

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME

Phase II

Sub Component 1.1



**13th MEETING OF
THE BOARD OF GOVERNORS
DETAILED AGENDA NOTES**

Date: 6th December 2016

Time: 10.30 AM

Venue: Seminar Hall

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

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Background

The meeting of Board of Governors is convened to monitor the progress of TEQIP-II activities at CE Cherthala, under Sub component 1.1, with emphasis to procurement and academic activities, and to accord necessary approvals and clearances for the ongoing activities. The 13th meeting of the BOG is being convened on 6th December 2016.

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PART 1

Procedural Items

Silent Prayer

1.1 Confirmation of the Minutes of the 12th Meeting of the Board of Governors of CE Cherthala held on 04-10-2016

The Minutes of the 12th Meeting of Board of Governors of TEQIP Phase II of CE Cherthala held on 04-10-2016 was circulated among the BOG members and after incorporating their suggestions, sent to the Hon'ble Chairman for his approval. A copy of the Minutes is appended as **Annexure 1** for confirmation.

Action sought: BOG may consider and confirm the Minutes of the 12th meeting.

1.2 Action Taken Report on the pertinent decisions in the Minutes of the 12th Meeting of the Board of Governors of CE Cherthala held on 04-10-2016

The decisions taken by the Board as recorded in the Minutes of the 12th Meeting of the Board of Governors of CE Cherthala held on 04-10-2016 have been noted and actions have been initiated. A report on the action taken and actions pending is presented in the Table given below.

Table 1.2

Item No in Minutes of the 12 th BOG	Decision Taken	Action Taken / current status	Reason for Non Compliance
1.1	The BOG confirmed the approved minutes of the 12 th Meeting	For information	NA
1.2	Took note of the ATR and approved.	For information	NA
2.1	The BOG took note of the procurement completed after the 11 th BOG meeting and ratified the expenditure made in this regard.	For information	N.A
2.2	The BOG took note of the packages initiated after the 11 th BOG and ratified.	Purchase procedures Completed for 3 items and item no.3 is cancelled	N.A
2.3	The BOG took note of the in house faculty development programmes conducted and ratified the expenditure made in this regard.	No action needed	N.A
2.4	The BOG took note of the outstation faculty and staff programmes attended and ratified	No action needed	NA

	the expenditure.		
2.5	The BoG noted and ratified the expenditure made for paper presentation	No action needed	NA
2.6	The BOG took note of the IIC programmes conducted and ratified the expenditure.	No action needed	NA
2.7	The BoG took note of the remedial and soft skill programmes conducted and ratified the expenditure.	No action needed	NA
	The BoG decided to include the details of resource persons for soft skill training in the report	Carried out	NA
	The BoG directed to report the impact of remedial teaching.	Carried out	NA
	The BoG took note of the HIT programmes and ratified the expenditure in this regard.	For information	NA
2.8	The BoG took note of the conferences and ratified the expenditure involved.	For information	NA
	BOG sanctioned the anticipated expenditure for publication.	Will be paid as and when required by IEEE	NA
	BOG suggested auditing of the expenditure for the conferences	Conducted	NA
2.9	The BoG ratified the expenditure made for professional society membership.	For information	NA
2.10	The BOG ratified the expenditure made for tuition fee reimbursement	For information	NA
2.11	The BOG has sanctioned for one year contract with ICT Academy.	Signed MoU with ICT Academy for one year from 30 th Sept 2016 to 29 th Sept 2017 paying Rs.69000/-	NA
	BOG suggested that the 3 year contract may be signed after getting clarification from SPFU.		As per PIP if contract amount exceeds 1 lakh, shall be done through PMSS

2.12	The BOG took note of the status and advised to proceed with accreditation of the 2 UG programs and to apply for accreditation for the PG programme in Computer Science.	Updating the eSAR is progressing	NA
2.13	The BOG took note of the faculty position and approved the changes made in the TEQIP coordinators.	For information	NA
3.1	The BOG approved the list of planned academic activities for the next four month and entrusted the Principal to ensure the quality of programmes and the same person shall not be sent for more than one programme of similar type.	For information	NA
3.2	Approved the proposal for academic activities in collaboration with IIT Gandhinagar subject to clarification from NPIU	Clarification obtained and participating in the activities.	NA
3.3	The BOG approved the HIT subject to the condition that the firm shall be able to provide enough number of training setups.	ToR modified accordingly and the procedures for HIT are progressing	

Action sought: BOG may consider the ATR for approval.

PART 2
REPORTS & RATIFICATIONS

2. PROCUREMENT ACTIVITIES

2.1 PROCUREMENT COMPLETED AFTER THE 12TH BOG MEETING.

The following packages in the procurement plan have been completed after the 12th BOG meeting.

Table 2.1

Sl. No	Package Name	Package Code	Firm	Budgeted Amount (Rs.)	Actual Amount (Rs.)	Difference (Rs.)	% Difference
1	Multiwood Storage Cabinet	TEQIP-II/KL/KL1 G19/164	Aiswarya Furnishers Alappuzha	76000	73,280	2,720.00	3.58
2	Sanitary Pad Burning Machine	TEQIP-II/KL/KL1G19/163	Max Care India Pvt Ltd Perumbavoor	74000	73600	400	0.54
3	Licensed Antivirus software	TEQIP-II/KL/KL1G19/151	M/s. ISYX Technologies India Pvt Ltd, Kakkannad, Cochin	30,000	21942	8,058.00	26.86
TOTAL				180000	168822		

Action sought: BOG may kindly take note and ratify the expenditure incurred.

2.2 PACKAGES CANCELLED

For the package TEQIP-II/KL/KL1G19/153 Solar Lightning System, three offers were received, on inviting tenders. But all the offers were more than 30% above the budgeted amount. Hence the package was cancelled.

Action sought: BOG may kindly take note and ratify the action taken.

2.3 IN-HOUSE FACULTY AND STAFF DEVELOPMENT PROGRAMMES CONDUCTED

One expert talk on research methodology by our BOG chairman Prof.(Dr.) Girijavallabhan and 3 FDPs were conducted post 12th BOG. Prof.(Dr.)Viswanadhan, Principal, College of Engineering, Kidangoor conducted a class for the faculty members on how to prepare for facing the NBA accreditation visit.

Table 2.3

Sl. No.	Title of the Programme	Dept	Duration & date	No. of participants			Coordinator	IRG in Rs/-	Expenditure (Rs)
				Own Institute	Others (IRG)	Total			
1	FDP on NBA Accreditation	CS	02.11.2016	50	0	50	Greeshma N Gopal		8170
Programmes conducted, but expenditure to be settled									
2	FDP on Mathematical Modelling	Applied Science	17.10.16 - 19.10.16	30	5	35	Radha Balakrishnan	2500	-
3	FDP on IOT	CS	26.10.16 - 28.10.16	35	2	37	Preetha Theresa Joy	1000	-
4	Expert Talk on Research Methodologies	CS	25.10.16	35	0	35	Preetha Theresa Joy		-

Faculty Development Program on **Mathematical Modeling** was conducted during 17th to 19th Oct 2016 by General Department, College of Engineering, Cherthala under TEQIP-II. Dr. Vinod Bhattathirippad, Dr. P. Muthu from NIT Warangal, Dr. Joydev Chatopadhaya, Dr. Minu K. K., Dr. Sundar S. from IIT Madras and Ms. Minimol B. from Model Engineering College, Thrikkakara were the resource personalities. The areas covered includes: Mathematical modelling in ecological system, mathematical modeling of engineering systems, mathematical modeling of biological systems, 3D- Cardiac modeling. The FDP opened up the possibilities and scope of research in mathematical Modelling related to a number of varied areas such as biological, ecological, engineering, networking etc. The participants got a great opportunity to associate with Professors from IIT Madras, NIT Warangal and Indian Statistical Institute, so that they could know

more about the current trends in the respective areas. In short the program was very fruitful and was recommended to be conducted in future too.

FDP on “**Internet of Things (IoT)**” was conducted by Department of Computer Science & Engineering, College of Engineering, Cherthala under TEQIP-II. It was a 3 days programme scheduled from 26th to 28th of October 2016. The first session deals with the Detection theory in wireless sensor networks by Chhagan Charan from NIT, Kurukshethra. Communication Protocol Stack for Internet of Things, Social network Analytics, NS2 Simulations, Energy and RF analysis in wireless sensor networks, Power management and research scopes in wireless sensor networks were the other sessions covered. Chhagan Charan from NIT, Kurukshethra ; Suresh Kumar .N From CEM, Punnappra; Prof. Jyothi John; Preetha K.G from RSET, Cochin; Dr. Nesa Sudha M Karunya University, Coimbatore; Dr. S. Swapna Kumar VAST, Trissur were the resource personalities. The participants suggest the practical session deals with the implementation of wireless sensor network as the most interesting one.

The faculty development program on **NBA accreditation** was held on 2nd of November 2016. The sessions was handled by Dr. K G Viswanadhan, Principal, College of Engineering, Kidangoor. The resource person was having immense experience in connection with NBA in coordinating the activity and he was also a member of inspection team. The talk was mainly based on outcome based learning. The faculties found it very helpful right from the beginning of stating mission and vision for the department as well as for the college. A total of 50 faculties from all departments attended the class. The class was very interactive.

2.4 OUTSTATION FACULTY AND STAFF DEVELOPMENT PROGRAMMES

Details of faculty attended out station training and expenditure involved are described below;

Table 2.4.1

Sl No.	Name	Designation	Department	Programme Title	Duration & Date	Expenditure (Rs.)
1	Mitty George	AP	CS	Pedagogy at teaching Learning Centre IIT Chennai	29.09.16-01.10.16	11179
2	Jagadeeshkumar P	AP	ME	„	29.09.16-01.10.16	9557
3	Vishnu V S	AP	CS	„	29.09.16-01.10.16	4360

4	Joyce Jose	AP	CS	Virtual Instrumentation for Engineers at CE Chengannur conducted by IHRD	05.09.16-09.09.16	38912
5	Josna Jose	AP	CS	„	„	38912
6	Laila D	AP	EC	„	„	38912
7	Jagadeeshkumar P	AP	EC	„	„	38912
8	Vishnu V S	AP	ME	„	„	38912
9	Mitty George	AP	EC	„	„	38912
10	Jibi John	AP	EC	Research Areas in Bio-Medical Engineering a conducted by IHRD at MEC	26.09.16-30.09.16	37620
11	Sumitha Mathew	AP	EC	„	„	35000
12	Anjana Devi	AP	EC	„	„	37620
13	Radha Balakrishnan	AP	Applied Science	„	„	37620
14	Muhammed Ilyas H	AP	CS	„	„	37620
15	Preetha Theresa Joy	AP	CS	„	„	37620
16	Sreekumar K	AP	EC	Mechatronics, Automation and Robotics at MEC conducted by IHRD	19.09.16-23.09.16	37592
17	Rajeevan A K	AP	EE	„	„	37592
18	Sandhya P Gopal	AP	ME	„	„	37592
19	Kannadas P K	AP	ME	„	„	37592
20	Anjali Suresh	AP	EC	Power systems, drives and control - Practical aspects at MEC EKM	03.10.16-07.10.16	37620
21	Meera E	AP	EE	„	„	37530
22	Jayadas C K	AP	EC	„	„	37620
23	Elizwa Laiju	AP	EE	„	„	37194
24	Mitty George	AP	EC			37620

25	Anitha M A	AP	CS	symposium on Data service and Machine learning at IIT Gandhinagar	24.10.16-25.10.16	21787
26	Janu R Panicker	AP	CS	”	”	21787
27	Greeshma N Gopal	AP	CS	”	”	21787
28	Muhammed Ilyas H	AP	CS	”	”	21787
Total						906768
Course attended, but expenditure not settled						
29	Tintu Sebastian	AP	EC	Research Simulation and Predictive Analysis using Open Source Tools at Ekm conducted by IHRD	14.11.16-18.11.16	
30	Aswathy S S	AP	EC	”	”	
31	Judy Ann Joy	AP	CS	”	”	
32	Jeena John	AP	CS	”	”	
33	Ashida Muhammed	AP	EE	”	”	
34	Sreekumar K	AP	EC	Big Data Analytics, Machine Learning and cloud computing at Ekm conducted by IHRD	21.11.16-25.11.16	
35	Jissy Raju	AP	CS	”	”	
36	Asha Thomas	AP	CS	”	”	
37	Preetha Theresa Joy	AP	CS	”	”	
38	Murali Mohan	AP	CS	”	”	
39	Renju R	AP	EC	Computer aided Drafting and Design at Ekm conducted by IHRD	28.11.16-02.12.16	
40	Deepika R	AP	EC	”	”	
41	Sooraj M Varghese	AP	EC	”	”	
42	Vasanthkumar S	AP	EC	”	”	
43	Sandhya P Gopal	AP	ME	”	”	
44	Sarakkutty K J	AP	GENERAL	Pedagogy, Accreditation, research and entrepreneurship at Port	22.11.16-23.11.16	

				Blair by ESCI		
45	Dr.Mini M G	Principal	EC	„	„	
46	Neeba George	AP	EC	Hands on training in Open Source Tools for kernal programming and administration	05.12.16 - 09.12.16	
47	Vishnu V. S	AP	ME	„	„	
48	Joyce Jose	AP	CS	„	„	
49	Josna Jose	AP	CS	„	„	
50	Manju K	AP	CS	„	„	
51	Jagadeesh Kumar P			National Faculty Development Programme in Entrepreneurship 2016 at Rajagiri School of Engineering & Technology (RSET), Ernakulam.	5 th -17 th Decemb er	
52	Muhammed Ilyas H	AP	CS	„	„	

Table 2.4.2

Staff development programmes					
Sl No.	Name	Designation	Programme Title	Duration & Date	Expenditure (Rs.)
1	Sundaresan V L	Foreman ME	Training Programme on Academic Leadership and Professional Excellence	17.10.16-21.10.16	2094
2	Ancy Paul	Librarian	Skill development Programme at ESCI, Hyderabad	28.09.16-30.09.16	41827
3	Raji R Nair	Librarian	„	„	40389
4	Smitha U	Administrative Staff	„	„	40389
5	Rejilakumari R	Administrative Staff	„	„	40389
6	Ajithakumari P	Technical Staff EC	Lab Management and Maintanance Programme at ESCI, Hyderabad	29.09.16-01.10.16	44772
7	Sundaresan V L	Technical Staff ME	„	„	44772

8	George C Karamel	Technical Staff EC	„	„	44772
Total					299404
9	Rajesh C.D	Administrative Staff	Automated Accounting using tally, ERP 9.0 Solution at CE,Chengannur by IHRD	04.10.16- 06.10.16	To be settled
10	Asha Madhavan S	Administrative Staff	„	„	„
11	Samson P.J	Administrative Staff	„	„	„
12	Madhusudanakurup S.P	Administrative Staff	„	„	„
13	Dhanya Dharmajan	System Analyst	„	„	„
14	Sundaresan V L	Foreman ME	Computer aided geometric modelling at Trichur	28.11.16- 02.12.16	„

Report on the Programmes

Pedagogy Three faculty members have attended the Pedagogy training at Teaching and Learning Centre, IIT Madras from 29th september to 1st october 2016. The various sessions in the three day training program were Learning Outcomes, Active Cooperative Learning, Learner Centered Approach and Assessment methods. The course was handled by eminent faculty members from IIT Madras and was designed to provide SKILL to the faculty for helping the students to improve their learning ability and was mainly focused on activity based rather than lectures.

The Faculty Development Program on Virtual Instrumentation for Engineers was from 5th to 9th September 2016 at College Of Engineering Chengannur. The very useful sessions which covered basics of instrumentation and virtual instrumentation, Design modelling analysis and health monitoring of sandwich structures, DIP Techniques used in VI, sensors and instrumentation and LABVIEW programming environment were handled by Dr. Pradeep K .R Operational and launch vehicle team,VSSC Thiruvananthapuram, Dr.S .Esakkirajan ,Associate Professor, PSG College of Technology,Tamil Nadu, Dr.Anoop C.S,Associate Proffessor , IIST , Thiruvananthapuram, Dr.Sethunath R,Head ,BBTS/SR,VSSC, Thiruvananthapuram, Mr. Jiyo Mathew & Mr.Rahul Nath,Field Application Engineers,Trident Techlabs Pvt Ltd,Chennai.

The objective of the FDP on **Research areas in Biomedical Engineering** to provide insight into the active research areas in Bio-Medical Engg and it was highly fruitful for all reasearch minds.. It consisted of sessions on Signal Processing of Electrophysiological Signals by Dr.Suresh

Devasahayam, Professor and Head, Bio Engineering Division CMC Vellore ,SEMG Signal Processing by Dr G Venugopal, Associate Prof in NSS College of Engg, Palakkad , Uncertainty Analysis of Biosignals by Dr Jayacjandran E S, Prof, College of Engg, Adoor , Biophotonics by Dr. N Sujatha, Associate Professor, Biomedical Division, Applied Mechanics Dept. IIT Madras inverse Problems in Medical imaging by Mamatha Venugopal, Research Associate, Optical Tomography Lab, Dept of Instrumentation and Applied Physics, IISc Bangalore , Mathematics of differential equations and model based estimation in Biomedical engineering by Midhun P Unni, TCS Bangalore , Understanding behavior from neural activity- a computational perspective by Alekhya Mandali, Post Doctoral Research Associate , Division of Biological Sciences, IISc Bangalore, Neuronal Modeling by Sanjay M, Assistant Professor at Model Engineering College , Research Avenues in Ultrasonic Imaging-Ultrasonic Elastography by Dr. Arun K. Thittai, Assistant Professor, Dept of Applied Mechanics. (Biomedical Group). IIT Madras, a discussion on Computational Cardiology-Simple Whole heart models by Minimol.B, Associate Professor, Model Engineering College , Role of Autonomic Nervous System in HRV-A Computational Analysis by Sajitha S, Research Scholar , Model Engineering College, Research opportunities in the field of Medical imaging by Dr. Kesavadas, Professor, Imaging Sciences and Intervention Radiology Dept. SCTIMST, Trivandrum Optical Neuro-Imaging: A new research Niche by Arun K M, Research Scholar, Imaging Sciences and Intervention Radiology Dept. SCTIMST, Trivandrum. Electrical Impedance Tomography by Anitha Alex, Biomedical Division, Applied Mechanics Dept at IIT Madras and Wearable therapeutic ultrasound applicators for wound healing and non-invasive drug delivery by Dr. Youhan Sunny from Drexel University, Philadelphia .

The **FDP on Mechatronics, Automation and Robotics** at MEC conducted by IHRD had been designed to provide SKILL to the students/faculty/industry engineers on mechatronics, automation and robotics. Speakers from Industry, IITs, NITs and other institution were drawn for the course. At the end of the course every participants could learn the theory and applications of mechatronics. The main topics covered in the course were Introduction and application of mechatronics , various aspects of industrial automation ,NX Programming ,System modeling and design ,Robotics concept and application, Introduction to embedded system ,Scilab , Reliability in design.

The programme ‘Power System, Drives & Control: Practical Aspects’ emphasized on various concepts of power system, power electronic drives and emerging technologies in this field. Field visits to various power stations were conducted. The programme was for 5 days, from 3rd October 2016 to 7th October 2016. First day, 3rd October 2016. Mrs Sucy Joseph, Scientist G, Associate

Project Director, DRDO, Hyderabad, Dr. Rajeevan P.P., Asst.Professor, IIST ,Trivandrum and Dr. Rijil Ramchand, Associate Professor, NIT Calicut were the resource personalities. The key highlight in the course were a field visit was organized to Brahmapuram Diesel Power Plant, Kalamassery Load Dispatch center and 12MW solar power plant at CIAL, Nedumbassery, which had given more insight to practical aspects.

The symposium at IIT Gandhinagar on Data Science and Machine Learning (on 24th and 25th october 2016) was well organized with lecture sessions, presentations and discussion. Dr. Bireswar Das, CS department IITGN, Anirban Dasgupta, Faculty, Cs Dept., IITGN, Dr. Suresh Shivada, Professor IISc Bangalore, Dr. Dinesh Garg, Faculty, Cs, IITGN were the eminent resource personalities. Along with the topics Spectral Graph Clustering, Randomized Numerical linear algebra, Graph Label Propagation the session also included the presentation of research findings by the faculties from various institutions and their work with the students, which was very informative.

Empowering to Lead- Skill Enhancement Programme for Non-Teaching, Administrative staff and Technicians was conducted by Engineering Staff College of India,Hyderabad on 28.09.2016 to 30.09.2016. Personality Development, Interpersonal Skill Development and stress management were the key sessions. Dr.A P Natarajan, Mr.G P Saisandhan, Dr.T Radhakrishnan and Mr. M K Gandhi handled the sessions which was very informative and motivating one for participants.

ESCI, Hyderabad conducted a three day workshop on lab management and maintenance for lab technicians from 29/09/2016 to 01/10/2016. 'Personality Development, communication & presentation skills and team building skills' by Dr. A P Natarajan, 'Identifying and controlling the common hazards, i.e., safety management in workshops and laboratories' by Mr. G P Sai Sanathan, 'Management Techniques' by Dr. T Radhakrishna, 'Interpersonal Skill Development, letter drafting skills and victory circle' by Mr. Mohan Kumar Gandhi were the interesting sessions. The course was very useful for the participants which helped each and every one to boost the self-esteem, knowledge and skills.

Action Sought: The BOG may kindly note and ratify the expenditure made.

2.5 CONFERENCES ATTENDED/PAPERS PRESENTED

Ms.Manju K, Assistant Professor in Computer Science presented a paper titled “An Extractive Multi-document Summarization System for Malayalam News Documents ” at EAI International

Conference on Computer Science and Engineering COMPSE2016 at Penang, Malaysia conducted on November 11-12, 2016. Her presentation was in a plenary session and her request for financial assistance under ITSS is being forwarded to NPIU through SPFU

Mr.Murali Mohanan , Asso.Prof. in Computer Science has submitted a request for travel support under the International Travel Support Scheme for presentation of the paper “Automated Transformation of NL to OCL constraints via SBVR” which has been accepted for publication and Oral presentation in the 2ND International conference on Inventive Research in Emerging Technology(ICIRET2017) on 30-31 Jan 2017 at Bangkok Thailand. The approximate cost for the program is Rs. 110000/-

Action Sought: The BOG may kindly note.

2.6 IIIC PROGRAMMES CONDUCTED

Three Workshops were conducted under IIIC for the students post the 12th BOG, the details of which are given below;

Table 2.6

Sl. No.	Details of the Programme	Coordinator	Duration	No.of participants	Expenditure
1	Workshop on Internet Of Things- Architecture and Applications- S7 EC & S5 EC students	Jagadeesh kumar P	28/09/16-29/09/16	104	19929
2	Industrial Visit- Neriamangalam Power House- S 5 EEE	Elizwa Laiju	06/09/16	55	16600
3	Workshop on Simulation of RES using MATLAB to S7 EEE	Elizwa Laiju	24/08/16-26/08/16	40	33739
4	Workshop on Internet Communication and Collaboration & Game	Jayadas C K	01/11/16	35	7695
	TOTAL EXPENDITURE				77963

Report on the programmes:

Workshop on Internet Of Things- Architecture and Applications-was conducted for 7TH sem EC students and 5th Sem EC students(1 day each). for providing an understanding of Embedded programming and basics of IOT . The expert person Mr.Jayakrishnan Divakaran ,Ex-R&D Director

of Tech Mahindra and the co-founder /Principal Architect @Kinnovates , a social venture in ICT with operations in Kerala and Karnataka , has explained about how IOT is comprised of smart machines interacting and communicating with other machines, objects , environments and infrastructures. The students were really impressed by the expert and the way he dealt the sessions. The program was rated as excellent as they could find the importance of the session in their upcoming semester and for their project work.

Industrial Visit- Neriamangalam Power House. During this industrial visit, the students were able to witness different instruments and turbines which were used in industry ,rather than having a theoretical knowledge on this topic a real live experience helped them in understanding the concepts of generation to its core

Workshop on Simulation of RES using MATLAB to S7 EEE: This workshop aims for the students to have a thorough knowledge in matlab simulation of renewable energy systems. The entire sessions were practical based and the students have done simple problems using simulating softwares and tool kits provided by the experts and simulation were done on solar power systems and wind power systems. The expert persons were Kumarasamy R, Senthil Kumar M R , Sreenivas N from Pantech Proed Cochin and Pantech Solutions Chennai.

Action Sought: The BOG may kindly note and ratify the expenditure made.

2.7 PROGRAMMES CONDUCTED UNDER EAP

2.7.1 Remedial Classes

Sl No.	Subject	Handled by	Batch	No of students	No.of Hours&Dates	Expenditure
1	Calculus	Gireesh Chandra	I Sem EC/CS/E E	70	24Hrs , 1/10/16, 2/10/16, 9/10/16 & 11/10/16	17520
2	Engg Mathematics IV	Gireesh Chandra	S5 EC/CS/E E	120	36Hrs, 22/10/16, 23/10/16, 29/10/16,30/10/16,31/10/16 , 1/11/16	23745
Total						41265
3	EC 205 Electronic Circuits	Ajay Nath	S3 EC	15	6Hrs 6/11/16	To be settled
4	EC 201 Network Theory	Anju Thomas	S3 EC	15	6Hrs 26/11/16	To be settled
5	EC207 Logic	Tossy	S3 EC	52	12 Hrs 12/11/16, 20/11/16	To be

	Circuit Design	Thomas				settled
6	CS203 Switching Theory	Tossy Thomas	S3 CS	23	21Hrs 5/11/16, 13/11/16, 26/11/16 & 27/11/16	To be settled
7	CS201 Discrete Computational Structures	Jumana Nahas	S3 CS	38	12Hrs 19/11/16 & 20/11/16	To be settled
8	CS207 Electronic Devices & Circuits	Arun A V	S3 CS	23	15Hrs 5/11/16, 12/11/16,27/11/16	To be settled
9	EEE201 Circuits & Networks	T P Vishnu& Nivin Thomas	S3 EEE	26	21Hrs 12/11/16, 19/11/16, 20/11/16A.N. & 26/11/16	To be settled
10	EEE207 Computer Programming	Remya Krishnan P	S3 EEE	33	9Hrs 13/11/16, 20/11/16F.N. &26/11/16	To be settled
11	MA201 Linear Algebra & Complex Analysis	Anakha	S3 EC/EEE/CS	17	6 Hrs 29/11/16	To be settled
12	Calculus	Gireesh Chandra	I Sem EC/CS/E E	83	12Hrs 26/11/16, 27/11/16	To be settled
13	BE100 Mechanics	Devanand	I Sem EEE/CS	51	12 Hrs 19/11/16,20/11/16	To be settled
14	BE110 Graphics	Jimmy	I Sem EC	49	12 Hrs 12/11/16, 13/11/16	To be settled

Brief Report on Remedial Classes

Arrangement.

Students who need support through remedial classes are identified through continuous evaluation as well as after the internal exams. But it is generally observed that except the I semester students, others are reluctant to come on Saturdays/ Sundays for the classes unless these are arranged close to the University exams. Hence it so happens that there is a busy schedule of remedial classes towards the semester ending. Students are asked to give their requirement in detail regarding the topics to be covered in remedial classes. Teachers from other Colleges who are known to be efficient in teaching the subject both from the exam point of view as well as form the fundamental level are invited to take these topics. Some topics are taken by teachers from our college but those who are not taking the class for these students. Some subjects are taught through collaborative learning,

some through problem solving and the rest through lecture method. Teachers also give hand out of important notes to the students.

Effectiveness.

There is remarkable improvement in the performance of students who sincerely attend the remedial classes. This arrangement is also a great help for those weak students who cannot afford the expense of extra tuition classes. There is positive feedback from the students regarding the effectiveness of these classes. As far as Mathematics is concerned, the real challenge is in laying the foundation of calculus, as it is found that generally many who join for B.Tech do not have proper learning of the subject in their Higher Secondary level. Through bridge course this deficiency is addressed to some extent but it is difficult to make up for many of them.

2.7.2 Soft Skill and other Training programs to students

Table2.7.2

S1 No	Title of the programme	Coordinator	Batch	No of Students	Date	Expenditure
1	AMCAT model test preparation	Greeshma N Gopal	S7 CS & EEE	60	04.10.16-07.10.16	17,710
2	AMCAT model test preparation	Greeshma N Gopal	S7 ECS	60	04.10.16-07.10.16	17,710
3	Effective Communication	Radha Balakrishnan	S1 EC,CS,EEE	169	29/9/16, 4/10/16, 5/10/16	23,202
4	Placement Training by ICT Academy	Greeshma N Gopal	S7	75	13/10/16-15/10/16	65448
Total						124070
5	PHP Programming	Greeshma N Gopal	S5 & S7 CS	50	22/10/16-29/10/16	To be settled
6	Training on Advanced C Programming	Elizwa Laiju	S3 EEE	42	22/10/16 - 24/10/16	To be settled

2.7.3. HIT programmes

The high intensity training program on Linux Server Administration by Clado Solutions, was successfully completed on 01/10/16 (45 days) and paid Rs. 702810/ as the 75% of the contracted amount.

TABLE 2.7.3

Programme	Coordinator	Starting date & duration	No of participants	Contract amount	Expenditure made
HIT on Linux Server Administration by Clado Solutions, Cochin	Janu R Panicker	30/08/16 – 01/10/16	36	937080	7,02,810 (75%)

Action Sought:

The BOG may kindly note and ratify the expenditure made under EAP.

2.8 AUDIT REPORTS

The internal audit of the institution for the period 01/04/16 to 30/09/16 was conducted during 24th to 26th of November 2016

Action Sought:

The BOG may kindly note.

2.9 REPORT ON FACULTY POSITION

Mr. Sreenivas P, Assistant Professor in Mechanical Engineering, who was under deputation for Ph.D was transferred and posted at Model Engineering College on completion of deputation. Mr. Murali Mohanan , Associate Professor in Computer Science joined the institution.

Action Sought:

The BOG may kindly note.

2.10 STATUS OF IRG ACCOUNTS

As of date, an amount of Rs.2842601/- has been deposited in the four Corpus Accounts for TEQIP-II of CE Cherthala. The split up is as in the following table:

Table 2.10

Particulars	Amount In Rs
SBT 67262515481 (Corpus Fund)	867327.00
SBT 67262515628 (Faculty Development Fund)	652312.00
SBT 67262516519 (Maintenance Fund)	661441.00
SBT 67262516586 (Equipment Replacement)	661521.00
Grand Total	2842601

Action Sought: The BOG may kindly note.

2.11 SUMMARY OF EXPENDITURE

The expenditure incurred after the 12thBOG is listed in the following table::

Table 2.11.1

Expenditure summary	
01.10.2016 to 30.11 .2016	
Particulars	Amount in lakhs
Incremental Operating Cost	4.109
Procurement	1.689
Assistantships	2.08
Capacity Development	0
FSD	14.114
III Cell	1.278
R & D	1.708
Reforms	0
Student Support	9.54
Grand Total	34.438

Table 2.11.2

1-April-2013 to 30-Nov-2016

Particulars	Amount	
Incremental Operating Cost		5399222.29
Bank Charge	5094	
Consumables	582393	
Operation and Maintenance	3158125	
Salaries	1653620	
Procurement		55546694
Books & LRs & Software	9911698	
Equipment	34742926	
Furniture	5990893	
Minor Civil Works	4852514.00	
Minor Items	48663.00	
Assistantships		8229245
Capacity Development		190461
FSD		10269834
III Cell		1052926
R & D		2789264
Reforms		898880
Student Support		4995494
Grand Total		89367376.29

Action Sought: The BOG may kindly note.

PART 3
DISCUSSIONS AND APPROVALS

3.1 PROCUREMENT OF NEW PACKAGES

Since one item approved in previous BOG is cancelled an amount of 107000 is remaining under the procurement head . Hence the institutional purchase committee recommended to purchase the following items

Table 3.1

Sl.No.	Package Name	Qty	Approx.c ost	Justification
1	Audio Rack (Wooden Instrument shelf)	3	60000	To keep the 3 audio systems and addressing systems in safe
2	Library Furniture and accessories	1	47500	Furniture for keeping CD, News paper and books and for its easy usage and storage
	CD rack	1		
	Newspaper display stand	1		
	Step stool	1		
	Book trolley	2		
	Steel almirah			

Action sought: BOG may kindly approve the packages

3.2 PLANNED ACADEMIC PROGRAMMES

The academic activities planned for the next two months is as follows;

3.2.1 In house programmes

Table 3.2.1

Sl. No.	Title of the Programme	Dept	Duration & date	No. of participants	Coordinator	Expenditure (Rs)
1	Designing and managing Research	CS	Dec-16	35	Manju K	120000
2	FOSS Research & Scientific Computing	EC	Dec-16	30	Sreekumar K	105000
3	Big Data Analytics	CS	Dec-16	30	Greeshma N Gopal	150000
4	Speech signal processing	EC	Dec-16	30	Jagadeeshkumar.P	75000

5	Forensics on Image and Video samples	CS	Dec-16	30	Muhammed Ilyas H	100000
6	Estimation & Detection Theory	EC	Jan-17	30	Mitty George	85000
7	Conservation of Solar energy	EC	Jan-17	30	Anjanadevi	50000
8	Information & Cyber Security	EC	Jan-17	30	Jayadas C K	95000
Total						780000

3.2.2 Faculty Development Programme – Outstation –planned

It is planned to send all faculty , who have not attended pedagogy training and all Associate Professors and Professors who have not attended management capacity development programmes as and when SPFU and NPIU calls for such programmes.It is also planned to send five faculty each to the Faculty Development Programmes conducted by IHRD.

Table 3.2.2

No	Name	Designation	Department	Organisation	Programme Title	Duration & Date	Expenditure (Rs.)
1	Dr.Mini M.G	Professor	EC	JPC	Transformational leadership and change management	19-23 Dec'16	65000
2	Dr.Preetha Teresa Joy	Professor	CS	ESCI Hyderabad	Project Management	30/01/17-03/02/17	55000
3	Dr.Rajesh V G	Associate Professor	ME	IIT Bhuvanewar	W/S Mech.Engg Product Design	Dec2016	35000
4	Dr.Rajesh V G	Associate Professor	ME	IIT Kanpur	W/S Mechanics of RPC	Jan 2017	35000
5	Jagadeeshkumar P	AP	EC	IIT/NIT/IHRD	VLSI/Embedded System	Feb/Mar 2017	75000
6	Sreekumar K	Asst.Prof	EC	ESCI Hyderabad /IHRD/IITs	IT applications/Signal Processing	Jan/Feb 2017	75000

7	Mitty George	Asst.Prof	EC	IHRD/IITs	Electromagnetic Theory/Embedded systems	Jan/Feb2017	75000
8	Manju K	Assistant Professor	CS	IIT KANPUR	Deep Learnig and application	12-16 jan 2017	30000
9	Manju K	Assistant Professor	CS	NITTR Bhopal	Linux Server Administration	6-10 march2017	35000
10	Sandhya P Gopal	Assistant Professor	ME	IIT	Fluid drive and alternative driven and control in aerospace actuation sytems	9-13 Dec'16	40000
11	Sarakutty K J	Asso.Prof	Applied Science	NITTR Chandigarh	Optimization Techniques/Mathematical integral transforms with applications	16/01/17-20/01/17 / 13/02/17-17/02/17	40000
12	Priyakumar T N	Asso .Prof	Applied Science	NITTR Chandigarh	„	„	40000
13	Radha Balakrishnan	Assisstant Professor	Applied Science	NITTR Chandigarh	„	„	40000
14	Radha Balakrishnan	Assisstant Professor	Applied Science	IHRD,Coll ege of engg Poonjar	Applied Engg Mathematics	19 th -23 rd dec2016	40000
Total							680000

3.2.3 Student Training Programme- Planned**Table 3.2.3**

No	Topic	Batch	Coordinators/ trainers from	Dates	Expenditure
1	NoSQL	S6CS	Dr. Preetha Theresa Joy	Dec 13,14	30000
2	Awareness on Linux OS	S2 CS	Manju K	Jan 4,5,6	40000
3	Web page development	S4 CS	Manju K	Jan 3rd week,4 days	50000
4	Internet of Things	S8 CS	Dr. Preetha Theresa Joy	Jan 3rd week,2 days	30000
5	Python Programming	S8 CS	Mohammed Ilyas H	Jan 2nd week,3 days	40000
6	Raspberry Pi	S6 CS	Mohammed Ilyas H	Jan 2nd week,3 days	40000
7	Big Data Analytics	S6 CS	Greeshma N Gopal	Dec 3rd week,4 days	50000
8	Software Engineering Tools for project design	S6 CS	Anitha M A	Jan 1st week,2days	30000
9	Introduction to R Programming	S8 CS	Anitha M A	Jan 4th week,3 days	40000
10	Java Script, J Query and Ajax	S6 CS	Janu R Panicker	Jan 4th week,3 days	40000
11	Robotics	S6 CS	Janu R Panicker	Jan 7,8	30000
12	Familiarization of Signal processing tool box- MATLAB and DSP trainer kits	S6 EC 90 Nos.	Sreekumar K. Swathy Sebastian	December, 2016, 6 Days	70000
13	Industry Visit	S4EC	Aswathy S.S,	December, 2016, 1 Day	35000
14	Industry Visit	S2EC	Anjana Devi,	December, 2016, 1 Day	35000
15	Software Tools for VLSI Design	S6 EC 90 Nos.	Jayadas C.K.	January, 2016, 8 Days	75000
16	Familiarization of MATLAB-The Scientific Computing Tool.	S4EC, 80 No	Jagadheesh Kumar P.	December 2016, 6 Days	70000
17	HDL Simulation of Logic Circuits.	S4EC 80 Nos	Jagadheesh Kumar P.	December 2016, 6Days	70000
18	Career Planning and Entrepreneurial Practices	S8 EC 100 Nos.	Sreekumar K.	January, 2016, 4 Days	50000
19	Familiarization of PSpice	S4 EC, 80 Nos.	Jibi John	January,2016, 6 Days	70000
20	Workshop on Scientific and Technical Writing	S8 EC 100 Nos.	Sreekumar K	December 2016, 4Days	50000
21	Power System Protection	S8EEE,	KSEB	December	40000

		56 Nos		2016, 3 Days	
22	Instrumentation		MECO, Ernakulam	December 2016, 3 Days	40000
23	Machine Design		Kirloskar, V-Guard, Ernakulam & KEL, Kollam	December 2016, 3 Days	40000
24	Power Quality		KSEB	January 2017, 3 Days	40000
25	Mechatronics		Appolo Tyres, Kalamassery/ FACT	January 2017, 3 Days	40000
26	Energy Management		EMC Kerala, Thiruvananthapuram	January 2017, 2Days	30000
27	Control System		ABB, Ernakulam	December 2016, 2 Days	30000
28	Energy Conservation		EMC Kerala, Thiruvananthapuram	December 2016, 2 Days	30000
29	Machine Drawing		CADD, Ernakulam	December 2016, 3 Days	40000
30	Digital Signal Processing and MATLAB		QBES, Kalamassery	December 2016, 3 Days	40000
31	Communication Networks and Fundamentals	S6EEE, 50 Nos	BSNL	January 2017, 2Days	30000
32	C Programming for Embedded System Design		KITES, Kochi.	January 2017, 3 Days	40000
33	Instrumentation		MECO, Ernakulam	December 2016, 3 Days	40000
34	Machine Fundamentals		KEL, Kollam	December 2016, 3 Days	40000
35	Transformer Construction		TELK, Angamaly	December 2016, 3 Days	40000
36	Indian Electricity Rules	S4EEE	Electrical Inspectorate, Thiruvananthapuram	January 2017, 2 Days	30000
37	Renewable Energy Harvesting		ANERT, Alappuzha	January 2017, 2 Days	30000
38	Power Transmission & Distribution		KSEB	January 2017, 2 Days	30000
Total					1595000

Action Sought:

The BOG may approve the list of planned academic activities for the next two months.

3.3 HIT PROGRAMME ON LINUX RED HAT CERTIFICATION

The EAP cell of CE Cherthala is proposing a High Intensity Program on “LINUX RED HAT CERTIFICATION” which is to be initiated as a service on the procurement Management Support System. The coordinator for the above program is Ms. Greeshma N Gopal, Asst Prof in Computer Science and engineering. The terms of reference of the said proposal is attached as annexure II.

Action Sought:

The BOG may note and approve.

3.4 REIMBURSEMENT OF TUITION FEE OF PT Ph.D CANDIDATES

Ms. Greeshma N. Gopal, Assistant Professor in Computer Science, Mr. Murali Mohanan, Associate Professor in Computer Science, Ms. Jibi John, Associate Professor in Electronics and Mr. Jagadeesh Kumar P, Assistant Professor in Electronics are pursuing Ph.D as Part time candidates under CUSAT. They have submitted a request for reimbursement of tuition fee paid.

Action Sought:

The BOG may note and approve.

3.5 Fixing the tentative date of the XIII BOG meeting

Action Sought:

The BOG may kindly fix a tentative date for the conduction of the next BOG meeting.

PART 4

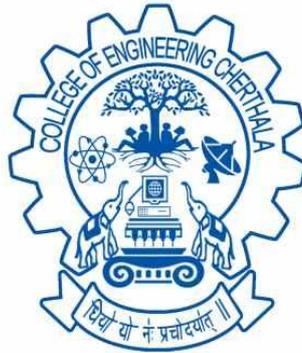
OTHER ITEMS WITH THE PERMISSION OF THE CHAIR

ANNEXURE 1- Minutes of XIIth BOG

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME

Phase II

Sub Component 1.1



12th MEETING OF THE BOARD OF GOVERNORS MINUTES

Date: 4th October 2016

Time: 10.30 AM

Venue: Seminar Hall

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

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AGENDA

Part 1-Procedural

Sl. No	Items
1.1	Confirming the Minutes of the 11 th Meeting of the Board of Governors held on 27-06-2016 at College of Engineering Cherthala, Alappuzha
1.2	Report on the action taken/action pending on the pertinent decisions in the 11 th Meeting of the Board of Governors held on 27-06-2016 at College of Engineering Cherthala

Part 2-Reports and Ratifications

Sl. No	Items
2.1	Procurement Completed after the 11 th BOG meeting
2.2	Packages for which Purchase action initiated.
2.3	In House Faculty and Staff Development Programmes conducted
2.4	Out Station Faculty and Staff Development Programmes
2.5	Conference attended/ Papers presented
2.6	IIC Programme conducted
2.7	Programmes conducted under EAP
2.7.1	Remedial Programmes
2.7.2	Soft Skill and other Training program to students
2.7.3	HIT programmes
2.8	Report on the International Conferences conducted
2.8.1	Report-International Conference on Information Science 2016 (ICIS 2016)
2.8.2	International Conference on Signal Processing and Communication
2.9	Professional society Membership

2.10	Tuition fee Reimbursement
2.11	MoU with ICT Academy
2.12	Report on accreditation status
2.13	Report on Faculty position
2.14	Audit Reports
2.15	Official TEQIP Programmes attended
2.16	Status of IRG Accounts
2.17	Summary of Expenditure

Part 3-Discussions and Approvals

3.1	Planned Academic Programmes for the next four months
3.2	Academic Activities proposed in collaboration with IIT Gandhinagar
3.3	HIT on Electronic Chip Level Training
3.4	Fixing the tentative date of the next BOG meeting

Part 4-Other items with the permission of the chair

4.1	ITSS
4.2	IDP
4.3	Presentation by HODs

Members present

1. Dr C. P. Girijavallabhan, Hon. Chairman.
2. Dr.V P Devassia , Principal Model Engineering College Thrikkakkara
3. Shri. Renjithkumar, Deputy.Sec.,Higher. Education, Government of Kerala.
4. Dr. Mini M.G., (Principal)
5. Dr.Preetha Teresa Joy. HOD, Dept of Computer Science& Engineering
6. Shri.Jayadas C K , HOD , Dept of Electronics & Communication Engineering

The following persons were specially invited to attend the BOG meeting

1. Dr. P Suresh Kumar , Director , IHRD , TVM
2. Dr P Pratapachandran Nair, Hon'ble Mentor of C.E Cherthala.

Others present in the meeting,

1. Prof.Sarakutty K J , TEQIP Coordinator
2. Ms,Jibi John Academic Coordinator
3. Prof. Priyakumar T N, Coordinator, Civil Works Committee
4. Smt.Radha Balakrishnan, , EAP Coordinator
5. Smt. Greeshma N Gopal, Coordinator, Finishing School

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

1. Shri Jacob Mathew, Vice President , Idea Cellular
2. Shri Salim M K, MD, Assuretech, Technopark, Thiruvananthapuram
3. Shri.James Joseph ,Joint Secretary , Finance Govt. of Kerala
4. Dr.Philip Kurian Principal , GISAT Kottayam.

The meeting started with silent prayer at 10.30 AM. The Hon'ble Chairman brought the meeting to order. The Chairman in his introductory note welcomed the BOG members. He expressed satisfaction at the progress in TEQIP-II activities in the college. Thereafter, the Hon'ble Chairman

invited the Principal to introduce the agenda for the 12th BOG meeting. Principal Dr. Mini M.G. thanked the Hon’ble Chairman and presented the agenda for the meeting.

1.1 Confirmation of the Minutes of the 11th Meeting of the Board of Governors of CE Cherthala held on 27-06-2016

Decision:

The BOG confirmed the approved minutes of 11th Meeting of Board of Governors of CE, Cherthala held on 27-06-16.

1.2 Action Taken Report on the pertinent decisions in the Minutes of the 11th Meeting of the Board of Governors of CE Cherthala held on 27-06-2016

Following are the pertinent decisions and corresponding actions taken, post the XIth BOG meeting.

Table 1.2

Item No in Minutes of the 11 th BOG	Decision Taken	Action Taken / current status
1.1	The BOG confirmed the approved minutes of the 11 th Meeting	For information
1.2	Took note of the ATR and approved.	For information
2.1	The BOG took note of the procurement completed after the 10 th BOG meeting and approved the expenditure made in this regard.	No action needed
2.2	The BOG took note of the packages initiated after the 10th BOG and ratified.	Purchase procedures are progressing
2.3	The BOG took note of the in house faculty development programmes conducted and ratified the expenditure made in this regard.	No action needed
2.4	The BOG took note of the outstation faculty and staff programmes attended and ratified the expenditure.	No action needed
2.4.1	The BoG directed the Principal to issue a memo to Dr.Rajesh V G to remit back the advance given to him for the FDP not completed.	It was reimbursed from the salary of Dr. Rajesh V.G for the month of July 2016

	The BOG directed the principal to write a letter to SPFU to give a decision on this matter.	SPFU Director informed through e- mail that the supreme authority is the BOG and SPFU director has no role in this matter
2.5	The BoG noted and ratified the expenditure made for paper presentation	No action needed
2.5.1	The BoG sanctioned the payment of the expenditure incurred under ITSS scheme.	Payment of Rs.149449/- made
2.5.2	The BoG decided to sanction the payment for publication of journal paper according to the provisions in PIP	The journal is an SCI indexed one. Payment was made
2.6	The BOG took note of the IIC programmes conducted and ratified the expenditure.	No action needed
2.7	The BoG took note of the EAP programmes conducted and ratified the expenditure.	No action needed
2.8	The BoG took note of the internal audit report	For information
2.9	The BoG ratified the expenditure made for professional society membership.	For information
2.12	The BOG took note and ratified the payment for booking venue for the 2 conferences, sanctioned the 100% advance payment for publication with the condition that the advance can be given after making an agreement with Mcgraw Hill education and the total expenditure will not cross the budget already approved by BOG.	Agreement signed before payment.
3.1	The BoG took note of the action plan for the remaining project period and approved	For information
3.2	The BOG approved the list of planned academic activities for the next three months.	For information
3.3	The BoG took note of and approved the proposal for taking AMC& insurance.	Not done yet

Decision:

The BOG took note of the Action Taken Report (ATR) and approved.

2. PROCUREMENT ACTIVITIES

2.1 PROCUREMENT COMPLETED AFTER THE 11th BOG MEETING.

The following packages in the procurement plan have been completed after the 11th BOG meeting.

Table 2.1

Sl. No	Package Name	Package Code	Firm	Budgeted Amount (Rs.)	Actual Amount (Rs.)	Difference (Rs.)	% Difference
1	Canteen table with chair	TEQIP-II/ KL/ KL1G19 /150	Aiswarya Furnishers Alappuzha	1,02,000	1,19,882	- 17,882	- 17.53
2	Double sided printer	TEQIP-II/ KL/ KL1G19/ 152	Viswas Computers Kunnamkulam	2,00,000	1,83,800	16,200	8.1
3	High Quality Green Writing boards	TEQIP-II/ KL/ KL1G19/ 149	Avalon Systems Kottayam	64,000	74,240	- 10,240	- -16
TOTAL				366000	377922		

Discussion:

The BOG chairman, Dr.Girijavallabhan asked how the item no 1 will be helpful in improving teaching learning activities. The other members also observed that the package could have been named furniture for student amenities. Principal informed that since it has been entered in the PMSS a name change for the package is not possible now. IHRD director observed that since the item is necessary for the functioning of the canteen and helpful to the students, the expenditure can be met from PTA fund if it is objected by the auditors. The committee finally decided to ratify the expenditure anticipating an alternate route if at all there is objection by the auditors.

Decision:

The BOG took note of the above packages and ratified the expenditure subjects to the observations made above..

2.2 PACKAGES FOR WHICH PURCHASE PROCEDURE INITIATED

The table below gives the list of items for which purchase process is initiated.

Table 2.2

Sl. No	Package Name	Package Code	Proc. Method	FIRM	Budgeted Amount (Rs.)	Actual Amount (Rs.)	Difference (Rs.)	% Difference
1	Licensed Antivirus software	TEQIP-II/KL/KL1G19/151	Shopping	ISYX Technologies India Pvt. Ltd, Cochin	30000	21942	8058	26.4
2	Solar Lightning System	TEQIP-II/KL/KL1G19/153	Shopping	Siret Energy Control Karukutty	1,00,000	1,10,000	10000	-10
3	Multiwood Storage Cabinet	TEQIP-II/KL/KL1G19/164	Shopping	Aiswarya Furnishers Alappuzha	76,000	73,280	2,720	3.58
4	Sanitary pad burning machines	TEQIP-II/KL/KL1G19/163	Shopping	Max Care India Pvt Ltd Perumbavoor	74,000	73,600	400	0.54
Total					280000	278822		

Discussion:

As in the previous case here also the BOG members doubted that whether item no: 4 can be included in the institutional procurement. TEQIP coordinator pointed out that according to PIP, providing adequate facilities to women students and weaker sections is permitted as per Equity Assurance Plan. The BOG members suggested that approximate amount of interest remaining may be collected from the bank and prepare plan for procurement accordingly.

Decision:

BOG took note of the packages for which purchase orders were issued after the 11th BOG and ratified.

2.3 IN-HOUSE FACULTY AND STAFF DEVELOPMENT PROGRAMMES CONDUCTED

Details of in – house FDP conducted after the 11th BOG is given below:

Table 2.3

Sl. No.	Title of the Programme	Dept	Duration & date	No. of participants			Coordinator	IRG in Rs/-	Expenditure (Rs.)
				Own Institute	Others (IRG)	Total			
1	FDP on Graph Theory	Applied Science	27-29 July 2016	35	5	40	Sarakuttiy K J	2500	100180
2	FDP on Life skills	Applied Science	04.08.16 - 06.08.16	18	12	30	Radha Balakrishnan	9000	57710
Total									157890

Discussion:

The BOG members enquired about the FDP on life skills. They were informed that it is based on the newly introduced paper life skills in 3rd / 4th semester of B.Tech in all branches by KTU. Dr.V.P. Devassia informed the committee that it deals with how to develop the skills needed for an Engineer.

Decision:

The BoG noted the in-house programmes conducted and ratified the expenditure in this regard.

3.7 OUTSTATION FACULTY AND STAFF DEVELOPMENT PROGRAMMES

The table below lists the out station programmes attended by faculty and staff.

Table 2.4

Sl No.	Name	Designation	Department	Programme Title	Duration & Date	Expenditure (Rs.)
1	Janu R Panicker	AP	CS	Pedagogy at teaching Learning Centre IIT Chennai	30.06.16-02.07.16	7633
2	Kannadas P K	AP	ME	„	„	7633

3	Rejin Joseph	AP	CS	„	„	6488
4	Sumitha Mathew	AP	EC	„	„	7633
5	Jibi John	AP	EC	„	18.08.16-20.08.16	10806
6	Anjana Devi	AP	EC	„	„	11343
7	Manju K	AP	CS	„	„	10806
8	Sreekumar K	AP	EC	Semiconductor Devices, Circuits & Systems - with a research perspective at IHRD, Trivandrum	04.07.16-09.07.16	37524
9	Ajay Nath S A	AP	EC	„	„	37509
10	Aswathy S S	AP	EC	Computer Simulation and Visualization tools at MEC, Thrikkakara	11.07.16-15.07.16	36902
11	Tintu Sebastian	AP	EC	„	„	36902
12	Anitha M A	AP	CS	„	„	36902
13	Asha Thomas	AP	CS	„	„	36902
14	Elizwa Laiju	AP	EE	„	„	36902
15	Jyothislakshmi	AP	EE	„	„	36902
16	Anju Thomas	AP	EC	Cyber Security- An Investigator's Perspective at Model Finishing school, Tvm	18.07.16-22.07.16	36952
17	Sareena P M	AP	EC	„	„	36952
18	Jyothi Zachariah	AP	EE	„	„	36952
19	Pramod Mathew Jacob	AP	CS	„	„	36952
20	Radha Balakrishnan	AP	Maths	Research Trends in Computing and Algorithms at MEC, Thrikkakara	25.07.16-29.07.16	37593

21	Jibi John	AP	EC	„	„	37593
22	Anjana Devi	AP	EC	„	„	37593
23	Sandhya P Gopal	AP	ME	„	„	37593
24	Manju K	AP	CS	„	„	37593
25	Rajeevan A K	AP	EE	„	„	36840
26	Santhikrishna M S	AP	CS	„	„	37640
27	Sreelakshmi Murali	AP	CS	„	„	37040
28	Neeba George	AP	EC	Essentials of Energy management at MEC Thrikkakkara	01.08.16- 05.08.16	36953
29	Swathy Sebastian	AP	EC	„	„	36953
30	Christy Mary Jacob	AP	EE	„	„	37593
31	Mridula Sojan	AP	CS	„	„	37593
32	Kannadas P K	AP	ME	„	„	37593
33	Sooraj M Varghese	AP	EC	„	„	37593
34	Deepa S Dev	AP	EC	Current Trends in Non- conventional Energy Based Systems at CE Chengannur	29.08.16- 03.09.16	38912
35	Vasanthkumar S	AP	EC	„	„	38912
36	Jayadas C K	AP	EC	„	„	38912
37	Alphonsa K A	AP	Physics	„	„	38912
38	Fathima N	AP	CS	„	„	38912
39	Jeena John	AP	CS	EDA Tools and Advances in Signal Processing at MEC, Thrikkakara	22.08.16- 26.08.16	36750

40	Jissy Raju	AP	CS	„	„	36750
41	Anjali R	AP	EC	„	„	37230
42	Deepika R	AP	EC	„	„	37230
43	Renju R	AP	EC	„	„	37230
44	Judy Ann Joy	AP	CS	„	„	36750
45	Ashida Muhammed	AP	EE	„	„	37230
46	Sandhya P Gopal	AP	ME	Advanced Pedagogy at IIT Gandhinagar	24.09.16-25.09.16	28352
47	Jayadas C K	AP	EC	Advanced Pedagogy at IIT Gandhinagar	24.09.16-25.09.16	27231
48	Sarakutty K J	AP	Applied Science	Advanced Pedagogy at IIT Gandhinagar	24.09.16-25.09.16	28352
Total						1568023
Programme attended but bills to be settled						
1	Joyce Jose	AP	CS	Virtual Instrumentation for Engineers at CE Chengannur	05.09.16 - 09.09.16	
2	Josna Jose	AP	CS	„	„	
3	Laila D	AP	EC	„	„	
4	Jagadeeshkumar P	AP	EC	„	„	
5	Vishnu V S	AP	ME	„	„	
6	Mitty George	AP	EC	„	„	
7	Mitty George	AP	EC	Pedagogy at Teaching Learning Centre, IIT, Chennai	29.09.16 - 01.10.16	
8	Jagadeeshkumar P	AP	EC	„	29.09.16 - 01.10.16	
9	Vishnu V S	AP	GENERAL	„	29.09.16 - 01.10.16	
10	Jibi John	AP	EC	Research Areas in Bio-Medical	26.09.16 -	

				Engineering, MEC, Thrikkakara	30.09.16	
11	Sumitha Mathew	AP	EC	”	”	
12	Anjana Devi	AP	EC	”	”	
13	Radha Balakrishnan	AP	Applied Science	”	”	
14	Muhammed Ilyas H	AP	CS	”	”	
15	Preetha Theresa Joy	AP	CS	”	”	
16	Sreekumar K	AP	EC	Mechatronics, Automation and Robotics, CE, Chengannur	19.09.16 - 23.09.16	
17	Rajeevan A K	AP	EE	”	”	
18	Sandhya P Gopal	AP	ME	”	”	
19	Kannadas P K	AP	ME	”	”	
Staff development programmes						
1	Ancy Paul	Librarian	Office	Skill development Programme at ESCI Hyderabad	28.09.16 - 30.09.16	
2	Raji R Nair	Librarian	Office	”	”	
3	Smitha U	Administrative Staff	Office	”	”	
4	Regilakumari R	Administrative Staff	Office	”	”	
5	Ajithakumari P	Technical Staff	EC	Lab Management and Maintenance Programme at ESCI Hyderabad	29.09.16 - 01.10.16	
6	Sundaresan V L	Technical Staff	ME	”	”	
7	George C Karamel	Technical Staff	EC	”	”	

Decision:

The BoG took note of the outstation faculty and staff programmes conducted and ratified the expenditure in this regard.

3.8 CONFERENCES ATTENDED/PAPERS PRESENTED

Students presented many papers in the 2 conferences organized by the college in August 2016 SPAAC 16 and ICIS16. Ms.Sumitha Mathew, Associate Professor in Electronics Engineering has presented a paper titled ‘Reduced Cross polarization using sectoral slots in the ground plane of a sectoral patch antenna’ in the International Conference on Computing Communication and Signal Processing ICCSP 2016 conducted on 8-9 July 2016 by College of Engineering , Karunagappally. An amount of Rs. 5928/- was incurred as expenditure for the above.

Discussion:

Mr.Renjithkumar enquired whether every faculties are successful in presenting at least one paper in an international conference. Dr.Sureshkumar P, Director, IHRD also emphasized the need for producing papers, as it adds to the quality improvement of the institution in general and also for individual career betterment. The Principal replied that because of the recent international conference conducted by the institution; almost all regular faculty has done so.

Decision:

The BoG noted and ratified the expenditure made.

3.9 IIC PROGRAMMES CONDUCTED

The table below gives the details of the IIC programmes conducted after XIth BOG

Table 2.6

Sl.No	Details of the Programme	Coordinator	Duration	No.of participants	Expenditure
1	Workshop -Introduction to MATLAB to S3 EEE	Elizwa Laiju	06.06.16-07.06.16	39	19740
2	Workshop -Introduction to MATLAB & SIMULINK to S5EEE	Elizwa Laiju	02.06.16-04.06.16	51	33630
3	Workshop- Introduction to Pspice&Multisim to S3EEE	Elizwa Laiju	08.06.16-09.06.16	39	19856
4	Workshop on Advanced Network Administration for S6 CS students	Janu R Panicker	13.06.16-17.06.16	35	39003
5	Workshop on Network Administration and Web hosting for S4 CS students	Janu R Panicker	20.06.16-24.06.16	35	39084

6	Workshop on Advanced Java for S4 and S6 students	Greeshma N Gopal	06.06.16-10.06.16	36	43803.00
7	Workshop on career oriented software training for s6 and s4 CS	Muhammed Ilyas	28.06.16-01.07.16	36	36594.00
8	Workshop on Introduction to Pspice&Multisim for S3 EC students	ElizwaLaiju	23.06.16-24.06.16	35	19030.00
9	Workshop on Embedded System Programming for S7 EEE students	ElizwaLaiju	01.07.16-02.07.16	45	17805
10	Workshop on Embedded System Design for S7 EC students	Sreekumar K	20.06.16-25.06.16	100	52821
11	Workshop on Electronic simulation using Pspice for S3 EC students	Jayadas CK	27.07.16-29.07.16	30	14300
Total					335666

Decision:

The BoG took note of the programme and ratified the expenditure in this regard.

3.10 PROGRAMMES CONDUCTED UNDER EAP

3.10.2 REMEDIAL CLASSES

TABLE 2.7.1

REMEDIAL CLASS FOR 1ST/2ND SEM SUBJECTS(supply students of KTU)						
Sl. no	Subject	Faculty	No.of hours	No. of participants	Duration	Remuneration
1	Engineering Mechanics	Devanand C N	24	11	18/06/16 – 29/06/16	14400
2	Engineering Physics	Alphonsa K A	24	8	18/06/16 – 29/06/16	14400
3	Engineering Chemistry	Alphonsa T N	24	8	18/06/16 – 29/06/16	14400
4	Engineering	Shine U P	24	14	18/06/16 –	14400

	Graphics				29/06/16	
5	Basics of Mechanical Engineering	Rajesh V G	8	4	18/06/16 – 29/06/16	4800
6	Basics of Mechanical Engineering	Sandhya P Gopal	16	8	18/06/16 – 29/06/16	9600
7	Basics of Electrical Engineering	Meera E	24	8	18/06/16 – 29/06/16	14400
8	Differential Equations	Girish Chandra	24	9	18/06/16 – 29/06/16	14400
Other Expenses						1320
Total Expenditure						102120
Other subjects (CUSAT)						
1	Engineering Mechanics	Devanand C N	16	38	April-16	9600
2	DSP	Ajay Nath S A	14	15	26/07/16 – 05/08/16	8400
Other Expenses						1920
Total Expenditure						19920
BRIDG COURSES						
1	C Programming	Muhammed Ilyas	24	50	16- 24/07/16	14400
		Joyce Jose	24			14400
2	Mathematics	Girish Chandra	12	65	09/08/16 – 12/08/16	7200
3	Mathematics	Anagha Raveendran	24	60+35		14400
Other expenses						13888
Total Expenditure						64288

2.7.2 Soft Skill and other Training program to students

Table 2.7.2

Sl. No	Title of the Programme	Semester & batch	Duration & date	No. of participants	Co-ordinator	Expenditure
1	Soft skill training	S ₈ EC	08/03/16 – 10/03/16	50	Dr.Jayasree V K	26368
2	Soft skill training	S ₈ &S ₆ EC,CS,EE	Nov -15	157	Greeshma N Gopal	56328
3	Socio Emotional Learning, an innovative technique	S5 EC	20/07/16	41	RadhaBala krishnan	10540
4	Motivation and Counselling	First Year	03/0816 – 06/08/16	170	Sarakutty K J	40390
Total Expenses						133626

2.7.3. HIT programmes

TABLE 2.7.3

Programme	Coordinator	Starting date & duration	No of participants	Contract amount	Expenditure made
HIT on Java & Androidg by Nest Information Technologies, Aluva	Janu R Panicker	Nov-15	34	592800	148200(II installment -25%)
HIT on Industrial Automation by Walrus Marine and Engineering, Cochin	ElizwaLaiju	22/08/16 – 19/09/16	30	805000	603750(I installment -75%)
HIT on Fiber Optic Technology by Nest Information Technologies, Aluva	Sreekumar K	22/08/16 – 22/09/16	36	995000	746250 (I installment - 75%)

HIT on Linux Server Administration by Clado Solutions, Cochin	Janu R Panicker	30/08/16 – 01/10/16	36	937080	Not settled
Total					14,98,200

Discussion:

Dr. Girijavallabhan mentioned that there was discussion on the importance of remedial classes, during the workshop on good governance at New Delhi. Director, IHRD suggested that the improvement in results due to remedial classes can be added in the report as an impact of remedial classes. Dr. V P Devassia suggested that the name and details of the resource persons handling the soft skill training sessions must be mentioned in the report.

Decision:

1. The BoG took note of the remedial and soft skill programmes and ratified the expenditure in this regard.
2. Decided to include the details of resource persons for soft skill training in the report.
3. Directed to report the impact of remedial teaching in results.
4. The BoG took note of the HIT programmes and ratified the expenditure in this regard.

3.11 REPORT ON THE INTERNATIONAL CONFERENCES CONDUCTED

Detailed report on International Conference on Information Science 2016 (ICIS 2016) was submitted by the convener stating the details of resource persons, areas covered etc. Report also stated that out of the 258 papers received, 56 were selected for presentation in which 3 were International papers and out of the proposed budget of Rs. 16,47,100 sanctioned by BOG, the actual expenditure of about Rs. 14,60,920 was made and an IRG of Rs. 3,22,062/- has been achieved from this conference.

TABLE 2.8.1

Item of expenditure	Approved budget	Actual expenditure
Venue	700000	690000
Printing of Brouchers	5000	14000
TA for resource person	375000	461098
Remuneration to resource person	100000	76000
Printing of Conference Proceedings	75000	70499
Conference Kit	75000	67500
Accommodation	100000	52469
Other Miscellaneous expenses	50000	29354
Technical sponsorship from IEEE	67000	
IEEE publication	100000	
Total	1647000	1460920

2.8.2 International Conference on Signal Processing and Communication

The Coordinator of International Conference on Signal Processing And Advanced Communication 2016(SPAAC'16) also submitted a detailed report on the conference mentioning the details of experts, areas covered , details of papers presented etc..

TABLE 2.8.2

Item of expenditure	Approved budget	Actual expenditure
Venue	700000	690000
TA for resource person	410000	154830
Remuneration to resource person	75000	48000
Printing of Conference Proceedings	60000	98949
Conference Kit	68000	42200
Accommodation	92000	23071
Other Miscellaneous expenses	70000	16495
Total	1475000	1073545

Discussion:

The conveners of both the international conferences have explained the details of the Conferences. The committee observed that the conferences were conducted well and congratulated the entire team. Dr.Pratapachandran Nair advised that audit is compulsory for two conferences and the auditor's fee can be added in the expenditure of conference. Director, IHRD commented that most of the papers of SPAAC16 were from the host institution which is not an acceptable practice and this is not becoming to the standard of an international conference.

The convener of ICIS 16 informed the committee that IEEE will be charging a flat fee of \$1000 for technical co sponsorship and \$15 per paper for publication in IEEE Explore , which will be approximately Rs.1,18,000/- It is informed from IEEE Kerala section that this amount needs to be paid only if IEEE claims it. The convener also informed the committee that this amount was included in the sanctioned budget and requested sanction from the BOG for payment of the same if needed.

Decision:

1. The BoG took note of the conferences and ratified the expenditure involved.
2. BOG sanctioned the anticipated expenditure for publication.
3. BOG suggested auditing of the expenditure for the conferences.
- 4.

3.12 PROFESSIONAL SOCIETY MEMBERSHIP

Three faculty members of this institution have submitted proposals for reimbursement of 50% of amount paid by them for IEEE membership , which was reimbursed.

Table 2.9

Sl. No	Name	Designation	Membership fee paid	Amount reimbursed
1	Irshad Ali T.K	AP in EC	5076.66	2538
2	Janu R.Panicker	AP in CS	2550	1275
3	Greeshma N.Gopal	AP in CS	2550	1275
Total				5088

Decision:

The BOG took note and ratified the expenditure in this regard.

3.13 TUITION FEE REIMBURSEMENT

Rs.15010/- towards tuition fee for 3rd semester of M.Tech is reimbursed to Mr.Irshad Ali, Assistant Professor in Electronics who is doing M.Tech in Department of Electronics , Cochin University .

Decision:

The BoG took note and ratified the expenditure.

3.14 MoU WITH ICT ACADEMY OF KERALA

ICT Academy of Kerala has submitted a proposal for renewal of MoU which expired on 30.09.2016 with a membership fee of Rs.1,80,000/- for 3 years .

Decision:

1. The BOG has sanctioned for one year contract with ICT Academy.
2. BOG suggested that the 3 year contract may be signed after getting clarification from SPFU.

3.15 REPORT ON ACREDITATION STATUS

Decision:

1. The BOG took note of the status and advised to proceed with accreditation of the 2 UG programs.
2. BOG advised to apply for accreditation for the PG programme in Computer Science.
3. BOG decided to consider NAAC Accreditation for the college.

2.13 REPORT ON FACULTY POSITION

Decision:

The BOG took note of the faculty position and approved the changes made in the TEQIP coordinators and TEQIP committees.

2.14 AUDIT REPORTS

Decision:

The BOG took note of the Mentoring report, Statutory audit observations and the report of the internal audit conducted for second half of the year 2015-16 above reports.

2.15 OFFICIAL TEQIP PROGRAMMES ATTENDED

Decision:

The BOG took note of the official TEQIP programmes attended by principal and TEQIP coordinator.

2.16 STATUS OF IRG ACCOUNTS

As of date, an amount of Rs.2634533/- has been deposited in the four Corpus Accounts for TEQIP-II of CE Cherthala. The split up is as in the following table:

Table 2.16

Particulars	Amount In Rs
SBT 67262515481 (Corpus Fund)	822424.00
SBT 67262515628 (Faculty Development Fund)	574741.00
SBT 67262516519 (Maintenance Fund)	618665.00
SBT 67262516586 (Equipment Replacement)	618703.00
Grand Total	2634533

Decision:

The BOG took note of the four IRG accounts.

2.17 SUMMARY OF EXPENDITURE

The expenditure incurred after the 11th BOG is listed in the following table::

Table 2.17.1

Expenditure summary	
01.06.2016 to 30.09.2016	
Particulars	Amount in lakhs
Incremental Operating Cost	6.02
Procurement	3.78
Assistantships	5.67
Capacity Development	0
FSD	18.5
III Cell	3.35
R & D	21
Reforms	0
Student Support	19.41
Grand Total	77.71

Table 2.17.2

1-April-2013 to 30-Sep-2016

Particulars	Amount	
Incremental Operating Cost		4988354.79
Bank Charge	3680.79	
Consumables	535673.00	
Operation and Maintenance	2901000.00	
Salaries	1548001.00	
Procurement		55377872.00
Books & LRs & Software	9889756.00	
Equipment	34669326.00	
Furniture	5917613.00	
Minor Civil Works	4852514.00	
Minor Items	48663.00	
Assistantships		8021245.00
Capacity Development		190461.00
FSD		8820839.00
III Cell		925201.00
R & D		2618463.00
Reforms		898880.00
Student Support		4041494.00
Grand Total		85882809.79

Decision:

The BOG took note of the expenditure and ratified.

3.1 PLANNED ACADEMIC PROGRAMMES FOR THE NEXT FOUR MONTHS

The academic activities planned for the next quarter is as follows;

Table 3.1.1- IN-HOUSE FDP

Sl. No.	Title of the Programme	Dept	date	No. of participants			Coordinator	Expenditure (Rs)
				Own Institute	Others (IRG)	Total		
1	Internet of Things	EC & CS	Oct-16	35	5	40	Dr. Preetha Theresa Joy & Jagadeesh kumar	150000
2	Advanced Wireless Communication Systems	EC	Oct-16	26	4	30	Anjanadevi S	85000

3	VLSI Hardware Design	EC	Nov-16	24	6	30	Jagadeesh kumar P	75000
4	Robotics & Artificial Intelligence	EC	Nov-16	25	5	30	Sreekumar K	100000
5	Opto-Electronics & Communication Techniques	EC	Dec-16	24	6	30	Jibi John	120000
6	FOSS Research & Scientific Computing	EC	Dec-16	27	3	30	Sreekumar K	105000
7	Information & Cyber Security	EC	Jan-17	25	5	30	Jayadas C K	95000
8	MEMS & NEMS	EC	Jan-17	25	5	30	Mitty George	110000
9	Obtaining Research Funding	CS	Oct-16	26	4	30	Manju K	100000
10	Outcome Based Education and NBA Accreditation	CS	Nov-16	25	5	30	Anitha M A	115000
11	Computer architecture and Parallel processing	CS	Nov-16	25	5	30	Janu R Panicker	125000
12	Big Data Analytics	CS	Dec-16	25	5	30	Greeshma N Gopal	150000
13	Forensics on Image and Video samples	CS	Dec-16	24	6	30	Muhammed Ilyas H	100000
14	Mathematical modeling	App. SC	16-Nov	25	5	30	Radha balakrishnan	100000
Total								1530000

Table 3.1.2- OUT – STATION FDP

No .	Name	Designation	Organisation providing training	Programme Title	Duration & Date	Expenditure (Rs.)
1	Radha Balakrishnan	Associate Professor	NIT Warangal	Mathematical modelling and advanced numerical techniques	2-7 Dec'16	40000
2	Sandhya P Gopal	Assistant Professor	NIT Warangal	Mathematical modelling and advanced numerical techniques	2-7 Dec'16	40000

3	Sandhya P Gopal	Assistant Professor	IIT Kharagpur	Fluid drive and alternative driven and control in aerospace actuation sytems	9-13 Dec'16	40000
4	Sarakutty K.J	Associate Professor	NITTR Chandigarh	Student centered method	24-28 Oct'16	30000
5	Priyakumar T N	Assistant Professor	NITTR Chandigarh	Student centered method	24-28 Oct'16	30000
6	Sandhya P Gopal	Assistant Professor	NITTR Chandigarh	Student centered method	24-28 Oct'16	30000
7	Radha Balakrishna n	Associate Professor	NITTR Chandigarh	Computer based production management	17-21 Oct'16	30000
8	Sarakutty K.J	Associate Professor	NPC, Portblair	Effective office administration & Financial management	07-11 Nov'16	40000
9	Dr.Mini M.G	Associate Professor	NPC, Portblair	Effective office administration & Financial management	07-11 Nov'16	40000
10	Rajeevan A K	Assistant Professor	NPC, Portblair	Effective office administration & Financial management	07-11 Nov'16	40000
11	Soorej M Varghese	Assistant Professor	IITM	Pedagogy	Oct-16	4500
12	Vasanthkumar	Assistant Professor	IITM	Pedagogy	Oct-16	4500
13	Sareena	Assistant Professor	IITM	Pedagogy	Oct-16	4500
14	Anju Thomas	Assistant Professor	IITM	Pedagogy	Oct-16	4500
15	Swathy Sebastian	Assistant Professor	IITM	Pedagogy	Oct-16	4500
16	Neeba George	Assistant Professor	IITM	Pedagogy	Oct-16	4500
17	Tintu Sebastian	Assistant Professor	IITM	Pedagogy	Oct-16	4500
18	Renju R	Assistant Professor	IITM	Pedagogy	Oct-16	4500

19	Deepa S Dev	Assistant Professor	IITM	Pedagogy	Oct-16	4500
20	Anjali Suresh	Assistant Professor	IITM	Pedagogy	Oct-16	4500
21	Meera E	Assistant Professor	MEC	Power system drivers and control	3-7 Oct'16	40000
22	Jayadas C K	Professor	MEC	Power system drivers and control	3-7 Oct'16	40000
23	Anjali Suresh	Assistant Professor	MEC	Power system drivers and control	3-7 Oct'16	40000
24	Sreekumar S	Assistant Professor	IIT Kharagpur	Analysis and Implementation of Dielectric Resonator Antennas	21-26 Nov'16	40000
25	Rajeevan A K	Assistant Professor	NIT bhopal	Power system transient stability analysis	5-9 Dec'16	40000
26	kannadas P.K		IIT Gandhinagar	Fuel technology	5-9 Dec'16	40000
27	Muhammed Ilyas H	Assistant Professor	NIT bhopal	Advance Java programming	5-9 Dec'16	40000
						685000

Table 3.1.3
List of Student Training Programme

	Topic	Student Batch	Coordinators		Dates	No Of Days	Expenditure
1	PHP and My SQL	S3CS	Greeshma N Gopal	Josna Jose	October 4-9	6	60000
2	Robotics	S7 CS	Janu R Panicker	Fathima N	October 17-22	6	100000
3	Awareness on Linux OS	S1 CS	Manju K	Judy Ann Joy	October 25-28	4	40000
4	Web page development	S3 CS	Manju K	Joyce Jose	Nov 1-4	4	40000
5	Internet of Things	S7 CS	Dr. Preetha Theresa Joy	Asha Thomas	November 7-8	2	20000
6	Python Programming	S7 CS	Mohammed Ilyas H	Chithira	November 8-11	4	70000
7	Raspberry Pi	S5 CS	Mohammed Ilyas H	Jeena John	November 15-18	4	70000
8	Big Data Analytics	S5 CS	Greeshma N Gopal	Mridula Sojan	November 21- 26	6	100000
9	Software Engineering Tools	S5 CS	Anitha M A	Jissy Raju	November 21-22	2	15000

	for project design						
10	Introduction to R Programming	S7 CS	Anitha M A	Sreelakshmi Murali	Nov 28-30, Dec 1-3	6	100000
11	Java Script	S5 CS	Dr. Preetha Theresa Joy	Santhi Krishna M S	Dec 5-10	6	70000
12	J Query and Ajax	S5 CS	Janu R Panicker	Dhanya Dharmajan	Dec 12-17	6	70000
13	Introduction to Workshop on LaTeX	S7 EC	Sreekumar	Ajaynath	Nov-16	6	60000
14	Familiarization of Signal processing tool box-MATLAB and DSP trainer kits	S5EC.	Jayadas C K	Sareena P M	November 2016	6	70000
15	Industry Visit	S3EC	Jibi John	Mitty George	November 2016	1	35000
16	Industry Visit	S5EC	Jagadeeshkumar P	Tintu	November 2016	1	35000
17	Software Tools for VLSI Design	S6 EC	Jagadeeshkumar P	Anju Thomas	December 2016	8	75000
18	Familiarization of MATLAB-The Scientific Computing Tool.	S4EC	Anjali R	Deepa S Dev	December 2016	6	70000
19	HDL Simulation of Logic Circuits.	S4EC	Anjana Devi	Neeba George	December 2016	6	70000
20	Career Planning and Entrepreneurial Practices	S8EC.	Jayadas C K	Sooraj Varghese	November 2016	4	50000
21	Familiarization of PSpice	S4EC	Mitty George	Renju R	November 2016	6	70000
Total							1290000

Decision:

- 1.The BOG approved the list of planned academic activities for the next four months.
- 2.The BOG authorized the Principal to send faculty for programmes observing the quality of programmes and ensuring that same person shall not be sent for more than one programme of similar type .

3.2 ACADEMIC ACTIVITIES PROPOSED IN COLLABORATION WITH IIT GANDHINAGAR

To enhance the academic expenditure of the project institutions, MHRD has taken up the initiative and conducted a meeting with IIT Gandhinagar and IIT Gandhinagar has prepared a proposal of various academic activities for the project institutions. NPIU has sent this proposal to all project institutions through SPFU. Hence CE Cherthala has prepared the following proposal in collaboration with IIT Gandhi nagar :

Table 3.2

Activity	Duration	No of participants	Total cost
Soft Skill Workshop for students	5 days	16	250000
Symposium for students	2 days	12	120000
Lab visit	1 day	40	250000
Symposium for faculty	2 days	10	400000
Leadership Exposure for faculty	5days	4	350000
Skill development for staff	3 days	5	130000
TOTAL			1500000

Discussion

Dr.Sureshkumar and Mr.Renjithkumar suggested to send a query to NPIU for clarification regarding the students training Eventhough BOG considered this as a beneficial program especially for students, all members suggested to proceed with this proposal only after getting written permission from NPIU.

Decision: Approved the proposal subject to clarification from NPIU.

3.3 HIT on ELECTRONIC CHIP LEVEL TRAINING

It is understood on discussions with experts from industry that there will be requirement of Engineering Graduates who are skilled in ‘Electronic Chip Level Training’,for the next few years. The students from both EC and CS departments can be participated in this HIT. In these circumstances, the EAP cell of CE Cherthala is proposing a High Intensity Training programme on Electronic Chip Level Training, which is to be initiated as a service on the Procurement

Management Support System (PMSS). The Coordinator for the above HIT is Ms.Sandhya P Gopal, Assistant Professor in Mechanical Engineering.

Discussion :

Dr.Sureshkumar suggested that the coordinator should be a faculty from EC/CS department. Hence Ms. Jibi John has been nominated for co-ordinatorship along with Ms.Sandhya P Gopal . Dr. V P Devassia suggested to add one more condition in ToR , that there shall be provision for providing hands on training individually to students.

Decision:

The BOG approved the HIT subject to the condition that the the Term of Reference shall include facility for individual hands-on training to the participants

3.4 Fixing the tentative date of the XII BOG meeting

Decision:

The BOG decided to convene the next meeting in the first week of December-16.

4 OTHER ITEMS WITH THE PERMISSION OF THE CHAIR

4.1 ITSS

Two faculty members; Ms.Manju K, Assistant Professor, Computer Science and Ms.Sumitha Mathew, Associate Professor, Electronics are selected for paper presentation in International Conferences abroad. As per the new directive of NPIU sanction for international travel is to be provided by NPIU and that too for plenary sessions/ invited talk only. The principal asked permission from the BOG to forward the proposals under ITSS scheme to NPIU , if possible. The BOG permitted to carry out all the necessary procedures for forwarding the proposals to NPIU for ITSS.

4.2. IDP presentation

Ms.AnjanaDevi has done an overall presentation of the IDP prepared for TEQIP-III. The BOG approved the same after suggesting some modifications. Dr.Suresh kumar, Director , IHRD suggested said that SWOT analysis may be conducted by some external agency so that it can be made more credible.

4.3. Presentation by HODs

It was decided to conduct a presentation on the progress achieved by the different departments due to TEQIP by the respective HODs. Because of time constraints, it was decided to carry out the presentation in the next meeting

Conclusion:

The Hon'ble Chairman in his concluding remarks appreciated the quality of the deliberations of the XIIth BOG meeting. He thanked all the members for attending the meeting and contributing to it by their valuable suggestions and comments. He once again congratulated the Principal and the TEQIP Cell of CE Cherthala for their good work. He hoped that this good work would continue and some of the major concerns will be taken care of so that the full objective of the project may be met. The Hon'ble Chairman called the meeting to an end at 2.30 PM.

Dr.C P Girjavallabhan

Chairman

Dr.Mini M G

Principal

Annexure II – ToR for HIT

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME

Phase - II

Terms of Reference (ToR)

For

Selection of Training Providers in

“Red Hat Certified System Administrator Training”

Under

Technical Education Quality Improvement Program - Phase-II

December 2016

College of Engineering Cherthala
Pallippuram P.O.

Terms of Reference (ToR) for Technical Selection of Training Providers in Red Hat Certified System Administrator Training Under Technical Education Quality Improvement Programme - Phase-II

1. BACKGROUND

The Ministry of Human Resource Development (MHRD), Government of India in the year 2002 conceived and designed the Technical Education Quality Improvement Programme (TEQIP) as a long term Programme for implementation in 2 to 3 phases over duration of 10-12 years for systemic transformation of the technical education system. TEQIP Phase-I commenced in March 2003 and was successfully completed in March, 2009, covering 127 institutions. Encouraged by the highly significant achievements of Phase-I of the Programme, the Government of India has decided to implement Phase-II of the Programme through MHRD. A key component of the Phase-II Project is the support to weak students under Equity Action Plan. Under this plan, it is considered important that focused efforts be made by institutions to improve the academic performance of SC/ST/OBC academically weak students through innovative methods such as remedial teaching in professional subjects and soft skills development for increasing transition rate, pass rate and employability.

For increasing institutional focus on providing academic and guidance support to the SC/ST/OBC/ academically weak students, all project institutions are required to constitute a Finishing School with a senior faculty as coordinator. The key activities under the aegis of the Finishing School will be:

- a) Conducting remedial teaching throughout academic sessions for improving transition rate and pass rate of students,
- b) Conducting specialized soft skills and professional skills development training during semester-breaks and vacations (preferably starting from 5th Semester onwards) for increasing employability,
- c) Conducting high intensity training (of at least 4-weeks duration) for development of soft and professional skills in the students that graduate but fail to secure any employment, and
- d) Organizing campus interviews and making other efforts to secure employment for graduate engineers that complete the training under activity (c) above.

The Finishing School activities are to be conducted using the existing infrastructure, laboratories, workshops, computer centers, library and the existing faculty. Expertise from outside the institution and from employer organizations can also be used. There will be no course fee for students for either activity at (a) or (b) or (c). The benefit of activity at (c) of the Finishing School can be extended to graduate-engineers from other institutions in the vicinity who fail to secure employment. All students attending training under activity (c) will be responsible for their boarding and lodging arrangements and expenditure.

The activities of the Finishing School will be regularly supervised and monitored by the respective SPFUs and the NPIU, especially in respect of the number of students participating in

the **20** days training and the percentage of these participants securing employment within 6 months of completion of training.

2. OBJECTIVES OF HIGH INTENSITY TRAINING ON LINUX RED HAT CERTIFICATION

The main objectives of TEQIP-II project are Strengthening Institutions to improve Learning Outcomes and Employability of Students. Many organizations visiting campuses for recruitment point out that the employability of students are not as expected due to poor communication and professional skills.

The broad objectives of high intensity training on “**Red Hat Certified System Administrator Training**” are

- a) To provide students with the necessary skills and abilities to work as a trained professional Linux Red Hat System Administrator
- b) To create professionals who are able to accomplish the tasks below without assistance.
 - Understand and use essential tools
 - Operate running systems
 - Configure local storage
 - Create and configure file systems
 - Deploy, configure, and maintain systems
 - Manage users and groups
 - Manage security
- c) To provide RHCE Certification with no additional costs or training.
- d) To assist the Placement Cell of the College for placement drives.

3. SCOPE OF WORK

- a) The Project provides for hands on training of BTech passed out students in Electronics, Computer Science, Information Technology and Electrical Stream.
- b) The training is to be imparted in-situ (at the institution) in 120 hours (**30** days @ 4 hours per day) of Red Hat Certified System Administrator Training and certification exam. The venue of the certification exam shall be arranged at College of Engineering Cherthala, if feasible; or any other venue as suggested by the Provider.
- c) The details of the modules in terms of the elements of training are given at Annexure-1. The program aims to train 20-30 B.Tech. passed out students.
- d) Training is to be imparted at College of Engineering Cherthala in one batch of 20-30 candidates.
- e) The training providers will need to ensure coverage of all the elements identified for the course.
- f) The training providers are free to add more elements in main module that will be covered during the training, provided that these additional elements and additions to the contents can be covered within the stipulated duration of the training. The additional elements and contents are to be declared in the proposal submitted.
- g) The training providers are also free to suggest alternates to the suggested modes of training of various elements.

- h) To qualify for being selected, a training provider will need to demonstrate capability for the Red Hat Certified System Administrator Training and agree to provide the same at the institution and according to schedules as agreed with the College.
- i) The training provider shall include the Linux Red Hat certified students from CE Cherthala in the placement drives that are conducted or facilitated by them.

4. ELIGIBILITY AND CAPABILITY OF TRAINING PROVIDERS

1. Public and private training organizations are eligible to provide training.
2. The training provider should meet the following benchmarks:
 - ✓ Should be an Authorized Training Centre (ATC) of EC-Council
 - ✓ Minimum 3 years experience in providing “Red Hat Certified System Administrator Training”
(please provide the copies of the credentials/ self-certificate for the last three years 2013-14, 2014-15, 2015-16; Ref. Annex-II,III).
 - ✓ All the training personnel should be Red Hat Certified System Administrator certified.
 - ✓ In addition to this, the firm should have at least 2 experienced resource persons (full-time or otherwise) with at least a Bachelor’s Degree. Brief experience profile of at least 5 of the resource persons in the format given at Annexure-III must be provided.
 - ✓ The training provider will need to demonstrate that it possesses the capacity to impart training to about 2 batches of students in a year.
 - ✓ An undertaking (self-certificate) is to be submitted that there has been no outstanding bankruptcy, judgment or pending legal action that could impair operating as a going concern.
 - ✓ An Undertaking (Self Certificate) is to be submitted that the organization hasn’t being black listed by any Central/State Government Department/Central Government Funded Organizations/State Government Funded Organization/World Bank, or other World Bank Organizations (including the UN Organizations) and is not under investigation by Government or UN Member State Government.

5. SELECTION OF TRAINING PROVIDERS

A list of technically qualified Institutions will be finalized, following the procurement norms of TEQIP II. This process will involve short-listing all qualified institutions that responds to the Request for Expressions of Interest (EoI), inviting technical proposals from the short listed agencies, technical evaluation of proposals submitted by shortlisted agencies and final selection

of agencies on the basis of technical competencies for the assignment.

6. PAYMENT TO TRAINING PROVIDERS

Training will take place at the institutions as per the schedule. The training of students will be followed by a feedback session and a post-training assessment. The aggregated results of these will be made available to the respondents, Head of Institution and the training provider.

The contracted cost for any training package will cover training in all the elements, contents and modes, with certification as quoted in the proposal submitted to the College. The payment of this cost will be made in two installments. The first installment will be 75% of the contracted cost which will be paid after the successful completion of all the training modules. The second installment (25%) will be paid after six months of completion of the training program under the condition that 25% of students undergone training got placed within six months with a minimum starting salary package of Rs.12000/-.

7. COPIES OF RESPONSE

Respondents must submit one hard copy and one soft copy in CD, of their response to this invitation to the designated point of contact by the date and time specified in the invitation.

8. ESTIMATED COST (NOT TO BE INCLUDED IN THE ToR)

Approximate cost per student for 120hours (20days @ 6 hours per day) is Rs.35000/- (Rupees Thirty Five Thousand Only) (including tax) (includes course materials, mock interviews, placement assistants and certification)

Total estimated cost is Rs.875000/- (Rupees Eight Lakhs seventy five thousand only)

9. DESIGNATED POINT OF CONTACT

The Principal
College of Engineering, Cherthala
Pallipuram P.O, Alappuzha-688541

Annexure I

Course Outline

- Accessing the Command Line Recognize the BASH shell based on the default prompt. Use Linux efficiently by switching between virtual consoles. Display usage messages and be able to interpret a command's syntax.
- Managing Files from the Command Line Recognize and Find Familiarity in a File-system Tree, Learn Terms Like “root” Directory and Subdirectory. Introduction to Different types of Data in Separate System Directories.
- Getting Help in Red Hat Enterprise Linux Learn “man” Terminology, Including Topics and Sections. Become Aware of The importance of less-noticed man sections.
- Creating, Viewing and Editing Text Files Control Output to Files. Use Pipe to Control Output to Other Programs.
- Manage Local Linux Users and Groups Explain the Role of Users and Groups on a Linux System and How They are understood by the Computer.
- Controlling Access to Files with Linux File-system Permissions Explain How the Linux File Permissions Model Works.
- Controlling Services and Daemons List System Daemons and Network Services Started by System services and Socket units.
- Configuring And Securing Open-ssh Service Log into a Remote System Using ssh to Run Commands From a Shell Prompt.
- Analyzing and Storing Logs Describe the Basic “syslog” Architecture in RHEL7
- Managing RHEL Networking Explain Fundamental Concepts of Computer Networking.
- Archiving and Copying Files between Systems To Create Backups and Transfer Files Over The Network..
- Installing and Updating Software Packages Register System With Your Red Hat Account and Entitle Them to Software Updates for Installed Products.
- Accessing Linux File-systems Determine which Directories

in the File-system Hierarchy are Stored on Which Storage Devices.

- Using Virtualized Systems Recognize the Consistent Use of KVM Architecture Throughout of Red Hat Product Line.
- Accessing the Command Line RH 134 Red Hat System Administration II Red Hat System Administration II (RH134) is designed for IT Professionals working to full time Linux Administrators, the course is a follow ups to rh124(SA1). This course will actively engage students in task focused activities, lab-based knowledge checks, and facilitative discussions to ensure maximum skill transfer and retention.
- Automating Installation with Kickstart Explain Kickstart Concepts and Architecture Install and configure Linux using Kickstart
- Using Regular Expressions with “grep” Create a Regular Expressions that match desired data. Creating and Editing Text files with vim Explain the three main modes of “vim”. Scheduling Future Linux Tasks Scheduling tasks using at and cron. Managing Priority of Linux Processes Explain about Linux Processes and nice values.
- Controlling Access to Files with Access Control Lists (ACL) Describe ACL's and file system mount options.. Managing SELinux Security Explain the Basics of Se-Linux permissions and Context Transitions. Display Current Se-Linux Modes. Correctly Interpret the Se-Linux Context of a File. Identify Current Se-Linux Boolean Settings. Connecting to Network-Defined Users and Groups User authentication using centralized Identity
- Management Services. Adding Disks, Partitions, and File Systems to a Linux System Create and Delete disk Partitions on disks with an MBR Partitioning Scheme Using “fdisk”. Create and Delete disk Partitions on disks with an GPT Partitioning Scheme Using “gdisk”. Format Devices Using “mkfs” Mount File System into the Directory Tree Unit 10: Managing Logical Volume Management (LVM) Storage How to manage high performance LVM storage. Accessing Network Attached Storage with Network File System (NFS) Access , Mount and unmount NFS Shares .
- Accessing Network Storage with SMB How to mount and unmount smb file-system using the command line.
- Controlling and Troubleshooting the Red Hat Enterprise Linux Boot Process Describe and Influence the RHEL Boot Process.
- Limiting Network Communication with Firewalled Configure the Basic Firewall Using “firewalld”, “firewalld-config”and “firewalld-cmd”.

- Administration 2 RH254 Red Hat System Administration III - automation techniques using Bash Scripting and deployment of network services includes DNS , , APACHE HTTPD, MARIADB, POSTFIX. MAIL SERVER, NFS ,SAMBA , ISCSI STORAGE, FIREWALLD etc. Course Outline Unit 1: Controlling Services and Daemons Control System Daemons and Services Using Systemctl.
- Managing IPV6 Networking · Configure and troubleshoot IPv6 address on Red Hat Enterprise Linux systems Configuring Link Aggregation and Bridging · Configure and Troubleshoot Network Bonding and Teaming on RHEL Network Port Security · Implement a Secure Network Using Firewall Managing DNS for Servers · A Brief Study about DNS Records and how to Configure a Secure Caching DNS. Configuring Email Transmission · Configure RHEL Server to Transmit all E-mail through an Unauthenticated SMTP Gateway. Providing Remote Block Storage · How to Access Remote Storage Space Using ISCSI. Providing File Based Storage · Export File System to Client Systems Using NFS and Providing Security. Configuring MariaDB Databases · Install and Configure MariaDB Database. Providing Apache HTTPD Web Service · Configure a Secure Apache HTTPD Web-service.. Writing Bash Scripts · Write simple shell scripts using Bash. Bash Conditionals and Control Structures · Bash Conditionals and Other Control Structure. Configuring the Shell Environment · Use Bash Startup Scripts to Define Environment Variables, Aliases and Functions. Linux Containers and Docker · Details about Linux Containers and Docker.

Personality Development Training Module

- Leadership
- Communication
- Listening skills
- Logical thinking

Annexure-II

Format for providing details of experience and resources of training provider

1. Name :
2. Address and Contact details:
3. Relevant Work Experience (experience related to providing Training on Red Hat Certified System Administrator Training)

Sl. No	Requirement	Please provide the relevant information summary in this format
1	No. of years into providing training in Red Hat Certified System Administrator Training	
2	No. of engineers trained so far and in how many batches	
3	No. of trainers engaged along with their CVs	

4. An undertaking (self certificate) is to be submitted that there has been no outstanding bankruptcy, judgment or pending legal action that could impair operating as a going concern.
5. An Undertaking (Self Certificate) is to be submitted that the organization has not been black listed by any Central/State Government Department/Central Government Funded Organizations/State Government Funded Organization/World Bank, or other World Bank Organizations (including the UN Organizations) and is not under investigation by Government or UN Member State Government.

Annexure III

Format for experience profile of resource persons on the training provider’s team

1. Name:
2. Address and contact details:
3. Educational Qualifications:
4. Present Employment, if any:
5. Past Employment record (employer, period of service, designation of the post occupied)
6. Relevant Work Experience (experience related to providing training in Red Hat Certified System Administrator Training to be given in the tabular format given below)

Sl. No	Duration	No. of students Trained	No. of Students Certified

Annexure IV

Format for the list of firms which recruited trainees of Red Hat Certified System Administrator who were placed.

Sl. No	Name of the Firm	Name of the Employee	Address of the Employee	Position in the Firm	Approximate Salary