	Equipment	PO to be given	6,00,000.00	15.11.2013

29	Universal Software Radio Perpheral	TEQIP II/KL/KL1G18/63	Equipment	PO to be given	6,00,000.00	10.11.2013
30	Wifi Dongle and Screen for Projectors	TEQIP II/KL/KL1G18/159	Minor Items	PO to be given	24,500.00	31.10.2013
31	Workstation Computer	TEQIP II/KL/KL1G18/153	Equipment	PO to be given	2,45,000.00	05.11.2013
32	ID card printing machine	TEQIP II/KL/KL1G18/91	Equipment	PO	80,000.00	10.11.2013
33	LAN Trainer	TEQIP II/KL/KL1G18/14	Equipment	Tabulation	1,10,000.00	12.11.2013
34	Microwave components	TEQIP II/KL/KL1G18/36	Equipment	Tabulation	1,94,000.00	10.11.2013
35	Rectifier Unit	TEQIP II/KL/KL1G18/77	Equipment	Tabulation	3,70,000.00	15.11.2013
36	Rheostats	TEQIP II/KL/KL1G18/60	Equipment	Tabulation	2,32,400.00	15.11.2013
37	Servo motor	TEQIP II/KL/KL1G18/51	Minor Items	Tabulation	20,000.00	08.11.2013
38	Voltage Stabilizer	TEQIP II/KL/KL1G18/17	Equipment	Tabulation	1,08,000.00	10.11.2013
39	Carpentry Tools for ME Workshop	TEQIP II/KL/KL1G18/155	Equipment	Initiated	43,600.00	15.11.2013
40	Laptop System	TEQIP II/KL/KL1G18/84	Equipment	Initiated	8,75,000.00	20.11.2013
National Competetive Bid (NCB) Initiated						
41	Desktop Computer	TEQIP II/KL/KL1G18/13	Equipment	Initiated	88,56,000.00	15.2.2014
42	Campus networking	TEQIP II/KL/KL1G18/128	Equipment	Initiated	24,99,400.00	15.2.2014

43	Digital Storage Oscilloscope	TEQIP II/KL/KL1G18/	Equipment	Initiated	27,85,000.00	15.2.2014
TOTAL					**2,60,33,358.00**	
GRAND TOTAL FOR COMPLETED/COMMITTED/PIPELINE PACKAGES					**3,20,69,686.00**	

PACKAGES TO BE INITIATED						
Sl No	**Name of Package**	**Package Code**	**Sub Category**	**Method of Purchase**	**Estimated Cost (Rs)**	**Targeted Date of Completion**
1	Server Computer	TEQIP II/KL/KL1G18/9	Equipment	Shopping	8,69,000.00	15.12.2013
2	FPGA Trainer kits	TEQIP II/KL/KL1G18/12	Equipment	Shopping	3,25,000.00	15.12.2013
3	Bread Board	TEQIP II/KL/KL1G18/16	Minor Items	Direct Contract	24,000.00	20.11.2013
4	Multimeter	TEQIP II/KL/KL1G18/18	Equipment	Shopping	1,94,000.00	10.12.2013
5	Keil Software	TEQIP II/KL/KL1G18/24	Equipment	Direct Contract	2,60,000.00	20.11.2013
6	Soldering Iron	TEQIP II/KL/KL1G18/30	Equipment	Shopping	71,000.00	30.11.2013

7	Vaccum Cleaner	TEQIP II/KL/KL1G18/35	Minor Items	Direct Contract	11,000.00	20.11.2013
8	Tablet PC	TEQIP II/KL/KL1G18/37	Equipment	Shopping	1,48,000.00	30.11.2013
9	PCB Lab equipment	TEQIP II/KL/KL1G18/44	Equipment	Shopping	70,000.00	30.11.2013
10	Water Dispensor	TEQIP II/KL/KL1G18/46	Minor Items	Direct Contract	18,000.00	15.11.2013
11	AEE Lab Trainer Kit	TEQIP II/KL/KL1G18/47	Equipment	Shopping	1,44,500.00	30.11.2013
12	Microprocessors and microcontrollers	TEQIP II/KL/KL1G18/48	Equipment	Shopping	5,83,000.00	10.12.2013
13	Relays	TEQIP II/KL/KL1G18/50	Equipment	Shopping	1,30,000.00	30.11.2013
14	Photocopier machines	TEQIPII/KL/KL1G 18/59	Equipment	Shopping	1,50,000.00	05.12.2013
15	Printer and scanner	TEQIP II/KL/KL1G18/62	Equipment	Shopping	2,30,800.00	05.12.2013
16	Transformers	TEQIP II/KL/KL1G18/66	Equipment	Shopping	1,56,000.00	15.12.2013
17	Language Laboratory Software	TEQIP	Equipment	Shopping	1,10,000.00	25.11.2013

		II/KL/KL1G18/68				
18	Television	TEQIP II/KL/KL1G18/69	Equipment	Shopping	47,000.00	30.11.2013
19	Digital meters Electrical	TEQIP II/KL/KL1G18/70	Equipment	Shopping	66,300.00	30.11.2013
20	AC Machines	TEQIP II/KL/KL1G18/75	Equipment	Shopping	5,65,000.00	20.12.2013
21	Air Conditioner	TEQIP II/KL/KL1G18/83	Equipment	Shopping	9,50,000.00	20.12.2013
22	UPS	TEQIP II/KL/KL1G18/87	Equipment	NCB	31,90,000.00	15.2.2014
23	Firewall	TEQIP II/KL/KL1G18/89	Equipment	Shopping	2,30,000.00	30.11.2013
24	Fire Extinguisher	TEQIP II/KL/KL1G18/92	Equipment	Shopping	52,500.00	30.11.2013
25	Weighing Machine	TEQIP II/KL/KL1G18/94	Minor Items	Direct Contract	4,250.00	15.11.2013
26	E TAP Software	TEQIPII/KL/KL1G 18/103	Equipment	Direct Contract	1,80,000.00	25.11.2013
27	Lab View Software	TEQIPII/KL/KL1G	Equipment	Direct Contract	6,00,000.00	25.11.2013

		18/104				
28	PSCAD software	TEQIP II/KL/KL1G18/105	Equipment	Direct Contract	4,45,000.00	25.11.2013
29	Library Environmental and Social Science	TEQIPII/KL/KL1G18/108	Books & Learning Resources	Shopping	2,43,295.00	15.1.2014
30	Library CS	TEQIP II/KL/KL1G18/109	Books & Learning Resources	Shopping	6,69,774.00	15.12.2013
31	EPBAX System	TEQIP II/KL/KL1G18/110	Equipment	Shopping	2,00,000.00	05.12.2013
32	Library IT	TEQIP II/KL/KL1G18/111	Books & Learning Resources	Shopping	6,47,280.00	20.12.2013
33	Library EC1	TEQIP II/KL/KL1G18/112	Books & Learning Resources	Shopping	5,51,736.00	30.12.2013
34	Library EC2	TEQIP II/KL/KL1G18/113	Books & Learning Resources	Shopping	3,91,500.00	30.12.2013
35	Library Mechanical	TEQIP II/KL/KL1G18/115	Books & Learning Resources	Shopping	73,260.00	20.12.2013
36	Library Applied science	TEQIP II/KL/KL1G18/116	Books & Learning Resources	Shopping	2,59,204.00	25.12.2013
37	E-Journal Springer	TEQIP II/KL/KL1G18/117	Books & Learning Resources	Direct Contract	1,67,210.00	05.1.2014

38	E-Journal Wiley	TEQIP II/KL/KL1G18/118	Books & Learning Resources	Direct Contract	79,970.00	05.1.2014
39	E- Journal MGH Access Engineering	TEQIP II/KL/KL1G18/119	Books & Learning Resources	Direct Contract	1,15,545.00	05.1.2014
40	E- Journal Elsevier	TEQIP II/KL/KL1G18/120	Books & Learning Resources	Direct Contract	3,81,517.00	05.1.2014
41	E - Journal ASTM Digital Library	TEQIP II/KL/KL1G18/121	Books & Learning Resources	Direct Contract	61,930.00	05.1.2014
42	CC TV camera	TEQIP II/KL/KL1G18/124	Equipment	Shopping	45,000.00	15.12.2013
43	Unitized sub-station	TEQIP II/KL/KL1G18/125	Equipment	NCB	17,00,000.00	20.02.2014
44	Furniture Seminar Hall	TEQIP II/KL/KL1G18/135	Furniture	Shopping	3,19,000.00	20.02.2014
45	Furniture Office	TEQIP II/KL/KL1G18/136	Furniture	Shopping	7,82,500.00	30.12.2013
46	Furniture Mechanical	TEQIP II/KL/KL1G18/137	Furniture	Shopping	2,90,000.00	30.12.2013
47	Furniture for Lab and classroom	TEQIP II/KL/KL1G18/138	Furniture	Shopping	9,04,750.00	10.1.2014
48	Furniture -Faculty	TEQIP	Furniture	Shopping	3,20,000.00	10.1.2014

		II/KL/KL1G18/139				
49	Furniture Desk and Bench	TEQIP II/KL/KL1G18/140	Furniture	Shopping	3,00,000.00	15.1.2014
50	Public Address System	TEQIP II/KL/KL1G18/144	Equipment	Shopping	1,00,000.00	25.12.2013
51	PLC Trainer Kits	TEQIP II/KL/KL1G18/145	Equipment	Shopping	1,60,000.00	15.12.2013
52	DC Motor Alternator set	TEQIP II/KL/KL1G18/150	Equipment	Shopping	5,60,000.00	30.12.2013
53	Diesel Generator Set	TEQIP II/KL/KL1G18/152	Equipment	Shopping	8,10,000.00	30.12.2013
54	Hardware for Project Lab	TEQIP II/KL/KL1G18/156	Equipment	Shopping	1,78,000.00	15.12.2013

Annexure 13

ACTION PLAN (NOVEMBER 2013- DECEMBER 2014)

Component	Action Plan for
Faculty and Staff Development	120 lakhs
PG Assistantships	65 lakhs
R&D	20 lakhs
Managament Capacity Enhancement	30 lakhs
IIIC	54 lakhs
Reforms	50 lakhs
Conferences (3 numbers)	20 lakhs
EAP	56 lakhs
Action Plan has been prepared for the Academic programs based on the course calendars published by IITs, IIMs, NITs and other Institutes. Further programmes will be planned as and when the new course calendars are published by these Institutes. The plans that have been prepared till date are attached herewith.	

FACULTY   AND STAFF DEVELOPEMENT PROGRAMME

Department :Computer Science & Engineering

Faculty Development Plan for Training in Subject Domain based on TNA for BOG approval

No	Name	Course	Tentative date	Duration	Institution	Expenditure
1	Remya.R.S	Accredation and Autonomy	6-8 January 2014	3 Days	ISTE ,Kanyakumari	35,000
		Effective Teaching and pedagoggy	12-19 feb 2014	7 Days	ISTE ,Kanyakumari	40,000
		Bioinformatics and privacy protection	Dec 23,24,25	3 days	MNIT Jaipur	40,000
2	Vinod R	Linux Server Administration	Nov 25-29,2013	5 Days	ESCI,Hyderabad	40,000
		Configuring and securing wireless Network Infrastructure	Dec 1-19,2013	5 Days	ESCI Hyderabad	40,000

		Windows Server 2008 Administration	Jan6-10	5 Days	ESCI Hyderabad	40,000
3	Jyothi.R.L	Internet Technologies and Web Developing Methods	17-20 Feb2014	4 Days	ESCI Hyderabad	40,000
		Bioinformatics and privacy protection	Dec 23,24,25	3 days	MNIT Jaipur	40,000
4	Sabeena.K	Internet Technologies and Web Developing Methods	17-20 Feb2014	4 Days	ESCI Hyderabad	40,000
		Bioinformatics and privacy protection	Dec 23,24,25	3 days	MNIT Jaipur	40,000
5	Manoj Ray D	Configuring and securing wireless Network Infrastructure	Dec 1-19,2013	5 Days	ESCI Hyderabad	40,000

		Windows Server 2008Administration	Jan6-10	5 Days	ESCI Hyderabad	40,000
6	Smitha.P	Bioinformatics and privacy protection	Dec 23,24,25	3 days	MNIT Jaipur	40,000
		Total				**6,15,000**

In-house Training Programmes / Continuing Education Programmes plan for BOG approval

No	Name	Course	Tentative date	Type	Duration	Participation expected	Expenditure
1	Remya.R.S AlkhaMohan	Data Compression techniques	Feb 2014	Expert Lecture	1 Day	30	20,000
2	Remya R S Aiswarya.S.Kumar	Video Compression	March 2014	Expert Lecture	1 Day	30	20,000

3	Remya R S Mehruniza.N	Audio Compression	April 2014	Expert Lecture	1 Day	30	20,000
4	Smitha.P Diana Mathew	Introduction to medical Imaging	March2014	Expert Lecture	1 Day	30	20,000
5	Smitha P Santhini Paul	Medical Imaging Techniques	April 2014	Expert Lecture	1 Day	30	20,000
6	Jyothi R L Jaya Krishnan	Introduction to random processes	Feb 2014	Expert Lecture	1 Day	30	20,000
7	Sabeena.K Alka Mohan	Series representation of random process	April 2014	Expert Lecture	1 Day	30	20,000
8	Jyothi R L Sabeena K Vinod R	FDP on Pattern Recognition and Machine Learning	May 2014	Training	5 Days	30	2,00,000
Total							3,40,000

Staff Development Training in Subject Domain based on TNA already attended without BOG approval for Technical staff

No	Name	Course	Tentative date	Duration	Institution	Expenditure
1	SreeLatha P	Computer Harware Maintance	28/10/2013,29/10/2013	2 days	TKM college of Engineering	2500
2	SreePriya S	Computer Harware Maintance	28/10/2013,29/10/2013	2 days	TKM college of Engineering	2500
	Total					5000

Department :Electrical & Electronics Engineering

Faculty Development Training in Subject Domain based on TNA already attended without BOG approval

No	Name	Course	Tentative date	Duration	Institution	Expenditure Rs.
1	Libi A	Recent Trends in Renewable Energy Systems	10/06/13 to 14/06/13	5 days	College of Engineering Adoor	1932

2	Libi A	Testing and commissioning of Electrical Equipments	18/07/2013 to 22/07/2013	5 days	ESCI Hyderabad	41054	
3	Sabeena A	PLC& SCADA	30/9/2013-05/10/20	5days	CE Cherthala	2913	
4	Aryamol Sudhakaran	PLC& SCADA	30/9/2013-05/10/2013	5days	CE Cherthala	2913	
5	Libi A	Quality Initiatives in Higher& Technical Institutions (NBA & NAAC Accreditation)	22.10.13-24.10.13	3 Days	ESCI Hyderabad	35,302	
Total						48812	

Faculty Development Plan for Training in areas other than Subject Domain based on TNA already attended without BOG approval

Sl. No.	**Name**	Subject / Area of Training	No. of faculty identified for training in the area	Duration (Days)	Tentative Date	In-house / Name of Network TEQIP Institution / National Trainer	(Expected) Expenditure	(Expected) Outcome / Objective

No	Name	Course				Organisation		
						Organisation		
1	Libi A	Quality Initiatives in Higher& Technical Institutions (NBA & NAAC Accreditation)	1	3		ESCI Hyderabad	35,302	To conduct accreditation work
Total								35302

Faculty Development Plan for Training in Subject Domain based on TNA

No	Name	Course	Tentative date	Duration	Institution	Expenditure
1	Haseena P Y	Labview Programming	4/11/2013-8/11/2013	5 Days	NITTTR, Chennai	25000
2	Haseena P Y	Effective Teaching and pedagoggy	12-19 feb 2014	7 Days	ISTE ,Kanyakumari	40,000
3	Haseena P Y	Role of Power Electronics in Modern Electrical System	23-27 December	5 days	MNIT Jaipur	40000

4	Libi A	Circuit Schematic and Simulation usingMultisim	06.01.2014 to 10.01.2014	5 days	NITTTR, Chennai	25000
5	Libi A	Effective Teaching and pedagoggy	12-19 feb 2014	7 Days	ISTE ,Kanyakumari	40,000
6	Libi A	Special machines and Control	03.03.2014 to 07.03.2014	5 days	NITTTR, Chennai	25000
7	Vinod S	MAINTENAN CE ANS SERVICING OF ELECTRICAL AND ELECTRONIC LAB EQUIPMENTS	4/11/2013- 8/11/2013	5 Days	CE, Vadakara	5000
8	Ajay Babuji	MAINTENAN CE ANS SERVICING OF ELECTRICAL AND	4/11/2013- 8/11/2013	5 Days	CE, Vadakara	5000

No	Name	Course	Tentative date	Duration	Location	Expenditure
		ELECTRONIC LAB EQUIPMENTS				
9	Resmi V S	Smart Power Electronic Controllers using PLDs	18/11/2013- 22/11/2013	5 days	RIT Kottayam	8000
10	Sabeena A	Smart Power Electronic Controllers using PLDs	18/11/2013- 22/11/2013	5 days	RIT Kottayam	8000
11	Aryamol Sudhakaran	Smart Power Electronic Controllers using PLDs	18/11/2013- 22/11/2013	5 days	RIT Kottayam	8000
Total						2,29,000

In-house Training Programmes / Continuing Education Programmes Plan

No	Name	Course	Type	Tentative date	Duration	Participation expected	Expenditure

1	Libi A Sabeena A Vinod S	Control System Theory and Practice	Training	10/12/13-14/12/13	5 days	30	85,000
2	Haseena P Y Resmi V S	Implementation of Power ElectronicsSystems	Training	04/03/14-08/03/14	3 Days	30	45,000
3	Aryamol Sudhakaran Resmi V S	8086 Programming and Advanced Microprocessor	Training	16/06/14-18/06/14	3 Days	30	45,000
4	Libi A Haseena P Y	MATLAB for Simulation and Design	Training	21/08/14/-25/08/14	5 Days	30	85000
5	Libi A Haseena P Y	Workshop on Robotics	Workshop	29/11/2013-30/11/2013	2 Days	30	40000
6	Libi A Haseena P Y	Power Electronics and Electrical Drives	workshop	17/07/2014-18/07/2014	2 days	30	40000

7	Libi A Haseena P Y	Special Machines and drives	Seminar	23/01/2014	I Day	30	25,000
8	Libi A Haseena P Y	Robotics and Mechatronics for Industrial Automation	seminar	18/03/2014	I Day	30	30,000
9	Libi A Haseena P Y	Advances in Power Systems	seminar	20/08/2014	I Day	30	30,000
Total							4,25,000

Staff Development Plan for Training in Functional Area based on TNA for Technical Staff

Sl. No.	Subject / Area of Training	No. of staff members identified for	Duration (Days)	Tentative Date	In-house (Own Dept / Other Dept)/ Name of Network TEQIP	(Expected) Expenditure

		training in the area			Institution / National Trainer Organisation	
1	Earthing and Protection	2	2	Feb 2014	In-House/NITTR	40,000/
2	Circuit Simulation and PCB Design Lab	3	3	Jun 2014	In-House/NITTR	60,000
	Total					**1,00,000**

Seminars planned for Technical Staff

Sl. No	Subject / Area	From - To	No. of days	Participation (nos) Expected				Planned Expenditure
				Faculty	Staff	Students	Total	
1	Electrical CAD	19/09/14-20/09/14	2	7	3	55	65	40000
	Total							**40000**

Department :Information Technology

Faculty Development Plan for Training in Subject Domain based on TNA for BOG approval

No	Name	Course	Tentative date	Duration	Institution	Expenditure
1	Shaji.L	Linux Server Administration	25/11/2013-29/11/2013	5 Days	ESCI Hyderabad	50,000
2	Shaji.L	Internet Technologies and Web Developing Methods	17-20 Feb2014	4 Days	ESCI Hyderabad	50,000
3	AnilKumar.A	Bioinformatics and privacy protection	Dec 23,24,25	3 days	MNIT Jaipur	60,000
4	Anilkumar.A	Internet Technologies and Web Developing Methods	17-20 Feb2014	4 Days	ESCI Hyderabad	50,000
		Total				160,000

In-house Training Programmes / Continuing Education Programmes plan for BOG approval

No	Name	Course	Tentative date	Type	Duration	Participation expected	Expenditure
1	AnilKumar.A Diana Mathew	Pattern Recognition Fundamentals	Feb 2014	Expert Lecture	1 Day	30	20,000
2	Shaji.L Seena Jojith	Computer Vision Fundamentals	March 2014	Expert Lecture	1 Day	30	20,000
3	Jyothi R .L Sree.S .Bhagya	Random processes as inputs to linear time invariant systems	March 2014	Expert Lecture	1 Day	30	20,000
4	Shaji.L Manoj Ray D Smitha P	Multicore Networks	June 2014	Training	5 Days	30	200000
			Total				2,60,000

ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Development Plan for Training in Subject Domain based on TNA for BOG approval

No	Name	Course	Tentative date	Duration	Institution	Expenditure
1	Deepa V S	Semiconductor Technology and Manufacturing .	Dec. 10-15 ,2013.	6 days	IIT Mumbai	60,000
		Advanced Digital Signal Processing	Nov18-22,2013	5 Days	TKM college of Engineering	5000
2.	Shiny C.	Semiconductor Technology and Manufacturing .	Dec. 10-15 ,2013	6 days	IIT Mumbai	60,000
		Accreditation and Autonomy(ISTE Sponsored)	6-8 January 2014 .	3 days	Hotel Sing ar International,Opp.Rail way Station,Kanyakumari-629702.	35,000

3.	Deepa A K.	Semiconductor Technology and Manufacturing .	Dec. 10-15 ,2013.	6 days	IIT Mumbai	60,000
4.	Reji Thankachan	Effective Teaching and Learning Pedagog y(ISTE Sponsored)	5-7 February 2014	3 days	KTDC Chaithram Hotel,Trivandrum-695001.	35,000
		Semiconductor Technology and Manufacturing .	Dec. 10-15 ,2013.	6 days	IIT Mumbai	60,000
		Circuit Schematics and Simulation using Multi Sim**.	6-10 January 2014 .	5 days	NITTTR Chennai	30,000
	Sylish S V.	PLC and SCADA .	3-7 February 2014 .	5 days	NITTTR Chennai	30,000
5.		Semiconductor Technology and Manufacturing .	Dec. 10-15 ,2013.	6 days	IIT Mumbai	60,000
		Circuit Schematics and Simulation using Multi Sim.	6-10 January 2014 .	5 days	NITTTR Chennai	30,000

6	Deepa T R	PLC and SCADA	3-7 February 2014 .	5 days	NITTTR Chennai	30,000
		Effective Teaching and Learning Pedagog y(ISTE Sponsored)	5-7 February 2014.	3 days	KTDC Chaithram Hotel,Trivandrum-695001.	35,000
7	Anuja V Nair.	Accreditation and Autonomy(ISTE Sponsored)	6-8 January 2014 .	3 days	Hotel Sing ar International,Opp.Rail way Station,Kanyakumari-629702.	35,000
		Effective Teaching and Learning Pedagog y(ISTE Sponsored)	5-7 February 2014.	3 days	KTDC Chaithram Hotel,Trivandrum-695001	35,000
8	Kuriachan T D	Advanced Linux Administration.	25-28 November 2013	4 days	ESCI Hyderabad.	40,000
		Circuit Schematics and Simulation using Multi Sim. .	6-10 January 2014 .	5 days	NITTTR Chennai	30,000
					Total	**8,70,000**

No	Name	Course	Tentative date	Type	Duration	Participation expected	Expenditure
1	Sylish S V	Labview Programming	Nov 2013	workshop	6 Days	30	2,00,000
2	Reji Thankachan	Advancement in fiber optics Communication	Dec 2013	Training	5Days	30	2,00,000
3	Deepa T R Shiny C	Embedded System Design	Nov 2014	Training	5 Days	30	2,00,000
4	Anuja V Nair Deepa A K	Recent Trends in wire less communication	May 2014	Training	5 Days	30	2,00,000
5	Anuja V Nair Jeena.	MicroController Programming	June 2014	workshop	5 Days	30	2,00,000
6	Bence Paul	MEMS		Seminar	I Day	30	170000
7	Carbon Nano Tubes	Jeena	Nov 2013	Seminar	I Day	30	170000
8	Embedded Systems	Anwarsha	Dec	Seminar	I Day	30	170000
9	Restructuring of Engineering	Sylish S V	Jan 2014	Seminar	I Day	30	30,000

	Curriculam in the perspective of Globalized Economy						
10	Teaching- A passion	Remya S	Feb 2014	Seminar	I Day	30	15,000
11	Advanced communication	Reji Thankachan	March 2014	seminar	I Day	30	15,000
12	Neural Networks	Shiny C	March 2014	seminar	I Day	30	15,000
13	Technical Communication and Writing	Sylish S V	Dec 2013	Workshop	5 Days	30	1,50,000
14	Internet protocol in telecommunication systems	Reji Thankachan	Jan 2014	Workshop	2 days	30	40,000
Total							9,75,000

In-house Training Programmes / Continuing Education Programmes plan

No	Name	Course	Tentative date	Type	Duration	Participation expected	Expenditure
1	Sylish S V	Labview Programming	Nov 2013	workshop	6 Days	30	2,00,000
2	Reji Thankachan	Advancement in fiber optics Communication	Dec 2013	Training	5Days	30	2,00,000
3	Deepa T R Shiny C	Embedded System Design	Nov 2014	Training	5 Days	30	2,00,000
4	Anuja V Nair Deepa A K	Recent Trends in wire less communication	May 2014	Training	5 Days	30	2,00,000
5	Anuja V Nair Jeena.	MicroController Programming	June 2014	workshop	5 Days	30	2,00,000

6	Bence Paul	MEMS		Seminar	I Day	30	170000
7	Carbon Nano Tubes	Jeena	Nov 2013	Seminar	I Day	30	170000
8	Embedded Systems	Anwarsha	Dec	Seminar	I Day	30	170000
9	Restructuring of Engineering Curriculam in the perspective of Globalized Economy	Sylish S V	Jan 2014	Seminar	I Day	30	30,000
10	Teaching- A passion	Remya S	Feb 2014	Seminar	I Day	30	15,000
11	Advanced communication	Reji Thankachan	March 2014	seminar	I Day	30	15,000
12	Neural Networks	Shiny C	March 2014	seminar	I Day	30	15,000
13	Technical Communication and Writing	Sylish S V	Dec 2013	Workshop	5 Days	30	1,50,000
14	Internet protocol in	Reji	Jan 2014	Workshop	2 days	30	40,000

	telecommunication systems	Thankachan						
Total								7,75,000

In-house Training Programmes / Continuing Education Programmes plan for Technical Staff for BOG approval

No	Name	Course	Tentative date	Type	Duration	Participation expected	Expenditure
1	Kuryachan.T.D	Open Hardware design	Jan 2014	Workshop	5 Days	30	2,00,000
2	Kuryachan.T.D	Electronics Product Design	18/11/2013-22/11/2013	Workshop	5 Days	30	2,00,000
3	Kuryachan.T.D	Embedded controls in Andriod	March 2014	Workshop	3 Days	30	60,000
	Total						4,60,000

TOTAL EXPENDITURE PLANNED: 63.38 Lakhs

Another 56 Lakhs will be spent for outstation programmes from Jan 2014 to Dec 2014

Plan for EAP Programmes (November-2013- December2014)

Training Programmes for Students under EAP

REMEDIAL CLASSES					
EC				330600*2	661200
CS				180000*2	360000
IT				180000*2	360000
EEE				330600*2	661200
			TOTAL		**2042400**
EXPERT LECTURES					
EC					310000
CS					126000
IT					200000
EEE					200000
			TOTAL		**836000**
SOFT SKILL				50000*3	**150000**
BRIDGE COURSES	CS/IT/EC/EEE		60*3		108000
GRAND TOTAL					**3136400**

PLACEMENT TRAINING

Sl No	Programme	Year/Semester	Planned date	No of days	No of batches	Estimate Cost
1	Employability Skills	Final Yr	Dec-13	5	2	96000
2	Placement Orientation	Third Yr	Jan-14	5	4	198500
3	Personality Development	Second Yr	Jan-14	5	4	198500
4	Presentation Skills	Mtech	Sep-14	2	2	55200
5	Induction Training	First Yr	Dec-13	4	4	158800
6	Employability Skills	Final Yr	Aug-14	5	4	198500
7	Aptitude Test training	Final Yr	Sep-14	5	4	198500
8	Refresher programme	Final Yr	Oct-14	1	4	39700
9	Placement Orientation	Third Yr	Sep-14	5	4	198500
10	Personality Development	Second Yr	Nov-14	5	4	198500
11	Presentation Skills	Mtech	Sep-14	2	2	55200
12	Induction Training	First Yr	Sep-14	4	4	158800
					TOTAL	**1754700**

SUBJECT TRAINING

Sl. No.	Training Programme	No. of days	Tentative Dates	Expected Expenditure
Final Year Students (VIII Semester)				
1.	Writing & Presentation Skills	2 days	January 2014	40,000
2.	Workshop on Matlab & Labview	3 days	December 2013	50,000
3.	Training on Android Programming	3 days	Sept. 2013	50,000
Pre-Final Year Students (VI Semester)				
4.	Training on MYSQL Database development	2 days	January 2013	40,000

5.	PIC Programming	3 days	October 2013	50,000
IV Semester Students				
6.	Training Programme on Personality Development	3 days	February 2013	50,000
7.	Microcontroller Programming	3 days	May 2014	50,000
8.	Advancements in Electrical Measurements	2 days	January 2014	30,000
First Year Students				
9.	Workshop on Time Management	2 Days	January 2013	40,000
10	Training Programme to improve Communication Skills	2 Days	February 2013	40,000

TOTAL PLANNED EXPEDITURE UNDER EAP : Rs. 54 Lakhs

ACTION PLAN IIIC

Computer Science and Information Technology

Expert Lectures

Sl No	Name of Lecture	Expert/Industry involved	No of days	Proposed date	Target UG/PG	No of students	Expected Expense
1	Graphics and Web Designing	Seaview Support System Pvt. Ltd. Technopark	1	Nov-13	UG and PG	100	25,000
2	Distributed and Mobile Computing	Apple India Ltd., Bangalore	1	Nov-13	UG	50	20,000
3	Software Development Process	Seaview Support System Pvt. Ltd. Technopark	1	Dec-13	UG	50	18,000
4	Android Operating System	Seaview Support System Pvt. Ltd. Technopark	1	Dec-13	UG and PG	100	25,000
7	Open Source Software	NEST, Trivandrum	1	Feb-14	UG	50	20,000
9	Advanced Image Processing Techniques	CDIT, Trivandrum	1	Mar-14	PG	40	15,000
10	Network Security and Cryptography	Seaview Support System Pvt. Ltd. Technopark	1	Mar-14	UG	50	20,000
11	Introduction to Open GL with Graphics	VSSC, Trivandrum	1	Apr-14	PG	40	15,000
12	Developments and challenges in cloud computing	Seaview Support System Pvt. Ltd. Technopark	1	Apr-14	UG and PG	100	25,000
15	Advanced Computer Networks	CDAC, Trivandrum	1	Jun-14	UG	50	20,000
16	Computer Vision : Concepts	CDAC, Trivandrum	1	Jun-14	PG	40	15,000

17	Medical Imaging Techniques	SCT, Trivandrum	1	Jul-14	PG	40	15,000
18	Network Administration	Seaview Support System Pvt. Ltd. Technopark	1	Sep-14	UG	50	20,000
19	Machine Learning	Bosch Ltd, Jaipur	1	Oct-14	UG and PG	100	25,000
20	Bioinformatics	Apticraft, Indore	1	Oct-14	UG and PG	100	25,000
21	Advanced DataBase Concepts	UST Global, Trivandrum	1	Oct-14	UG	50	20,000
22	Computer Linguistics	Genesis Linguistis, NewDelhi	1	Nov-14	UG and PG	100	25,000
23	Applications of Linear algebra in Computer Science	IISc Banglore	1	Nov-14	UG and PG	150	30,000
24	Advanced Techniques in Datamining	Seaview Support System Pvt. Ltd. Technopark	1	Nov-14	PG	40	15,000
25	Discrete Computational Structures in Computer Science	IIT Madras	1	Dec-14	UG	150	30,000
26	Object Computing	HCL, Chennai	1	Dec-14	UG	50	20,000
27	Game Theory and Fuzzy Logic	IBM, Banglore	1	Dec-14	PG	40	15,000
28	Wireless Communication and networks	BSNL, trivandrum	1	Dec-14	UG	100	25,000
29	Advanced Communication Techniques	BSNL, trivandrum	2	Dec-14	UG	50	30,000
30	Information Security	Appins Technologies, Trivandrum	3	Dec-14	UG	50	30,000
							5,43,000

Students Internship

Sl No	Visit/Training/Internship	Name of Industry involved	No of days	From	Target UG/PG	No of students	
1	Linux Administration	Seaview Support System Pvt. Ltd. Technopark	4	Nov-13	UG	40	40,000
2	Android Applications Development	Seaview Support System Pvt. Ltd. Technopark	4	Dec-13	UG	40	40,000
3	Multimedia 2D and 3D Animations	Technopark, Trivandrum	4	Jan-14	UG	40	40,000
4	Graphics Implementation with OpenGL	IBM, Banglore	2	Nov-13	PG	40	40,000
5	Image processing with OpenCV	CDIT, Trivandrum	2	Dec-13	PG	40	20,000
14	Internship	Seaview Support System Pvt. Ltd. Technopark	1 week	May-14	UG	30	60,000
15	Internship	Seaview Support System Pvt. Ltd. Technopark	1 week	May-14	UG	30	60,000
16	Internship	Seaview Support System Pvt. Ltd. Technopark	1 week	May-14	UG	30	60,000
17	Internship	Seaview Support System Pvt. Ltd. Technopark	1 week	Jun-14	PG	30	60,000
18	Internship	CDAC Trivandrum	1 week	May-14	UG	30	60,000
19	Internship	CDAC Trivandrum	1 week	Jun-14	PG	30	60,000

20	Internship	CDAC Trivandrum	1 week	Jun-14	PG	30	60,000
21	Internship	BSNL Training Centre , Trivandrum	2Weeks	May-14	UG	30	80,000
22	Internship	BSNL Training Centre , Trivandrum	2Weeks	May-14	UG	30	80,000
23	Internship	BSNL Training Centre , Trivandrum	2Weeks	Jun-14	UG	30	80,000
24	Internship	BSNL Training Centre , Trivandrum	2Weeks	Jun-14	PG	30	80,000
25	Internship	BSNL Training Centre , Trivandrum	2Weeks	Jun-14	PG	30	80,000
26	Industrial visit	Technopark, Trivandrum	1day	Dec-13	UG	75	25,000
27	Industrial visit	Infosys, Bangalore	1day	Dec-13	UG	75	70,000
28	Industrial visit	IBM, Banglore	1day	Feb-14	UG	75	70,000
29	Industrial visit	Cdot, Banglore	1day	Mar-14	PG	40	50,000
30	Industrial visit	BSNL Training Centre , Trivandrum	1day	Apr-14	UG	75	25,000
31	Industrial visit	VSSC, Trivandrum	1day	May-14	UG	75	25,000
32	Industrial visit	CDAC, Trivandrum	1day	Jun-14	UG	75	25,000
33	Industrial visit	CDIT, Trivandrum	1day	Jun-14	PG	40	25,000
34	Industrial visit	Infopark, Cochin	1day	Dec-14	UG	75	25,000
							13,40,000

Industrial Visit

Sl No	Visit/Training	Name of Industry involved	No of days	Dates	Duration	Amount
1	Visit	Cdot Banglore	1	Dec-13	3	50,000
2	Visit	Infosys, Banglore	1	Oct-13	3	50,000
3	Visit	CDAC, Delhi	1	Dec-13	3	50,000
4	Visit	STPI, Delhi	1	Feb-14	3	50,000
5	Visit	STQC,Hydrabad	1	Apr-14	3	50,000
6	Visit	CETE Hydrabad	1	Jun-14	3	50,000
7	Visit	IBM, Banglore	1	Jul-14	3	50,000
8	Training on Linux Administation	Spectrum Spft Tech Solution , Cochin	1 WEEK	Nov-13	3	70,000
9	Training on database administration	Pinnacle, Cochin	1 WEEK	Nov-13	3	70,000
10	Training on Network Administation	Seaview Support System Pvt. Ltd. Technopark	1 WEEK	Jan-14	3	70,000
11	Training on Multimedia project design	Aim Mutimedia, Chennai	1 WEEK	Mar-14	3	70,000

12	Training on Open Gl and Open CV	V Create Logic, Banglore	1 WEEK	May-14		3	70,000
13	Training on Web Designing	Seaview Support System Pvt. Ltd. Technopark	1 WEEK	Aug-14		3	70,000
14	Training on Android Application	Seaview Support System Pvt. Ltd. Technopark	1 WEEK	Sep-14		4	70,000
15	Training on IOS application Development	Apple India Ltd., Bangalore	2 WEEK	14-Oct		3	70,000
	Training on Graphics and Web Designing	Seaview Support System Pvt. Ltd. Technopark	1 WEEK	Nov-14		3	70,000

Total 980000

MoU Planned

Sl.No.	Industry Name	From	To	Planned / Signed	Activities / Objectives
1	IBM Banglore	Nov-13	Dec-14	planned	Expert lecture, internship, industrial visit
2	Seaview Support System Pvt. Ltd. Technopark	Nov-13	Dec-14	planned	Expert lecture, internship, industrial visit
3	Apple India Ltd., Bangalore	Nov-13	Dec-14	planned	Expert lecture, internship, industrial visit
4	E System Software, Trivandrum	Nov-13	Dec-14	planned	Expert lecture, internship, industrial visit
5	Appins Technologies, Trivandrum	Nov-13	Dec-14	planned	Expert lecture, internship, industrial visit
6	NEST, Trivandrum	Nov-13	Dec-14	planned	Expert lecture, internship, industrial visit

Electronics and Communication Engineering

Sl.No		Program Type(MOU,Expert lecture,internship,industrial visit)	Department	Industry Name / Instn Name	Date (mm-yy)	No 0f Days	Expenditure(Approx)Rs
1	VHDL	Training based on MoU	ECE	NeST	Nov-13	14	25000
2	VHDL	Training based on MoU	ECE	NeST	May-14	14	25000
3	VHDL	Training based on MoU	ECE	NeST	Nov-14	14	25000
4	Moden Communication Technology	Training based on MoU	ECE	BSNL, RTTC Trivandrum	Nov-13	14	30000
5	Moden Communication Technology	Training based on MoU	ECE	BSNL, RTTC Trivandrum	May-14	14	30000
6	Moden Communication Technology	Training based on MoU	ECE	BSNL, RTTC Trivandrum	May-14	14	30000
7	Signal Processing and Trends	Training based on MoU	ECE	NeST	Dec-13	7	20000
8	Signal Processing and Trends	Training based on MoU	ECE	NeST	May-14	7	20000
9	Moden Communication Technology	Training based on MoU	ECE	BSNL, RTTC Trivandrum	Feb-14	7	20000
10	Moden Communication Technology	Training based on MoU	ECE	BSNL, RTTC Trivandrum	Nov-14	7	20000
11	Mobile Networks	Expert Lecture	ECE	BSNL	Aug-13	1	3600
12	Telecommunication	Expert Lecture	ECE	BSNL	Dec-13	1	5000
13	VHDL programming	Expert Lecture	ECE	NeST	Dec-13	1	5500
14	Natural Language Processing	Expert Lecture	ECE		Nov-13	1	5500
15	Digital Image Processing Advancemnts	Expert Lecture	ECE	IITs and NITs	Feb-14	2	22000
16	Signal Processing and Trends	Expert Lecture	ECE	CET	Dec-13	2	22000
17	Entrepreneurship	Expert Lecture	ECE	various firms	Dec-13	10	100000

18	Entrepreneurship	Expert Lecture	ECE	Union Bank	Aug-13	1	5350
19	Signal Processing and Trends	Expert Lecture	ECE	CET	Dec-13	2	22000
20	Biomedical Engineering	Expert Lecture	ECE	SCTIMST	May-14	1	6000
21	Embedded System	Expert Lecture	ECE	DOEAAC/CDAC	Nov-13	1	12000
22	Embedded System	Expert Lecture	ECE	DOEAAC/CDAC	May-14	4	50000
23	Research Opportunities:India and Abroad	Expert Lecture	ECE		Dec-13	1	15000
24	Computer Technology	Expert Lecture	ECE	various firms	May-14	4	50000
25	Control systems	Expert Lecture	ECE	IITs and NITs	Jan-14	4	50000
26	Mobile Networks	Expert Lecture	ECE	BSNL	Jun-14	4	50000
27	Soft Computing	Expert Lecture	ECE	NIT	Nov-13	4	50000
28	Network Security	Expert Lecture	ECE	NIT	May-14	1	12000
29	Telecommunication Networks	Expert Lecture	ECE	NIT	May-14	2	25000
30	**LABVIEW**	**Training based on MoU**	ECE	**NI**	Dec-13	**10**	300000
31	ITI Palakkad	industrial visit	ECE	ITI Palakkad	Feb-14	1	30000
32	**KELTRON**	industrial visit	ECE	**KELTRON**	Dec-13	**1**	**15000**
33	SCTIMST	industrial visit	ECE	SCTIMST	Jan-14	1	15000
34	AIR,Doordarsan	industrial visit	ECE	AIR,Doordarsan	Jan-14	1	30000
35	SCTIMST	industrial visit	ECE	SCTIMST	Apr-14	1	14000
36	NeST	industrial visit	ECE	NeST	Feb-14	1	20000
37	KEL	industrial visit	ECE	KEL	Jan-14	1	18000
38	ITI Palakkad	industrial visit	ECE	ITI Palakkad	Feb-14	1	27000
39	BSNL	industrial visit	ECE	BSNL	May-14	1	10000
40	**LABVIEW**	**Training based on MoU**	ECE	**NI**	Dec-14	**3**	50000
41	BEL/BHEL,	industrial visit	ECE	BEL/BHEL,	May-14	1	150000
42	VSSC	industrial visit	ECE	VSSC	Jun-14	1	50000
43	SCTIMST	industrial visit	ECE	SCTIMST	Feb-14	1	50000
44	AIR,Doordarsan	industrial visit	ECE	AIR,Doordarsan	Jan-14	1	50000
45	ITI Palakkad	industrial visit	ECE	ITI Palakkad	Nov-13	1	70000

Sl.No	Name of Program	Program Type (MOU, Expert lecture, internship, industrial visit)	Department	Industry Name / Instn Name	Date (mm-yy)	No of days	Expenditure (Rs.)
46	Digital Image Processing Advancemnts	Expert Lecture	ECE	IITs and NITs	Feb-14	2	22000
47	Optical Fibre Communication	Expert Lecture	ECE	NeST & BSNL	Dec-13	2	22000
						TOTAL	1698980

Electrical and Electronics Engineering

Sl.No	Name of Program	Program Type(MOU,Expert lecture,internship,industrial visit)	Department	Industry Name / Instn Name	Date (mm-yy)	No of days	Expenditure (Rs.)
1	Training at UEL	Training based on MoU	EE	UEL Kollam	Dec-13	5	25000
2	Basics of Electrical Engineering	Expert Lecture	EE		Dec-13	1	10000
3	Industrial visit to KEL,Kundara	Industrial Visit	EE	KEL Kundara	Dec-13	1	5000
4	High Voltage D.C. Transmission	Expert Lecture	EE	KSEB	Jan-14	1	15000
5	Testing of Induction Machines	Expert Lecture	EE	CET TVM	Jan-14	1	15000
6	Brushless Alternator	Expert Lecture	EE	KEL Kundara	Feb-14	1	15000
7	Industrial visit to UEL,Kollam	Industrial Visit	EE	UEL Kollam	Feb-14	1	5000
8	Energy Saving for Domestic Equipments	Expert Lecture	EE	ANERT	Mar-14	1	15000
9	Software engineering for electrical engineers	Expert Lecture	EE		Mar-14	1	10000
10	Two day Training-KEL Kundara	Training based on MoU	EE	KEL Kundara	Apr-14	2	20000
11	Dedicated design tools for electrical	Expert Lecture	EE		Apr-14	1	10000

	engineers						
12	Power Trading and Management	Seminar	EE		Jun-14	1	15000
13	Two day Training-TELK angamaly	Internship	EE	TELK angamaly	Jun-14	1	20000
14	Solar electrification: design and installation	Expert Lecture	EE	ANERT	Jul-14	1	10000
15	New trends in design of energy efficient drives	Expert Lecture	EE		Sep-14	1	10000
					Total		**200000**

TOTAL PLANNED EXPENDITURE UNDER IIIC—Rs. 56,00,000

Action Plan for R & D up to December 2014

November 2013 :

Submitting the Projects before Expert committee for approval.

 First week :Approved projects are submitted to TEQIP II for getting seed money and forwarding   proposals to RCC under various projects

1. Cancer grading
2. Pathology changes in cancer cell
3. Heart blood flow analysis
4. Skin disease analysis using skin image

December 2013 :

Proposal to SCIMS under one project

1. Diffusion Tensoring   Images (project duration one and half year)

Initiating the work of Conference to be conducted on June 2014

January 2014 :

Image Acquisition from RCC

Study Tour to SCIMS – For studying medical imaging equipments

February 2014:

Evaluation of the ongoing projects.

June 2014:

Conducting the First conference for 2 days

July 2014:

Accepting new Project Proposals from Students through Faculty

August 2014:

Finalizing the Projects with the help of Expert committee and submitting proposals for seed money.

November 2014:

Evaluation of the ongoing projects.

One another national conference in Medical Image Processing