

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

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

4th MEETING OF THE BOARD OF GOVERNORS

13/06/2014, 9:30AM

Venue: Conference Hall, College of Engineering Adoor

AGENDA NOTE



COLLEGE OF ENGINEERING ADOOR
Manakkala PO, Adoor
PIN : 691551

Agenda at a glance

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I. Confirmation of the minutes of the 3rd meeting of the BoG held on 22/02/2014

Minutes of the 3rd meeting of the Board of Governors held on 22nd February 2014 have been circulated to the members subsequent to the meeting under approval from the Chairman. Minutes are also included herewith as Annexure 1. The board is requested to confirm the minutes.

II. Action taken on the minutes of the 3rd meeting of the BoG held on 22/2/2014.

1. Steps have been initiated to start two new PG programs, one each in Electronics & Communication and Computer Science. The respective departments have applied to IHRD for approval. The IHRD has sent a query asking the institute to send details regarding the financial implication in starting the proposed PG programs. The communication between the institute and IHRD is included as Annexure 2.
2. The institute applied for accreditation on 31/3/2014 (Application No: 811-31/03/2014). The processing fee amounting Rs 10,11,240/- was remitted on 15/5/2014. Preparation of the Self Assessment Report (SAR) is in progress. The action plan and NBA deficiency report was included as Annexure 3.

III. Progress made in the various activities since the last BoG meeting

A. Procurement Status

The summary of the procurement activity is as given below.

Sl. No	Procurement Status	No of packages	Amount (Rs)
1	Procurement Completed	71	2,46,76,129
2.	Packages Committed	50	2,19,10,669
3.	Purchase order not finalized	06	13,97,000
4	Packages not initiated	05	50,00,000
Total		132	5,29,83,798

The details of all the procurement packages are included as Annexure 4.

B. Academic Activities

i) Faculty and Staff Development – In-house training programs

Sl No	Program	Department	Date	Expenditure
1	Workshop on LABVIEW	EC	20 Feb 2014	5325
2	Seminar on Management of Information Technology	CS	26 Feb 2014	15477
3	Workshop on Android Programming	CS	11 Apr 2014	17203

ii) Faculty and Staff Development – External training program (faculty)

Sl No	Name of the faculty	Department	Date	Training Organisation
1	Manju S Nair	CS	15-16 Mar 2014	IIIT&M Kerala
2	Sanchu S	ME	17-21 Feb 2014	IIT Kharagpur

iii) Faculty and Staff Development – External training program (technical staff & administrative staff)

Sl No	Name of the staff	Department	Date	Training Organisation
1	Joseph Chandy	CS	11-13 Mar 2014	RIT Kottayam
2	Joseph Chandy	CS	25-29 Mar 2014	RIT Kottayam
3	Saritha M S	Library	30 May - 1 June 2014	S H Thevara Cochin

iv. Industry Institute Interaction

Sl No	Program	Beneficiary	Date	Expenditure
1	Industrial Visit to TELK Angamaly.	58 Students of S8 EC	21 February Mar 2014	
2	An expert lecture on “ Server Administration and Virtualization ”	Students of S6 CS	25 February 2014	8361

The complete details of all academic activities conducted as on 13/6/2014 is included as Annexure 5.

C. Teaching and Research Assistantships

Total number of students availing Teaching Assistantship - **26**

[10 students from 2012-14 batch and 16 from 2013-15 batch]

Total amount disbursed as on 13/6/2014 (in Rs) - **11, 24,000/-**

[The students from the 2012 admissions receive **Rs 4000/-** per month and the students from the 2013 admission receive **Rs 6000/-** per month.]

D. Remedial Classes

The details of the remedial classes engaged in the last academic year are included as Annexure 6.

E. The status of fund position as on 13.06.2014

Fund utilization status for the allotted 300 Lakh is presented in table given below.

No	Activity/Category of Expenditure	Total Budget Provision out of Rs. 1000 Lakh	Provision out of Rs. 300 Lakh (Tentative)	Amount spent
1	Improvement in teaching, training and learning facilities	Lakh	Lakh	Lakh
(a)	Expenditure on ICT enabled learning, related software & hardware.	550.00	300.00	31.94
(b)	Expenditure on New laboratory for new PG programs			
(c)	Expenditure on New laboratory for existing PG programs			16.46
(d)	Expenditure on Existing laboratories modernized/strengthened			132.65
(e)	Expenditure on Library i.e. books, e-books, journals, e-journals and course specific software			14.74
(f)	Expenditure on membership of online journals & consortium			0
(g)	Expenditure on digitally/virtually accessible courses/subjects			0
(h)	Expenditure on Modernizing Classrooms			6.39
(i)	Expenditure on Procurement of Equipments etc. for Institutes/ TEQIP unit.			44.58
(j)	Expenditure on Civil Work			0
(k)	Others. (Specify if Material)			4.00
Sub Total				246.13026
2	Providing Assistantship for increased enrolment in existing and new PG	100.00	2.00	11.24
3	Enhancement of R&D and Institutional Consultancy activities	20.00	3.00	0.02
4	Faculty and Staff Development (FSD)	100.00	30.00	8.88
5	Enhanced Interaction with Industry	40.00	5.00	0.71
6	Institutional Management Capacity Enhancement	30.00	10.00	2.28
7	Academic Reforms	20.00	20.00	11.24
8	Academic Support for weak students	40.00	10.00	1.25
9	Incremental Operating Cost	100.00	20.00	17.19
TOTAL		1000.00	300.00	299.58

IV. Ratification of the revised procurement plan

The institution procurement plan is revised with the addition of new packages, and the modifications of the existing packages. The details of the revisions made are given in the Annexure 7. The ratification of the BoG is requested for the revisions made till date in the Institutional Procurement plan.

V. Ratification of NOC given by principal

Principal has given NOC for the recommendation of the award of contract for the procurement packages under shopping for which the actual cost was more than 25% of the estimated price. Ratification by BoGs is requested in this case. The package details are given in the annexure 8.

VI. Ratification of flight travel performed by the faculty till date.

The following instances of flight travel performed by the faculty for attending various events in connection with the implementation of TEQIP – II is furnished before the board for its kind perusal. The board is requested to ratify the same.

Sl no	Name	Purpose	Date	Expenditure
1	JOHN GEORGE/ASSO.PROF.	PMSS TRAINING AT HYDERABAD	22/5/2013&23/6/13	23635
2	K.P .VENKITRAJ /ASST.PROF.	PMSS TRAINING	25/5/2013&23/6/13	
3	ANVER SADATH	REVIEW MEETING AT BANGALORE	24/9/13	5160
4	MADHU AK	REVIEW MEETING AT BANGALORE	22/9&24/9/13	10120
5	MANU M JOHN	REVIEW MEETING AT BANGALORE	22/9&24/9/13	12082
6	SANCHU S	MIS TRAINING,MUMBAI	8/10/13&11/10/13	14531
7	RAJESH MS	ACREDITATION TRAINING	21/10/13&25/10/13	38589
8	KRISHNADAS G	ACREDITATION TRAINING	21/10/13&25/10/13	
9	JAYAN MC	ACREDITATION TRAINING	21/10/13&25/10/13	
10	MANU M JOHN	QEEE TRAINING,NEW DELHI	19/11/13&21/11/13	25712
11	SANCHU S	FDP AT IIT ,KHARAGHPUR	14/2/14&22/2/14	20759
12	MADHU AK	QEEE REVIEW,NEW DELHI	12/3/14&14/3/14	20526

VII. Approval to convert the posts of Clerk cum Junior Accountant and Data Entry Operator from daily wages basis to contract basis.

As per the minutes of the 7th meeting of the State Steering Committee of TEQIP II held on 29/1/2014, the BoG may convert the posts of Clerk cum Junior Accountant and Data Entry Operator from daily wages basis to contract (consolidated pay) basis on meeting the eligibility criteria prescribed in the order. The minute of the same meeting is included as Annexure 9. The board is requested to grant approval for the same.

VIII. Activities to be initiated in the immediate future

1. Pedagogy for effective use of ICT in Engineering Education

- A two week workshop conducted by **IIT Bombay under the National Mission on Education through ICT (NME-ICT)**.
- The workshop involves physical participation of the faculty at the **remote centers** (CE Adoor is a remote center) during **12 – 14 June 2014 and 24 – 26 June 2014** and one week equivalent of work to be completed **online during 15 June – 23 July and 27 July – 2 August 2014**.
- This workshop focuses on pedagogical strategies that are effective while using ICT tools in a given teaching-learning situation.
- The workshop will introduce effective strategies for teaching with ICT tools and will give participants several opportunities to apply these strategies to design learning materials and activities for their courses.

2. Prerequisite based training

- The first week of the new academic session will be utilized for imparting prerequisite training for the appropriate courses.
- A two day workshop has been scheduled on **26th and 27th of June, 2014** to evolve out a strategy for **prerequisite based training** to be imparted at the start of the new academic session.
- The workshop will feature department wise groups trying to identify prerequisites, if any, for the different courses going to be offered in the new semester.
- The workshop will discuss the possibility of adopting a **blended MOOC model** in some select courses.
- Once the prerequisites are identified, specific topics to be discussed in the classes will be identified.

3. Reinventing Engineering Mechanics - II

- This 3 day workshop is scheduled on **2nd, 3rd and 4th of July, 2014**. The workshop is intended to expose the faculty (especially junior faculty) to the conceptual underpinnings of Newtonian Mechanics from a pedagogical perspective.
- The workshop is inspired by a **MOOC (Massive Open Online Course – Mechanics Review) offered by MIT over the edX platform**.
- The objectives of the workshop are :
 - Review the fundamental concepts in the Engineering Mechanics course, but with an emphasis on understanding how these concepts interrelate and how to use this understanding to analyze and solve multi concept problems.
 - Introduce **MAPS (Modeling Applied to Problem Solving)** pedagogical approach (Courtesy – RELATE research group at MIT (<http://RELATE.MIT.edu>) headed by Dr. Dave Pritchard, Professor of Physics at MIT)
 - Deliberate over innovative practices/methods to deliver the course material to first year students
- The pedagogical approach followed in the workshop can be easily applied to other courses as well.

4. Technology Incubator

A Technology incubator is being set up at the college. The infrastructure will be ready by the first week of July. The incubator is intended to provide opportunities for innovative ideas to flourish and offers the perfect platform for innovative thinkers among students to turn their ideas into products/services. The first startup to be incubated in the facility is a company named **TempusFugit**. The company is led by a vibrant team of engineering graduates from College of Engineering Adoor. The details of the company are included as Annexure 10.

IX. Any other matter with the permission of the Chair.

Annexure – 1

MINUTES OF THE 3rd MEETING OF THE BOARD OF GOVERNORS

College of Engineering Adoor

The meeting commenced at 11:15 AM. Prof Jyothi John welcomed the members of the BoG.

The BoG chairman, Dr. Eldho T I suggested starting new PG programs in Electronics and Communication (specialisation : Digital signal processing) and Computer Science (specialisation : Cyber Security). The BoG members also opined that new PG programs may be started as per the demand. Prof Narayanan, adviser, SPFU and special invitee to the BOG, asked for a time frame to start the PG programs. The principal ensured that steps shall be taken at the earliest.

The BoG asked the Principal, to initiate necessary steps to start new PG programs.

Incorporating the above mentioned suggestions the minutes of the last meeting (30/10/2013) was confirmed by the BoG.

The Nodal officer (Academic) was asked to present the status report of Faculty and Staff Development activities and Industry Institute Interaction activities. The BoG had an extended discussion on how to improve IIC activities. Dr Zakkariya. K. A urged that college to plan IIC activities during vacation.

Dr Zakkariya. K.A asked the faculty to reform the remedial coaching by utilizing the services of retired faculty, instead of taxing the existing faculty. The BoG entrusted the departments to come up with a proper plan to make remedial classes more attractive among students.

Dr. K. C. C Nair opined that an Innovation and Entrepreneurship Development Committee shall be established at the College and proposed to officially inaugurate IEDC in the first week of April.

In response to the discussion on accreditation process, the BoG recommended preparing an action plan by March end, and to present the progress in the next BoG meeting.

Agenda item II of the Agenda pertaining to the Procurement of Desktop Computers; (Item 1 - High End Computers -35 Nos, Item 2-Low End Computers- 147Nos (Total Quantity: 182 Nos).) The following details with regard to the package were placed before the BoG.

Three bids were received. The readout prices without tax were as furnished, below.

Sr No.	Bidder Name	Nationality	Bid Price as Read Out	Remarks
1	IDEAL SYSTEMS, Trivandrum	INDIA	7007000	Without tax
2	TECHNOLINE Systems & Services, Cochin	INDIA	7020487.6	Without tax
3	Smartsoft, Cochin	INDIA	7414120	Without tax

All the three bids were evaluated and the bid submitted by IDEAL SYSTEMS was found non responsive due to the following reasons

- i. Payment terms of Ideal Systems, Trivandrum did not match with the institutional payment terms specified in the bid document.
- ii. The bid form in the prescribed format was not attached along with the bid submitted by Ideal Systems, Trivandrum

Due to the above stated reasons, the bid submitted by Ideal Systems, Trivandrum was evaluated as non-responsive and hence rejected.

After evaluation, the following bids were found to be the responsive ones.

Sr No.	Bidder Name	Bid Price as Read Out	Brief Reason
1	TECHNOLINE Systems & Services	7020487.6	L1 after evaluation
2	Smartsoft	7414120	L2 after evaluation

As the lowest responsive bidder, Technoline Systems & Services, Cochin is found to satisfy the post qualification criteria, the bid submitted by them was accepted for the award of contract. The details of recommended bid are furnished below. The prices quoted are well below the existing DGS&D rate contract for comparable configuration.

Name of the Bidder: Technoline Systems & Services

Address: ML-8 Cross Road, Muttathil Lane, Elamkulam.P.O.

Kadavanthra, Cochin, Kerala, 682020.

Total Bid Value: Rs.7020487.6 (without tax) Rs.7371512 (with tax)

After checking all the documents pertaining to the NCB Package, the Board of Governors, College of Engineering Adoor accorded purchase sanction for the procurement of Desktop Computers (182 nos) for a total contract price of Rs. 7371512 (Seventy Three Lakhs Seventy One Thousand Five Hundred and Twelve Only)

Item number III of the Agenda note pertaining to the ratification of NOC by the Principal for packages with actual cost 25% more than the estimate was deferred till next BoG meeting.

Item IV of the Agenda note pertaining to ratification of principal's approval of revisions made in the procurement plan was approved by the BoG.

The proposal regarding R&D activities was discussed in the meeting and the BoG entrusted the principal and faculty to go through SSC report in consultation with the SRA and proceed with the activities. A report on the same shall be presented in the next BoG meeting for ratification.

Regarding the Innovation lab activities, the BoG suggested that the expenditure related to the Innovation Lab shall be included in the head for IIC activities and whatever funding is involved must be claimed by the concerned faculty.

The meeting concluded at 1:45 PM.



COLLEGE OF ENGINEERING, ADOOR

Managed by Institute of Human Resources Development(IHRD)

A Government of Kerala Undertaking

Manakkala P.O, Adoor

Pathanamthitta District, Kerala, India, PIN-691 551

Phone:91-4734-231995/230640, Fax: 91-4734-231995

email:ceadoor@ihrd.ac.in, website:www.ceadoor.ihrd.ac.in



No. B2/246/2014/CEA

Dated: 09.06.2014

From

The Principal

To

The Director

IHRD

Trivandrum

Sir,

Sub: - CE Adoor–starting of new M. Tech courses– details- forwarding of –
reg: -

Ref: - That office letter No. DA1/5451/2014/HRD (1) dated 16.05.2014.

As per the reference cited above, I am forwarding herewith the detailed proposal for starting new M. Tech courses under the branches of Computer Science (Data Security) and Electronics and Communication (Signal Processing) from the academic year 2014-15 onwards.

Requirements of faculties and supporting staff and their remuneration

1. a) The required no of faculties for starting M. Tech in Electronics One Associate Professor, Two Assistant Professors and One Trade Instructor.
- b) for M. Tech in Computer Engineering One Associate Professor, Two Assistant Professors and One Computer Programmer.
2. Additional Amount for the salary of faculties (Regular)

Associate Professor

Pay	=	37400
AGP	=	9000
DA 100%	=	46400
HRA	=	380
Total	=	<u>93180/- p/m.</u>

Assistant Professor

Pay	=	15600
AGP	=	6000
DA 100%	=	21600
HRA	=	340
Total	=	<u>43540/- p/m.</u>

Associate Professors 2 Nos. Rs. 2236320/- per year.

(Electronics & Computer)

Assistant Professors 4 Nos. Rs. 2089920/- per year

(Electronics & Computer)

Supporting staff

Trade Instructor (Regular) (Electronics and Communication)

Pay	=	6680
DA 191%	=	12759
HRA	=	280
Total	=	<u>19719/- p/m.</u>
		<u>Rs. 236628/- per year</u>

Computer Programmer (Computer Science)

Pay	=	6680
DA 191%	=	12759
HRA	=	280
Total	=	<u>19719/- p/m.</u>
		<u>Rs. 236628/- per year</u>

3. Two classrooms are required for starting M. Tech courses in Computer Engineering only.
4. No additional laboratories are required for both branches.
5. No additional materials are required for functioning both branches.

If appointed the guest faculties, in the absence of regular faculties (Assistant Professor) the remuneration will be Rs. 86400/- p/m. Total Rs. 1036800/- per year.

In the case of supporting staff such as, Computer programmer, Trade Instructor etc, the remuneration will be Rs. 19000/- p/m. Total Rs. 228000/- per year.

The proposal may be considered favourably and necessary orders in the regard may kindly be issued at the earliest, so as to commence the courses from the academic year 2014-2015.

Yours faithfully


PRINCIPAL

Annexure – 3

1. ACTION PLAN

PLAN OF ACTION -- NBA ACCREDITATION		
1	ONLINE REGISTRATION NBA WEB PORTAL	12/13
2	REGISTRATION FEE PAYMENT	01/14
3	NBA ACCREDITATION COMMITTEE CONSTITUTED	02/14
4	COMMITTEE DISCUSSED VARIOUS CRITERIA FOR NBA ACCREDITATION AND IDENTIFIED DEFICIENCIES OF THE INSTITUTE IN GENERAL, BASED ON NBA EVALUATION GUIDELINES	03/14
5	APPLIED FOR NBA FOR 3 PROGRAMMES	31/03/14
6	APPLICATION APPROVED	24/04/14
7	APPLICATION FEE PAID	15/05/14
8	FEE APPROVED AND DATE OF UPLOADING SAR	10/12/14
9	SAR PREPARATION WITH FULL DOCUMENTATION	
	CRITERIA 1 & CRITERIA 2	MAY JUNE
	REST	JULY AUGUST
10	FINAL ASSESSMENT BY INSTITUTE	OCTOBER.2014

Criteria 1 & criteria 2 May June status

Each dept started their work by forming dept wise NBA programme committee (Includes all faculty)- They redefined dept vision and mission-Prepared Course Outcomes for subject- redefined Programme Outcomes for each Programme.

2. DEFICIENCY REPORT

DEFICIENCY	ACTION TAKEN/TO BE TAKEN to overcome deficiency
Criterion 1 : Vision, Mission and Programme Educational Objectives (75)	

Dept wise vision and mission are not specified—Lack of Display of PEOs – lack of Alumni	Decided to clearly specify Dept Vision and Mission also decided to display Vision, Mission, PEOs in important premises of college, College website, College hand book (To be prepared and distributed from academic year 2014-15 onwards)---Decided to revive alumni of the college --
Criterion 2: Programme Outcomes (150)	
Lack of documentation-- Lack of indirect assessment like employer survey, Alumni survey etc	Documentation of Programme outcomes and course outcomes almost completed – Decided to conduct employer survey and alumni survey by online methods
Criterion 3 : Programme curriculum	
	Expert lectures in specialised areas and from industry persons conducted under FDP (TEQIP) will strengthen this criteria
Criterion 4: Students' Performance in the Programme (100)	
PERCENTAGE OF PASS--- DETAILS OF PLACED STUDENTS NOT THROUGH CAMPUS PLACEMENT	By including the Assessment report for the year 2013-14, we expect better score as we have made remedial classes and expert lectures to improve the performance of students-----Staff advisors are requested to collect the details of placed students for the years 2011-12, 2012-13. The Process in Progress
Criterion 5: Faculty Contributions (175)	
Acute Shortage of faculty in cadre positions in programme offered depts Professor EC(0), ME(0), CS(0); Associate Professor— EC(0), ME(1), CS(1)----- Lack of research Publications	All faculties are requested to contribute maximum in the area of research publications. On completion of this year M.Tech programme some research papers including Conference Papers will be ready. (In association with M.Tech projects)
Criterion 6: Facilities and Technical Support (125)	
Shortage of Class rooms	Procurement under TEQIP will strengthen Lab facilities- Proposed civil works under teqip will enhance infrastructure facility to a certain extent.
Criterion 7 : Academic Support Units and Teaching-Learning Process (75)	
maximum score	
Criterion 8 : Governance, Institutional Support and Financial Resources (75)	
Maximum score	Organisational set up of IHRD and Constitution of institutional BOG strengthen this criteria
Criterion 9: Continuous Improvement (100)	
Pass percentage and Placement statistics	In connection with Placement, details will be collected for including maximum students who were placed after passed out.

Annexure – 4

1. Procurement Completed

Sl. No	Package Name	Method of procurement	Contract Amount (Rs)
1	8086 Microprocessor and interfacing Cards	Shopping	77,931.00
2	Air Conditioners	Direct Contract	597,976.00
3	ANSYS Finite element analysis software	Shopping	422,000.00
4	ASME E-journal Package	Direct Contract	160,644.00
5	ATSM e-journal package	Direct Contract	71,500.00
6	BARCODE READER	Shopping	7,100.00
7	Cathode Ray Oscilloscope	Shopping	345,870.00
8	Centrifugal air compressor test rig	Shopping	148,621.00
9	Clamp meters & multimeters	Direct Contract	249,679.00
10	Communication trainer kits	Shopping	98,775.00
11	Currency Counting Machine	Shopping	9,250.00
12	DC Motor-Alternator set	Shopping	407,031.00
13	DC Motor-Generator set	Shopping	152,250.00
14	DC Regulated Power supplies	Direct Contract	621,699.00
15	Diesel Generator Set	Shopping	795,000.00
16	Digital Copier	Direct Contract	428,726.00

17	Digital trainer kit and IC Tester for Digital electronics lab	Shopping	122,955.00
18	Drawing Board with stand	Shopping	142,500.00
19	Elsevier e-journal package	Direct Contract	452,498.00
20	Experimental test rigs of Hydraulic machines -(Hydraulic Machines Lab-UG)	Shopping	370,401.00
21	Flash and fire point apparatus	Shopping	13,225.00
22	Function generator	Shopping	360,570.00
23	Furniture for library	Shopping	371,553.00
24	Hand tools for Mechanical Workshop	Shopping	116,835.00
25	Heat & Mass Transfer Lab Setups	Shopping	342,255.00
26	High Frequency Digital Storage Oscilloscope	Direct Contract	816,428.00
27	IC Engine Setup for UG Thermal Lab	Shopping	659,187.00
28	IEEE Journal Package	Direct Contract	376,200.00
29	Induction Generator Set up	Shopping	118,448.00
30	Insulation tester	Direct Contract	210,376.00
31	Inverter	Direct Contract	50,632.00
32	J- gate e journal Package	Direct Contract	67,416.00
33	LCR Meter	Shopping	31,500.00
34	Low frequency DSO	Shopping	286,650.00
35	MATLAB	Shopping	673,463.00

36	MCGRAW- HILL'S ACCESS ENGINEERING	Direct Contract	141,050.00
37	Measurement gadgets for Fluid Mechanics & Hydraulic Machines Lab	Shopping	30,457.00
38	Microwave simulation software	Shopping	700,000.00
39	Microwave test benches	Shopping	276,613.00
40	Multimedia projector	Direct Contract	961,875.00
41	Network analyser package	Shopping	456,750.00
42	NI software site license	Shopping	599,025.00
43	Office furnitures	Shopping	123,030.00
44	Online UPS	Direct Contract	620,370.00
45	Online UPS Phase-II	Direct Contract	141,011.00
46	Orcad and P-spice	Shopping	525,000.00
47	Peristaltic Pump	Shopping	44,426.00
48	Power quality analyzer	Direct Contract	844,000.00
49	Power supply	Shopping	131,681.00
50	Programmable Function generator	Direct Contract	692,490.00
51	Raspberry pi	Shopping	288,225.00
52	Rotational Viscometer	Shopping	571,320.00
53	Server Systems	Shopping	632,877.00
54	Sliding surface and screw cutting lathe and Accessories	Direct Contract	764,091.00

55	Smart Board	Direct Contract	493,416.00
56	Spectrum Analyser	Direct Contract	813,930.00
57	Springer e-journal package	Direct Contract	204,470.00
58	Surface roughness tester	Shopping	973,250.00
59	Tally Software	Direct Contract	14,400.00
60	Tool and cutter Grinder	Shopping	419,790.00
61	Training Room Chairs	Shopping	506,100.00
62	Transformers	Shopping	306,294.00
63	Ultrasonic shaker	Shopping	44,835.00
64	Vapour Absorption Refrigeration Test Setup	Shopping	131,446.00
65	Vapour Compression Refrigeration cycle demo unit	Shopping	101,676.00
66	Vernier caliper with fine adjustment	Shopping	52,556.00
67	Video Conferencing System	Shopping	503,107.00
68	Weighing Machine	Shopping	39,949.00
69	White boards	Direct Contract	145,755.00
70	Workstations	Direct Contract	945,000.00
71	3-D Solid Modeling CAD software	Shopping	275,000.00
Total			24676129

2. Procurement Packages Committed

Sl. No	Package Name	Method of procurement	Contract Amount
1	8051 Trainer Kit	Shopping	303348
2	Ammeter	Shopping	24331
3	Beagle bone black	Shopping	13020
4	Breadboard	Shopping	17483
5	Calorimeter	Shopping	113126
6	Cascade set	Shopping	203776
7	Circulating Temperature Bath	Shopping	299250
8	Data Acquisition System	Shopping	164120
9	DC Motors	Shopping	197169
10	DC Rectifier Unit	Shopping	143698
11	Desk& Benches	Shopping	759135
12	Desktop Computers	NCB	7371512
13	Digital Podium	Shopping	155720
14	Drawing Stool	Shopping	154575
15	Electrical Loads	Shopping	709634
16	Equipments for advanced electrical engineering lab	Shopping	166434
17	Equipments for Electrical Measurements Lab	Shopping	103073
18	ETAP	Shopping	199937

19	General Books	Shopping	237772
20	Handheld Oscilloscope	Direct Contract	200060
21	High Performance Machines with N-Vidia Quadro GPU	Direct Contract	565425
22	High Voltage Power supply	Shopping	49922
23	ID Card Printer	Shopping	94950
24	Induction Motors	Shopping	177164
25	Metallurgical microscope	Shopping	262984
26	Multistation Fitness Equipment	Shopping	321300
27	NDT Testing equipments	Shopping	227535
28	PC Based Oscilloscope	Shopping	118620
29	PCB Fabrication Facility	Shopping	118388
30	Power meter	Shopping	304456
31	Printer	Direct Contract	190400
32	Programmable Logic Controller	Shopping	128772
33	Programmable Power Supply	Direct Contract	125090
34	Research type IC Engine	NCB	1305930
35	RF Signal Generator	Direct Contract	432623
36	Setups for conducting experiments in fluid flow -(Fluid Mechanics	Shopping	145931

	Lab-UG)		
37	Test set ups for Advanced Electrical Engineering labs	Shopping	480556
38	Text Books of Computer Science Engineering	Shopping	675986
39	Text Books of Electrical Engineering	Shopping	577232
40	Text Books of Electronics & Communication Engineering	Shopping	608534
41	Text Books of Mechanical Engineering	Shopping	707623
42	Thermal Imager-IR Camera	Shopping	409500
43	ULTRA SHORT THROW DEVICES	Shopping	106000
44	Universal programmer	Shopping	39239
45	Universal Testing Machine	NCB	876000
46	V/f control set up	Shopping	95940
47	Vicker's hardness testing machine	Shopping	131250
48	Video Surveillance for Main Library	Shopping	39730
49	Wind Tunnel	NCB	940550
50	Wooden Work bench	Shopping	109828
Total			21910669

3. Packages with P.O. not finalized

Sl. No	Name of the package	Method	Estimated Cost
1	Multifunction Process Calibrator	Shopping	350000
2	Special Induction Machines	Shopping	360000
3	Electronic Spring Testing machine	Shopping	450000
4	FPGA Development Boards with Xilinx	Shopping	200000
Total			1360000

Annexure – 5

1. In-house training programs - Subject domain (completed as on 13/6/2014)

SI No	Particulars	Activity	Department	Coordinator(s)	Dates	No of Days	Expenditure
1	FDP [Recent Trends in Renewable Energy Systems]	In-house training in Subject Domain	ME & EEE	Venkitaraj K P, Renjithkumar D, Madhu A K	10-14 June 2013	5	84971
2	FDP [Information and Communication System Security]	In-house training in Subject Domain	EC	Harikumar T, Girija M G	26-28 June 2013	3	45000
3	Workshop [Library Automation using KOHA]	In-house training in Subject Domain	Library	Saritha	15-16 July 2013	2	44500
4	FDP [Productivity and Energy Efficiency for Sustainable Development]	In-house training in Subject Domain	ME	Lasithan L G, Madhu A K, Venkitaraj K P	22-26 July 2013	5	94500
5	FDP (Linux Kernel Programming)	In-house training in Subject Domain	CS	Ajeesh S, Syama S R	12-14 August 2013	3	45000

6	Workshop [Reinventing Engineering Mechanics – I]	In-house training in Subject Domain	ME	Madhu A K	23-24 August 2013	2	2970
7	Workshop [Finite Element Method – a gentle introduction]	In-house training in Subject Domain	ME	Anver Sadath A	6 September 2013	1	7598
8	FDP [Industrial Machinery Vibration Analysis and Machine Availability]	In-house training in Subject Domain	ME	Lasithan L G, Jayan M C, Sujithkumar P	9-11 October 2013	3	46192
9	Seminar [State of the art in VHDL & VLSI]	In-house training in Subject Domain	EC	Raji A	23 October 2013	1	13023
10	Workshop [Programming in PYTHON]	In-house training in Subject Domain	CS	Girija V R, Rahul Gopan	4 November 2013	1	16796
11	Seminar [Modern Display devices based on Nanotechnology]	In-house training in Subject Domain	EE and Applied Science	Sajeevan M, Hazeena A	7 November 2013	1	31938
12	FDP [Industrial automation using PLC & SCADA]	In-house training in Subject Domain	ME, EC & CS	Lasithan L G, Nisha Rajan, Ajeesh S	25 Nov – 29 Nov 2013	5	78400
13	FDP [Recent Trends in Electromagnetics]	In-house training in Subject Domain	EC	Bini B, Girija M G	4 Dec – 6 Dec 2013	3	41904
14	Seminar [Essentials of Cloud Computing]	In-house training in Subject Domain	CS	Jayaram K	12 Dec 2013	1	12780
15	FDP [Advances in Finite Element Methods]	In-house training in Subject Domain	ME	Anver Sadath A, Jayan M C, Sujithkumar P	29 Jan – 31 Jan 2014	3	109020
16	Workshop [ORCAD & PSPICE]	In-house training in Subject Domain	EC & EE	Bini B and Ajith	30 Jan 2014	1	7419

17	Workshop [Labview]	In-house training in Subject Domain	EC	Anoop S	20 Feb 2014	1	5325
18	Seminar [Management of Information Technology]	In-house training in Subject Domain	CS	Girija V R, Jisy Rajan, Tulips Angel Thankachan	26 Feb 2014	1	15477
19	Workshop [Android Programming]	In-house training in Subject Domain	CS	Jayaram K, Linu Ann Joy, Vijini	11 April 2014	1	17203

2. External Training Programs (Faculty)

Sl No	Name of the faculty	Department	Nature of the program	Training Program	Date	Organizing Institute/orga nization	Expen diture
1	Santhy S R	CS	STTP	Intelligent methods towards computational linguistics	22 – 27 July 2013	College of Engineering Cherthala	1355
2	Jaseena A	CS					1355
3	Sarojini S Potti	EC	STTP	VLSI Design	23-28 July' 13	CE Karunagappally	1075
4	Anver Sadath	ME	STTP	Engine Testing and Certification	18 – 22 August 2013	ARAI Pune	32496
5	Renjith Kumar D	EE	STTP	Energy management and Recent Trends in Power	25 – 28 Aug' 13	CE Karunagappally	1200
6	Haseena A	EE	Workshop	Random process and applications	9 – 11 Sept' 13	CE Karunagappally	700
7	Jalaja M B	AS					700
8	Ajeesh S	CS	STTP	Recent Trends in Nanotechnology	28 Oct – 1 Nov 2013	TKM College of Engineering	1272
9	Shan N	EC					1272
10	Vibesh V Panicker	EC					1272
11	Bini B	EC					1272
12	Syama S R	CS					1272
13	Jalaja M B	AS	STTP	Linear Algebra	9 Dec – 13 Dec	LBS Institute of Technology TVPM	3013
14	Anver Sadath A	ME	STTP	Advanced	22 Dec –	IIT Madras	20550

				Computational Fluid Dynamics	24 Dec 2013		
15	Sanchu S	ME	STTP	Cryogenic technology : Materials, Processes and Equipment	17 Feb – 21 Feb 2014	IIT Kharagpur	52677
16	Manju S Nair	CS	Workshop	Cloud Computing	15 – 16 March 2014	IIT&M Kerala	4500

3. External Training Programs (Tech Staff and Administrative staff)

Sl No	Name of the faculty	Department	Nature of the program	Training Program	Date	Organizing Institute/org anization	Expendi ture
1	Balachandran S	EC	STTP	Study and Maintenance of Modernized Electronics Lab	12-17 Aug'13	College of Engineering Karunagappally	823
2	Prasannakumar P K	EC					448
3	Baby John	Office	STTP	Mastering time management and developing Inter personal relationship	26-28 Sept'13	College of Engineering Karunagappally	273
4	Balachandran S	EC	Workshop	Personality development and Capacity building (non teaching staff)	30-31 Jan'14	ISTE – WPLP (Cochin)	21143
5	Baby John	Office					21143
6	Joseph Chandy	CS	STTP	Open Source Software for Research	11-13 March, 2014	RIT Kottayam	
7	Joseph Chandy	CS	STTP	Cyber Security	25-29 March, 2014	RIT Kottayam	
8	Saritha M S	Library	STTP		30 May-1 June 2014		

4. Activities under IIIC – Expert Lectures (completed)

Sl No	Particulars	Activity	Department	Coordinator(s)/ Participant(s)	Dates	No of Days	Expenditure
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1	Expert Lecture [Industrial gas turbines - by Mr. Rajith , DGM (Gas Turbine division), and Mr. Ramesh , Manager (Maintenance) of RGCCP,NTPC Kayamkulam - S5 ME]	Industry Institute Linkage	ME	Anver Sadath A	3-Jul-13	1	10453
2	Expert Lecture [Gearing up for placements - by Ms.Anushree , Software Engineer, CTS Coimbatore and Mr. Vivek ,Software Engineer CTS Cochin]	Industry Institute Linkage	Placement Cell	Anver Sadath A	13-Jul-13	1	10392
3	An expert lecture on “ Communication for fresh graduates ” – delivered by Mr. Kannan, JTO, BSNL, Trivandrum	Industry Institute Linkage	EC	Vibesh V Panicker	August 13	1	10000
4	An expert lecture on “ Job prospects in Public Sector undertakings (like SAIL) delivered by Mr George Varkey, SAIL	Industry Institute Linkage	ME	Anver Sadath A	December 13	1	12000
5	An expert lecture on “ Server Administration and Virtualization ”	Industry Institute Linkage	CS	Syama S R	25 February 2014	1	

Annexure – 6

DETAILS OF REMEDIAL CLASSES 2013 -2014

Branch	Semester	Subjects (scheme)	Category list of students who have attended the classes					Total no. of students attended	No. of Hours engaged
			SC	ST	OB C	OE C	General		
Computer Science & Engg.	VII	CS 703 : Advanced computer Networking(2006)	----	---- -	2	----	5	7	5
	V	CS 502 :System Programming(2006)	2	---- -	6	----- -	9	17	6
	V	CS 505 : Database Management (2006)	----	---- -	4	----	5	9	4
	IV	CS 1404: Automata languages and computation (2012)	3	---- -	6	----	11	20	9
Electrical & Electronics Engg.	V	EE 503 : Field theory (2006)	---- -	---	4	----	8	12	6
	IV	EE 403 : Electrical Machines (2006)	1	----	2	----	12	15	10
	I & II	EE 1104 : Engineering Mechanics(2012)	3	----	12	1	14	30	10
Electronics & Communication Engg.	III	EC 1303 : Network Theory (2012)	----	---- -	1	----	13	14	9
	I&II	EC 1104 : Engineering Mechanics(2012) (A-batch)	1	----	6	----	15	22	5

Mechanical Engg.	IV	ME 1403: Mechatronics (2012)(A-Batch)	1	----	12	-----	31	44	5
	IV	ME 1403: Mechatronics (2012)(B-Batch)	---	----	5	-----	26	31	5
	III	ME 1303: Mechanics of Solids (2012)	1	1	2	----	5	9	5
	I&II	ME 1104 : Engineering Mechanics(2012) (A-batch)	2	---	7	1	19	29	9
	I&II	ME 1104 : Engineering Mechanics (2012) (B-batch)	3	---- -	10	----	14	27	6
Total			17	1	79	2	187	286	

Annexure – 7

1. Newly added packages

1	TEQIP-II/KL/KL1G17 /172	Multifunction Process Calibrator	Shopping	350,000.00
2	TEQIP-II/KL/KL1G17 /170	Electronic Spring Testing Machine	Shopping	450,000.00
3	TEQIP-II /KL/KL1G17/ 169	Equipments for advanced electrical engineering lab	Shopping	218,000.00
4	TEQIP-II /KL/KL1G17/ 168	Special Induction Machines	Shopping	360,000.00
5	TEQIP-II /KL/KL1G17/ 167	DC Rectifier Unit	Shopping	200,000.00
6	TEQIP-II /KL/KL1G17/ 166	High Performance Machines with N-Vidia Quadro GPU	Direct Contract	565,425.00

7	TEQIP-II /KL/KL1G17/ 173	Laptop Computer	Direct Contract	861630
8	TEQIP-II /KL/KL1G17/ 174	ARM Trainer Kit	Shopping	42000
9	TEQIP-II /KL/KL1G17/ 175	Equipments for embedded systems lab	Shopping	40000

2. Modified packages

Package Name	Method	Revision Made
Conference Room Furnitures	Direct Contract (DGS&D)	Revised the quantity of items in the package as below 1. Godrej Conference table- 150 seat 2. Godrej Conference Chair-60 Total estimated cost-Rs. 967173
Partition works	Shopping	Estimated price revised to Rs 700000
Refurbishment works of laboratories, library, exam cell & HOD rooms	Shopping	Estimated price revised to Rs 1400000
False ceiling works	Shopping	Estimated price revised to Rs 500000

Annexure – 8

List of packages with actual cost more than 25% of the estimated cost

Sl. No	PMSS No & Name of the package	Estimated Cost	Actual Cost	Reason for the difference
1	TEQIP-II/KL/KL1G17/1 Diesel Generator	600000	757143	1. The estimated cost included only the equipment cost. The cost related with the accessories, the electrical installation was not

				considered in the estimated cost.
2	TEQIP-II/KL/KL1G17/14 Tool & Cutter Grinder	255622	399800	<ol style="list-style-type: none"> 1. The costs related with the standard accessories & attachments were not included in the estimated cost. 2. Increase in market price
4	TEQIP-II/KL/KL1G17/36 Hand Tools for Mechanical Workshop	88500	111271	<ol style="list-style-type: none"> 1. Increase in the market price.
5	TEQIP-II/KL/KL1G17/ 100 Electronic Weighing Machine	6202	34890	<ol style="list-style-type: none"> 1. The package comprised two weighing machine, one for office use and the other for laboratory use. The price of both type were wrongly estimated as the same. Actually, the laboratory type being highly precise, cost more compared to the machine for office use.
	TEQIP-II/KL/KL1G17/106 Elsevier e-journal package	357500	452498	<ol style="list-style-type: none"> 1. Hike in dollar conversion rate at the time of invitation of quotation.
	TEQIP-II/KL/KL1G17/111 Springer e-journal	88000	204470	<ol style="list-style-type: none"> 1. Price estimated was for Springer Mechanical Engg instead of Springer electrical

	package (Electrical)			2. Hike in dollar conversion rate at the time of invitation of quotation
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Annexure – 9

Item No. SSC – K 7- Other Item No. 2: Regarding enhancement of rate of remuneration of TEQIP II daily wages staff in Project institutions.

Considering the requests from several Project Institutions, the meeting decided that if necessary, BoGs of Project institutions may convert the one post of Clerk cum Junior Accountant and the other post of Data Entry Operator from daily wage basis to contract basis and may grant maximum of Rs. 15000/- as consolidated pay per month similar to that of the MIS Data Processing Assistant (vide G.O. (Rt.) No: 1159/2013/H.Edn dated 13.06.2013), on the condition that the minimum qualification and experience for both the posts shall be as stated below.

The Meeting also decided to convert the one post of Data Processing Assistant in SPFU Kerala from daily wage basis to contract basis (as per G.O. G.O(Ms) No 171/2003/H.Edn dated, 17.12.2003) on similar terms and conditions which also shall be as stated below.

Name of Post	Qualification and experience	Consolidated pay (Rs. Per month)
Data Entry Operator/Data Processing Assistant	Diploma in Computer Science/Engineering/Commercial Practice, or equivalent, with experience in Externally Aided Projects	15000/-
Clerk cum Junior Accountant	B.Com with Computer Application as a subject of study or B.Com and DCA awarded by LBS Centre for Science and Technology/C-DIT, or equivalent, with experience in Externally Aided Projects	15000/-

{Action: SPFU Kerala & Project institutions}

Annexure 10

TempusFugit

TempusFugit is an educational startup incubated at Startup Village Kochi. The company is led by a vibrant team of engineering graduates from College of Engineering Adoor. TempusFugit currently operates in domains of Education, Social Media, and Smartphone application. The company is also planning to enter electronics domain through innovative products from our R&D team.

DOMAINS

Social Network

The signature product of the company is 'CloudCampus', an educational social network that would redefine learning. CloudCampus is designed to connect students, faculty, colleges, alumni, mentors and corporates using the power of social learning. Our aim is to build a discussion oriented learning space for all.

Education

TempusFugit also offers a unique session called 'Newton's Lab' for innovative engineering students to bring up ideas and discover the entrepreneur within.

Smartphone application

We also develop and deploy smartphone applications on multiple mobile platform. The company is focusing on developing apps aiming utility and productivity.

OUR STORY

We, the team of TempusFugit consist of 5 Engineering graduates who came together during college days. The team started by building robots during the first year of Engineering. The key inspiration for starting a company began from setting up a Workspace Club at college. The Workspace club was a platform for students to bring up creative, technical and social ideas and turn them to reality. The overwhelming response from the students made us think about spreading the concept in other colleges as well. Soon the team took its Newton's lab session to nearby colleges where we got very inspiring response.

It took no time for the team to approach StartupVillage with a startup idea for incubation. The real turning point in our story was the meetup with K.C .Chandrasekharan Nair ,CFO techno park Trivandrum. The team got inspiring support from Technopark TBI and college authorities for the journey forward.

The company is now incubated at Startup Village Kochi and has occupied space in Technolodge , Piravom, Ernakulam.