TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE II

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

3rd MEETING OF THE BOARD OF GOVERNORS
22/02/2014, 11:00 AM

Venue : Conference Hall, College of Engineering Adoor

AGENDA NOTE

COLLEGE OF ENGINEERING ADOOR
Manakkala PO, Adoor
PIN : 691551

Agenda at a glance

I. A. Procurement Status

Sl No	Particulars	Amount
1	Payment made	1,47,66,013
2	Goods received (payment not made)	67,98,422
3	Purchase order sent and finalized	1,10,91,850
4	Package in progress	1,42,67,484
5	Package to be initiated	30,76,231
6	Civil works (to be initiated)	50,00,000

I. B. Faculty and Staff Development

Sl No	Activity	No of programs / No of personnel trained	No of programs / No of personnel trained since last BoG meeting	Total No of days/man days	Expenditure (Rs)
1	In-house training programs in subject domain	16	7	40	5,86,915
2	External Training – Faculty	15	8	71 (man days)	68,804
3	External Training – Non-teaching staff	5	2	19 (man days)	43,830

I. 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 22/2/2014 (in Rs)   -   **8,12,000/-**

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

I. D.   Industry Institute Interaction

Sl No	Activity	Status as on 22/2/2014	Expenditure (Rs)
1	MoU with Industry	Executed MoU with **10** firms.	-
2	Expert talks from Industry	**4** expert talks conducted	**45,116**
3	Industrial Visits	**4** IVs conducted	

I. E. Management Capacity Development

- No of faculty who had undergone management training - 2

- Total expenditure under this head - 1,01,782

I. F. Student Support (Bridge/Remedial Classes/Finishing School)

1. A diagnostic test was conducted for the first year students of all the branches on 21/8/2013. After evaluating the answer scripts, the students needing support were identified.

2. **Remedial Classes** were conducted for the following courses.

   Network Theory – S3 EC – **9 hrs**

   Mechanics of Solids – SE ME – **7 hrs**

   Vibration and Noise Control – S7ME – **7 hrs**

   System Programming – S5 CS – **6 hrs**

   DBMS – S5 CS – **4 hrs**

   Advanced Computer Networks – S7 CS – **5hrs**

   Engineering Mechanics – First Year students – **50 hrs** (ongoing; 8hrs in each of the 6 First year batches)

   Engineering Mathematics I – First year students – **6 hrs** (ongoing; 3hrs each for two batches)

3. **Bridge Classes** - The entire batch of first year students were given 3 hours of bridge classes in English (6 batches) and first year students who had chosen biology in their +2 course were given 6 hours of bridge classes in fundamentals of computer Programming (3 batches). Follow up classes in English and Computer Programming and English are planned for November and December.

4. **Finishing School** - The entire batch of final year students (240) were given 5 day training in quantitative, verbal aptitude, reasoning, Group discussion and Personal Interviews aimed at equipping them to face placement drives with confidence. The training was well received and the results were impressive (in comparison to last year) – **Already received 39 offers [12 from US Technology, and 27 from Infosys] as compared to only 6 last year.**

5. The total expenditure under this head till date is **Rs 83,701**/-

I. G. Institutional Reforms

1. Initiated the accreditation process at the college.

2. Online registration completed.

3. Self Assessment Report (SAR) is being prepared.

4. The expenditure under this head is **Rs 1,12,360**/-

Expenditure Summary

Sl No	Expenditure Head	Expenditure
1	Procurement	1,47,66,013
2	Teaching Assistantships	8,12,000
3	Capacity Development	1,46,368
4	Faculty and Staff Development	6,25,897
5	Industry Institute Interaction	45,116
6	Institutional Reforms	1,12,360
7	Student Support	83,701
8	Incremental Operating Cost	14,40,124
	Total	**1,80,31,579**

II. Purchase Sanction for the NCB Package TEQIP-II/KL/KL1G17/31 Desktop Computers

The purchase sanction is requested for the procurement of the package Desktop computers (TEQIP-II/KL/KL1G17/31) under National Competitive Bidding. The Institutional procurement committee has made recommendation of the award of contract for the NCB Package to M/S. Technoline Systems and Services, Cochin (L1) for a total contract amount of **Rs 73 71512 (Rupees Seventy Three Lakhs Seventy One Thousand Five Hundred and Twelve only).**

III. Ratification of the NOC given by the Principal for the award of contract procurement packages under shopping.

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 BoG is requested in this case. The package details are given in the annexure: I

IV. Ratification for the approval given by the Principal for all revisions made till date in the Institutional Procurement Plan

The institutional procurement plan is revised with inclusion of new packages and modifications of the existing packages. The list of newly added packages, packages with major modifications are in given in the annexure II. The ratification by BoG s requested for the revisions made till date in the Institutional Procurement plan.

IV. Research and Development

Seed Money Scheme for initiating research

The following suggestions are presented before the Board of Governors for its perusal and necessary action.

1. The scheme is intended as an initiative to cultivate a research culture in the college and to motivate the faculty to get involved in research, which in turn would improve the quality of teaching-learning process.
2. The proposals for initiating research shall be screened by a Research Advisory Committee (RAC), under the chairmanship of the Senior Research Advisor (SRA).
3. The RAC shall include as its members, the TEQIP head (Principal), and independent subject expects from reputed institutes and research organizations representing all major streams of Engineering.
4. The authority to decide the amount to be allotted to specific projects shall be vested in the RAC, subject to a maximum amount of Rs 2 lakhs per proposal.
5. The Principal Investigators shall make a detailed presentation before the RAC, clearly citing the intended outcomes of the research.
6. The duration of the project shall not exceed 1 year.
7. Seed money shall be used to meet travel expenses, boarding and lodging, and sundry expenses / allowances of investigators as per applicable norms and rules.
8. Seed money shall be used to pay fees charged for availing research facilities (other than at the parent institution)
9. Seed money shall be used for buying consumables necessary for doing research.
10. Seed money shall also be used to meet expenditure incurred in publishing research findings in journals and conferences.
11. The investigator should submit at least one proposal to funding agencies like AICTE, DST etc. based on the research carried out
12. The other outcomes of the project shall be publication of research papers and application for patents.

V. Technology Incubator (Innovation Lab)

1. The Innovation Lab would provide ample opportunities for innovative ideas to flourish and offers the perfect platform for innovative thinkers among students to turn their ideas into products/services.
2. A team of not more than 5 students cutting across semesters and branches can apply to the Innovation Lab on a prescribed format.
3. The project proposals shall be scrutinized by an expert committee comprising of experts from Academia//Industry and successful entrepreneurs in addition to the TEQIP head and IIIC Coordinator.
4. Once an idea is found worthy, as per the recommendations of the expert committee, the lab would provide the required assistance to realize that idea, **which shall include seed money** to initiate product development, opportunities to interact with experts in the respective domain, look for financial assistance from government agencies.
5. The authority to decide the amount to be allotted to specific projects shall be vested in the expert committee, subject to a maximum amount of Rs 50,000 per proposal.
6. Seed money shall be used to meet travel expenses, boarding and lodging, buying consumables, if any, and sundry expenses

VI.   Any other matter with the permission of the chair

Annexure-I

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

Sl No	Package No. & Name
1	TEQIP-II/KL/KL1G17/1Diesel Generator
2	TEQIP-II/KL/KL1G17/5 Rotational Viscometer
3	TEQIP-II/KL/KL1G17/11 Surface Roughness Tester
4	TEQIP-II/KL/KL1G17/13 Vernier Caliper with fine Adjustment
5	TEQIP-II/KL/KL1G17/14 Tool and Cutter Grinder
6	TEQIP-II/KL/KL1G17/22 Spring Testing Machine
7	TEQIP-II/KL/KL1G17/29 Measurement Gadgets for FM & HM lab
8	TEQIP-II/KL/KL1G17/36 Hand Tools for Mechanical Workshop
9	TEQIP-II/KL/KL1G17/ 100 Electronic Weighing Machine
10	TEQIP-II/KL/KL1G17/106 Elsevier e-journal package
11	TEQIP-II/KL/KL1G17/111 Springer e-journal package

Annexure-II

Newly Added Packages

Sl. No	PMSS No.	Package Name	Estimated Price	Method of Procurement
1	TEQIP-II/KL/KL1G17/165	Conference Room Furniture	1,67,300	Direct Contract-DGS&D
2	TEQIP-II /KL/KL1G17/164	Drawing Stool	120000	Shopping
3	TEQIP-II /KL/KL1G17/162	ID Card Printer	90000	Shopping
4	TEQIP-II /KL/KL1G17/161	Programmable Power Supply	125334	Direct Contract-DGS&D
5	TEQIP-II /KL/KL1G17/160	PCB Fabrication Facility	138670	Shopping
6	TEQIP-II /KL/KL1G17/159	Online UPS Phase-II	125875	Direct Contract-DGS&D
7	TEQIP-II /KL/KL1G17/158	ULTRA SHORT THROW DEVICES	100000	Shopping
8	TEQIP-II /KL/KL1G17/156	Special Induction Machines	315800	Shopping
9	TEQIP-II /KL/KL1G17/155	IEEE Journal Package	370500	Direct Contract
10	TEQIP-II /KL/KL1G17/154	Emergency & Search Lights	10000	Direct Contract
11	TEQIP-II /KL/KL1G17/153	ASME E-journal Package	158210	Direct Contract
12	TEQIP-II /KL/KL1G17/152	MCGRAW- HILL'S ACCESS ENGINEERING	141050	Direct Contract
13	TEQIP-II /KL/KL1G17/151	FPGA Development Boards With Xilinx ISE	200000	Shopping
14	TEQIP-II /KL/KL1G17/150	PC Based Oscilloscope	95000	Shopping
15	TEQIP-II /KL/KL1G17/149	Training Room Chairs	420000	Shopping
16	TEQIP-II /KL/KL1G17/148	Multistation Fitness Equipment	260000	Shopping
17	TEQIP-II /KL/KL1G17/146	Video Surveillance for Main Library	50000	Shopping
18	TEQIP-II /KL/KL1G17/145	Workstations	945000	Direct Contract-DGS&D
19	TEQIP-II /KL/KL1G17/143	Vapour Absorption Refrigeration Test Setup	125000	Shopping
20	TEQIP-II /KL/KL1G17/142	Peristaltic Pump	75000	Shopping
21	TEQIP-II	Handheld Oscilloscope	199500	Shopping

	/KL/KL1G17/141			
22	TEQIP-II /KL/KL1G17/140	Video Conferencing System	594893	Shopping

Modified Packages

Sl. No	PMSS No.	Package Name	Changes Made
1	TEQIP-II /KL/KL1G17/41	Thermal Imager-IR Camera	Estimated price changed to Rs. 750000
2	TEQIP-II /KL/KL1G17/75	Electrical Loads	Items & the quantity are revised
3	TEQIP-II /KL/KL1G17/47	Printer	Added a new item
4	TEQIP-II /KL/KL1G17/89	Digital Podium	Estimated Price changed to Rs. 140000
5	TEQIP-II /KL/KL1G17/98	Raspberry pi	Estimated cost changed to Rs. 300000
6	TEQIP-II /KL/KL1G17/140	Data Acquisition system	Estimated cost changed to Rs. 350000
7	TEQIP-II /KL/KL1G17/62	Induction Motors	A few Items in the package are deleted

Annexure III

Table FSD1 : In-house training in Subject Domain

Sl 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	44467
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	94276
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 Gopal	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 – 29 Nov 2013	5	100000
13	FDP [Recent Trends in Electromagnetics]	In-house training in Subject Domain	EC	Bini B, Girija M G	4 – 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 – 31 Jan 2014	3	100000 (approx)
16	Workshop [ORCAD & PSPICE]	In-house training in Subject Domain	EC & EE	Bini B and Ajith	30 Jan 2014	1	10000 (approx)

Table FSD2: External training (Faculty)

Sl No	Name of the faculty	Department	Nature of the program	Training Program	Date	Organizing Institute/organization	Expenditure
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 2013	LBS Institute of Technology TVPM	3013
14	Anver Sadath A	ME	STTP	Advanced Computational Fluid Dynamics	22 Dec – 24 Dec 2013	IIT Madras	20550
15	Sanchu S	ME	STTP	Cryogenic technology : Materials, Processes and Equipment	17 Feb – 21 Feb 2014	IIT Kharagpur	-

Table FSD3: External Training (Non-teaching staff)

Sl No	Name of the faculty	Department	Nature of the program	Training Program	Date	Organizing Institute/organization	Expenditure (Rs)
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

Table MCD – Management Capacity Enhancement

Sl No	Name of the faculty	Department	Nature of the program	Training Program	Date	Organizing Institute/organization	Amount(Rs.)
1	Madhu A K	ME	Workshop	Timeless Leadership	27-29 Nov'13	Indian Institute of Management, Kozhikode	50783
2	Manu M John	ME	Workshop	Leadership Clinic	13-15 Feb'14	Indian Institute of Management, Kozhikode	50999

Table IIIC 1 – Expert Talks

Sl No	Particulars	Activity	Department	Coordinator(s)/ Participant(s)	Dates	No of Days	Expenditure (Rs)
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	16590