TECHNICAL EDUCATION QUALITY IMPROVEMENT

PROGRAMME Phase II Sub Component 1.1

12th MEETING OF
THE BOARD OF GOVERNORS

DETAILED AGENDA NOTES

Date: 29-07-2017

Time: 10.00 am

Venue: College of Engineering Karunagappally

COLLEGE OF ENGINEERING KARUNAGAPPALLY

THODIYOOR P.O., KOLLAM-690523, KERALA

Phone: +91 476 2665935

Background:

The meeting of Board of Governors is convened regularly to monitor the progress of TEQIP-II activities at CE Karunagappally, under Sub component 1.1, with emphasis to procurement and academic activities, and to accord necessary approvals and clearances for the ongoing activities. The 12th meeting of the BoG is being convened on 29th of July, 2017.

The agenda items are given below.

Agenda Items

Silent Prayer

Part 1-Procedural

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Part 1

Procedural Items

1.1 Confirmation of the Minutes of the 11th Meeting of the Board of Governors held on 06-03-2017 at CE Karunagappally

The Minutes of the 11th Meeting of Board of Governors of TEQIP Phase II of CE Karunagappally held on 06-03-17 was sent to the Chairman for his approval and upon his approval copies were circulated among the other members of the BoG. A copy of the Minutes is appended as **Annexure 1** for confirmation.

Action sought: BoG may consider the Minutes for approval

1.2 Report on the action taken/action pending on the pertinent decisions in the Minutes of the 11th Meeting of the Board of Governors held on 06-03-2017 at CE Karunagappally

The decisions taken by the BOG as recorded in the Minutes of the 11th Meeting of the Board of Governors of the TEQIP Phase II held on 06-03-2017 have been noted and actions have been initiated. A report on the action taken and actions pending is presented in the Table 1.1 given below

Table 1.1

Item No in Minutes of the 11th BOG	Decision Taken	Action Taken
1.1	The BoG confirmed the approved minutes of the 10th Meeting	For Information
1.2	Took note of the action taken report and approved	For Information
2.1	BoG ratified the payment of Rs. **2,19,203**/- towards the payment of five completed procurement packages and approved the price revisions.	No action needed
2.2	The BoG took note of the progress in procurement of Distilled Water Plant	The package has been cancelled
2.3	The BoG took note and ratified the expenditure incurred for attending various Faculty and Staff Development Programmes for Rs.10,89,831	No action needed
2.4	The BoG decided to reimburse the amount after proper evaluation of the progress work of Mr.Raju M, Assistant Professor in EEE wh had submitted a request for the reimbursement of fee for his fourth year part time PhD programme	The fee is not reimbursed since no paper has been published
2.5	The BOG approved for reimbursement of the expenditure incurred for presenting a paper in a National Conference to Dr. Gopakumar C, Assistant Professor in EC	The amount has been paid
2.6	The BOG approved the proposals for the outstation programmes for the month of March	Faculty attended training programmes at various institutes like IITs and NITs
2.7	The BoG approved for conducting a Colloquium on Research in Computing Innovations	The Colloquium was planned to conduct if payment of Accreditation fee for PG

		programmes would be denied. Since the payment of Accreditation fee was made, there was no fund left out to conduct the Colloquium
2.8	The BoG took note and ratified the expenditure of Rs.2,51,760/- and the other four programmes conducted under IIIC.	No action needed
2.9	The BOG approved the action plan under IIIC cell for the month of March	Conducted 28 IIIC programmes
2.10	The BOG took note and ratified the payment towards conducting Soft Skill Training and asked to settle the other programmes conducted immediately. Also decided to conduct an expert talk on Applied Mathematics for both students and faculty	Settled all the programmes Hon'ble Chairman conducted a talk on Applied Mathematics
2.11	The BOG approved the action plan for the soft skill training programme planned for the month of March	Conducted soft skill training programmes for all UG and PG classes (for10 Classes) No action needed
2.12	The BOG approved the plan for the placement drive	The idea was dropped
2.13	The BOG approved the Vision and Mission statements	No action needed
2.14	The BOG took note and ratified the payment under IOC head	No action needed
3.1	The BOG took note of the expenditure under various heads	No action needed
3.2	The BOG took note of the survey report and congratulated the institution for the good satisfaction index score	No action needed

Part 2

Discussion, Ratification and Approval

2.1 Faculty Development Programme attended outstation by faculty

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

Training Attended - Faculty						
Sl. No	**Name Of Faculty**	**Title**	**Date**	**Institution/ Organization Name**	**Advance Amount**	**Expenditure**
1	Remya R S Sabeena K Jyothi R L	Theory of Computational and complexity Theory	6/3/17 to 10/3/17	MFS, Cochin	35000 each	36000 37270 37270
2	Arya Chandran S Binu V P Hariharan R L Niyas S K Leena B R Shamna S S Shani Raj Subeena H Swetha Saira Appose	Big data Analytics and cloud computing	13/3/17 to 17/3/17	MFS, Cochin	35000 each	36825 37640 36825 36825 36825 36825 37270 36825 36825
3	Dr. Ajilkumar A Deepa T R Haseena P Y Jyothi R L Meera Murali Premakumari K R Reji Thankachan Renu K K Sabeena k Smitha P Sylish S V	Quality Enhancement Initiatives in Engg. Educational Institution	27/2/17 to 3/3/17	CE Chenganoor	35000 each	37330 37200 37200 37200 36481 37330 37330 37330 37200 37330 37330

4	Remya R S Libi A Haseena P Y	Research Methodology	20-24 March 17	MNIT Jaipur	20000 each	24939 22947 22947
5	Shiny C Deepa T R Geetha S Revikumar Thampi V R Seena Mathew Meera Murali Aagi A S Sheena S Nowshad	Technology Innovation and Entrepreneurship	20 - 24 March 2017	MFS Ernakulam	35000 each	37270 37110 37240 37270 36845 36845 36845 36845
6	Dr Gpakumar C	National Conference	6-8 Sept 2016	Rajagiri School of Engg. and Technology, Kochi,	----	7500
Total						**1227089**

Action sought: BOG may kindly take note and ratify the expenditure incurred for attending various Faculty Development Programmes attended by the faculty post the last BoG meeting.

2.2 Staff Development Programmes attended outstation by Staff

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

Seminar/ Workshop/ Conference/ Training - Attended - Staff						
Sl. No	**Name Of Faculty**	**Title**	**Date**	**Institution /OrganizationName**	**Adv. Amount**	**Expenditure (Rs)**
1	Vidya J Dr. Anitha D S Sandhya Murali P Sheebamol K K Manoj K Mathew Suresh kumar G	Performance improvement for Institutional development	7 March 17 to 10 March 17	ESCI, Hyderabad	24000 each	26364 26470 26364 26364 26364 26364

	Leena S Anil Kumar V					26364 26364
2	Anilkumar A	Theory of Computational and complexity Theory	6 March 17 to 10 March 17	MFS, Cochin	35000	37450
3	Anilkumar A Dr. Shaji L	Quality Enhancement Initiatives in Engg. Educational Institution	27 Feb 17 to 3 March 17	CE Chenganoor	35000 35000	37330 37330
Total						**323128**

Action Sought: It is requested that the amounts spent for various Staff Development programmes attended by the staff members of the institution after the last BOG meeting may kindly be ratified by the BOG.

2.3 Staff Development Programmes conducted by Staff

Details of in house training conducted for staff members and the expenditure involved are described below

Training Conducted							
Sl. No	Name Of Coordinator	Title	Date	Number of participants		Revenue generated	Expenditure
				Inside	Outside		
1	Sheeba mol K	Performance and quality improvement for administrative staff	25-28 March 17	43	7	1000	63,529
Total							**63,529**

Action sought: BOG may kindly take note and ratify the expenditure incurred for conducting a Staff Development Programme post the last BoG meeting.

2.4 R and D Programmes conducted

The R and D programmes conducted and the related expenditure after the last BoG meeting are given below

R & D Programmes conducted						
Sl. No	**Name Of the Coordinator**	**Title of Program**	**Date**	**Name of Expert Faculty**	**Number of participants**	**Expenditure**
1	Dr. Smitha P	Expert talk on "How to do Research "	17/3/17	Prof. E Gopinathan	Faculty-17 PG Students-59	8,350
2	Dr. Smitha P	RGC Meeting	18/3/17	---	---	37,561
3	Dr. Geetha S	Expert talk on Applied mathematics for research	23/3/17	Prof. V P N Nampoori	Faculty-31 PG Students 39	11,136
Total						**57,047**

RGC Meeting: The fifth RGC meeting was conducted on 18/3/2017 under the Chairmanship of Senior Research Advisor of the Institution, Dr. Gopinathan E, Former Director of NIT Kozhikode in the presence of Dr. Rajkumar Choudhary, Scientist, Space Physics Laboratory, VSSC and Sri. Shajahan M, Scientist, Space Physics Laboratory, VSSC Thiruvananthapuram**.** The progress of the eight proposals submitted by the faculty who had availed seed money from TEQIP has been discussed in the meeting The proposals submitted to the funding agencies are as given below.

S. No	Name of PI	Name of Proposal	Fund requested from External Agency (lakhs)	Name of External Funding Agency
1	DrHari V S	Development of Visualizer for k-spaceMRI Data and the Implementation of Quadratic System for Periphery Detection, De-Noising and Brain Segment Volume Detection	42.57	DeitY

2	Deepa A K	Image processing Techniques for Breast Image Analysis Using Mammograms and MRI Images	25.35	KSCSTE
3	Smitha P	Development of Automated System for IHC Scoring and Nuclear Grading of breast cancer	38.49	DBT
4	Jyothi R L	Hand written character recognition of current and ancient Malayalam fonts	11.07	SERB
5	Remya R S	Automated detection of Acute LymphaticLeukaemia	16.31	KSCSTE
6	Shajy L	Analysis of chromatin texture for the estimation of malignancy associated changes	29.95	KSCSTE
7	Jyothi R L	Offline Hand-Written Character Recognition System to Convert Grantha Script on Ancient Palmleaves to Malayalam Characters	11.07	TDIL
8	Remya R S	Automated video forgery detection	13.57	SERB
		Total	188.38/-	

The minutes of the fifth RGC meeting is given as Annexure 2.

Achievement: Out of the eight proposals submitted, the proposal submitted by Smt Remya R S, Automated detection of Acute Lymphatic Leukaemia is accepted by KSCSTE for a grant of Rs 16.31 Lakhs.

Action sought: BOG may kindly take note and ratify the expenditure incurred for R and D activities post the last BoG meeting.

2.5 Management Capacity Enhancement programme attended

The details of Management Capacity Enhancement programme attended by a faculty and the related expenditure are given below

IMCE						
Sl. No	**Name of Faculty**	**Title of the Program**	**Date**	**Institution/ Organization Name**	**Advance Amount**	**Expenditure**

1	Raju M	Softskill for Interpersonal effectiveness: Attitudes and Skill enhacement	6/3/17 – 9/3/17	IIMK, Kozhikode	65000	67,472
Total						**67,472**

Action sought: It is requested that BOG may kindly take note and ratify the expenditure incurred for Management Capacity Enhancement programme attended by a faculty post the last BoG meeting

2.6 Ratification of IIIC Activities conducted/settled post the last BoG meeting

The IIIC activities conducted by different departments are as given in the following Table.

IIIC activities conducted by different departments								
Sl No	**Branch**	**Name of Program**	**Type of Program**	**Industry Name/ Institution Name**	**Date**	**No. of Days**	**No. of Student Participants**	**Expenditure (Rs)**
1	CSE	Internet Programming - Php	Expert Talk	Tender wood Solution, Bangalore, 2D CVC, Abana, Cochin	1-3 March 2017	3	46	51,039
2	EEE	PLC and Scada	Workshop	Pantech Chennai	16 – 18 March 2017	3	50	34,570
3	ECE	Workshop on MATlab	Workshop	Opzet Solns PVT. Ltd, Ernakulam	16 March 2017	1	40	8,693
4	ECE	Workshop on Internet of things	Workshop	Neo Green Labs, cochin	4 March 2017	1	30	12,761
5	CSE	Introduction to free and open software	Expert Talk	AFL IT Academy, Chennai, Accel IT academy,	14-18 March 2017	5	34	47,220

				Thrissur				
6	CSE	Introduction to web Application development	Expert Tutoring	Seaview Support, Technopark, TVM, Softtex, TVM	10 -11 March 17	2	38	21,360
7	EEE	Simulation software in industry perspective	Workshop	OPZET Solns, Ernakulam, Epsilon Labs, Eklm	6, 8 Feb 2017	2	48	25,455
8	CSE	Laptop and mobile phone servicing	Workshop	P C Engineers, Kottayam	21 March 17	1	38	14,066
Industrial Visit and Internship								
9	CSE	Industrial Visit -B. Tech S4 CSE	Industrial Visit	UL Cyberpark, Kozhikode	11 March 2017	1	Stud -34 Staff -2	18,988
10	EEE	Industrial Visit – S4 EEE	Industrial Visit	Pallivassal Hydro. Ele. Project Dam & Mattupetty Dam	18 Feb 2017	1	Stud -40 Staff -3	30,653
11	CSE	Industrial Visit – S2CSE	Industrial Visit	Sengulam power house & Mattupetty Dam	18 Feb 2017	1	Stud -39 Staff -3	29,194
12	EEE	Industrial Visit – S4 EEE	Industrial Visit	Kudankulam Nuclear Power plant	19 Feb 2016	1	Stud -47 Staff -2	19,515
13	EEE	Industrial Visit – S8 EEE	Industrial Visit	Kuttiyadi hydro electric power plant	24 Mar 2017	1	Stud -45 Staff -2	28,215
14	ECE	Industrial Visit – S2 ECE	Industrial Visit	Pallivassal Hydro. Ele.Power station	4 Mar 17	1	Stud -32 Staff -2	19,590
15	CSE	Industrial Visit -B. Tech S6 CSE/IT	Industrial Visit	UL Cyberpark, Kozhikode	17 March 2017	1	Stud -45 Staff -2	24,426

16	EEE	Industrial Visit -B. Tech S2 EEE	Industrial Visit	Pallivassal Hydro. Ele.Power station	18 Feb 2017	1	Stud -42 Staff -2	28,116
17	EEE	Industrial Visit -B. Tech S6 EEE	Industrial Visit	Kuttiyadi Power Plant	17 March 2017	1	Stud -45 Staff -3	27,456
18	EEE	Industrial Training - S6 EEE	Industrial Training	Malankara small hydro power station	24 -29 June 2016	6	4	3,060
19	EEE	Internship - Btech S2 EEE	Internship	KEL Kundara	25-30 June 2016	6	5	1,845
20	EEE	Internship - Btech S2 EEE	Internship	KEL Kundara	21-26 July 2016	5	1	369
21	EEE	Internship - Btech S2 EEE	Internship	KEL Kundara	18-22 July 2016	5	4	1,476
22	EEE	Internship - Btech S2 EEE	Internship	IRE Chavara	25-29 July 2016	5	5	1,475
23	EEE	Internship - Btech S2 EEE	Internship	IRE Chavara	19-23 July 2016	5	4	1,180
24	EEE	Internship - Btech S2 EEE	Internship	IRE Chavara	20-24 July 2016	5	5	1,475
25	EEE	Internship - S8 EEE	Internship	Kudamkulam nuclear power plant	23 -27 May 2016	5	9	13701
26	EEE	Internship – S8 EEE	Internship	Kakkad power station	26 -30 Dec 16	5	9	3,402
27	CSE	Internship – S4 CSE	Internship	White Oval, Tec.,Technopark TVM,	18 – 28 June 16	11	8	3,910
				IRE Chavara	20 – 24 June 16	5	15	4,331
				KELTRON Kozhikode	21 June – 7 July 16	17	1	1,128

				KELTRON Kannur	20 – 26 June 16	6	2	1,760
				AIPCT Cochin	11 – 25 June 16	14	2	1,722
Total								**4,82,151**

Action sought: The BoG may kindly take note and ratify the expenditure of Rs. **4,82,151/-** for the programmes conducted under IIIC

2.7 Ratification of accreditation fee paid for two PG Programmes

The institution has remitted the fees for NBA accreditation as per the requirements of TEQIP-II for the two PG Programmes that are eligible to apply for accreditation. The details of the fee paid are given below. The copy of the fee receipt is given as Annexure 3

Sl No	Name of PG Programme	Department	Amount paid (Rs)
1	M.Tech in Signal Processing	Electronics and Communication Engineering	5,75,000
2	M.Tech in Image Processing	Computer Science and Engineering	2,30,000
Total			**8,05,000**

Action sought: The BoG may kindly take note and ratify the expenditure of Rs. **8,05,000** for the accreditation fee paid for two PG Programmes programmes

2.8 Ratification of programmes conducted under students support

Soft Skill Training Programme conducted

Soft Skill Training programmes were conducted for all the batches of students. The details of the programmes conducted and the expenditure details are given below.

Programmes conducted

Sl No	Class	Name of the Programme	Number of days	Date	Expenditure
1	S6 BTech CS and IT	Getting ready for placement	5	3,4,5,10,11 Feb 2017	51,656
2	S6 BTech EEE	Getting ready for placement	5	3,4,5,10,11 Feb 17	53,882
3	S6 BTech ECE	Getting ready for placement	5	3,4,5,10,11 Feb 17	55,461
4	Final year B Tech EEE, EC, CS	Aptitude test Training	4	20, 21, 25, 26 Feb 2017	1,29,555
5	M Tech First Year CS and EC	Aptitude test Training	4	20, 21, 25, 26 Feb 2017	90,367
6	S6 BTech CSE	Motivation and counselling	2	26 , 27 Feb 2017	12,840
7	First year BTech EEE	Motivation and counselling	2	17, 18 Feb 17	22,,574
8	BTtech S8 CSE	Soft skill training	2	22 March 17-23 March 17	20,200
9	BTech S4 CS	Soft skill training	2	22 March 17-23 March 17	20,140
10	BTech S6 EEE	Project oriented training programme	3	20,22,27 Feb 2017	40,010
Total					**4,96,685**

Action sought: The BoG may kindly take note and ratify the expenditure of Rs. 4,96,685 for the Soft Skill Training Programme conducted under students support.

2.9 Expenditure incurred under IOC-Ratification

The expenditure incurred under IOC post the last BOG meeting is Rs**. 3,41,899**/-. This amount is due to Salaries of TEQIP staff, Consumables purchased for TEQIP cell and other departments, and Operation and Maintenance charges. The details are given in the table below.

Table: Expenditure incurred under IOC

Sl. No	Item	Amount (Rs)
1	Salary for TEQIP Staff	2,43,659
2	Consumables	
	(a) Purchase of toner catridge	1,600
	(b) Purchase of First aid items for Mechanical workshop	998
	(c) Purchase of wooden pieces for for Mechanical workshop	10,018
	(d) Battery Water	3,200
3	Operation and Maintenance	
	(a) BOG 11	31,082
	(b) Repairing charge - AC	4,800
	c) Post Procurement Review Meeting	46,542
Total		**3,41,899**

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

Part 3

Reports

3.1 Summary of Expenditure as on 27 July 2017

The summary of expenditure as on 27.07.2017 is as below.

Total Fund Received: Rs.1000 Lakhs, Interest accrued: Rs 16.17 Lakhs

Sr.No.	Expenditure Name	Expenditure Upto 28th Feb 2017 (Rs in Lakhs)	Expenditure From 1 March 2017 – 27th July 2017 (Rs in Lakhs)	Cumulative Expenditure upto 27th July 2017 (Rs in Lakhs)
1	Procurement	557.79	0	557.79
2	Providing Assistantships for Increased enrolment in existing and new PG Programmes in Engineering Disciplines	135.74	5.15	140.89
3	Enhancement of Research and Development and Institutional Consultancy Activities	20.86	0.57	21.43
4	Faculty and staff development for improved competence based on Training Needs Analysis(TNA)	157.19	16.14	173.33
5	Enhanced Interaction with Industry	11.68	4.73	16.41
6	Institutional Management Capacity enhancement	6.65	0.67	7.32
7	Implementation of Institutional reforms	8.99	8.05	17.04
8	Academic support for weak students	15.59	4.84	20.43
9	Incremental Operating Cost	56.38	4.05	60.43
Total		**970.87**	**44.2**	**1015.07**

The detailed expenditure status is as given in the Table below.

Category of expenditure (Head of expenditure)	Sub-Activity	Cumulative Exp. Up to 27.07.2017	Committed Exp. for the remaining period upto (31.07.2017)	Total cumulative expenditure upto 31.07.2017
(1)	**(2)**	**(3)**	**(4)**	**(5 = 3 + 4)**
Procurement	Expenditure on ICT enabled learning, related softwares & hardware.	0.00		0.00
	Expenditure on New laboratory for new PG programs	3.49		3.49
	Expenditure on New laboratory for existing PG programs	64.26		64.26
	Expenditure on Existing laboratories modernized/Strengthened	233.20		233.20
	Expenditure on Library i.e. books, e-books, journals, e-journals course specific softwares	52.65		52.65
	Expenditure on membership of online journals & consortium	0.00		0.00
	Expenditure on digitally/virtually accessible courses/subjects	0.00		0.00
	Expenditure on Modernising Classrooms	12.97		12.97
	Expenditure on Procurement of Equipments etc. for Institutes/ TEQIP unit.	143.35		143.35
	Expenditure on Civil Work	47.86		47.86
	Others. (Specify if Material)	0.00		0.00
Total		**557.79**	**0.00**	**557.79**
Assistantships	Expenditure on Masters students enrolled with TEQIP teaching assistantship	140.89	0.0	140.89
	Expenditure on PhD Students enrolled with TEQIP research assistantship	0.00		0.00
	Others. (Specify if Material)	0.00		0.00
Total		**140.89**	**0.0**	**140.89**
R&D	Expenditure incurred on Research projects taken by UG/ PG students	0.00		0.00
	Expenditure incured on research publications in engineering in refered journals	0.34		0.34
	Expenditure on Organising Conferences for R & D Topics	13.81		13.81
	Expenditure on Patenting of Research Products	0.00		0.00
	Others. (Specify if Material)	7.27		7.27

Total		**21.43**	**0.00**	**21.43**
FSD	Expenditure on Faculty with B Tech enrolled for M Tech against total B Tech faculty	2.52		2.52
	Expenditure on Faculty with M Tech enrolled for PhD in engineering against total M Tech faculty	2.80		2.80
	Expenditure on faculty members attended training in subject domain	109.03		109.03
	Expenditure on faculty members attended pedagogical training	5.81		5.81
	Expenditure on organising inhouse subject area training Programs/ Workshops/ seminars / conferences / continuing education programs.	29.19		29.19
	Expenditure on paticipation by faculty in Seminar/ Confrences/ workshop etc.	14.41	0.0	14.41
	Expenditure on staff development	9.38		9.38
	Others. (Specify if Material)	0.19		0.19
Total		**173.33**	**0.0**	**173.33**
I-I-I- Cells	Expenditure on academic Programs i.e. MTech/PhD etc. with industry	0.00		0.00
	Expenditure on short term programs with industry	8.44		8.44
	Expenditure on academic networking with other institutions	0.00		0.00
	Expenditure incurred on Campus placements (UG & PG)	0.00		0.00
	Expenditure on UG Students attended industrial internship	0.72	0.0	0.72
	Others. (Specify if Material)	7.25	0	7.25
Total		**16.41**	**0**	**16.41**
Capacity Development	Expenditure on Sr. Officials & Sr. faculty attended management development training	6.41		6.41
	Others. (Specify if Material)	0.91		0.91
Total		**7.32**	**0.00**	**7.32**
Reforms	Expenditure on accredition fee for NBA	17.04		17.04
	Expenditure incurred on Autonomous Institution status concurred by UGC	0.00		0.00
	Expenditure on Curricula revision/restructuring	0.00		0.00
	Others. (Specify if Material)	0.00		0.00
Total		**17.04**	**0.00**	**17.04**

Student support	Expenditure on students transition from first year to second year of UG Programs (clearing all subjects /courses of 1st year in first attempt)	3.95		3.95
	Others. (Specify if Material)	16.49	0	16.49
Total		**20.43**	**0**	**20.43**
IOC		60.43	1.1	61.53
Grand Total		**1015.07**	**1.1**	**1016.17**

Action Sought: BOG may kindly take note of the expenditure under various heads.

3.2 Report on Staff Student Satisfaction Survey

NPIU and MHRD had conducted the second round of Web based Student, Faculty and Staff satisfaction survey of the implementation of TEQIP II activities in the Institutions in DEC 2016. The compiled reports of the satisfaction survey were shared with the Institutions. This report contains the Student, Faculty and Staff's satisfaction level of the institute and that is compared with State and National satisfaction indices. The detailed report sent by NPIU is attached as **Annexure 4**.

Action Sought: BOG may kindly take note of the report

3.3 Approval of Project Completion report

SPFU asked the TEQIP institutions to submit the TEQIP project completion report in the prescribed format after ratifying all the expenditure incurred while implementing the project by the BoG. A draft report in the prescribed format is attached as Annexure 5.

Action sought: The BG is requested to kindly discuss the report and approve it.

Part 4

Any Other item with the permission of the chair

TECHNICAL EDUCATION QUALITY IMPROVEMENT

PROGRAMME Phase II Sub Component 1.1

11th Meeting of the Board of Governors

Minutes

6th March 2017, 10.00 am

Venue: Principal's Chamber, College of Engineering Karunagappally

COLLEGE OF ENGINEERING KARUNAGAPPALLY

THODIYOOR P.O., KOLLAM-690523, KERALA

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Minutes of Eleventh Meeting of Board of Governors

Presided by

Hon'ble Chairman: Prof. V.P.N. Nampoori

Venue: Office of the Principal
Date: 6 March 2017 **Time:** 10.00 AM

Members Present

1. Prof (Dr) V.P.N Nampoori, Chairman
2. Prof.(Dr). Suresh Kumar.P, Director, IHRD
3. Mr. James Joseph, Jt. Sec. Finance, Government of Kerala (State Govt Nominee)
4. Prof (Dr). Jaya V L, Principal
5. Dr. AjilKumar.A, HOD, ME, Member
6. Prof. Manoj Ray D, Member

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

1. Prof. (Dr) V P Devassia, Principal, Model Engineering College
2. Mr. Angelose, Joint Sec., H.Edn, Government of Kerala (State Govt Nominee)
3. Dr. S. Jayakumar**,** Director, SPFU (Special invitee)
4. Dr. Sam Thomas, CUSAT (University Nominee)

Also present

1. Prof. Binu V.P, HOD, Computer Science and Engineering
2. Dr. Smitha P, HOD Information Technology
3. Prof. Libi A, HOD Electrical and Electronics Engineering
4. Prof. Reji Thankachan, Academic Coordinator
5. Prof. Sylish S. V, Procurement Coordinator
6. Prof. Baiju V, III Cell Coordinator
7. Prof. Premakumari K.R, EAP Coordinator
8. Dr. Shajy L, Finance Coordinator

Agenda Summary

Part 1-Procedural

Sl. No	Items
1.1	Confirming the Minutes of the 10th Meeting of the Board of Governors held on 04-02-2017 at College of Engineering Karunagappally
1.2	Report on the action taken/action pending on the pertinent decisions in the Minutes of the 10th Meeting of the Board of Governors held on 04-02-2017 at College of Engineering Karunagappally

Part 2-Ratifications and Approvals

Sl. No	Items
2.1	Expenditure incurred for procurement of goods/civil works and price revisions of various completed packages
2.2	Procurement in Progress
2.3	Faculty and Staff Development Programme/Workshop/Seminar attended outstation by faculty
2.4	Approval of Reimbursement of fee for PhD/MTech and Journal Publication
2.5	Reimbursement of expenditure in attending National Conference
2.6	Approval of the action plan for inhouse/outstation programmes for faculty and staff for the month of March
2.7	Approval for Colloquium on Research in Computing Innovations
2.8	Ratification of IIIC Activities conducted/settled post the last BoG meeting
2.9	Approval of action plan of IIIC activities for March
2.10	Ratification of programmes conducted under students support
2.11	Action Plan for the Programmes Under students support for the month of March
2.12	Approval for Conducting Campus Placement under TEQIP
2.13	Approval for Vision and Mission of the Institution and different departments
2.14	Expenditure incurred under IOC-Ratification

Part 3-Reports

Sl. No	Items
3.1	Summary of Expenditure as on 28 February 2017
3.2	Report on Staff Student Satisfaction Survey

The Meeting started at 10.00.AM under the presidency of the Hon'ble Chairman with a silent prayer followed by welcome address by the Principal.

Principal Dr Jaya V L welcomed all the members and special invitees. A brief report was made by the Principal on the various activities related to TEQIP and development in the college as the impact of these activities. She also provided a brief report about the agenda of the meeting.

The BoG congratulated the Institution, for securing top position among IHRD colleges and fifth position among 19 TEQIP project institutions in the review conducted by SPFU on 17th Feb 2017, as reported by IHRD Director.

Part 1
Procedural Items

1.1 Confirmation of the Minutes of the 10th Meeting of the Board of Governors held on 04-02-2017 at CE Karunagappally

The Minutes of the 10th Meeting of Board of Governors of TEQIP Phase II of CE Karunagappally held on 04-02-17 was sent to the Chairman for his approval and upon his approval copies were circulated among the other members of the BoG. Based on the discussions, the Board of Governors confirmed the approved minutes of the BOG meeting held on 04-02-17.

1.2 Report on the action taken/action pending on the pertinent decisions in the Minutes of the 10th Meeting of the Board of Governors held on 04-02-2017 at CE Karunagappally

The following are the pertinent decisions taken and actions taken by CE Karunagappally post the BoG meeting held on 04-02-2017

Table 1.1

Item No in Minutes of the 10th BOG	Decision Taken	Action Taken
1.1	The BoG confirmed the approved minutes of the 9th Meeting	For Information
1.2	Took note of the action taken report and approved	For Information
2.1	BoG ratified the payment of Rs.1,23,000/- towards the payment of one completed procurement package and approved the price revisions and took note of the procurement in progress	No action needed Five more packages have been completed
2.2	The BOG took note and ratified the expenditure in conducting the Faculty Development Programmes	No action needed
2.3	The BOG took note and ratified the expenditure in conducting the Staff Development Programme for Rs.67,639	No action needed
2.4	The BOG took note and ratified the expenditure incurred for attending various Faculty Development and Staff Development Programmes	No action needed
2.5	The BOG took note and ratified the payment of reimbursement of tuition fee for M.Tech programme	For Information
2.6	The BoG approved for reimbursement of IEEE fee, Rs.16080 to 5 faculty members .	The payment has been done
2.7	The BOG approved the proposals for the outstation programmes for the next two months	Faculty attended training programmes at various institutes like IITs and NITs
2.8	The BoG noted and ratified the expenditure for IIIC activities conducted in the Institution. Also approved the IIIC plan for the next two months.	No action needed Conducted 10 IIIC programmes
2.9	The BOG took note and ratified the payment towards the remuneration paid to the resource persons for the remedial and other programmes under EAP	No action needed
2.10	The BOG approved the action plan for remedial classes and the soft skill training programme planned for the next two months.	Conducted soft skill training programmes for all UG and PG classes (for14 Classes)
2.11	The BOG may took note and ratified the payment under IOC head	No action needed

2.12	The BOG pointed out to relook into the proposed Vision and Mission statements	The Vision and Mission statements are revised
2.13	The BoG decided to address the issue of purchasing display boards to the SPFU Director and proceed to procure the same under IOC	The purchase has been started
2.14	The BoG ratified the revised remuneration and the arrears paid to the MIS Officer	No action needed
3.1	The BOG took note of the expenditure under various heads	No action needed
3.2	The BoG took note of the results of BTech and MTech students	No action needed
3.3	The BOG took note of the report on accreditation.	No action needed
3.4	The BOG took note of the internal audit report	No action needed
4.1	BoG took note of the status of four funds	No action needed
4.2	BoG approved the action plan of outstation training programme of CS Department	13 Faculty attended outstation training programmes
4.3	The BoG approved the plan to attend the SDP at ESCI	8 staff members registered for the programme
4.4	The BoG approved the IIIC action plan of CS Dept	3 IIIC programmes were conducted
4.5	The BoG took note of the action plan for the remaining two months and approved it. The BoG also ratified and approved the allocations made in different heads of expenditure	The action Plan has been followed

Decision: The BOG members analyzed and approved the actions taken by the College based upon the decisions made in the BOG meeting held on 04-02-2017

Part 2
Discussion, Ratification and Approval

2.1 Expenditure incurred for procurement of goods/civil works and price revisions of various completed packages

The packages completed post the tenth BOG meeting are detailed below

Table 2.1. Details of Completed Packages Post the 10th BOG meeting

Sl. No	Package No.	Package Name	Mode of purchase	Firm	Estimated Amount (Rs)	Actual Amount (Rs)	% Variation
1	TEQIP-II/KL/KL1G 18/216	Digital Multimeter	Direct Contract	Netwatch Systems, Pala Kottayam	50,000	49922	0.16
2	TEQIP-II/KL/KL1G 18/217	Ultraviolet exposing unit for PCB	Direct Contract	Netcom Infosys Ernakulam	25,000	24000	4
3	TEQIP-II/KL/KL1G 18/218	Digital clamp power meter with storage	Direct Contract	Netwatch Systems Pala Kottayam	25,000	31201	-24.8
4	TEQIP-II/KL/KL1G 18/220	Dumpy level	Direct Contract	Facet Technologies Thiruvananthapuram	25,000	23625	5.5
5	TEQIP-II/KL/KL1G 18/180	Electrical works in Library, office & EEE computer Lab	Shopping	Monys Electricals Contractors, Karunagappally	79,000	90455	-14.5
					Total	**219203**	

Discussion: BOG members enquired about the price variation seen in the packages TEQIP/11/KL/KL1G18/218 and TEQIP/11/KL/KL1G18/180. The Procurement Coordinator, Mr. Sylish said that for the package TEQIP/11/KL/KL1G18/218, the estimated cost was finalised after contacting different firms and verifying the rate available in the web site of different firms. But when quotation was received, the rate was found to be higher. The package TEQIP/11/KL/KL1G18/180 is a civil work package and the rate quoted was 14.5% more than the estimated cost which was the lowest rate quoted.

Decision: BoG ratified the payment of Rs. **2,19,203**/- towards the payment of five completed procurement packages and approved the price revisions.

2.2 Procurement in progress

The details of packages in progress are given below

Table 2.2 Packages in progress

Sl. No	Package No.	Package Name	Mode of purchase	Estimated Amount (Rs)	Status
1	TEQIP-II/KL/KL1G18/219	Distilled Water Plant	Shopping	**60000**	Initiated

Decision: The BOG took note of the procurement in progress.

2.3 Faculty and Staff Development Programme/Workshop/Seminar attended outstation by faculty

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

Training Attended - Faculty						
Sl. No	**Name Of Faculty**	**Title**	**Date**	**Institution/ Organization Name**	**Advance Amount**	**Expenditure**
1	C V Anilkumar Leena B R Shamna S S Niyas S K Seena Mathew Radhika R Chandran	FDP on Semiconductor Devices from Micro to Nano	30 Jan-3Feb 2017	Model Engineering college, Thrikkakara	35000 each	38050 36970 36970 36900 36970 36970
2	Binu V P Shani Raj	Introduction to Cryptography	27 Jan 2017 31 Jan 2017	IIT Kharaghpur	-	22469 21681
3	Dr. Smitha P Dr. Shajy L	Fundamantal Algorithms : Design and Analysis	09 Feb 2017 13 Feb 2017	IIT Kharaghpur	15000 each	20957 15243
4	Haseena P Y Manu Madhavan Shamna S S Leena B R Geetha S	Road map to Research in Electrical and electronics and computing	13 Feb 2017 17 Feb 2017	CE Poonjar	35000 each	37472 37061 37061 37061 37472

5	Aagi S Deepa T R Dr. Hari V S Raju M Reji Thankachan Shani Raj Shiny C Dr. C Gopakumar	An insight into DSP	06 Feb 2017 10 Feb 2017	CE Kottarakkara	35000 each	35000 35000 35000 35736 35000 35000 35000 35000
6	Arya Chandran S Binu V P Deepthi P K Hariharan R L Niyas S K Subeena H Swetha Saira Appose Shani Raj	Internet of Things	20-24 Feb 2017	MFS Kochi	35000 each	36825 37640 36825 36825 36825 36825 36825 37240
7	Raju M	Power Quality challenges with RE integration in	23-24 Feb 2017	CPRI Bangalore	10000	16020
Total						**10,81,893**

Decision: The BOG took note and ratified the expenditure incurred for attending various Faculty Development Programmes by the faculty post the last BoG meeting as per rules. The BoG directed the institution to ensure that all faculty and staff attend programmes equally rather than sending some faculty and staff frequently.

2.3.2 Staff Development Programmes attended outstation by Staff

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

Seminar/ Workshop/ Conference/ Training - Attended - Staff						
Sl. No	**Name Of Faculty**	**Title**	**Date**	**Institution/ Organizatio nName**	**Advanc e Amount**	**Expendit ure (Rs)**

1	Abinlal D Nithin K V	Hands on experience in Laptop chip level	20 Feb 2017 – 22 Feb 2017	CE Cherthala		3969 3969
Total						**7938**
1	Vidya J Dr. Anitha D S Sandhya Murali P Sheebamol K K Manoj K Mathew Suresh kumar G Leena S Anil Kumar V	Performance improvement for Institutional development	7 -10 March 2017	ESCI, Hyderabad	24000 each	Not Settled. (course under progress)

Decision: The BOG took note and approved the expenditure incurred for attending various Staff Development Programmes by the staff post the last BoG meeting as per rules.

2.4 Approval of Reimbursement of fee for PhD/MTech programme.

Mr.Raju M, Assistant Professor in EEE submitted a request for the reimbursement of fee for his fourth year part time PhD programme for the year Jan-Dec 2017 he is undergoing at Karpagam University for an amount of Rs. 29,000/-.

Discussion: BoG discussed the request submitted by Mr.Raju M, Assistant Professor in EEE for the reimbursement of fee for his fourth year part time PhD programme. Respected BoG member Mr. James Joseph enquired about the credibility of Karpagam University. Dr Suresh Kumar P insisted the need for evaluating the progress of work before reimbursing the amount. He also said that Mr. Raju should obtain PhD from the same University by completing his work since he had availed the tuition fee reimbursement for the last three years The Hon'ble Chairman Prof.V.P.N.Nampoori suggested to collect the details of publications by Mr.Raju and reimburse the fee.

Decision: The BoG decided to reimburse the amount after proper evaluation of the progress of work.

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2.5 Reimbursement of expenditure in attending National Conference

Dr. Gopakumar C, Assistant Professor in EC has submitted a request for reimbursing the expenditure incurred, Rs 7500, for presenting the paper "A Novel J Slot Antenna for UWB Wi Media", in the National Conference, ICACC 2016 held during 6-8 Sept 2016 at Rajagiri School of Engineering and Technology, Kochi, (Published in Science Direct)

Decision: The BOG approved for reimbursement of the expenditure as per rules.

2.6 Approval of the action plan for inhouse/outstation programmes for faculty and staff for the month of March

The action plan of inhouse/outstation training programmes planned for the current month is shown in the following Table. The list is prepared based on the courses declared by various institutions.

Sl No	Name of Course	Inhouse/ Outstation Programme	Number of Faculty/ Staff	Name of Institution	Date	Expected Expenditure (Rs)
1	Quality enhancement initiatives in engineering educational institutions	Outstation	13	CE Chengannur	27Feb-3March	4,84,000
2	Theory of Computation and Complexity Theory	Outstation	4	Model Engg College	6-10 March	1,48,000
3	Performance Improvement for Institutional Development	Outstation	8	ESCI	7-10 March	1,97,600
4	Low power devices	Outstation	6	MFS Kochi	13-17 March	2,19,000
	Computer Servicing and Maintenance	Inhouse	-	In house SDP	20-23 March	60,000
5	Time Management and Interpersonal Relationship	Inhouse	-	In house SDP	25,27,28 March	50,000
6	Technology, Innovation & Entrepreneurship	Outstation	8	Model Engg College	20-24 March	2,92,000
				Total		**14,50,600**

Decision: The BOG approved the proposals for the inhouse/outstation programmes for the current month.

2.7 Approval for Colloquium on Research in Computing Innovations

The Department of Computer Science and Engineering has submitted a proposal to conduct a Colloquium on Research in Computing Innovations during 24-25 March 2017. The objective of this colloquium is to provide a platform for interaction and knowledge exchange between eminent researchers, faculty, research scholars, post graduate students and engineers working in various areas of Computer Science and Engineering. The programme also aims to give an exposure to the trends, issues and challenges in the different areas of Computer Science and Engineering and to orient young researchers to take up effective research in these areas. Eminent Faculty and Researchers from various nationally reputed institutes such as IIT Khargpur, IIT Delhi, IIT Guwahati, IIT Mumbai, IIT Bhuvaneswar, MNIT Jaipur etc will deliver the research topics and participate in the interactions. It is expected that 100 participants will participate in the Colloquium. The approximate expenditure expected is Rs. 4,00,000. The BoG was requested to approve the Colloquium.

Discussion: BOG members discussed the plan and appreciated the efforts. They discussed about the topics and venue of Research Colloquium. TEQIP coordinator explained that different areas in Computer Science in general and Image Processing in particular will be discussed in the Colloquium. Expected expenditure is about 4 lakhs and the venue is outside college at Karunagappally.

Decision: The BoG approved for the Colloquium.

2.8 Ratification of IIIC Activities conducted/settled post the last BoG meeting

The IIIC activities conducted by different departments are as given in the following Table.

Table IIIC activities conducted by different departments

Sl No	Branch	Name of Program	Type of Program	Industry Name/ Institution Name	Date	No. of Days	No. of Student Participants	Expenditure (Rs)
1	CSE	Web development using JSP	Expert Tutoring	TECH- Support, Chennai AFL IT, Chennai Accel Frontline, Calicut	8-9 Feb 2017	2	48	27275
2	ECE	Advanced Technology solution Tips provided to customers in IT industries	Expert Talk	TCS, Ernakulam	5 Feb 2017	1	46	5750

3	ECE	Internet of Things	Workshop	Early Bird Security System and Automation Ltd. , TVM	7 Feb 2017	1	42	13336
4	ECE, EEE	Micro controller	Workshop	Neo Green Labs, Cochin	4 Feb 2017	1	30	12620
5	S8 ECE	Industrial Visit to Lower Periyar power house, Karimanal	Industrial Visit	Lower Periyar power house, Karimanal	18 Feb 2017	1	43(Stud) 2 (Staff)	30185
6	S6 ECE	Industrial Visit to FCRI	Industrial Visit	Kanjicode, Palakkad	12 March 2016	1	42(Stud) 2 (Staff)	37502
7	ECE	SFO, Kochi	Industrial Visit	SFO, Kochi	25 Feb 2017	1	11 (Faculty)	20516
8	S8 CSE, IT	Industrial Visit to Cyber Park, Kozhicode	Industrial Visit	Cyber Park, Kozhicode	17 Feb 2017	1	38(Stud) 2 (Staff)	37705
9	S6 ECE	ITI limited , Palakkad	Industrial Visit	ITI limited , Palakkad	18 Feb 2017	1	41(Stud) 2 (Staff)	35394
10	ECE	Keltron, AIR Tvm, RTTC, KMML	Internship	RTTC, Tvm KMML, Chavara KELTRON, Calicut AIR, TVM	May - June 2016	-	Btech S6 ECE (45 (Students)	31477
Total								**251760**
IIIC activities conducted but not settled								
	CSE	Internet Programming - Php	Expert Talk	Tender wood Solution, Bangalore, Wedo Wood soln, Cochin	1,2,3 March 2017	3	46	Advance 30,000
	EEE	Project oriented training	Project oriented training	Ofzet, Ernakulam	20,22,27 Feb 2017	3	48	Not settled

	EEE	PLC and Scada	Workshop	Pantech Chennai	Feb 2017	2	45	Advance 15,000
	EEE	Simulation software in industry perspective	Training	Technocity, Ernakulam	6, 8 Feb 2017	2	48	Advance 25,000 (Not settled)

Discussion: Dr. Suresh Kumar P asked about the lodging and boarding charges paid to the students and clarified as 250 per day as per the BoG decision taken early. For industrial visit, only one day is permitted with Rs.50 for refreshment and additional amount for bus fare. The BoG discussed about the Industrial visit by faculty to NeST Kochi. The Hon'ble Chairman Prof.V.P.N. Nampoori mentioned about the reputation of Photonics lab at CUSAT, which is considered as the best Photonics lab in Asia. He said the need for visiting such places as part of Industrial Visit to generate interest among students and faculty.

Decision: The BoG took note and ratified the expenditure of Rs.2,51,760/- and the other four programmes conducted under IIIC.

2.9. Approval of action plan of IIIC activities for March

The modified proposal of IIIC activities planned for the current month by the Electrical department is given in the following Table.

Table : IIIC for the month of March 2017- CS Dept

Sl No	Name of Lecture	Expert/Industry involved	No of days	Proposed days	Target UG/ PG	No of students	Expected Expense
1	Web Designing	Seaview Support System Pvt. Ltd. Technopark	3	Feb-17	UG	50	30,000
2	Image processing Using PYTHON	Softtex digital private limited Technopark	2	Mar-17	UG	50	20,000
3	Big Data Analytics with Hadoop	Technopark	1	Mar-17	UG	50	10,000
				Total			**60,000**

IIIC Programs planned by Electrical & Electronics department during February – March 2017 (Committed)					
No	Activity	Name of Expert/Field	Institution	Month /Year	Expenditure (`Rs)

1	STTP in collaboration with Industry	Transformer Testing & Protection	TELK	Mar 2017	20000
2	Expert lecture	Renewable Energy	ANERT	Mar 2017	6500
3	Expert lecture	Energy Auditing	Energy Management Cell	Mar 2017	6500
4	Expert lecture	Switch Gear & Protection	KSEB	Mar 2017	6500
5	2 days Workshop	Design Estimation & Costing	Electrical Inspectorate	Mar 2017	20000
6	Internship		Different Industries	June 2016	25000
7	Industrial Visit	IV to Lower Periyar power house, Karimanal	Lower Periyar power house, Karimanal	Feb 17	30000
Total					**114500**

EC Dept: Industry Institute Interaction Activities planned

Sl. No	Name of Programme	Program Type	Class	Industry Name / Instn Name	Date (mm-yy)	No of Days	Expenditure(Approx)Rs
1	workshop on "PCB Making"	workshop	S4EC	SFO Technology, Kochi	Mar-17	1	10,000
2	Workshop on "Laptop and Mobile servicing"	workshop	S6EC	PC Engineers Kottayam	Mar-17	1	10,000
3	Expert Talk on " Cellular Communication"	Expert Lecture	S2EC	BSNL	Mar-17	1	5,000
4	Expert Talk on " Entrepreneurship Development"	Expert Lecture	S8EC	Mr.Adarsh V K, Union Bank of India	Mar-17	1	5,000
5	Lower Periyar power house, Karimanal	Industrial Visit	S2EC	Lower Periyar power house, Karimanal	4 March 17	1	30000

Total (Rs)							**60,000**

Decision: The BOG approved the action plan under IIIC cell for the current month.

2.10 Ratification of programmes conducted under students support

Soft Skill Training Programme conducted

Soft Skill Training programmes were conducted for all the batches of students. The details of the programmes conducted and the expenditure details are given below.

Programmes conducted and settled					
Sl. No.	**Year & Branch**	**Programme**	**No. of Days**	**Date**	**Expenditure (Rs)**
1	S4 BTech EEE, ECE and CS/ IT	Soft skill training	4	15/2/2017 to 18/2/2017	123719
2	S2 BTech EEE, ECE and CS/ IT	Orientation Programme for placement	4	15/2/2017 to 18/2/2017	100380
Total					**2,24,099**
Programmes conducted and to be settled					
1	S6 BTech CS and IT	Getting ready for placement	5	3,4,5,10,11 Feb 2017	Advance 40,000
2	S6 BTech EEE	Getting ready for placement	5	3,4,5,10,11 Feb 17	Advance 45,000
3	S6 BTech ECE	Getting ready for placement	5	3,4,5,10,11 Feb 17	Advance 45,000
4	Final year BTech EEE, EC, CS	Aptitude test Training	4	20, 21, 25, 26 Feb 2017	Expected-Rs 110000
5	MTech First Year CS and EC	Aptitude test Training	4	20, 21, 25, 26 Feb 2017	Expected-Rs 25000
6	MTech Second Year CS and EC	Aptitude test Training	4	20, 21, 25, 26 Feb	Expected-Rs 25000

				2017	
Total to be settled					**290000**

Discussin: TEQIP coordinator informed that soft skill training programs were conducted for all the PG & UG students and an amount of Rs.2.24 lakhs was spent and about Rs.2.9 lakhs to be settled under this head. Mr James Joseph enquired about the response of students for this programme. He emphasized the need for developing professionalism and learning culture in campus. He insisted the need of 'Role Models' among faculty so as to propagate the message among students. Principal Dr Jaya V L accepted the suggestions and assured to provide better environment and training for 1st year students so as develop a proper thinking and working culture among them. Respected members stressed the need for giving test to assess the students before giving bridge courses so that students will also get an opportunity to evaluate themselves. They also stressed the need for group learning, dividing students into groups of evenly distributed sections.

The Hon'ble Chairman Prof.V.P.N.Nampoori opined that along with uplifting the weak students ample opportunities must be provided to bright students to express their potential. Prof.V.P.N.Nampoori proposed to have an orientation class on Applied Mathematics for both students and faculty.

Decision: The BOG took note and ratified the payment towards conducting Soft Skill Training and asked to settle the other programmes conducted immediately.
Also decided to conduct an expert talk on Applied Mathematics for both students and faculty

2.11 Action Plan for the Programmes Under students support for the month of March

The action plan for soft skill training and remedial classes are given in the following sub-sections.

2.11.1 Soft Skill Training Programmes for the current month

The softskill training programmes planned for the current month is as given below:

Sl No	Title of the programme	Target group	No of Days	Proposed dates	Estimated Expenditure (Rs)
1	Aptitude training	BTech Third Year CS/IT, EE, EC	3	March 2017	90000
2	Aptitude training	BTech Final Year CS/IT, EE, EC	3	March 2017	90000
3	Aptitude training	BTech Second Year CS,EC & EE	2	March 2017	75000
4	Aptitude training	B-tech First Year CS,EC & EE	2	March 2017	75000
5	Soft skill Training	MTech First &	3	March 2017	70000

		Second Year CS,EC			
Total					**400000**

2.11.2 Remedial Classes Planned for the current month

REMEDIAL CLASSES PLANNED -MARCH 2017 CS DEPT			
Semester	**Subject**	**Hours**	**Expected expenditure in Rs**
IVCS	Mathematics	4	2400
IVCS	Operating System	4	2400
IVCS	Object oriented Design and Programming	4	2400
IVCS	Computer Organisation and Architecture	4	2400
IICS	C programming	4	2400
IICS	Enginnering Graphics	4	2400
IICS	Basics Electronics	4	2400
IICS	Differential Equations	4	2400
	TOTAL	**32**	**19,200**
Remedial Classes Planned for EEE Department			
Semester	**Subject**	**Hrs**	**Amount**
IVEE	Probability Distribution ,Transforms & Numerical Methods	4	2400
IVEE	Synchronous & Induction Machines	4	2400
IVEE	Digital Electronics & Logic Design	4	2400
IVEE	Material Science	3	1800
IVEE	Measurements & Instrumentation	3	1800
II EE	Differential Equations	4	2400
II EE	Engineering Mechanics	4	2400
II EE	Basics of Electronics Engg	4	2400
II EE	Engg Physics	4	2400
	TOTAL	**34**	**20,400**

Remedial Classes Planned for EC Department			
Semester	**Subject**	**Hrs**	**Amount**
II EC	Differencial Equations	4	2400
II EC	Engineering Graphics	4	2400
II EC	Basics of Mechanical Engineering	4	2400
II EC	Basics of Electrical Engineering	4	2400
IVEC	Probability and Random Process	4	2400
IVEC	Signals & Systems	4	2400
IVEC	Analog Integrated Circuits	4	2400
IVEC	Analog Communication	4	2400
IVEC	Computer Organization	4	2400
	TOTAL	**36**	**21,600**

Decision: The BOG approved the action plan for remedial classes and the soft skill training programme planned for the current month.

2.12 Approval for Conducting Campus Placement under TEQIP

Radview Technologies wish to conduct a campus placement drive at CE Karunagappally in the month of March. They are looking for suitable candidates in the posts of Associate Software and Embedded Engineers in their Thiruvananthapuram, Kochi, Kozhikode and Bangalore offices. As per PIP of TEQIP, expenditure towards inviting industry for campus interviews and hospitality during campus interviews can be met from TEQIP. It is expected that an amount of Rs 20000 will be required to meet the expenses.

Discussion: The BoG **e**nquired about the participants allowed and their eligibility. The Placement coordinator Mr Baiju V explained about the eligibility conditions. The BoG suggested to include students from nearby IHRD colleges for the drive.

Decision: The BOG approved the plan for the placement drive

2.13 Approval for Vision and Mission of the Institution and different departments.

The draft of revised Institutional and Departmental (EC, CS and EEE) vision and mission statements were presented in the last BOG meeting. Based on the discussions and suggestions from various stake holders the statements are further revised.

Institution

Vision

Aspire to be an institution of professional excellence to fulfill the technological needs of the society.

Mission

- Provide education through resourceful programmes that are stimulus to the current and emerging needs of the society.
- Promote innovative teaching and learning to achieve academic excellence in engineering and technology.
- Create an environment conducive for innovative research in cutting edge technologies.
- Equip the students with professionalism, ethical values and social obligations.

Department of Computer Science

Vision

Be a centre of professional excellence for nurturing technically competent and socially committed Computer Engineers.

Mission

- Enlighten the individuals with the advancements in computing through innovative teaching learning methodologies.
- Motivate the students for creative interaction with industry and for the active involvement in co-curricular and extracurricular activities.
- Impart research culture among faculty and students for the advancement of state- of-the- art technologies in computer science and related disciplines.
- Inculcate ethics and social values in individuals to transform them into responsible citizen

Department of Electronics and Communication

Vision

Transforming individuals into professionally excellent and socially responsible Electronics Engineers through value based education.

Mission

- Offer quality undergraduate, graduate & research oriented programes in Electronics and Communication Engineering.
- Provide modern facilities in a productive environment to students and faculty for continuous improvement.
- Encourage faculty and students to carry out innovative research.
- Motivate the students for active participation in industry, co-curricular and extracurricular activities.
- Inculcate ethics and social values in students to transform them into responsible citizen

Department Vision and Mission(EEE)

Vision

Transform individuals to professionally excellent and socially committed Electrical Engineers.

Mission

- Facilitate quality engineering education to equip young individuals to meet the latest challenges in industry.
- Provide technological assistance and services to meet the growing needs of society.
- Develop and Propagate best energy management practices .
- Provide modern facilities in a conducive environment to students and faculty for continuous improvement.
- Motivate the students for active participation in co-curricular and extracurricular activities.

Discussion: Members insisted the need to oblige to the wordings in mission in action too. They stressed that social obligations can be ensured by preparing strategic methods for rain water harvesting, waste disposal, power shortages, water shortage etc.

Decision: The BOG approved the Vision and Mission statements.

2.14 Expenditure incurred under IOC-Ratification

The expenditure incurred under IOC post the tenth BOG meeting is Rs**. 4,99,355**/-. This amount is due to Salaries of TEQIP staff, Consumables purchased for TEQIP cell and other departments, and Operation and Maintenance charges. The details are given in the table below.

Table: Expenditure incurred under IOC

Sl. No	Item	Amount(Rs)
1	Salary and for TEQIP Staff	65485
2	Consumables	
	(a) Stationery - Box File	49993
	(b) Display Board for Accreditation- CS	49778
	(c) Display Board for Accreditation - EC	49778
	(d) Stationery – TEQIP office	07441
	(e) Consumables EE Workshop	24587
3	Operation and Maintenance	
	(a) BOG 10	45953
	(b) AMC – Laptop i5	75000
	(c) AMC – Laptop i7	60000
	(d) AMC – Photostat Machine (Canon) - Library	35100
	(e) TA for pre-closure meeting	20160
Total		**499355**

Decision: The BOG took note and ratified the payment

Part 3
Reports

3.1 Summary of Expenditure as on 28 February 2017

The summary of expenditure as on 28.02.2017 is as below.

Total Fund Received: Rs.1000 Lakhs, Interest accrued: Rs 15.24 Lakhs

Sr.No.	Expenditure Name	Expenditure Upto 31st Jan 2017 (Rs in Lakhs)	Expenditure From 1 Feb 2017 – 28th Feb 2017 (Rs in Lakhs)	Cumulative Expenditure upto 28th Feb 2017 (Rs in Lakhs)
1	Procurement	555.60	2.19	557.79
2	Providing Assistantships for Increased enrolment in existing and new PG Programmes in Engineering Disciplines	131.66	4.08	135.74
3	Enhancement of Research and Development and Institutional Consultancy Activities	20.86	0.00	20.86
4	Faculty and staff development for improved competence based on Training Needs Analysis(TNA)	146.29	10.90	157.19
5	Enhanced Interaction with Industry	9.17	2.51	11.68
6	Institutional Management Capacity enhancement	6.65	0	6.65
7	Implementation of Institutional reforms	8.99	0	8.99
8	Academic support for weak students	13.35	2.24	15.59
9	Incremental Operating Cost	51.39	4.99	56.38
Total		**943.96**	**26.91**	**970.87**

Decision: The BOG took note of the expenditure under various heads.

3.2 Report on Staff Student Satisfaction Survey

NPIU and MHRD had conducted the first round of Web based Student, Faculty and Staff satisfaction survey of the implementation of TEQIP II activities in the Institutions in Aug-Sep 2016. The compiled reports of the satisfaction survey were shared with the Institutions. This report contains the Student, Faculty and Staff's satisfaction level of the institute and that is compared with State and National satisfaction indices. The survey report was submitted to the BoG for discussion.

Decision: The BOG took note of the survey report and congratulated the institution for the good satisfaction index score.

The meeting came to an end at 12.30 pm

Dr.V P N Nampoori **Dr.Jaya V L**

Chairman **Principal**

Minutes of the Fifth Research Guidance Committee for TEQIP II at College of Engineering Karunagappally, Karunagappally, Kollam, Kerala Conducted on 18/03/2017 at 10:00 AM in Principal's room under the chairmanship of Senior Research Advisor Prof. E.Gopinathan

No: CEK/TEQIP/RPC/05/2014. **18-03-2017**

Agenda

Silent Prayer

Welcome address by the Principal.

1.1 Confirming the Minutes of the Fourth Meeting of the Research Guidance Committee held on 30-01-2016 at College of Engineering Karunagappally.

The Minutes of the fourth Meeting of the Research Guidance Committee held on 30-01-2016 at College of Engineering Karunagappally was sent to the Chairman for his approval and upon his approval copies were circulated among the other members of the RGC. A copy of the Minutes is appended as **Annexure 1** for confirmation.
The Committee may consider the Minutes for approval.

1.2 Evaluation of the submission of the projects submitted by the Principal Investigators
The Principal investigators submitted the project reports with financial statement on utilization of the fund for which they had availed Research Seed Money. The Principal Investigators may be asked to clarify the status of the proposals.

S. No	Name of PI	Name of Proposal	Fund requested from External Agency (lakhs)	Name of External Funding Agency
1	DrHari V S	Development of Visualizer for k-spaceMRI Data and the Implementation of Quadratic System for Periphery Detection, De-Noising and Brain Segment Volume Detection	42.57	DeitY
2	Deepa A K	Image processing Techniques for Breast Image Analysis Using Mammograms and MRI Images	25.35	KSCSTE

3	Smitha P	Development of Automated System for IHC Scoring and Nuclear Grading of breast cancer	38.49	DBT
4	Jyothi R L	Hand written character recognition of current and ancient Malayalam fonts	11.07	SERB
5	Remya R S	Automated detection of Acute LymphaticLeukaemia	16.31	KSCSTE
6	Shajy L	Analysis of chromatin texture for the estimation of malignancy associated changes	29.95	KSCSTE
7	Jyothi R L	Offline Hand-Written Character Recognition System to Convert Grantha Script on Ancient Palmleaves to Malayalam Characters	11.07	TDIL
8	Remya R S	Automated video forgery detection	13.57	SERB
		Total	188.38/-	

1.3 Ratification of decision to settle the expenditure of the International Conference conducted on July 8th to 10th 2016.

*"INTERNATIONAL CONFERENCE ON COMPUTING COMMUNICATION AND SIGNAL PROCESSING" (ICCCSP-2016)*was conducted on 8th and 9th of July 2016, in The Beach Hotel, Kollam, jointly organized by Department of Electronics and Communication Engineering and Department of Computer Science and Engineering of College Of Engineering, Karunagappally under TEQIP II. More than 200 papers were received from all over India. The final report regarding the International Conference on Computing Communication and Signal Processing is also attached as **Annexure II**.

1.4 Any other matter regarding improvement of Research and Development

The following members were present:

1. Prof. (Dr) Gopinathan E, Former Director, NIT Calicut, SRA of the Institution (Chairman)
2. Prof. (Dr) Java V L, Principal (Convenor)
3. Dr RajkumarChoudhary,Scientist Space Physics Laboratory, VSSC, Member
4. Sri. Shajahan M,Scientist Space Physics Laboratory, VSSC, Member
5. Dr Ajilkumar A, TEQIP II Coordinator, Member

6. Dr Smitha P,R&D Coordinator, Member and Principal Investigator
7. Prof.Binu V.P, HOD CSE, Member
8. Dr Hari V S, HOD ECE, Member and Principal Investigator
9. DrShajy L, Principal Investigator
10. Smt. Deepa A K, Principal Investigator
11. Smt. Jyothi R L, Principal Investigator

The following members of the RGC conveyed their inability to attend the meeting

1. Smt.Libi A, HOD EEE, Member
2. Smt. Remya R S, Principal Investigator

The Meeting started at 10.00.AM under the presidency of the Hon'ble Chairman with a silent prayer followed by welcome address by DrAjilkumar A. He also briefed about the fifth place in the TEQIP II final review meeting (status) of the institution and this is achieved under the highlights of the R & D activities. He also commented that this is achieved only because of the RGC committee. He discussed the progress of R & D activities at CE Karunagappally. Chairman commented that this achievement is not because of the RGC and it is only because of the involvement of staff. Other members also supported it.

The Principal introduced the agenda to the committee members and the agenda items were taken one by one for discussion.

Resolutions Adopted

Item No 1.1 / RGC 5: Confirming the Minutes of the Fourth Meeting of the Research Guidance Committee held on 30-01-2016 at College of Engineering Karunagappally.

Minutes of the fourth RGC meeting held on 30.01.2016 was circulated to the RGC members for confirmation. Based on the discussions, the RGC confirmed the approved minutes of the RGC meeting held on 30.01.2016.

Item No 1.2 / RGC 5: Evaluation of the submission of the projects submitted by the Principal Investigators

The Projects submitted by the Principal Investigators (PIs) were discussed in detail. The comments received from the members were also discussed. The committee discussed the proposals which are submitted in the following order.

1. DrHari V S: the proposal was submitted for 42.57 lakhs to DeiTy. Two stages of presentations were over but the second level presentation was a telephonic conversation and finally the proposal was not recommended for funding and also shown the copy of rejection letter. DrRajkumarChoudary suggested to resubmit the same by correcting the 3D explanation

part and the justificationpart. Committee members also enquired about the continuation of the work and Dr Hari accepted to continue the work with the help of two Ph.D students under him. Mr Shajahancommented that polynomial filters are the latest concept and which will be accepted. Dr Gopinathancommented that the amount requested may be high, and for the first time if the amount is less then it may be accepted. So try to reduce the amount requested to 10 to 15 lakhs and resubmit the same.

2. Deepa A K: Project proposal is for 25.35 lakhs and submitted the proposal and no review comments received yet. Dr Gopinathan commented that lot of work is happening in this area and without novelty the proposal may be rejected. Dr RajkumarChaoudry asked about the long delay in getting review comments. MrsDeepa told that none of the investigators are having Ph.D may be the reason for this. So committee members suggested to add a co-PI with doctorate. Mr Shajahancommented to have latest technology other than MRI and Mammograms for the work. Dr Gopinathansuggested to include micro-calcifier identification in detail.

3.DrSmitha P: Proposal amount is for 38.49 lakhs to DBT and two levels of evaluation is over and reviewers' comments were clarified and waiting for the result. All the committee members congratulated for completing the Ph.D and suggested to have status change in the proposal also. PI clarified that the suggestions were made immediately after getting doctorate. All committee members greeted for the acceptance of the proposal.

4. Jyothi R L: Both the proposals (Grandha Script of 11.07 lakhs to Technology Development for Indian Languages (TDIL) and Malayalam character recognition proposal of 11.07 lakhs to Science and Engineering Research Board (SERB)) are discussed. For the grandha script telephonic interview was over. The current status is enquired by the PI and got the reply that due to lack of fund could not recommend the proposal, if necessary she can submit to other funding agency or she can wait. The committee decided to wait for the funding. Second proposal was initially rejected by SERB stating that it is not coming under their scope, and is now under the consideration of SERB expert committee.

5. Shajy L: Proposal amount is for 29.95 lakhs to the KSCSTE. Initially submitted proposal was stacked for the completion of the Ph. D by the PI and after getting doctorate resubmitted. First level evaluations were over and review comments also received, corrections and justifications were provided to the funding agency for further consideration and waiting for results. The committee approved it and all the members unanimously convinced with the status and suggested as excellent one.

6. Remya R S: In her absence, she submitted a report on both the proposals (Automated video forgery detection for Rs. 13.57 lakhs to SERB and Automated detection of Acute LymphaticLeukaemiafor Rs. 16.31 lakhs to KSCSTE). Her reports states that the proposal given to SERB has been rejected after the evaluation and she is waiting for evaluation of the KSCSTE proposal. The committee members had opinion that the proposal may be rejected due to the

absence of PI's doctorate, and also suggested to have the opinion of her guide (DrGopakumar C) and make her guide as PI to resubmit the proposal. All the committee members are willing to correct the proposals in the resubmission process also.

All the members are satisfied with the R & D activity happening in this college. They expressed their satisfaction in the sincerity of the faculty and appreciated the same. They also extended their help in any regard of this process at any time.

Item No 1.3 / RGC 5: Ratification of decision to settle the expenditure of the International Conference conducted on July 8th to 10th 2016.

The details regarding the International Conference on Computing Communication and Signal Processingfrom July 8th and 9th, 2016 were discussed.The committee members and chairman unanimously appreciated the way the conference was organized as the first international conference. The chairman Dr E Gopinathanand Mr Shajahanwere present at the conference days and participated in chairing the venue and chairing the keynote addresses and also noticed the way it has been organized. They were excited to appreciate the same. The expenditure statements has been verified approved by the committee with an appreciation that in each head the spend amount is less compared to the sanctioned amount. They also congratulated DrGopakumar and its team behind the success of the international conference.

Item	Budget Amount (Rs.)	Actual Expenditure (Rs.)	Registration fee collected
Venue	4,50,000	4,49,525	124001
Printing of Brochures and Posters	50,000	47,955	
TA for resource persons	4,50,000	4,79,295	
Remuneration to resource persons	1,00,000		
Accommodation	90,000		
Transportation	50,000		
Publication of Conference	2,50,000	1,18,363	
Printing of Certificates/Badges	5,000	8,560	
Conference Kit	70,000	60,661	
Publicity	40,000	30,300	
Other Miscellaneous expenses	70,000	39,222	
Stage settings and logistics	170,000	1,46,980	

Total Amount	**17,95,000**	**1380861**	**124001**

Item No 1.4 / RGC 5: Any other matter regarding improvement of Research and Development

R & D coordinator expected the committee's help in forming the Department Advisory Board (DAB) for the departments. DAB needs industrial experts to direct each department in its important decisions, which will be conducted every six months in a year. And all the members accepted to help in this regard.

Once again the committee congratulated for the R & D activity happening in this institution, and Principal Dr Jaya V L delivered the vote of thanks for the committee members on behalf of the college and on behalf of entire team. She also extended her willingness to share the team for the future R & D activity. The committee members also accepted the same.The committee ended at 2. PM

Annexure 3

---------- Forwarded message ----------
From: <nbasuport@gmail.com>
Date: Friday, April 21, 2017
Subject: Verification of Accreditation Fee Detail
To: princharicek@gmail.com

The prescribed fee for the accreditation as submitted by COLLEGE OF ENGINEERING KARUNAGAPPALLY towards the application No. **2179-08/01/2017** has been verified as per the details below :

Program details with Fee to be paid-

Discipline	Format	Level	Programme	Total Fee	First Phase Fee	Second Phase Fee
Engineering & Technology	TierII	Post Graduate	Signal Processing	500000	500000	N/A
Engineering & Technology	TierII	Post Graduate	Image Processing	200000	200000	N/A
			Total	700000	700000	N/A
			Service Tax @15.00 %	105000	105000	N/A
			Total With service tax	805000	805000	N/A

Total Paid Amount with service tax : Rs. 805000

Total Paid Amount with service tax (in words) : Eight lac(s) Five Thousand Rupee(s) And Zero Paise Only.

Payment Details -

Payment Mode	Demand Draft
Fee Amount	805000
Bank Draft No	665695
Draft Dated	31/03/2017
Drawn on:	State Bank of Travancore, Karunagappally
Courier Name	India Post
Courier Tracking No.	RL025893352IN
Dispatch Date:	10/04/2017

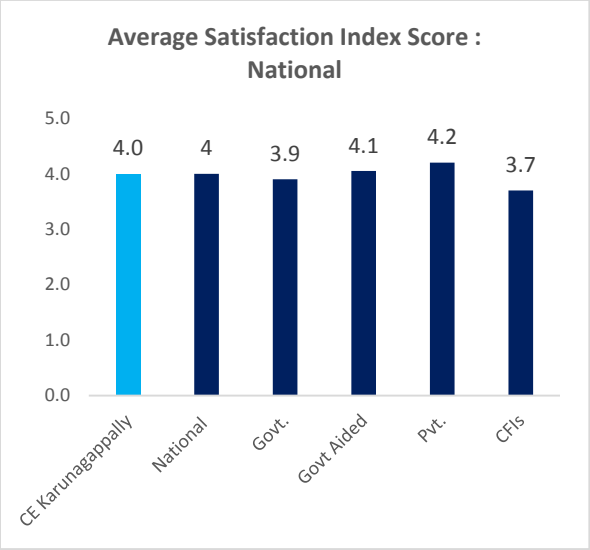
Transaction ID: VR NO. 599 FEES VERIFIED MRS USHA HANDA
Transaction Date: 20-04-2017

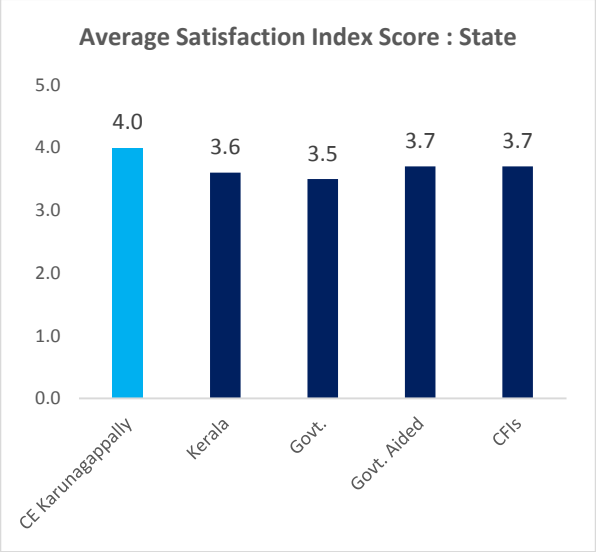
You are now required to fill and submit the Self assessment report format for all the programs within 6 months.

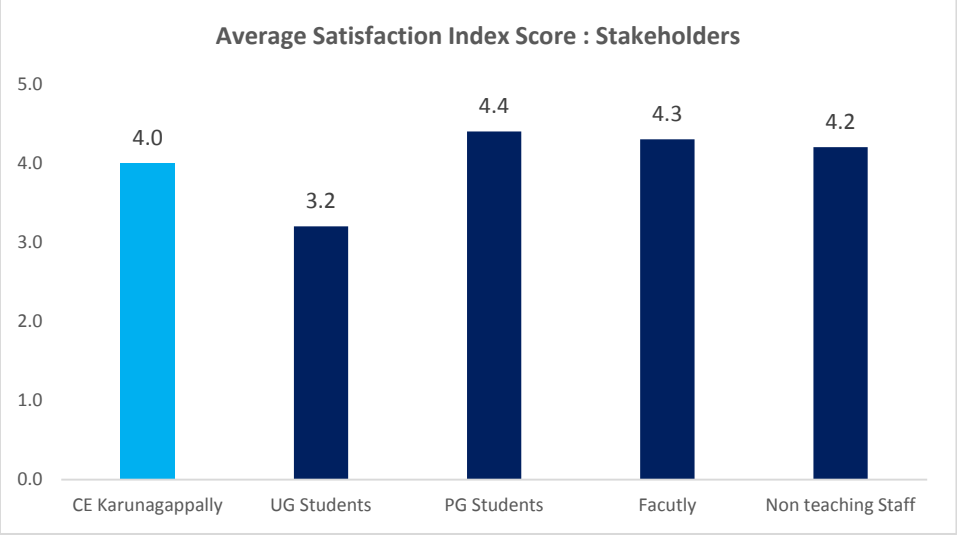
Regards
Accreditation Division
NBA

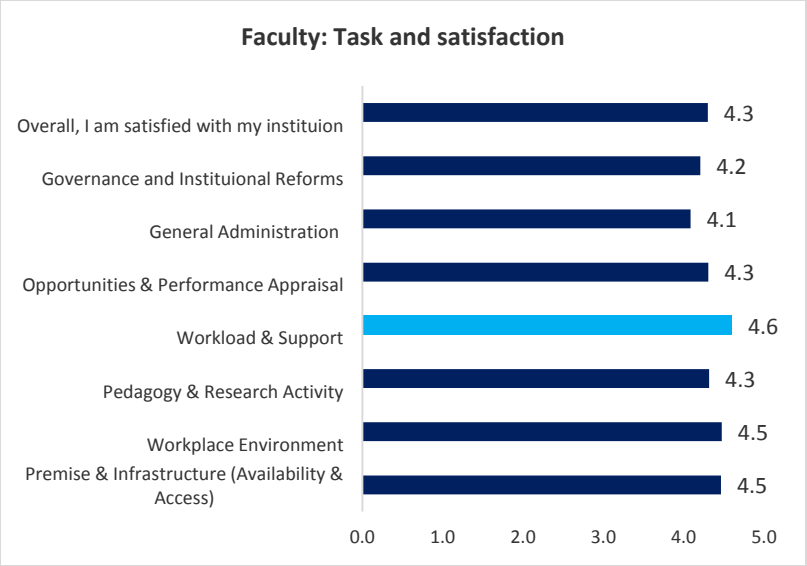
College of Engineering, Karunagappally, Kollam- Kerala

- College of Engineering, Karunagappally's satisfaction index score (4) is equal to the national average (4) for TEQIP-II institutions.
- College of Engineering, Karunagappally's satisfaction index score (4) exceeds the state average (3.6)) for TEQIP-II institutes by 8%.
- PG students at College of Engineering, Karunagappally are the most satisfied.
- UG students the least satisfied



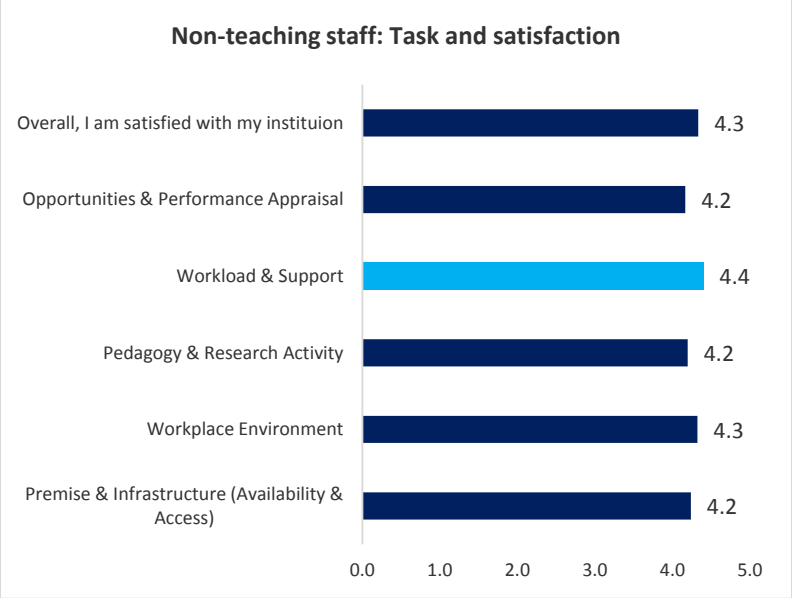






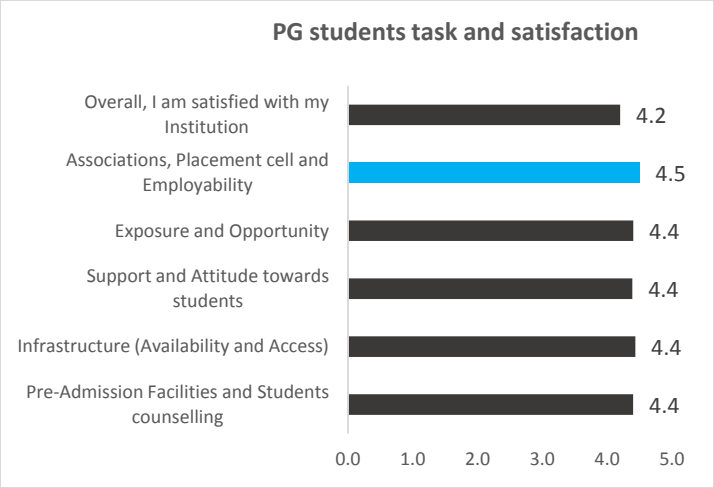
Faculty were asked to rate their satisfaction level. The key findings are:

- Faculty in general are satisfied (score=4.3).
- Amongst various parameters the top scoring satisfaction goes to (i) workload and support (satisfaction score 92%).



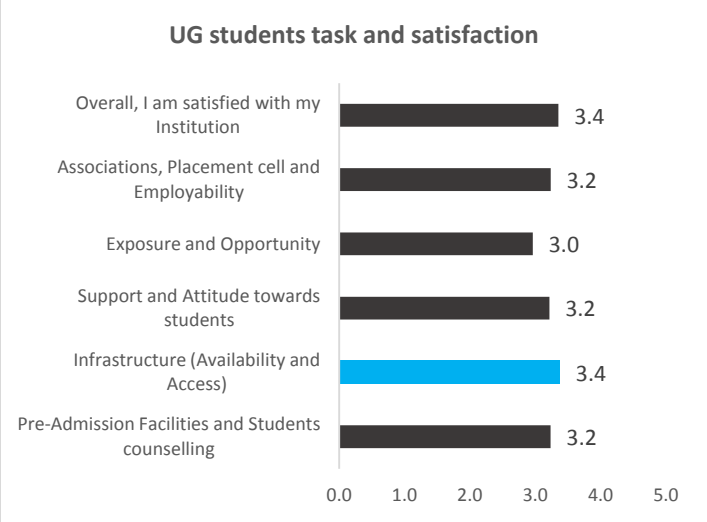
Non- teaching staff were asked to rate their satisfaction level. The key findings are:

- Non- teaching staff in general are satisfied (score=4.2).
- Amongst various parameters the top scoring satisfaction goes to workload and support (satisfaction score 88%).



PG students were asked to rate their satisfaction level. The key findings are:

- PG students in general are satisfied (score=4.4).
- Amongst various parameters the top scoring satisfaction goes to Associations, placement cell and employability (satisfaction score 90%).



UG students were asked to rate their satisfaction level. The key findings are:

- UG students in general are neutral (score=3.2).
- Amongst various parameters the top scoring satisfaction goes to infrastructure (availability and access) (satisfaction score 68%).

State Project Facilitation UNIT
Kerala
Closure Report

Name of the Institution :-

College of Engineering Karunagappally

TEQIP II Team Members		
Sl No.	Name	Period
BOG Chairman	Prof.V.P.N.Nampoori	2013 March- Continuing
Mentor	Prof.Sudheer K.P	2013 June - Continuing
Principal	Dr.Hari V S	2013 - Sept 2016
	Dr. Jaya V L	Oct 2016 - Continuing
TEQIP co-ordinator	Dr. Ajilkumar A	2013 - Continuing
Finance Co-ordinator	Dr. Shaji L	2015- Continuing
Academic co-ordinator	Mr. Reji Thankachan	Feb 2016- Continuing
III Cell Co-ordinator	Mr. Baiju V	2013 - Continuing
Research Advisor	Prof. E.Gopinathan	June 2013 - Continuing
Research Co-ordinator	Dr.Smitha P	2013 - Continuing
EAP Co-ordinator	Prof.Premakumari K R	2013 - Continuing
Civil Works Coordinator	Mr.Ganesh	2016 June - Continuing
Monitoring and Evaluation	Mrs.Sheela R	2013 - Continuing

Summary for the Project Activities during the project life span						
(Rs. in lakhs)						
Activities	**Total funds received till date**	**Category of expenditure (Head of expenditure)**	**Sub-Activity**	**Original Amount allotted as per PIP**	**Cumulative Exp. Up to 27 - 07 – 2017 (Rs in Lakhs)**	**Expenditure (if any) as per action plan till 31.07.2017 (Rs in Lakhs)**
(1)	**(2)**	**(3)**	**(4)**	**(5)**	**(6)**	
Procurement of goods (equipment, furNITure, books, LRs, software and minor items) and civil works for improvement in teaching, training and learning facilities	1000.00	Procurement	Expenditure on ICT enabled learning, related software& hardware.		0.00	
			Expenditure on New laboratory for new PG programs		3.49	
			Expenditure on New laboratory for existing PG programs		64.26	
			Expenditure on Existing laboratories modernized/Strengthened		233.20	
			Expenditure on Library i.e. books, e-books, journals, e-journals course specific software		52.65	
			Expenditure on membership of online journals & consortium		0.00	
			Expenditure on digitally/virtually accessible courses/subjects		0.00	
			Expenditure on Modernising Classrooms		12.97	
			Expenditure on Procurement of Equipment etc. for Institutes/ TEQIP uNIT.		143.35	
			Expenditure on Civil Work		47.86	
			Others. (Specify if any)		0.00	
		Total			**557.79**	

Provide Teaching and Research Assistantships to increase enrolment in existing and new PG programmes in Engineering disciplines		Assistantships	Expenditure on Masters students enrolled with TEQIP teaching assistantship		140.89	
			Expenditure on PhD Students enrolled with TEQIP research assistantship		0.00	
			Others. (Specify if Material)		0.00	
		Total			**140.89**	
Enhancement of R & D and institutional consultancy activities		R&D	Expenditure incurred on Research projects taken by UG/ PG students		0.00	
			Expenditure incurred on research publications in engineering in referred journals		0.34	
			Expenditure on Organising Conferences for R & D Topics		13.81	
			Expenditure on Patenting of Research Products		0.00	
			Others. (Specify if Material)		7.27	
		Total			**21.43**	
Faculty and staff development for improved competence		FSD	Expenditure on Faculty with B Tech enrolled for M Tech against total B Tech faculty		2.52	
			Expenditure on Faculty with M Tech enrolled for PhD in engineering against total M Tech faculty		2.80	
			Expenditure on faculty members attended training in subject domain		109.03	
			Expenditure on faculty members attended pedagogical training		5.81	
			Expenditure on organising in-house subject area training Programs/ Workshops/ seminars / conferences / continuing education programs.		29.19	

			Expenditure on participation by faculty in Seminar/ Conferences/ workshop etc.		14.41	
			Expenditure on staff development		9.38	
			Others. (Specify if Material)		0.19	
		Total			**173.33**	
Enhanced interaction with Industry		I-I-I- Cells	Expenditure on academic Programs i.e. MTech/PhD etc. with industry		0.00	
			Expenditure on short term programs with industry		8.44	
			Expenditure on academic networking with other institutions		0.00	
			Expenditure incurred on Campus placements (UG & PG)		0.00	
			Expenditure on UG Students attended industrial internship		0.72	
			Others. (Specify if Material)		7.25	
		Total			**16.41**	
Institutional Management Capacity enhancement		Capacity development	Expenditure on Sr. Officials & Sr. faculty attended management development training		6.41	
			Others. (Specify if Material)		0.91	
		Total			**7.32**	
Implementation of Institutional academic reforms		Reforms	Expenditure on accreditation fee for NBA		17.04	
			Expenditure incurred on Autonomous Institution status concurred by UGC		0.00	
			Expenditure on Curricula revision/restructuring		0.00	
			Others. (Specify if Material)		0.00	
		Total			**17.04**	

Academic support for weak students		Student support	Expenditure on students transition from first year to second year of UG Programs (clearing all subjects /courses of 1st year in first attempt)		3.95	
			Others. (Specify if Material)		16.49	
		Total			**20.43**	
Incremental operating cost		**IOC**			60.43	1.1
GRAND TOTAL	**1000**				**1015.07**	**1016.17**

Year wise Expenditure details of all the sub-activities in Procurement

Expenditure on ICT enabled learning, related software& hardware.			
Financial Year of acquirement	*Sl. No*	*Item description*	*Amount*
2012-13	-	-	-
2013-14	-	-	-
2014-15	-	-	-
2015-16	-	-	-
2016-17	-	-	-
Total			-

Expenditure on New laboratory for new PG programs			
Financial Year of acquirement	*Sl. No.*	*Item description*	*Amount*
2012-13	-	-	-
2013-14	*1*	*FPGA Trainer Kit*	*3,49,205*
2014-15	-	-	-
2015-16	-	-	-
2016-17	-	-	-

Total	***3,49,205***

Expenditure on New laboratory for existing PG programs.			
Financial Year of acquirement	*Sl No.*	*Item description*	*Amount*
2012-13	*-*	*-*	*-*
2013-14	*1*	*HFSS Software*	*6,60,000*
	2	*Laptop Computers*	*9,96,975*
	3	*Mac System*	*3,01,984*
	4	*Mat Lab Software*	*9,94,438*
	5	*Measuring Instrument II*	*77,860*
	6	*Open Hardware*	*1,38,390*
	7	*USRP*	*5,10,300*
	8	*Work Station Computer*	*1,56,015*
2014-15	*-*	*-*	*-*
2015-16	*-*	*-*	*-*
2016-17	*-*	*-*	*-*
Total			***38,35,962***

Expenditure on Existing laboratories modernized/Strengthened			
Financial Year of acquirement	*Sl. No*	*Item description*	*Amount*
2012-13	*-*	*-*	*-*
2013-14	*1*	*Adobe Software*	*3,14,204*
	2	*Bread Board*	*17,862*
	3	*Computer Hardware & Accessories*	*7,43,434*
	4	*Digital IC Tester*	*33,300*

	5	*Function Generator*	*9,81,703*
	6	*Hardware for Network Lab*	*33,180*
	7	*Measuring Instrument I*	*1,21,012*
	8	*N Computing System*	*4,22,100*
	9	*Network Simulator & Trainer Kit*	*2,13,824*
	10	*Orcad*	*2,62,500*
	11	*Power Lab Kit*	*83,130*
	12	*Relays*	*88,484*
	13	*Rheostat*	*2,39,342*
	14	*Servo Controlled Voltage Stabilizer*	*96,489*
2014-15	*1*	*AC Machines*	*5,32,826*
	2	*AEE Lab Trainer Kit*	*1,31,535*
	3	*Carpentry General Engineering Tools*	*1,89,950*
	4	*DC Motor Alternator Set*	*3,06,448*
	5	*DC Power Supply*	*6,96,733*
	6	*Digital IC Trainer Kit*	*1,17,000*
	7	*DSP Starter Kit*	*4,66,838*
	8	*ETAP Software*	*1,90,528*
	9	*Fitting Shop Tools*	*4,35,855*
	10	*Hardware for Project Lab*	*2,27,168*
	11	*Language Laboratory Software*	*1,15,000*
	12	*Lan Trainer*	*1,02,900*
	13	*PCB Lab Equipment*	*52,899*
	14	*Proteus PCB Design Software*	*3,41,250*
	15	*PSCAD Software*	*4,41,975*
	16	*Rectifier Unit*	*1,61,582*
	17	*Soldering Iron*	*68,357*
	18	*Transformers*	*1,28,695*
	19	*Vacuum Cleaner*	*10,280*
2015-16	*1*	*3D Printer*	*1,53,000*
	2	*DC Machines and servo motor*	*8,15,557*

	3	*Microprocessors and Microcontrollers*	*5,44,504*
	4	*Microwave Test Bench*	*1,86,942*
	5	*Portable Hardware Device*	*37,280*
2016-17	*1*	*Analog metre*	*23,759*
	2	*Chemistry lab Equipment*	*2,00,504*
	3	*Digital clamp Power Meter*	*31,201*
	4	*Digital Multimeter*	*49,922*
	5	*Dumpy Level*	*23,625*
	6	*Electrical Meters*	*43,577*
	7	*Furniture Desk Bench Stool*	*5,29,532*
	8	*Keil Development Tools*	*1,36,802*
	9	*Machines lab equipment*	*2,91,070*
	10	*Moderna Chair*	*1,22,229*
	11	*Physics Lab Equipment*	*2,08,483*
	12	*PLC Trainer Kit*	*1,63,632*
	13	*Public Address system*	*1,23,000*
	14	*smithy and Foundry tools*	*1,11,618*
	15	*Teachers PA System*	*32,400*
	16	*Ultraviolet Exposing Unit*	*24,000*
Total			***1,22,21,020***

Expenditure on Library i.e. books, e-books, journals, e-journals course specific software.			
Financial Year of acquirement	*Sl. No*	*Item description*	*Amount*
2012-13	*-*	*-*	*-*
2013-14	*1*	*E-Journals Elsevier*	*4,59,459*
	2	*IEEE-ASPP E-Journal*	*3,72,780*
	3	*Springer E journal*	*2,05,620*
	4	*Library Books CS*	*5,97,512*

2014-15	*1*	*CCTV Camera Surveillance*	*87,675*
	2	*Furniture Book Shelves*	*9,15,428*
	3	*Library Books EC1*	*7,16,800*
	4	*Library Books EEE*	*2,60,611*
	5	*Library Books IT*	*5,70,494*
	6	*Library Books Mechanical*	*75,151*
2015-16	*1*	*Books for competitive exams*	*1,09,066*
	2	*E Journal – Science Direct*	*5,56,756*
	3	*Library Books Applied Science*	*2,60,000*
	4	*Springer E Journal*	*2,03,837*
2016-17	*1*	*E Journal IEEE*	*6,27,281*
	2	*Library Books EC2*	*1,62,154*
Total			***61,80,594***

Expenditure on membership of online journals & consortium.			
Financial Year of acquirement	*Sl. No*	*Item description*	*Amount*
2012-13	*-*	*-*	*-*
2013-14	*-*	*-*	*-*
2014-15	*-*	*-*	*-*
2015-16	*-*	*-*	*-*
2016-17	*-*	*-*	*-*
Total			*-*

Expenditure on digitally/virtually accessible courses/subjects.

Financial Year of acquirement	*Sl No*	*Item description*	*Amount*
2012-13	*-*	*-*	*-*
2013-14	*-*	*-*	*-*
2014-15	*-*	*-*	*-*
2015-16	*-*	*-*	*-*
2016-17	*-*	*-*	*-*
Total			*-*

Expenditure on Modernising Classrooms.			
Financial Year of acquirement	*Sl No*	*Item description*	*Amount*
2012-13	*-*	*-*	*-*
2013-14	*-*	*Classroom Modernization*	*4,90,060*
2014-15	*-*	*-*	*-*
2015-16	*-*	*-*	*-*
2016-17	*-*	*-*	*-*
Total			***4,90,060***

Expenditure on Procurement of Equipment etc. for Institutes/ TEQIP UNIT.			
Financial Year of acquirement	*Sl No*	*Item description*	*Amount*
2012-13	*-*	*-*	*-*
2013-14	*1*	*Accounting Software Tally*	*17,900*
	2	*Duplicating Machine*	*1,51,900*
	3	*Fire Extinguisher*	*2,80,239*
	4	*Furniture in Seminar Hall*	*3,41,554*

	5	*Microsoft OVS*	*1,78,383*
	6	*Power Quality Analyser*	*4,22,000*
	7	*Tool Kit*	*14,313*
2014-15	*1*	*Air Conditioner*	*9,06,000*
	2	*Campus Networking*	*15,73,208*
	3	*Desktop Computers*	*94,06,608*
	4	*Diesel Generator Set*	*8,85,000*
	5	*Digital Storage Oscilloscope*	*19,78,276*
	6	*Equipment for Smart Class Room*	*5,30,738*
	7	*Firewall*	*2,26,388*
	8	*ID Card Printer*	*97,522*
	9	*Office Furniture*	*6,05,533*
	10	*Photostat Machine*	*2,04,054*
	11	*Printer & Scanner*	*2,81,142*
	12	*Server Computer*	*7,71,481*
	13	*UPS*	*27,23,383*
	14	*Water Dispenser*	*24,580*
2015-16	*1*	*Computer Table*	*1,23,431*
	2	*Currency counter*	*11,850*
	3	*Display Board*	*73,738*
	4	*Dream Spark*	*1,39,106*
	5	*Electronic private automatic branch exchange*	*1,94,450*
	6	*Unitized Substation*	*24,45,298*
	7	*Water cooler*	*70,500*
2016-17	*1*	*Automatic Power Factor Correction Unit*	*3,26,373*
	2	*Embedded Development Boards*	*1,13,497*
	3	*Extension of Campus Networking*	*3,14,561*
	4	*Furniture Chair Table Almirah*	*7,74,364*
	5	*High performance computing station*	*7,64,166*
	6	*Solar Driven Invertor*	*4,50,000*
	7	*Teaching Aids in Classrooms*	*4,71,000*

Total	***2,79,17,245***

Expenditure on Civil Work.			
Financial Year of acquirement	*Sl No*	*Item description*	*Amount*
2012-13	*-*	*--*	*-*
2013-14	*1*	*Construction of Platform for Machines*	*1,78,533*
	2	*False Ceiling Works of Coputer Laboratories*	*1,87,215*
	3	*Refurbishment Of Various Lab*	*6,15,131*
2014-15	*1*	*Partition Walls & Alied Works*	*10,51,676*
	2	*Generator Room, Transformer Room & Cable Trench*	*3,68,425*
2015-16	*1*	*Generator Room, Transformer Room & Cable Trench*	*4,89,614*
	2	*Civilworks college Electrical Works*	*11,16,074*
2016-17	*1*	*Minor Civil works*	*6,88,592*
	2	*Electrical works- Library, Office, EEE*	*90,455*
Total			***47,85,715***

Year wise Summary of Expenditure on Procurement of goods		
Financial Year of acquirement	*Sl No.*	*Amount*
2012-13	*1*	*-*
2013-14	*1*	*1,23,73,039.00*
2014-15	*1*	*2,89,77,992.00*
2015-16	*1*	*75,31,003.00*
2016-17	*1*	*68,97,797.00*
Grand Total		***5,57,79,831.00***

2. Year wise Expenditure details of all the sub-activities in teaching assistantship

Assistantships- Expenditure on Masters students enrolled with TEQIP teaching assistantship			
Financial Year of acquirement	*Sl. No*	*No of assistantships in each category*	*Amount*
2012-13	*-*	***-***	***-***
2013-14	*-*	*51*	*18,12,000*
2014-15	*-*	*46*	*17,87,000*
2015-16	*-*	*66*	*57,60,000*
2016-17	*-*	*63*	*46,22,775*
2017-18	*-*	*21*	*02,16,000*
Total			***1,41,97,775***

Assistantships- Expenditure on PhD Students enrolled with TEQIP research assistantship			
Financial Year of acquirement	*Sl. No*	*No of assistantships in each category*	*Amount*
2012-13	*-*	*-*	*-*
2013-14	*-*	*-*	*-*
2014-15	*-*	*-*	*-*
2015-16	*-*	*-*	*-*
2016-17	*-*	*-*	*-*
Total			*-*

Assistantships- Others. (Specify if any)			
Financial Year of acquirement	*Sl. No*	*No of assistantships in each category*	*Amount*
2012-13	*-*	*-*	*-*
2013-14	*-*	*-*	*-*
2014-15	*-*	*-*	*-*

2015-16	*-*	*-*	*-*
2016-17		*-*	*-*
Total			*-*

Assistantships- Year wise Summary		
Financial Year of acquirement	*Sl. No*	*Amount*
2012-13	*-*	*--*
2013-14	*1*	*18,12,000*
2014-15	*1*	*17,87,000*
2015-16	*1*	*57,60,000*
2016-17	*1*	*46,22,775*
2017-18	*1*	*02,16,000*
Grand Total		***1,41,97,775***

3. Year wise Expenditure details of all the sub-activities in Research and Development

Expenditure incurred on Research projects taken by UG/ PG students				
Financial Year of acquirement	*Sl No.*	*Name of the Research project*	*Name of Faculty*	*Amount*
2012-13	*-*	*-*	*-*	*-*
2013-14	*-*	*-*	*-*	*-*
2014-15	*-*	*-*	*-*	*-*
2015-16	*1*	*Automated detection of Alzeimers disease using QVF*	*Hari V S*	*39,967*
	2	*Image processing techniques for breast image analysis*	*Deepa A K*	*46,505*
	3	*Video tampering detection- An application to video forensics*	*Remya R S*	*98,272*
	4	*Automated cancer detection and grading of breast microscopy images*	*Smitha P*	*1,00,691*

	5	*Early lungs cancer detection through extraction and analysis of sputum cell images*	*Shajy L*	*99,087*
	6	*Handwritten character recognition from manuscripts written in ancient grantha scripts*	*Jyothi R L*	*40,146*
	7	*Detection of acute lymphocytic Leukemia*	*Remya R S*	*55,788*
	8	*Handwritten character recognition of various ancient and current Malayalam fonts*	*Jyothi R L*	*51,890*
2016-17	*-*	*-*	*-*	*-*
Total				***5,32,346***

Expenditure incurred on research publications in engineering in referred journals				
Financial Year of acquirement	*Sl. No*	*Name of the Research project*	*Name of Faculty*	*Amount*
2012-13	*-*	*-*	*-*	*-*
2013-14	*-*	*-*	*-*	*-*
2014-15	*-*	*-*	*-*	*-*
2015-16	*1*	*Journal Publication fee .(IJECE)*	*Dr. C Gopakumar*	*6,000*
	2	*Journal Publication fee. (IJAER)*	*Dr. Shaji L*	*10,100*
	3	*Journal Publication fee. (IJST)*	*Dr. Smitha P*	*8,550*
2016-17	*-*	*-*	*-*	*-*
Total				***24,650***

Expenditure on Organising Conferences for R & D Topics									
Financial Year	*Sl No*	*Name of the Conference*	*Name of co-ordinator*	*Conference Venue*	*No .of Papers received*	*No of papers accepted*	*TA/DA*	*Honorarium*	*Other Expense*
2012-13	*-*	*-*	*-*	*-*	*-*	*-*	*-*		*-*
2013-14	*1*	*Conducted SRA*	*Smitha P*	*CE Karunag*	*-*	*-*	*16,415*	*11,000*	*9,940*

		Meeting		*appally*					
2014-15	*-*	*-*	*-*	*-*	*-*	*-*	*-*		*-*
2015-16	*1*	*Conducted RGC Meeting*	*Smitha P*	*CE Karunagappally*	*-*	*-*	*18,691*	*11,000*	*9,679*
	2	*Conducted RGC Meeting (IV)*	*Smitha P*	*CE Karunagappally*	*-*	*-*	*6,230*	*11,000*	*6,727*
	3	*Purchase of office stationary for conducting International conference (ICCSP 2016)*	*Dr. C Gopakumar*	*CE Karunagappally*	*-*	*-*	*-*	*-*	*47,955*
2016-17	*1*	*Payment for conducting International conference Proceedings publication*	*Dr. Gopakumar C*	*CE Karunagappally*	*-*	*-*	*-*	*-*	*1,14,600*
	2	*Expenditure on International conference venue*	*Dr. Gopakumar C*	*CE Karunagappally*	*208*	*71*	*2,65,233*	*1,21,800*	*8,31,721*
	3	*Expert talk on how to do research*	*Dr. Smitha P*	*CE Karunagappally*	*-*	*-*	*1,200*	*5,000*	*2,150*

	4	*Conducted RGC Meeting*	*Dr. Smitha P*	*CE Karunag appally*	*-*	*-*	*8,750*	*11000*	*17,811*
Total							***42,536***	***38,000***	***14,47,366***

Expenditure on Patenting of Research Products				
Financial Year of acquirement	*Sl. No*	*Description of Research product*	*Name of Faculty*	*Amount*
2012-13	*-*	*-*	*-*	*-*
2013-14	*-*	*-*	*-*	*-*
2014-15	*-*	*-*	*-*	*-*
2015-16	*-*	*-*	*-*	*-*
2016-17	*-*	*-*	*-*	*-*
Total-				*-*

Expenditure on Others. (Enhancement of R & D ICA)						
Financial Year of acquirement	*Sl No*	*Description*	*Name of Faculty/ coordinator*	*TA/ DA*	*Honorarium*	*Other Amount*
2012-13	*-*	*-*	*-*			*-*
2013-14	*-*	*-*	*-*	*-*	*-*	*-*
2014-15	*1*	*RGC Meeting*	*Smitha P*	*18576*	*11000*	*7199*
2015-16	*-*	*-*	*-*	*-*	*-*	*-*
2016-17	*1*	*Renewal of IEEE Membership fee*	*Raju M*	*-*	*-*	*3,845*
	2	*Renewal of IEEE Membership fee*	*Deepa A K*	*-*	*-*	*2,790*
	3	*Renewal of IEEE Membership fee*	*C V Anil Kumar*	*-*	*-*	*2,630*

	4	*Expert Talk on Applied Mathematic*	*Dr. V P N Nampoori*	*3,750*	*3,000*	*4,386*
Total				***22,326***	***14,000***	***20,850***

4. Year wise Expenditure details of all the sub-activities in Faculty and Staff Development

4 a. Expenditure on Faculty with B Tech enrolled for M Tech against total B Tech faculty				
Financial Year of acquirement	*Sl. No*	*Name of Faculty*	*Institution in which is enrolled*	*Amount*
2012-13	*-*	*-*	*-*	*-*
2013-14	*1*	*Anuja V Nair*	*SCT College of Engg, Thiruvananthapuram*	*35,000*
2014-15	*-*	*-*	*-*	*-*
2015-16	*-*	*-*	*-*	*-*
2016-17	*1*	*Vinod R*	*IIT Madras*	*17,399*
				12,950
				31,040
				13,913
	2	*Sabeena K K*	*CE Thiruvananthapuram*	*32,910*
	3	*Aneesha Muhammed*	*NIT Calicut*	*1,40,000*
Total				***2,83,212***

4.b Expenditure on Faculty with M Tech enrolled for PhD in engineering against total M Tech faculty				
Financial Year of acquirement	*Sl No*	*Name of Faculty*	*Institution in which enrolled*	*Amount*

2012-13	*-*	*-*	*-*	*-*
2013-14	*1*	*Hari V S – Printing charges for PHD Thesis Paper*	*School of Engineering* *Cochin University of Science and Technology*	*13,850*
2014-15	*1*	*Shaji L– Phd Tuition Fee*	*Anna University, Chennai*	*18,000*
	2	*Smitha P– Phd Tuition Fee*	*Anna University, Chennai*	*18,000*
	3	*Raju M– Phd Tuition Fee*	*Karpagam university , Coimbatore*	*29,000*
	4	*Shaji L– Phd Tuition Fee*	*Anna University, Chennai*	*15,100*
	5	*Smitha P– Phd Tuition Fee*	*Anna University, Chennai*	*15,100*
2015-16	*1*	*Raju M – Phd Tuition Fee*	*Karpagam university , Coimbatore*	*23,000*
	2	*Smitha P– Phd Tuition Fee*	*Anna University, Chennai*	*15,100*
	3	*Shaji L– Phd Tuition Fee*	*Anna University, Chennai*	*15,100*
	4	*Smitha P – Printing charges for Phd thesis work*	*Anna University, Chennai*	*12,260*
	5	*Shaji L– Printing charges for Phd thesis work*	*Anna University, Chennai*	*10,640*
	6	*Raju M – Phd Tuition Fee*	*Karpagam university , Coimbatore*	*6,000*
2016-17	*1*	*Raju M– Phd Tuition Fee*	*Karpagam university , Coimbatore*	*29,000*
	2	*Shani Raj – Phd Tuition Fee*	*Karpagam university , Coimbatore*	*29,000*
Total				***2,49,150***

4.c *Expenditure On Faculty Members Attended Training In Subject Domain*							
Financial	*Sl No.*	*Description Of The Programme*	*Name Of Faculty/Staff*	*Institution In Which It Is*	*No Of*	*Amount Course Fee*	*Amt TA/DA)*

Year				Conducted	Days		
2012 -13	-	-	-	-	-	-	-
2013 -14	1	Applications Of Linear Algebra	Remya R S Dr. Shaji L	LBS IT, Thiruvananthapuram	6	-	2,580 2,580
	2	Numerical Simulation Using Matlab	Jayadeep Kumar J	Govt. Engineering College, Barton Hill	6	-	2,580
	3	Recent Trends In Renewable Energy System	Premnath G Libi A	CE, Adoor	5	-	1,832 1,832
	4	Windows And Linux System Administration	Deepa A K Shiny C	NIT, Trichy	4	3,500 3,500	4,910 4,910
	5	STTP On Essentials Of Optimization Techniques	Dr. Ajil Kumar Jayadeep Kumar Sheela R Rethi Kumari	Govt. Engineering College, Trissur	5	5,000 5,000 5,000 5,000	7,662 6,711 6,826 6,826
	6	VLSI Design	Deepa T R Shiny C	Tkm College Of Engineering, Kollam	5	500 500	2,656 2,656
	7	Pattern Recognition	Jyothi R L	Gandhi Institute Of Technology, Kottayam	5	2,000	2,912
	8	Recent Trends In Communications And Signal Processing	Reji Thankachan Sylish S	MNIT, Jaipur	5	2,000 2,000	18,224 18,224
	9	Oracle 11g Data Base Administration	Vinod R	ESCI, Hyderabad	5	28,090	10,836
	10	STTP On Economics And Financing Of Renewable Energy	Dr. Ajil Kumar	IIT, Delhi	4	22,472	26,480

		Technologies					
	11	*Network Administration: Configuring And Securing Lan And Wan*	*Sabeena K* *Jyothi R L* *Anilkumar A*	*ESCI, Hyderabad*	*5*	*22,753* *22,753* *22,753*	*13,443* *13,443* *7,713*
	12	*Testing And Commissioning Of Electrical Equipments In Power Utilities*	*Libi A*	*ESCI, Hyderabad*	*5*	*25,843*	*15,211*
	13	*Intelligent Methods Towards Computational Linguistics*	*Jayakrishnan A* *Abin P R*	*CE, Cherthala*	*6*	*500* *500*	*2,348* *2,348*
	14	*Information Delivery System For Academic And Research Institutions*	*Manoj Ray D* *Kuryachan T D*	*Icfoss And IIITMk, Thiruvananthapuram*	*3*	*5,000* *5,000*	*2,415* *2,806*
	15	*Advanced Communication Technologies*	*Sree S Bhagya* *Santhini Paul* *Meharuniza N* *Remya R S*	*RIT, Kottayam*	*3*	*1,000* *1,000* *1,000* *1,000*	*1,648* *1,648* *1,648* *1,928*
	16	*Research Issues In Data Mining*	*Smitha P* *Shajy L*	*Govt. College Of Engineering, TN*	*7*	*500* *500*	*12,612* *12,612*
	17	*Modern Display Devices Based On Nano Technology*	*Rethi Kumary S*	*CE Adoor*	*1*	*-*	*279*
	18	*Study And Maintenance Of Electrical And Electronics Lab Equipments*	*Vinod S*	*CE, Vadakkara*	*5*	*250*	*5,908*
	19	*Number Theory*	*Seena Jojith*	*LBS IT,*	*3*	*-*	*1,636*

		And Cryptography	*Sreelekshmi M* *Alkha Mohan* *Aiswarya S*	*Poojappura,Tkm*			*1,636* *1,636* *1,636*
	20	*Advanced Digital Signal Processing*	*Haseena P Y* *Libi A* *Aswathy S S* *Akhila L* *Remya A R* *Jeena James* *Reshmi V S* *Aryamol Sudhakaran*	*TKM College Of Engineering, Kollam*	*5*	*500* *500* *500* *500* *500* *500* *500* *500*	*2,558* *2,558* *2,168* *2,168* *2,168* *2,168* *2,168* *2,168*
	21	*Research Issues In Heterogeneous Wireless Networks*	*Sylish S V* *Vinod R*	*Pondicherry Engineering College*	*5*	-	*8,857* *8,857*
	22	*Advanced DBMS*	*Santhini Paul*	*CE, Perumon*	*3*	*2,500*	*1,702*
	23	*Emerging Trends In Power Sector*	*Reshmi V S* *Vinod S* *Sabeena A*	*PRS College Of Engineering And Technology, TVM*	*2*	*1,000* *1,000* *1,000*	*1,488* *1,488* *1,488*
	24	*Research Document Preparation Using Latex*	*Remya R S*	*CE, Thiruvananthapuram*	*5*	-	*2,690*
	25	*Linera Algebra*	*Sheela R* *Meharuniza Nazim*	*LBS IT, Thiruvananthapuram*	*5*	-	*2,910* *2,036*
	26	*Application Development Using Java*	*Sabeena K* *Anilkumar A*	*Tkm Engineering College, Kollam*	*3*	-	*2,252* *2,427*
	27	*Advanced Techniques For Satellite Analysis*	*Reji Thankachan* *Deepa V S* *Dr. Hari*	*IIT, Mumbai*	*5*	-	*23,601* *23,884* *24,015*

			Sylish S *Jyothi R L*				*23,569* *23,434*
	28	*Fuzzy Systems And Applications*	*Remya R S*	*NIT Thiruchirappally*	*1*	*1,000*	*5,119*
	29	*Parallel Computing Using Cuda*	*Manoj Raj D* *Geetha S,* *Sabeena K*	*Govt. Engineering College, Thiruvananthapuram*	*3*	*-*	*2,092* *2,092* *2,092*
	30	*Training On Financial Management And Efmr*	*Libi A* *Dr. Shaji L*	*CET*	*1*	*-*	*1,692* *1,692*
	31	*Network On Chip*	*Geetha S* *Smitha P* *Remya R* *Shaji L*	*Tkm College Of Engineering, Kollam*	*2*	*-*	*2,024* *2,024* *2,024* *2,024*
	32	*Robotics and embedded systems*	*Deepa T R*	*CE Perumon*	*5*	*3,000*	*2,528*
	33	*Linux Server Administration*	*Kuryachan T D* *Anilkumar A*	*ESCI, Hyderabad*	*4*	*22,472* *22,472*	*6,548* *6,548*
	34	*Design And Analysis Of Algorithm*	*Sabeena K* *Jyothi R L*	*IIITM-K, Technopark, Thiruvananthapuram*	*5*	*1,500* *1,500*	*2,528* *2,528*
	35	*Industrial Automating System - Programmable Logic Controllers And Scada System (Plcs)*	*Sabeena A* *Aryamol Sudhakaran*	*College Of Engg, Cherthala*	*5*	*500* *500*	*2,413* *2,413*
	36	*Research Methods, Issues And Challenges*	*Shaji L*	*CE Perumon*	*6*	*5,000*	*2,758*
	37	*Workshop On Open Software For*	*Jincy William*	*CE, Thalassery*	*5*	*500*	*1,512*

		Library Management Using Koha					
	38	*Workshop On Open Source Software For Library Managementsing KOHA and Dspace*	*Jincy William*	*CE, Cherthala*	*3*	*500*	*873*
	39	*National Workshop On Advanced Research And Development Activities*	*Deepa A K* *Remya R S*	*ISTE, Hotel ITC Gardenia,Bangalore*	*3*	*25,000* *25,000*	*5,091* *4,476*
	40	*Data Mining Techniques*	*Shajy L*	*CE Kidangoor*	*3*	*500*	*2,219*
2014 -15	*1*	*STTP On Telecommunication Networks With State - Of - The - Art Hands On Experiments*	*Sylish S V* *Vinod R* *Kuryachan T D*	*IIT Kharagpur*	*8*	*10,000* *10,000* *10,000*	*24,229* *22,629* *14,966*
	2	*STTP On Mobile Computing And Communication*	*Dr. C Gopakumar* *Remya R S* *Smitha P* *Libi A* *Deepa A K* *Deepa V S*	*NIT Delhi*	*5*	*1,000* *1,000* *1,000* *1,000* *1,000* *1,000*	*34,206* *13,643* *33,356* *33,406* *33,406* *33,406*
	3	*Mechatronics, Mems And Micro-Fabrication*	*C V Anil Kumar* *Jayadeep Kumar J*	*IIT Indore*	*5*	*6,000* *6,000*	*23,053* *23,053*
	4	*STTP On Recent Advances In Biomedical Engineering*	*Remya R S*	*CET*	*6*	*-*	*2,808*
	5	*Network Security*	*Sylish S V*	*ESCI*	*5*	*22,753*	*17,921*

		Administration	*Binu V P* *Kuryachan T D* *Anilkumar A*	*Hyderabad*		*22,753* *22,753* *22,753*	*17,921* *7,849* *7,849*
	6	*STTP on Information Security*	*Sree S Bhagya* *Seena Jojith*	*LBS IT, Poojappura*	*3*	*-*	*1,636* *1,636*
	7	*STTP On Modern Trends In Energy, Environment And Green Technology*	*Jayadeep Kumar J*	*School Of Engg. CUSAT, Cochin*	*5*	*1,000*	*4,533*
	8	*FDP On Research Trends In Semi Conductor Device Modelling And Fabrication*	*Renjini S* *Aswathy S S*	*CE Cherthala*	*5*	*1,000* *1,000*	*2,198* *2,198*
	9	*Pedagogy Implementation In Mathematics For Engineering Education*	*Reji Thankachan* *Libi A* *Remya R S* *Anuja V Nair*	*IIT Guwahati*	*5*	*-*	*28,921* *29,453* *29,453* *28,253*
2015 -16	*1*	*Microsoft Saksham IT Championship*	*Remya R S*	*Mar Baselious College Of Engineering & Technologies*	*5*	*-*	*2,818*
	2	*Power Industry - Familiarisation At PETARC*	*Raju M* *Ajmal K*	*PETARC, Moolamattom, Idukki*	*3*	*10,000* *10,000*	*2,191* *1,700*
	3	*FDP On Research Methodology*	*Anu Mohan*	*CE Adoor*	*5*	*1,000*	*878*
	4	*STTP On Solar Energy Conversion And Management*	*Raju M*	*IIT Guwahati*	*5*	*-*	*32,772*
	5	*Clean Energy System And Technology*	*Ajmal K* *Raju M* *Interest for Delay*	*NIT Goa*	*3*	*5,000* *5,000*	*10,496* *9,584* *-25*

	6	*FDP On Microcontroller And Its Application To Power Convertors*	*Raju M*	*IIT Roorkee*	*5*	-	*28,607*
	7	*Language Computing*	*Jyothi R L* *Sylish S V* *Anilkumar A*	*CDAC Vellayambalam*	*5*	*28,625* *28,625* *28,625*	*2,493* *1,610* *2,493*
	8	*Computational Fluid Dynamics*	*Baiju V* *Premnath G*	*CE Adoor*	*5*	*5,000* *5,000*	*1,218* *1,218*
	9	*FDP On Research Methodology For Science, Engineering And Management*	*Haseena P Y* *Prema kumary K R*	*NIT Calicut*	*5*	*7,500* *7,500*	*2,432* *2,573*
	10	*Fdp On Signal Processing For Biomedical Applications*	*Haseena P Y*	*MES College Of Engineering Kuttipuram*	*5*	*2,000*	*2,654*
	11	*Fdp On Electrical System Design And Electrical Cad*	*Meera Murali* *Preema R Chandran*	*E Vadakkara*	*5*	*1,500* *1,500*	*2,988* *2,988*
	12	*Summer School On Image Processing*	*Dr. C Gopakumar* *Anuja V Nair* *Jyothi R L* *Remya R S* *Anilkumar A*	*NIT Kurushetra*	*5*	*1,500* *1,500* *1,500* *1,500* *1,500*	*38,550* *36,054* *29,338* *36,054* *18,585*
	13	*STTP On Antennas And Microwave Passive Components- Design & Measurements*	*C V Anil Kumar* *Dr. C Gopakumar*	*IIT Kharagpur*	*7*	*15,000* *15,000*	*29,404* *29,404*
	14	*Phd Synopsis Submission- Smitha P*	-	-	-	-	*7,524*

	15	*Phd Synopsis Submission- Shaji L*	*-*	*-*	*-*	*-*	*7,494*
2016 -17	*1*	*FDP On Semi Conductor Devices, Circuits And Systems - With A Research Perspective*	*Retheekumary S* *Santhi Vijai* *Shamna S S* *Subeena H* *Niyas S K*	*Model Finishing School, Thiruvananthapuram*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000*	*2,033* *1,526* *1,526* *1,526* *1,526*
	2	*Computer Simulation And Visualization Tools For Research*	*Binu V P* *Manoj Ray D* *Sheena S Nowshad* *Sethu Lekshmi U S* *Tintumol C R*	*MEC, Thrikakkara*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000*	*2,192* *-* *1,648* *1,648* *1,648*
	3	*Cyber Security: An Investigator's Perspective*	*Sabeena K* *Anilkumar A* *Jyothi R L* *Retheekumary S* *Sheela R* *Remya R S* *Ganesh B* *Shani Raj* *Geetha S* *Dr. Geetha S* *Revikumar ThampiV R*	*Model Finishing School, Thiruvananthapuram*	*5*	*35,000* *35,000* *35,000* *35.000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*1,920* *1,920* *1,920* *2,033* *2,033* *1,920* *1,920* *1,920* *1,920* *2,033* *1,920*
	4	*Research Trends In Computing Algorithm*	*Alkha Mohan* *Arya Chandran* *Hariharan*	*MEC, Thrikkakkara*	*5*	*35,000* *35,000* *35,000*	*1,558* *1,558* *1,558*

			Manoj Ray D *Swetha Saira Appoose*			*35,000* *35,000*	*-* *1,558*
	5	*Cyber Defense And Forensic Investigation*	*Binu V P*	*ESCI Hyderabad*	*5*	*28,750*	*9,853*
	6	*Essentials Of Energy Management*	*Revikumar Thampi V R* *Dr. Ajil Kumar A* *Baiju V* *Radhika R Chandran* *Reshma Ittiachan* *Seena Mathew*	*MEC, Ernakulam*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*1,960* *1,960* *2,176* *1,558* *1,558* *1,558*
	7	*EDA Tools And Advances In Signal Processing*	*Aagi A S* *Binu V P* *Niyas S K* *Shamna S S* *Shani Raj*	*MEC , Thrikkakkara*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000*	*1,462* *2,193* *1,462* *1,462* *1,968*
	8	*Power Industry Familiarization For Engg. Faculty*	*Libi A* *Haseena P Y* *Deepa A K* *Sylish S V*	*PETARC, Moolamattom*	*3*	*13,800* *13,800* *13,800* *13,800*	*2,028* *2,028* *2,078* *2,078*
	9	*Current Trends In Non -Conventional Energy Based Systems*	*Baiju V* *Libi A* *Manu Madhavan*	*CE , Chenganoor*	*5*	*35,000* *35,000* *35,000*	*1,704* *1,704* *1,294*
	10	*Knowledge On Virtual Instrumentation For Engineers*	*Dr. C Gopakumar* *Deepa T R*	*CE , Chenganoor*	*5*	*35,000* *35,000* *35,000*	*1,628* *1,628* *1,662*

			Raju M				
	11	*Mechatronics Automation And Robotics*	*Ganesh R* *Revikumar Thampi V R* *Premnath G* *Sajan J Mathew*	*MEC , Ernakulam*	*5*	*35,000* *35,000* *35,000* *35,000*	*1,911* *1,974* *1974* *1558*
	12	*Research Area In Biomedical Engineering*	*Haseena P Y* *Leena B R*	*MEC , Ernakulam*	*5*	*35,000* *35,000*	*1,912* *1,533*
	13	*Power System, Devices And Control - Practical Aspects*	*Deepthi P K* *Libi A* *Manu Madhavan* *Seena Mathew* *Subeena H*	*MEC , Ernakulam*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000*	*1,458* *1,968* *1,458* *1,458* *1,458*
	14	*Application Of Custom Power Devices For Power Quality Improvement*	*Raju M*	*MNIT, Jaipur*	*3*	*2,500*	*2,0652*
	15	*Recent Trends In Robotics*	*Hariharan R* *Arya Chandran* *Dr C Gopakumar* *Remya R S* *Revikumar Thampi* *Seena Mathew* *Ganesh R* *Baiju V*	*CE Chenganoor*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*1,440* *1,440* *1,966* *-* *1,966* *1,440* *1,854* *1,,966*
	16	*Research Simulations And Predictive Analysis*	*Arya Chandran S* *Hariharan R L*	*MEC Thrikkakara*	*5*	*35,000* *35,000*	*1,417* *1,417*

			Sethulekshmi U S *Sheena S Noushad* *Tintumol C R*			*35,000* *35,000* *35,000*	*1,417* *1,417* *1,417*
	17	*Computer Aided Drafting And Design*	*Aagi A S* *Alkha Mohan* *Ganesh R* *Raju M* *Subeena H*	*MEC Thrikkakara*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000*	*1,825* *1,825* *2,355* *2,435* *1,825*
	18	*Hands On Training In Open Source Tools For Kernel Programming And Administration*	*Arya Chandran S* *Binu V P* *Hariharan R L* *Niyas S K* *Remya R S* *Sajan J Mathew* *Swetha Saira Appoose* *Tintumol C R*	*MEC Thrikkakara*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*1,795* *2,370* *1,795* *1,795* - *1,795* *1,795* *1,795*
	19	*FDP On Transforms: Techniques And Applications*	*Anilkumar A* *Dr. C Gopakumar* *Jyothi R L* *Premakumary K R* *Remya R S* *Reshma Ittiachan* *Sheena S Noushad* *Renu K K*	*CE Kallooppara*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*2,384* *2,810* *2,215* *2,890* *952* *1,805* *1,805* *2,839* *1,805*

			Sethulekshmi U S				
	20	*Design And Engineering*	*Baiju V* *Dr. Ajil Kumar A* *Ganesh R* *Libi A* *Manu Madhavan* *Premnath G* *Revikumar Thampi V R* *Sylish S V* *Deepa A K*	*CE Trivandrum*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*2,430* *2,430* *2,,350* *2,430* *1,513* *2,430* *2,430* *2,430* *2,430*
	21	*Tools Techniques For Processing Digital Image*	*Deepa A K* *Alkha Mohan* *Sabeena K* *Geetha S* *Smitha P* *Shaji L* *Deepthi P K* *Sajan J Mathew*	*CE Chenganur*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*2,330* *1,481* *1,481* *2,330* *2,330* *2,330* *1,481* *1,481*
	22	*Advances In Automation And Computing*	*Alkha Mohan* *Arya Chandran* *Deepa T R* *Ganesh R* *Jayakrishnan* *Nimmi* *Remya R S* *Sabeena*	*Model Finishing School, Thiruvananthapuram*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*1,510* *1,510* *1,920* *1,920* *1,510* *1,510* *1,920* *1,920*

			Sree S Bhagya			*35,000*	*1,510*
			Sylish S V			*35,000*	*2,033*
			Vidya S			*35,000*	*1,510*
	23	*Medical Imaging Techniques*	*Geetha S*	*IIT Delhi*	*5*	*-*	*17,686*
			Remya R S				*10,019*
			Sabeena K				*17,686*
			Smitha P				*18,098*
			Shajy L				*12,151*
	24	*FDP On Estimation And Detection Theory*	*Aswathy S S*	*CE Cherthala*	*3*	*500*	*1,808*
	25	*Advanced Linux Administration*	*Anu Mohan*	*Model Finishing School, Thiruvananthapuram*	*5*	*35000*	*1,469*
			Arya A P			*35,000*	*1,469*
			Aryachandran S			*35,000*	*1,469*
			Nimmi V			*35,000*	*1,469*
			Remya R S			*35,000*	*1,895*
			Prasanthi R S			*35,000*	*1,469*
			Sheela R			*35,000*	*2,001*
			Sree S Bhagya			*35,000*	*1,469*
			Vidya S			*35,000*	*1,469*
	26	*Recent Advances In Computing*	*Anilkumar A*	*MEC, Thrikkakkara*	*5*	*35,000*	*2,030*
			Binu V P			*35,000*	*2,240*
			Geetha S			*35,000*	*1,968*
			Jisy Raju			*35,000*	*1,558*
			Jyothi R L			*35,000*	*1,968*
			Manoj Ray D			*35,000*	*-*
			Shani Raj			*35,000*	*1,968*
			Smitha P			*35,000*	*2,158*
			Subeena H			*35,000*	*1,558*
	27	*Control And*	*Ajmal K*	*MEC,*	*5*	*35,000*	*1,558*

		Optimization Techniques : An Engineering Approach	*C V Anilkumar* *Haseena P Y* *Libi A* *Reshma Ittiachan* *Revikumar Thampi V R*	*Thrikkakkara*		*35,000* *35,000* *35,000* *35,000* *35,000*	*2,208* *2,080* *2,208* *1,558* *2,208*
	28	*Recent Trends In Data Mining Techniques*	*Binu V P* *Shani Raj* *Remya R S* *Sylish S V* *Reji Thankachan*	*CE Kalloppara*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000*	*2,193* *1,968* *1,968* *1,968* *1,968*
	29	*Big Data Analytics, Machine Learning And Cloud Computing*	*Anilkumar A* *Arya chandran* *Hariharan R L* *Niyas S K* *Swetha Saira Appose*	*MEC, Thrikkakkara*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000*	*2,289* *1,845* *1,845* *1,845* *1,845*
	30	*Gian Course Mobile System Security*	*Shani Raj* *Binu V*	*MNIT Jaipur*	*5*	*3,500* *3,500*	*27,809* *28,649*
	31	*Advances In Control System*	*Libi A* *Haseena P Y*	*Dr. Babasaheb Ambedkar Technical* *University, MH*	*5*	*5,000* *5,000*	*19,464* *19,464*
	32	*Advanced optimization Techniques*	*Dr. Shajy L* *Dr. C Gopakumar* *Sabeena K* *Geetha S*	*MNIT, Jaipur*	*5*	*3,000* *3,000* *3,000* *3,000*	*26,512* *34,855* *28,287* *28,287*
	33	*FDP On Cyber Security Analytics*	*Revikumar Thampi V R*	*Model Finishing School,*	*5*	*35,000*	*2,203*

			Ganesh R *Shamna S S*	*Thiruvananthapuram*		*35,000* *35,000*	*2,205* *1,803*
	34	*FDP On Big Data Analytics Using Hadoop And R Tool*	*Kuryachan T D* *Reji Thankachan* *Deepa T R*	*ESCI, Hotel Welbeck Residency, Ooty*	*5*	*30,000* *30,000* *30,000*	*3,270* *3,102* *3,102*
	35	*STTP On Data Analysis For Research And Publication*	*Anilkumar A,* *Shajy L* *Jyothi R L* *Dr. C. Gopakumar*	*IIT Roorkee*	*3*	*9,000* *9,000* *9,000* *9,000*	*17,454* *17,454* *15,466* *17,343*
	36	*Dc Smart Grids: Renewable Integration Energy Storage And System Operation*	*Radhika R Chandran* *Reshma Ittiachan* *Seena Mathew*	*MNIT Jaipur*	*5*	*4,000* *4,000* *4,000*	*12,656* *12,656* *12,656*
	37	*IAPR Summer School On Document Informatics*	*Jyothi R L* *Anilkumar A*	*Birla InstituteoOf Scientific Research,Jaipur*	*6*	*10,000* *10,000*	*24,995* *22,507*
	38	*NBA - SAR Filing And Preparedness For Assessment*	*Raju M* *Binu V P* *Remya R S* *Deepa T R*	*ESCI, GOA*	*3*	*34,500* *34,500* *34,500* *34,500*	*6,234* *6,056* *6,284* *2,744*
	39	*FDP On Applied Mathematics In Engineering*	*Remya R S* *Radhika R Chandran* *Seena Mathew*	*CE POONJAR*	*5*	*35,000* *35,000* *35,000*	*996* *1,436* *1,436*
	40	*Introduction to Cryptography*	*Binu V P* *Shani Raj*	*IIT Kharagpur*	*5*		*22,469* *21,681*
	41	*FDP on Semiconductor*	*C V Anilkumar*	*Model Engineering*	*5*	*35,000*	*1,970*

		Devices from Micro to Nano	*Leena B R* *Shamna S S* *Niyas S K* *Seena Mathew* *Radhika R Chandran*	*college, Thrikkakara*		*35,000* *35,000* *35,000* *35,000* *35,000*	*1,970* *3,050* *1,970* *1,900* *1,970*
	42	*Dr. Shajy L* *Dr. Smitha P*	*Fundamental Algorithms : Design and Analysis*	*IIT Kharagpur*	*5*		*15,243* *20,957*
	43	*Arya Chandran S* *Binu V P* *Deepthi P K* *Hariharan R L* *Niyas S K* *Subeena H* *Swetha Saira Appose* *Shani Raj*	*Internet of Things*	*Model Finishing School Kochi*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*1,825* *2,640* *1,825* *1,825* *1,825* *1,825* *1,825* *2,240*
	44	*Aagi S* *Deepa T R* *Dr. Hari V S* *Raju M* *Reji Thankachan* *Shani Raj* *Shiny C* *Dr. C Gopakumar*	*An Insight into DSP*	*CE Kottarakkara*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*-* *-* *-* *736* *-* *-* *-* *-*
	45	*Haseena P Y* *Manu Madhavan* *Shamna S S* *Leena B R*	*Road map to Research in Electrical and electronics and computing*	*CE Poonjar*	*5*	*35,000* *35,000* *35,000* *35,000*	*2,472* *2,061* *2,061* *2,061*

		Geetha S				*35,000*	*2,472*
	46	*Remya R S* *Libi A* *Haseena P Y*	*STTP on Research Methodology*	*MNIT Jaipur*	*5*	*4,000* *4,000* *4,000*	*20,939* *18,947* *18,947*
	47	*Dr. Ajilkumar A* *Deepa T R* *Haseena P Y* *Jyothi R L* *Meera Murali* *Premakumari K R* *Reji Thankachan* *Renu K K* *Sabeena K K* *Dr. Smitha P* *Sylish S V* *Anilkumar A* *Sylish S V*	*Quality enhancement initiatives in educational institutions*	*CE Chenganur*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*2,330* *2,330* *2,200* *2,200* *2,200* *1,481* *2,330* *2,330* *2,330* *2,200* *2,330* *2,330* *2,330*
	48	*Remya R S* *Sabeena K* *Jyothi R L* *Anilkumar A*	*Theory of computational and complexity theory*	*Model finishing school cochin*	*5*	*35,000* *35,000* *35,000* *35,000*	*1,000* *2,450* *2,,270* *2,270*
	49	*Arya Chandran S* *Binu V P* *Hariharan R L* *Niyas S K* *Leena B R* *Shamna S S* *Shani Raj* *Subeena H* *Swetha Saira*	*Big data analytics and cloud computing*	*Model Finishing School, Cochin*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*1,825* *2,,640* *1,825* *1,825* *1,825* *1,825* *2,270* *1,825* *1,825*

		Apoose					
	50	*Shiny C* *Deepa T R* *Geetha S* *Revikumar Thampi* *V R Seena* *Mathew* *Meera Murali* *Aagi A S* *Sheena S* *Noushad*	*Technology Innovation and Entrepreneurship*	*Model finishing school cochin*	*5*	*35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000* *35,000*	*2,270* *2,110* *2,240* *2,270* *1,845* *1,845* *1,845* *1,845*
Total						***86,94,195***	***23,32,823***

4.d Expenditure on faculty members attended pedagogical training

Financial Year.	*Sl No*	*Name of Faculty*	*Designation(Principal, Prof, Assistant Prof, Lab staff, Librarian etc)*	*Institution in which it is conducted*	*No of days*	*Amount Course fee*	*Amount TA/DA*
2012-13	*-*	*-*	*-*	*-*	*-*	*-*	*-*
2013-14	*1.*	*Remya R S*	*Asst. Professor in CS*	*KTDC, Chaitram Hotel, TVM*	*3*	*30,000*	*1,712*
	2.	*Deepa T R*	*Asst. Professor in EC*			*30,000*	*1,712*
	3.	*Sabeena K*	*Asst. Professor in CS*			*30,000*	*1,712*
	4.	*Anuja V Nair*	*Asst. Professor in EC*			*30,000*	*1,712*
2014-15	*1*	*Remya R S*	*Asst. Professor in EC*	*CET TVM*	*2*	*2,809*	*2208*
	2	*Anuja V Nair*	*Asst. Professor in EC*	*CET TVM*	*2*	*2,809*	*2,208*
	3	*Mili Roseline Mathews*	*Asst. Professor in EC*	*CET TVM*	*2*	*2,809*	*2,208*
	4	*SPFU - Registration Fees*	*-*	*-*	*-*	*72,186*	*-*
2015-16	*1*	*Alkha Mohan*	*Asst. Professor in CS*	*Teaching Learning Centre, IIT Madras*	*-*	*-*	*4,157*
	2	*Lissy Raju*	*Asst. Professor in CS*		*-*	*-*	*4,157*
	3	*Sree S Bhagya*	*Asst. Professor in CS*		*-*	*-*	*4,157*
	4	*Jayakrishnan A*	*Asst. Professor in CS*		*-*	*-*	*3,748*

	5	Nimmi V	Asst. Professor in CS		-	-	3,748
	6	Reshmi Ramachandran	Asst. Professor in CS		-	-	3,748
	7	Deepa A K	Asst. Professor in EC		-	-	5,032
	8	Sylish S V	Asst. Professor in EC		-	-	8,177
	9	Reji Thankachan	Asst. Professor in EC		-	-	5,000
	10	Deepa V S	Asso. Professor in EC		-	-	8,177
	11	Aswathy S S	Asst. Professor in EC		-	-	3,357
	12	Chippy Vijayan	Asst. Professor in EC		-	-	3,357
	13	Renjini S	Asst. Professor in EC		-	-	3,357
	14	Libi A	Asst. Professor in EE		-	-	4,678
	15	Haseena P Y	Asst. Professor in EE		-	-	4,678
	16	Preema R Chandran	Asst. Professor in EE		-	-	3,357
	17	Jayadeep Kumar	Asst. Professor in ME		-	-	5,000
	18	Premnath G	Asst. Professor in ME		-	-	5,000
	19	Ganesh R	Asst. Professor in ME		-	-	13,180
	20	Renu K K	Asso. Professor in AS		-	-	14,175
	21	Sheela R	Asst. Professor in AS		-	-	13,367
	22	Retheekumary S	Asst. Professor in AS		-	-	13,367
	23	Jyothi R L	Asst. Professor in CS		-	-	10,023
	24	Mili RoselineMathews	Asst. Professor in EC		-	-	10,023
	25	Raju M	Asst. Professor in EE		-	-	5,175
	26	Dr. Ajilkumar A	Asso.Professor in ME		-	-	5,175
	27	RevikumarThampi V R	Asst. Professor in ME		-	-	5,175
	28	Deepa T R	Asst. Professor in EC			-	10,023
	29	Anuja V Nair	Asst. Professor in EC			-	7,891
2016-17	1	Shamna S S	Asst. Professor in EC		-	-	3,758
	2	Meera Murali	Asst. Professor in EE		-	-	3,758
	3	Reshma Ittiachan	Asst. Professor in EE	Teaching	-	-	3,758

	4	*Arya A P*	*Asst. Professor in EE*	*Learning Centre, IIT Madras*	*-*	*-*	*3,758*
	5	*Remya R S*	*Asst. Professor in CS*		*-*	*-*	*9,135*
	6	*Dr.Smitha P*	*Asst. Professor in CS*		*-*	*-*	*8,541*
	7	*Binu V P*	*Asst. Professor in CS*		*-*	*-*	*9,487*
	8	*Geetha S*	*Asst. Professor in CS*	,	*-*	*-*	*8,195*
	9	*Shani Raj*	*Asst. Professor in EC*		*-*	*-*	*8,195*
	10	*Shiny C*	*Asst. Professor in EC*		*-*	*-*	*9,135*
	11	*Dr.C Gopakumar*	*Asst. Professor in EC*		*-*	*-*	*9,150*
	12	*C V Anil Kumar*	*Asst. Professor in EC*		*-*	*-*	*8,047*
	13	*Baiju V*	*Asst. Professor in ME*		*-*	*-*	*8,486*
	14	*Prema kumary K P*	*Asst. Professor in AS*		*-*	*-*	*8,047*
	15	*Dr.Geetha S*	*Asst. Professor in CS*		*-*	*-*	*8,322*
	16	*Aryachandran S*	*Asst. Professor in CS*		*-*	*-*	*3,289*
	17	*Hariharan R L*	*Asst. Professor in CS*		*-*	*-*	*3,289*
	18	*Niyas S K*	*Asst. Professor in EC*		*-*	*-*	*3,289*
	19	*Sajan J Mathew*	*Asst. Professor in EE*		*-*	*-*	*3,289*
	20	*Santhi Vijai*	*Asst. Professor in EC*		*-*	*-*	*3,289*
	21	*Swetha Saira Annese*	*Asst. Professor in CS*		*-*	*-*	*3,289*
	22	*Sethulekshmi U S*	*Asst. Professor in CS*		*-*	*-*	*3,337*
	23	*Tintumol C R*	*Asst. Professor in CS*		*-*	*-*	*3,337*
	24	*Sheena A Nowshad*	*Asst. Professor in CS*		*-*	*-*	*3,337*
	25	*Sabeena K*	*Asst. Professor in CS*		*-*	*-*	*4,935*
	26	*Aagi S*	*Asst. Professor in CS*		*-*	*-*	*3,822*
	27	*Deepthi P K*	*Asst. Professor in EE*		*-*	*-*	*3,812*
	28	*Radhika R Chandran*	*Asst. Professor in EE*		*-*	*-*	*3,812*
	29	*Seena Mathew*	*Asst. Professor in EE*		*-*	*-*	*3,812*
	30	*Leena B R*	*Asst. Professor in EC*		*-*	*-*	*4,585*
	31	*Subeena H*	*Asst. Professor in EC*		*-*	*-*	*4,585*
	32	*Sauda M S*	*Asst. Professor in EC*		*-*	*-*	*4,585*
Total						***2,00,613***	***3,77,396***

4.e Expenditure on organising in-house subject area training Programs/ Workshops/ seminars / conferences / continuing education programs.

Financial Year	*Sl. No*	*Description of the program*	*Venue*	*Name of Co-ordinator*	*No of days*	*No of beneficiaries*	*Expenditure*			*IRG generated*
							TA/ DA	*Honorarium*	*others*	
2012-13	-	-	-	-	-	-		-		-
2013-14	*1.*	*Web Technology through PHP*	*College Of Engineering Karunagappally*	*Smitha P*	*6*	*27*	*-*	*36,000*	*47,350*	-
	2.	*Speech Processing*		*Deepa V S*	*3*	*30*	*21,500*	*-*	*14,109*	-
	3.	*Data Science And Engineering*		*Geetha S*	*6*	*19*	*15,050*	*27,000*	*36,817*	-
	4.	*VLSI Design*		*Deepa T R*	*6*	*32*	*10,960*	*21,000*	*40,239*	-
	5.	*Recent Areas In Image Processing*		*Jyothi R L*	*1*	*30*	*1,748*	*3,000*	*3,038*	-
	6.	*Energy Management And Recent Trends In Power*		*Haseena P Y*	*5*	*42*	*10,210*	*21,000*	*29,935*	-
	7.	*Recent Trends In Signal Processing*		*Anisha Muhammed*	*6*	*35*	*42,153*	*28,000*	*36,510*	-
	8.	*Soft Computing Theory And Techniques*		*Remya R S*	*7*	*42*	*57,371*	*34,000*	*59,336*	-
	9.	*Advance In Algorithm - A Design And Analysis Perspective*		*Manoj Ray D, Sabeena K*	*4*	*36*	*13,135*	*24,000*	*40,355*	-

	10.	*Expert Lecture On Data Mining Models And Techniques*		*Smitha P*	*1*	*23*	*2,685*	*3,000*	*3,082*	-
	11.	*Expert Lecture On Computer Graphics - Open Gl Techniques*		*Diana*	*1*	*30*	*2,575*	*3,000*	*2,000*	-
	12.	*Expert Lecture On Fundamentals Of Spectral Estimation*		*Deepa T R*	*2*	*35*	*1,926*	*6,000*	*4,480*	-
	13.	*Virtual Instrumentation Using Labview*		*Sylish S V*	*5*	*35*	*9,254*	*30,000*	*53,009*	-
	14.	*Workshop On Multimedia Using 3d Max*		*Vinod R*	*3*	*30*	-	*18,000*	*23,892*	-
	15.	*Workshop On Random Processes And Applications*		*Premakumary K R* *Sheela R*	*3*	*41*	*15,817*	*20,000*	*24,386*	-
	16.	*Workshop On Power System Analysis And Load Despatch*		*Haseena P Y*	*2*	*35*	*1,850*	*9,000*	*18,540*	-
	17.	*Workshop On Content Management System Using Joomla*		*Anil Kumar A*	*3*	*30*	*3,040*	*9,000*	*24,209*	-
	18.	*Linux Administration And Networking*		*Shaji L*	*3*	*30*	*2,880*	*18,000*	*21,225*	-
2014-15	*1.*	*Expert Lecture On Introduction To Linux*	*College Of Engin*	*Remya R S*	*1*	*16*	*1,702*	*3,000*	*1,920*	-

	2.	Expert Talk On Speech Compression	eering Karunagappally	Shiny C	3	20	2,376	6,000	6,400	-
	3.	Expert Talk On Compression Standards		Shiny C	1	24	2,156	3,000	4,640	-
	4.	Stochastic Methods In Analysis And Processing Of Digital Images		Jyothi R L	3	33	6,665	12,000	32,163	3,000
	5.	Expert Talk On Tools & Techniques In Speech Processing		Deepa V S	1	19	2,104	3,000	1,800	-
	6.	Workshop On Vedic Mathematics In Engineering		Premnath G	3	50	13,228	25,000	25,073	2,000
	7.	Workshop On Open Source Hardware With State Of The Art Hands On Experiment		Kuryachan T D	3	30	5,051	15,000	27,976	6,000
	8.	Workshop On Latex		Remya R S	3	40	7,137	18,000	33,186	-
	9.	Open Source Tools In Signal Processing		MiliRoseline Mathews Anuja V Nair	3	40	5,525	15,000	31,481	-
	10.	Workshop On Micro Controller Programming		Dr. C Gopakumar	3	35	5,470	12,000	19,955	-
	11.	Advanced Communication Technologies		Anuja V Nair Remya R	7	40	12,510	27,000	39,133	-

				S						
2015-16	1.	STTP On Recent Issues In Biomedical Research	College Of Engineering Karunagappally	Remya R S	3	43	9,815	15,000	28,611	1,500
	2.	Linear Algebra And Its Applications		Binu V P	3	44	12,576	18,000	30,065	-
	3.	Mechatronics Robotics Mems		Raju M	3	52	18,118	16,500	46,715	2,500
	4.	Research Issues And Emerging Trends In Control & Automation Engineering		Libi A	5	67	98,849	36,000	71,173	-
	5.	Advancements And Algorithms In Image Processing		Shani Raj	6	64	14,752	27,000	56,797	4,000
	6.	Hands On Training In Labview And Usrp		Deepa T R Subeena H	6	26	12,486	30,000	67,330	-
	7.	PCB Design And Fabrication Techniques		Kuryachan T D	3	30	4,417	12,000	21,091	10,000
	8.	Workshop On Statistics Application OfImage Processing And Probability		Geetha S	1	34	2,344	3,000	6,876	-
	9.	Workshop On Introduction To Python Programming		Jyothi R L	1	38	2,694	6,000	5,800	-

	10.	*Workshop On Differential Equations And Applications*		*Sheela R*	*2*	*39*	*5,680*	*19,000*	*29,994*	-
	11.	*Seminar On Satellite Image Processing.*		*Subeena H* *Deepa A K*	*1*	*27*	*1,707*	*3,000*	*1,920*	-
	12.	*Seminar On Multidimensional Signal Processing*		*Subeena H* *RejiThankachan*	*1*	*26*	*3,611*	*5,000*	*2,613*	-
2016-17	*1.*	*How To Do A Good Ph. D And How To Write Papers/ Thesis Using Latex*	*College Of Engineering* *Karunagappally*	*Libi A*	*5*	*51*	*91,348*	*36,000*	*58,674*	-
	2.	*Workshop On Fuzzy Logic And Ann Applications In Engineering*		*Raju M*	*6*	*45*	*51,341*	*36,000*	*72,900*	*5,000*
	3.	*Pre Conference Workshop On Recent Trends In Computing, Communication And Signal Processing*		*Dr.Gopakumar C*	*4*	*26*	*30,788*	*27,000*	*52,657*	-
	4.	*Expert Talk on Applications of Image Transforms*		*Reji Thankachan* *Sabeena K*	*1*	*32*	*2,347*	*2,700*	*1,985*	-
	5.	*Workshop On Biomedical Image And Signal Processing*		*Remya R S*	*3*	*30*	*20,450*	*18,000*	*30,646*	-

	6.	*Workshop On Accreditation Procedures ofNBA*		*RevikumarThampi*	*1*	*52*	*2,280*	*3,000*	*11,049*	-
	7.	*Big data networking and platforms design and application*		*Dr.Gopakumar C*	*1*	*34*	*800*	*5,000*	*2,820*	-
	8.	*Workshop On Computer Vision :Techniques And Application*		*Geetha S*	*3*	*35*	*49,243*	*15,000*	*43,185*	-
Total							***7,01,634***	***8,22,525***	***13,18,905***	***34,000***

4.f Expenditure on participation by faculty in Seminar/ Conferences/ workshop etc.

Financial Year	*Sl. No*	*Description of the program*	*Name of participant*	*Name of organiser*	*Venue*	*No of days*	*Registration fee*	*TA/DA*
2012-13		-	-	-	-	-	-	-
2013-14	*1.*	*Computer Hardware Maintenance Networking And recent Advance In Computing And Communication*	*Santhini Paul*	*Rajagiri School Of Engineering Technology*	*CET Rajagiri School Of Engineering Technology*	*3*	*2,500*	*1,748*
	2.	*National Workshop On Accreditation And Autonomy*	*Anuja V Nair* *Shiny C* *Sheela R* *Rethy Kumary* *Remya R S*	*ISTE – WPLP*	*Hotel Singaar International, Kanyakumari*	*3*	*30,000* *30,000* *30,000* *30,000* *30,000*	*1,894* *2,094* *2,094* *2,094* *1,894*

	3.	*National Conference On VLSI And Embedded System Technology Advancements*	*Jeena James*	*Sree Buddha College Of Engineering, Patoor*	*Sree Buddha College Of Engineering, Patoor*	*3*	*1,000*	*1,684*
	4.	*Computer Hardware Maintenance Networking And Trouble Shooting*	*Sreelatha P* *Sreepriya S*	*Tkm College Of Engg, Kollam*	*Tkm College Of Engg, Kollam*	*3*	*-*	*717* *717*
	5.	*Koha Library Management System*	*Haseena K*	*Tkm College Of Engg, Kollam*	*Tkm College Of Engg, Kollam*	*2*	*-*	*717*
	6.	*Research Promotion W/S On Graph Theory*	*Premakumari K R* *Jyothi R L*	*IITM, TVM*	*IITM, TVM*	*3*	*-*	*2,269* *2,062*
2014-15	*1.*	*National Conference On Recent Trends In Electronics World, Retrew 14*	*Reji Thankachan* *Deepa A K*	*TKM IT*	*TKM IT, Kollam*	*1*	*3,000* *1,000*	*1,669* *1,669*
	2.	*Parallel Computing Architecture And Applications On Multicore To Many Core Processing Systems*	*Vinod R* *Manoj Ray D* *Shaji L*	*CDAC & IIT Bombay*	*IIT Bombay*	*5*	*7,500* *7,500* *7,500*	*18,722* *19,522* *11,196*
	3.	*Formulation Of Research And Development Initiatives For Scientists*	*Mili Roseline Mathews* *Remya R S* *Dr. C*	*ESCI Hyderabad*	*ESCI Hyderabad*	*5*	*18,202* *18,202* *18,202*	*15,297* *15,297* *16,429*

			Gopakumar					
	4.	*Workshop On Control Systems*	*Meera Murali* *Preema R* *Chandran*	*IIT Kharagpur*	*IIT Kharagpur*	*11*	*-* *-*	*2,336* *2,336*
	5.	*Image And Video Processing Using Matlab*	*Binu V P*	*IIITM - K*	*IIITM - K, Thiruvananthapuram*	*2*	*6,000*	*6,063*
	6.	*All India Seminar On Accreditation And Quality Assurance In Higher Education Institutions*	*Dr. Ajil Kumar A*	*NSS College Of Engineering, Palakkad*	*NSS College Of Engineering, Palakkad*	*2*	*-*	*4,162*
	7	*First One Day International Seminar - Fostering Alumini Support For Technological Enterpreneurship And Research (Faster 2014)*	*Revi Kumar Thampi V R*	*CERD*	*CET*	*1*	*1,000*	*1,745*
	8.	*12th International Conference On Signal Processing (Icsp' 14)*	*Deepa A K*	*IEEE*	*Wanwarm Hotel, Hangzhou, China*	*5*	*39,032*	*1,28,967*

	9.	*International Conference On Energy, Environment, Materials And Safety (Iceems' 14) 2014 IEEE*	*Jayadeep Kumar J*	*University School Of Engg, Cusat*	*University School Of Engg, Cusat*	*3*	*4,000*	*3,803*
	10.	*Speech Processing*	*Deepa A K* *Deepa V S*	*RIT Kottayam*	*RIT Kottayam*	*2*	*1,000* *1,000*	*2,029* *2,029*
	11.	*National Level Workshop On E- Resources Management Tools, Techniques And Best Practices*	*Jincy William*	*CE Vadakkara*	*CE Vadakkara*	*3*	*500*	*1,280*
	12	*Attended - National Workshop On Koha (Advanced Level)*	*Jincy William*	*University Of Calicut*	*University Of Calicut*	*3*	*2,000*	*1,092*
	13	*Linux Server Administration*	*Dr. Shajy L*	*ESCI HYDERABAD*	*ESCI HYDERABAD*	*5*	*25,281*	*10,349*
	14.	*Assembly Language Programming In Nasm*	*Sajil Daniel John* *Manju J*	*CE Perumon*	*CE Perumon*	*3*	*3,000* *3,000*	*1,540* *1,540*
2015-16	*1*	*Workshop On Advanced Control Engineering (Ace - 2015)*	*Libi A* *Haseena P Y*	*NIT*	*NIT Thiruchirapalli , TN*	*2*	*1,200* *1,200*	*5,311* *5,451*
	2	*Workshop On Cyber Security- Fundamentals And Advancements*	*Binu V P* *Jyothi R L* *Geetha S* *Remya R S*	*IIT*	*IIT, Delhi*	*3*	*-*	*33,870* *33,567* *33,567* *33,567*

	3	*Workshop On Design And Engineering*	*Revikumar Thampi V R*	*KTU*	*CE Trivandrum*	*2*	*-*	*2,083*
	4	*Workshop On Power System Simulation Studies Using Etap Software*	*Arya A P* *Sujitha* *Surendran* *Prasanthi R S*	*Govt. Engg College, Barton Hill*	*Govt. Engg College, Barton Hill*	*2*	*1,000* *1,000* *1,000*	*608* *608* *608*
	5	*National Workshop On Advanced Design Nanoscale Device Using Tcad*	*Renjini S*	*CE Chengannoor*	*CE Chengannoor*	*2*	*500*	*1,480*
	6	*Workshop On Mathematical Analysis And Its Applications To Engineering*	*Anilkumar C V* *Premakumary K R* *Dr. C. Gopakumar*	*IIT Guwahati*	*IIT Guwahati*	*2*	*-*	*4,0994* *4,0994* *4,0994*
	7	*Workshop On English For Writing Ph D Thesis And Journal Papers*	*Smitha P*	*NIT Trichy*	*NIT Trichy*	*3*	*2,000*	*5,937*
	8	*National Workshop On Patents And Intellectual Property Rights*	*Remya R S* *Shani Raj* *Shaji L*	*NIT Goa*	*NIT Goa*	*2*	*2,500* *2,500* *2,500*	*7,878* *7,878* *8,434*
	9	*3rd IEEE International Conference On Moocs, Innovation And Technology In Education*	*Manoj Ray D*	*Amritsar CET, Amritsar*	*Amritsar CET, Amritsar*	*3*	*12,000*	*2,7893*

	10	*IEEE International Conference On Data Mining And Advanced Computing. (Sapience - 16)*	*Alkha Mohan*	*IEEE*	*SN Gurukulam College Of Engg, Ernakulam*	*3*	*8,000*	*1,702*
	11	*International Conference On Engineering And Technology (ICETech 15*	*Remya R S* *Shaji L*	*IEEE*	*Rathinam Technological Campus, Coimbatore, Tamilnadu*	*1*	*3,000* *3,000*	*3,330* *3,772*
	12	*International Conference On Advances In Engineering And Applied Sciences (Icaeas' 15)*	*Shaji L*	*Noorul Islam Universi ty, Kumara coil, Kanyaku mari*	*Noorul Islam University, Kumaracoil, Kanyakumari*	*2*	*7,500*	*2,750*
	13	*International Conference On Advances In Engineering And Applied Sciences (Icaeas' 15)*	*Smitha P*	*Noorul Islam Universi ty, Kumara coil, Kanyaku mari*	*Noorul Islam University, Kumaracoil, Kanyakumari*	*2*	*15,000*	*2,750*
	14	*2014 IEEE International Conference On Computational Intelligence And Computing Research*	*Shajy L*	*ESCI Hyderab ad*	*Park College Of Engineering And Technology, Coimbatore, Tamilnadu*	*3*	*7,500*	*4,828*
	15	*International Conference On Computational Intelligence And Computing Research*	*Smitha L*	*IEEE*	*Park College Of Engineering And Technology, Coimbatore, Tamilnadu*	*3*	*6,500*	*4,828*

	16	*International Conference On Recent Advances In Engineering, Science And Technology (Icon' 15)*	*Shajy L*	*Noorul Islam Universi ty, Kumara coil, Kanyaku mari*	*Noorul Islam University, Kumaracoil, Kanyakumari*	*1*	*2,500*	*2,400*
	17	*International Conference On Recent Advances In Engineering, Science And Technology (Icon' 15*	*Smitha L*	*Noorul Islam Universi ty, Kumara coil, Kanyaku mari*	*Noorul Islam University, Kumaracoil, Kanyakumari*	*1*	*5,000*	*2,400*
	18	*Design And Analysis Of Algorithms (Daa 15) Design And Analysis Of Algorithms (Daa 15)*	*Jyothi R L*	*IIITM- K, Thiruva nanthap uram*	*IIITM- K, Thiruvanantha puram*	*6*	*6,000*	*2,760*
	19	*4thinternation al Conference On Communicatio n And Signal Processing (Iccsp 15)*	*Reji Thankachan*	*Adhipar asakthi Enginee ring College, Melmar uvathur, TN*	*Adhiparasakth i Engineering College, Melmaruvath ur, TN*	*3*	*8000*	*7,674*
	20	*STTP On Research Skills And Methods*	*Reji Thankachan* *Anil kumar A* *Shaji L* *Jyothy R L* *Shani Raj*	*IIT Kanpur*	*IIT Kanpur*	*3*	*-*	*20,982* *15,303* *15,303* *23,973* *23,973*
	21	*STTP On Recent Trends In Applied Physics*	*Retheekumary*	*CUSAT*	*CUSAT*	*5*	*1,000*	*4,136*
2016-17	*1*	*National Seminar On Techniques And*	*Deepa A K* *Sylish S V*	*Amritha Vishwa Vidyape edam,*	*Amritha Vishwa Vidyapeedam, Coimbatore*	*2*	*1,500* *1,500*	*4,262* *4,262*

		Applications Of Hyper Spectral Image Analysis		*Coimbatore*				
	2	*International Conference On Information Science (ICIS ' 16)*	*Remya R S,* *Sabeena K*	*CE Cherthala*	*CE Cherthala*	*2*	*7,500* *7,500*	*2,018* *1,818*
	3	*International Conference On Innovations In Bio-Inspired Computing And Applications*	*Manoj Ray D*	*MIR Labs, TIST Kochi, India*	*MIR Labs, TIST Kochi, India*	*3*	*10,429*	*-*
	4	*International conference on IEEE Tencon-2015*	*C V Anilkumar*	*Holiday Inn, Sands coati , central, MACAU, China*	*Holiday Inn, Sands coati , central, MACAU, China*	*4*	*39,332.4*	*1,31,550*
	5	*17th National Conference On Technological Trends*	*Geetha S*	*CE Trivandrum*	*CE Trivandrum*	*2*	*2,000*	*1,818*
	6	*One Day Seminar On Differential Equations And Fourier Series - Some Applications*	*Sheela R*	*Mar Baselious College Of Engg & Technology, Tvm*	*Mar Baselious College Of Engg & Technology, Tvm*	*1*	*300*	*1,422*
	7	*National Workshop On Image Processing For Biomedical Application*	*Sylish S V* *Deepa A K*	*Amritha Vishwa Vidyapeedam, Coimbatore*	*Amritha Vishwa Vidyapeedam, Coimbatore*	*1*	*1,500* *1,500*	*4,386* *6,236*
	8	*Control System Design - Fractional Controller And Its Applications*	*Libi A* *Haseena P Y*	*India Institute Of Science And Technology*	*India Institute Of Science And Technology (IIST)*	*2*	*3,000* *3,000*	*1,998* *1,998*

				(IIST)				
	9	International Symposium On Antennas And Propogation	C V Anilkumar	CE Poonjar	CE Poonjar	1	-	4,566
	10	Power Quality challenges with RE integration in smart Grid	Raju M	CPRI, Bangalore	CPRI, Bangalore	2	8,050	7,970
2017-18	1	International conference – ICACC 2016	Dr. Gopakumar C	Rajagiri SE & T	Rajagiri SE & T	3	7,500	-
Total							**5,15,430.4**	**9,36,446**

4.g Expenditure on staff development.

Financial Year	Sl. No	Description of the program	Name of participant	Name of organiser	Venue	No of days	Registration fee/ Amount Spend	IR Generated	TA /DA
2012-13		-	-	-	-	-	-	--	-
2013-14	1.	**Conducted SDP** - Study And Maintenance Of Modernized Electronics Lab		Kuryachan T D	CE Karunagappally	7	73,137	-	17,302
	2.	**ConductedSDP**- Open Source Software For Library Management Using Koha		Jincy William	CE Karunagappally	3	46,964	-	4,326
	3.	**ConductedSDP**- Mastering Time Management And Developing Interpersonal Relationship		Vidya S	CE Karunagappally	3	47,304	-	9,269

	4.	***Attended** -National Workshop On Personality Development And Capacity Building*	*Vinod Kumar* *Vidya,* *Sandhya M*	*ISTE,Bengaluru*	*Abad Airport Hotel, Cochin*	*2*	*20,000* *20,000* *20,000*	*-*	*1,418* *748* *748*
	5.	***Attended** - Workshop On Dspace Digital Library Software*	*Jincy William,* *Haseena K*	*TKM, Kollam*	*TKM, Kollam*	*2*	*500* *500*	*-*	*717* *717*
2014-15	*1.*	***Attended** -Sttp On Moodle Fundamentals*	*Sooraj Lal S* *Lijin B*	*CE, Kidangoor*	*CE, Kidangoor*	*2*	*1,000* *1,000*	*-*	*773* *773*
	2	***Conducted SDP** - IT Enabled Office Management System*	*Vinod Kumar R*	*CE Karunagappally*	*CE Karunagappally*	*3*	*42,680*	*1,500*	*6,976*
2015-16	*1.*	***Attended** - National Training In Digital Library Management Using Dspace*	*Jincy William* *Lissa A*	*Kerala Agricultural University, Vellanikkara*	*Kerala Agricultural University, Vellanikkara, Thrissur*	*2*	*400* *400*	*-*	*582* *582*
	2.	***Attended** - National Workshop On Koha*	*Lijin* *Sooraj*	*Marian College,Kuttikkanam*	*Marian College, Kuttikkanam*	*3*	*2,000* *2,000*	*-*	*1,310* *1,310*
	3.	***Attended** - Open Source Library Management Software (Koha)*	*Lissa A*	*Kerala Agricultural University, Vellanikkara, Thrissur*	*Kerala Agricultural University, Vellanikkara, Thrissur*	*2*	*-*	*-*	*982*

	4.	***Conducted SDP** - Automated Accounting System Using Tally Erp 9 Solution*	*Sheeja,* *Sandhya* *murali*	*CE Karunagappally*	*CE Karunagappally*	*3*	*77,396*	*3,500*	*6,400*
	5.	***Attended** - SDP On A Glimpse Into The Design And Implementation Of Electronics Hardware Resources*	*Sunil P C* *Ansad*	*CE Adoor*	*CE Adoor*	*3*	-	-	*528* *528*
2016-17	*1.*	***Attended** - SDP On Automated Accounty Using Tally Erp Solution*	*Sadhyamurali P*	*Ce Chenganoor*	*Ce Chenganoor*	*3*	*15,000*	-	*1,319*
	2.	***Attended** - Sttp On Fault Diagnosing And Maintenance Of Electrical And Electronics Equipments And Measuring Instruments*	*Binny F*	*Petarc, Moolamattom*	*Ce Vadakkara*	*3*	*3,000*	-	*2,552*
	3.	***Attended** - Kerala Service Rules, Mop And Financial Coding*	*Manoj K Mathew,* *Sheebamol K K*	*Ce Cherthala*	*Ce Cherthala*	*3*	*300* *300*	-	*1,908* *1,908*
	4.	***Attended** - Power And Control Equipment Familiarization Programme*	*Binny F*	*Petarc, Moolamattom*	*Petarc, Moolamattom*	*6*	*12,000*	-	*2,575*
	5.	***Attended** - Power And Control Equipment Familiarization Programme*	*Anoop S* *Anilkumar V* *Kuryachan T D*	*Petarc, Moolamattom*	*Petarc, Moolamattom*	*3*	*13800* *13,800* *13,800*	-	*1,571* *1,571* *2,178*
	6.	***Conducted** - SDP On Financial And Service Rules*	*Manoj K Mathew*	*CE Karunagappally*	*CE Karunagappally*	*4*	*62,678*	*8,000*	*4,961*

	7	***Attended*** *Hands on experience in Laptop chip level*	*Abinlal D,* *Nithin K V*	*CE Cherthala*	*CE Cherthala*	*3*	*1,500* *1,500*	-	*2,469* *2,469*
	8	***Attended****- Performance improvement for Institutional development*	*Vidya J,* *Dr. Anitha D S,* *Sandhya Murali P,* *Sheebamol K K,* *Manoj K Mathew,* *Suresh kumar G,* *Leena S,* *Anilkumar V*	*ESCI, Hyderabad*	*ESCI, Hyderabad*	*4*	*20,700* *20,700* *20,700* *20,700* *20,700* *20,700* *20,700* *20,700*	-	*5,664* *5,770* *5,664* *5,664* *5,664* *5,664* *5,664* *5,664*
2017-18	*1*	***Conducted.*** *Performance and quality improvement for administrative staff*	*Sheeba Mol*	*CE Karunagappally*	*CE Karunagappally*	*3*	*52,419*	*1,000*	*10,110*
Total							*710978*	*13000*	*136998*

4.h Others. (FSD).								
Financial Year	*Sl. No*	*Description of the program*	*Name of participant*	*Name of organiser*	*Venue*	*No of days*	*Registration fee*	*TA/DA*
2012-13	-	-	-	-	-	-	-	-
2013-14	-	-	-	-	-	-	-	-
2014-15	-	-	-	-	-	-	-	-
2015-16	*1*	*1.IEEE Membership.*	*Raju M* *Dr. Hari V S* *C V Anilkumar* *Deepa A K* *Deepa V* *Sylish S V*	-	-	-	*2,886* *2,550* *2,592* *2,574* *2,577* *2,794*	-

			Jyothi R L				*3,275*	
2016-17	-	-	-	-	-	-	-	-
Total							***19,248***	

5. Year wise Expenditure details of all the sub-activities in enhanced Interaction with Industry

5.a Expenditure on academic Programs i.e. MTech/PhD etc. with industry								
	Financial Year	*Description of the program*	*Name of the Expert*	*Name of co-ordinator*	*Venue*	*No of days/hrs*	*honorarium*	*TA/DA etc*
	2012-13	-	-	-	-	-	-	-
	2013-14	-	-	-	-	-	-	-
	2014-15	-	-	-	-	-	-	-
	2015-16	-	-	-	-	-	-	-
	2016-17	-	-	-	-	-	-	-
Total							-	-

5.b Expenditure on short term programs with industry								
Financial Year	*Sl. No*	*Description of the program*	*Name of the Expert*	*Name of co-ordinator*	*Venue*	*No of days /hrs*	*Honorarium*	*TA/DAetc*
2012-13	-	-	-	-	-	-	-	-
2013-14	*1.*	*Renewable Energy Sources*	*Dr. M Jayaraju*	*Haseena P Y*	*CE , Karunagappally*	*1 Day*	*3,000*	*1,836* *2,620*
	2.	*Convergence To Next Generation Networks*	*Augustine V*	*Deepa V S*		*1 Day*	*3,000*	*468*
	3.	*Industrial Tutoring InPIC Programming*	*Rayees* *Ratheesh P S*	*Deepa A K*		*2 Days*	*6,000* *6,000*	*1,642* *1,642* *3,133*
	4.	*Expert Lecture in Mobile platforms*	*Dhanya James* *Joseph Crispin*	*Remya R S*		*1 Day*		*1,912* *1,912* *1,245*

	5.	*Business Intelligence - An Application Of Artificial Intelligence*	*Sreyas N Namboothiri*	*Remya R S*		*1 Day*	*2,000*	*1,782*
	6.	*Documenting And Presenting Project Reports – Latex*	*Dr. K Najeeb,* *Adarsh N K*	*Remya R S*		*4 Days*	*9,000* *9,000*	*2,560* *3,600* *22,064*
	7.	*Java Application Development using NetBeans*	*Mahesh S*	*Smitha P*		*2 Days*	*4,000*	*1,172* *1,700*
	8.	*Expert lecture on Clustering Techniques*	*Sandhya Harikumar*	*Deepa A K*		*1 Day*	*3,000*	*480* *1,870*
2014-15	*1.*	*VLSI Design - Application and Future Scope*	*Dr. Vinod A. L*	*C V Anilkumar*	*College of Engineering, Karunagappall*	*1 Day*	*3000*	*2,014* *578*
	2.	*Advanced features in 3Ds- MAX*	*Ashwin A V* *Arun Raj R*	*Anilkumar A*		*3 Days*	*6000* *6,000*	*4,326* *4,326* *3,990*
	3.	*Industrial Tutoring In JSP*	*Ratheesh T S* *Sourabh Sukumaran*	*Sabeena K*		*1 Day*	*4,000* *4,000*	*1,172* *1,172* *4,081*
	4.	*Industrial Tutoring In C#*	*Jikku M John* *Kamalnath R*	*Sabeena K*		*2 Days*	*4,000* *4,000*	*1,472* *1,472* *5,460*
	5.	*Industrial Tutoring In Php*	*Vaisakh H* *Ajith John Varghese*	*Sabeena K*		*2 Days*	*4,000* *4,000*	*1,472* *1,472* *5,618*

	6.	*Industrial Tutoring In Prepare to become an Industry Professional*	*Irfan Haneef*	*Baiju V*		*1 Day*	*3,000*	*3,572* *2,490*
2015-16	*1.*	*Industrial Talk On Electronic Product Design*	*Shainaj Kumar*	*Deepa A K*	*College of Engineering, Karunagappally*	*1 Day*	*3,000*	*1,915*
	2.	*Industrial Talk On Internet Of Things*	*BijumonJanardhan,*	*Deepa A K*		*1 Day*	*3,000*	*1,835* *780*
	3.	*Java Programming*	*Aravind S*	*Remya R S*		*3 days*	*9,000*	*5,154* *12697*
	4.	*Industrial Tutoring On Project Development using Java*	*Aravind S N* *Alen Vincent*	*Anikumar A*		*1 Day*	*3,000* *3,000*	*1,953* *1,953* *3,798*
	5.	*Principles & Techniques Used In TI Signalling*	*Binu R*	*Aswathy S S*		*1 Day*	*3,000*	*1,931* *4,440*
	6.	*Talk On Antenna Types For(S7 Ec Students) Dooradarsan*	*Shaji M*	*Renjini S*		*1 Day*	*3,000*	*2,693* *6,061*
	7.	*Embedded System Design Using Keil and Proteus*	*Deepa K V*	*Deepa T R*		*1 Day*	*3,000*	*1,771* *5,223*

	8.	*Industrial Workshop On Raspberry Pi*	*Anand M,* *Dinu D* *Arun M* *Sajit*	*Anu Mohan*		*2 Days*	*3,000* *3,000* *3,000* *3,000*	*1,739* *1,739* *1,739* *1,739* *2,500*
	9.	*Workshop On Mobile And Laptop Service*	*Sonu S Pillai*	*Shiny C*		*1 Day*	*3,000*	*1,185* *1,345*
	10.	*Expert Talk On On Internet Of Things*	*Shahim Baker*	*Jyothi R L*		*1 day*	*3,000*	*1,938* *2,671*
	11.	*Talk On Switch Gear And Protection*	*Jayarajan C N*	*Raju M*		*2 Days*	*-*	*2,122* *7,529*
	12.	*Mobile Application Development Using Phone Gap*	*Jobin C S* *Saran S*	*Deepa T R*		*2 Day*	*6,000* *6,000*	*4,190* *4,190* *9,596*
	13.	*Machine learning techniques and applications*	*Sandhya Harikumar*	*Remya R S*		*2 Days*	*6,000*	*896* *1,240*
	14.	*Industrial Tutoring On Multimedia Project Using Maya*	*Arun Raj R* *Aswin A V*	*Anikumar A*		*3 Day*	*5,400* *5,400*	*4,524* *4,524* *3,300*
2016-17	*1.*	*Evaluation Of Analog Converters*	*Santhi Krishna*	*Deepa T R*		*1 Day*	*3,000*	*4,180* *827*
	2.	*Workshop On Microwave*	*Karthik A*	*Shiny C*	*College of*	*I Day*	*3,000*	*1,739* *2,429*

	3.	*How ToBuilt A Career In Cyber Security*	*O K Shafeeque*	*Jyothi R L*	*Engineering, Karunagappally*	*1 Day*	*3,000*	*1,390* *5693*
	4.	*Evangelising Social Entrepreneurs*	*Saran S,* *Sreemol V*	*Deepa T R*		*1 Day*	*3,000* *3,000*	*4,636* *2,065* *3,738*
	5.	*Creative Innovation In Start Up Ecosystem*	*Nisha Elsa Johnson* *Yaafer Khan*	*Libi A*		*2 Day*	*3,000* *3,000*	*1,448* *1,448* *6204*
	6.	*Recent Trends In Power Generation*	*A G Hareendralal*	*Raju M*		*1 Day*	*3,000*	*1,707* *11,591*
	7.	*Antenna And Wave Propogation*	*Shaji M*	*Deepa A K*		*1 Day*	*3,000*	*2,378* *4,166*
	8.	*3D Max*	*BijoyBhadran B*	*Anilkumar A*		*3 Days*	*9,000*	*3,780* *1,350*
	9.	*Expert Talk On Entrepreneurship Developmen*	*Adarsh V K*	*Deepa A K*		*1 Day*	*3,000*	*1,752* *700*
	10.	*Web Technology and PHP*	*Akshai A L* *S Surya* *Arjun Babu C* *Roshini* *NairHR*	*Jyothy R L*		*4 Days*	*6,000* *6,000* *6,000* *6,000*	*2,780* *2,780* *2,780* *2,780* *10,325*
	11.	*Expert Talk On EDA Tools-Spice*	*Shainaj Kumar V K*	*Deepa A K*		*2 Days*	*6,000*	*1,906* *2,400*
	12.	*Design With CPLD's And FPGA's*	*Arun Kumar*	*Deepa T R*		*1 Day*	*3,000*	*1,576* *1,074*

	13.	*Ideation Boot Camp*	*Saran S,* *Sneha John P*	*Deepa T R*		*1 Day*	*3,000* *3,000*	*3,652* *1,970* *6,546*
	14.	*Laptop And Mobile Phone Servicing*	*Sonu S Pillai*	*Dr.CGopakumar*		*1 Day*	*2,000*	*1,095* *1,296*
	15.	*Java And Android Application Development*	*Anu C,* *Nidhin M V* *Thomas P V* *Aju Mathew* *Jibin George* *Sreejith O P* *Abdul Wahid* *BhagyaSoman*	*Shani Raj*		*4 Days*	*3,000* *3,000* *3,000* *3,000* *3,000* *3,000* *3,000* *3,000*	*1,560* *1,560* *1,580* *1,580* *1,600* *1,600* *1,390* *1,390* *11,875*
	16.	*Workshop On Hybrib Mobile Application Development*	*Jobin C S* *Saran S*	*Deepa T R*		*1 Day*	*6,000* *6,000*	*3,768* *4,348* *8,922*
	17.	*Expert Talk On RTC To GDS – II*	*Sreyas S Nampoothiri*	*Deepa T R*		*1 Day*	*3,000*	*4,300* *700*
	18.	*Expert Talk On "Design And Development Cycle Of Embedded System In Industry"*	*Robert Bosh*	*Anilkumar C V*		*1 Day*	*3,000*	*2,541* *798*
	19	*Expert lecture on Web Development using JSP*	*Venkatesh* *Kumar B* *Yogesh S* *Nidhin* *Jibin George*	*Shani Raj*		*2 Day*	*3000* *3,000* *3,000* *3,000*	*3,507* *3,507* *1,590* *1,871* *4,800*

	20	*Workshop on IOT*	*Bijoy R* *Vipin A*	*Deepa A K*		*1* *Day*	*3,000* *3,000*	*1,790* *1,790* *3,756*
	21	*Workshop on Micro controllers*	*Sapthas R S* *Thomas sabu*	*Deepa A K*		*1* *Day*	*3,000* *3,000*	*1,870* *1,870* *2,880*
	22	*Expert talk on advanced technology solution tips provided to customers in IT industries*	*Manu shanker*	*Deepa A K*		*1 Day*	*3,000*	*2,750*
	23	*Workshop on internet of things*	*Vipin A* *Bijoy R*	*Deepa A K*		*1* *Day*	*3,000* *3,000*	*1,870* *1,870* *3,021*
	24	*Internet Programming PHP*	*Saran S* *Jobin C S*	*Remya R S*		*3* *Days*	*9,000* *9,000*	*3,456* *4,625* *14,958*
	25	*Workshop on PLC & Scada*	*Kumaraswamy Rama Subramaniyan* *Sudalaivi*	*Raju M*		*3 Days*	*9,000* *9,000*	*3,170* *3,170* *10,230*
	26	*Workshop on free and open software*	*Justin Joseph* *Pradeep T S* *Abdul Vahid V V*	*Jyothi R L*		*3 Days*	*12,000* *15,000* *3,000*	*2,300* *980* *2,070* *11,870*
2017-2018	*1*	*Workshop on MatLab*	*Nebu Pullickal*	*Reji Thankachan*		*1 Day*	*3000*	*1640* *4,053*
	2	*Introduction to Web application*	*Lline B F* *Dhanya K Nair* *Shifna S* *Monish P L*			*2 Days*	*3,000* *3,000* *3,000* *3,000*	*1,270* *1,270* *1,270* *1,270* *4,280*

	3	*Workshop on Laptop and Mobile phone servicing*	*Sonu S Pillai* *Ajith N U*	*Sabeena K*		*1 Day*	*3,000* *3,000*	*1,980* *1,980* *4,106*
	4	*Training on simulation softwares in Industry Perspective*	*Kanan S A* *Basim Basheer*	*Raju M*		*3 Days*	*6,000* *6,000*	*3,170* *3,170* *7,115*
Total							***4,17,800***	***4,95,073***

5.c Expenditure on academic networking with other institutions					
Financial Year	*Sl No*	*Description of the program*	*No of days/hrs*	*Honorarium*	*TA/DA etc*
2012-13		-	-	-	-
2013-14		-	-	-	-
2014-15		-	-	-	-
2015-16		-	-	-	-
2016-17		-	-	-	-
Total				-	-

5.d Expenditure incurred on Campus placements (UG & PG)								
Financial Year	*l. No*	*Description of the program*	*Name of the Expert*	*Name of Placement co-ordinator*	*Venue*	*No of days /hrs*	*honorarium*	*TA/DA etc*
2012-13	-	-	-	-	-	-	-	-
2013-14	-	-	-	-	-	-	-	-
2014-15		*1.BIZTIME IT Solutions Pvt Ltd,Bangalore*		*Baiju V*	*CE Karunagappally*	*1 Day*		*11,743*
2015-16	-	-	-	-	-	-	-	-
2016-17	-	-	-	-	-	-	-	-
Total							**-**	***11,743***

5.e Expenditure on UG Students attended industrial internship					
Financi	*Sl . No*	*Description of the program*	*Name of the Company*	*No of days /hrs*	*Expenditure, TA/DA etc*

al Year					
2012-13	*-*	*-*	*-*	*-*	*-*
2013-14	*-*	*-*	*-*	*-*	*-*
2014-15	*-*	*-*	*-*	*-*	*-*
2015-16	*-*	*-*	*-*	*-*	*-*
2016-17	*1.*	*Internship by S6 ECE Students*	*KELTRON, Calicut* *AIR, Tvm* *RTTC, Tvm* *KMML, Chavara* *KMML, Chavara*	*6 Days* *5 Days* *5 Days* *5 Days* *5 Days*	*10760* *2,248* *17,220* *683* *566*
	2	*Internship by S2 EEE Students*	*IRE, Chavara*	*5 Days*	*1,180*
2017-18	*1*	*Internship by S6 EEE Students*	*Koodamkulam Nuclear Power Plant*	*5 Days*	*13,701*
	2	*Internship by S8 EEE Students*	*Kakkad power station*	*5 Days*	*3,402*
	3	*Industrial Training by S8 EEE Students*	*Malankkara Small Hydro Power Station, Idukki*	*6 Days*	*3,060*
	4	*Internship S4 CSE*	*White Oval* *IRE* *Keltron* *AIPCT*	*5 Days* *5 Days* *5 Days* *5 Days*	*3,910* *4,331* *1,760* *1,722*
	5	*Internship- IRE Chavara*	*Internship- IRE Chavara*	*5 Days*	*1,475*
	6	*Internship - KEL Kundara*	*Internship - KEL Kundara*	*7 Days*	*369*
	7	*Internship - KEL Kundara*	*Internship - KEL Kundara*	*6 Days*	*1,845*
	8	*Internship - KEL Kundara*	*Internship - KEL Kundara*	*5 Days*	*1,476*
	9	*Internship- IRE Chavara*	*Internship- IRE Chavara*	*5 Days*	*1,475*
Total					***72,311***

5.f Others(Industrial Visit)							
Financial Year	*Sl No.*	*Description of the*	*Name of co-ordinator*	*Venue*	*No of days*	*Expenditure*	*TA/DA etc*

		program			*/hrs*		
2012-13	*-*	*-*	*-*	*-*	*-*	*-*	*-*
2013-14	*1.*	*Visit To ITI,Palakkad*	*Deepa T R* *Kuryachan T D*	*ITI,Palakkad*	*1 Day*	*2,850*	*23,370* *1,830* *1,936*
	2.	*Visit To Spectrum Softech Solutions ,Kochi*	*Sabeena K* *Aiswarya S Kumar* *Diana Mathew*	*Spectrum SoftechSolutions ,Kochi*	*1 Day*	*2,600*	*10,296* *1,394* *1,394*
	3.	*Visit To 220kv Substation Edappon*	*Haseena P Y* *Sabeena A* *Reshmi V S* *Vinod S*	*220kv Substation Edappon*	*1 Day*	*2,775*	*4,480* *126* *126* *126* *126*
	4.	*Visit To TELK Angamaly*	*Haseena P Y*	*TELK Angamaly*	*1 Day*	*-*	*12,000*
	5.	*Visit To Moozhiyar Power Station*	*Haseena P Y* *Raju M* *Arya mol* *Sudhakaran* *Sabeena A* *Anilkumar V*	*Moozhiyar Power Station*	*1 Day*	*2,550*	*10,710* *393* *393* *393* *393*
	6.	*Visit To Poringalkuthu Power Station*	*Libi A* *Reshmi V S* *Vinod S* *Arya M S*	*Poriyalkuthu Power Station*	*1 Day*	*2,850*	*18,012* *618* *618* *618* *618*
2014-15	*1.*	*Visit To RTTC, Kaimanam,Tvm*	*Deepa A K* *Bence Paul* *Mili Roselime Mathews* *Amina S*	*RTTC ,Kaimanam,Tvm*	*1 Day*	*3,300*	*10,560* *1,658* *1,658* *418*

	2.	Visit to Hycon Power electronicsPvt. Ltd, Trissur	Deepa T R P C Sunil	Hycon Power electronicsPvt. Ltd., Trissur	1 Day	3,211	22,568 585 585
	3.	Visit to Pallivasal Power station, Moolamattom	Libi A Raju M Preema R Chandran Mary M S	Pallivasal Power station, Moolamattom	1 Day	2,750	23,826 651 651 651
	4.	Visit to Pallivasal Power station, Moolamattom	Raju M Ambili Mathew Praveesh P Mary M S	Pallivasal Power station, Moolamattom	1 Day	2,650	20,900 651 651 651 651
2015-16	1	Visit to Kudamkulam Nuclear Power Plant, Thirunelveli	Libi A	Kudamkulam Nuclear Power Plant ,Thirunelveli, TN	1 Day		12,258
2016-17	1	Visit to High Voltage India Bangalore	Deepa A K Libi A Haseena P Y Raju M Preema R Chandran Arya A P Ajmal K Reshma Ittiachan Prasanthi P S	High Voltage India Bangalore	1 Day		5,354 5,354 5,354 5,354 3,790 3,790 3,790 3,790 3,790
	2	Visit to Lower Periyar Power house	Deepa A K Kuryachan T D Subeena H	Lower Periyar Power house	1 Day		28,595 815 775
	3	Visit to SFO Technologies	C V Anilkumar	SFO Technologies,	1 Day		2,534

		, cochin	*Dr. C Gopa kumar* *Sylish S V* *Deepa A K* *Shyni C* *Deepa T R* *Premakumari K R* *Kuryachan T D* *Jyothilekshmi L* *Nidhin K V* *Vijayan*	*cochin*			*2,328* *2,318* *2,328* *2,328* *2,010* *2,534* *2,318* *606* *606* *606*
	4	*Visit to VL cyber park, Kozhikode*	*Abinlal D* *Shani Raj*	*VL cyber park, Kozhikode*	*1 Day*	*-*	*35,644* *1013* *1048*
	5	*Visit to ITI Palakkad*	*Reji Thankachan* *Deepa T R* *Niyas S K*	*ITI Palakkad*	*1 Day*	*-*	*33,538* *928* *928*
	6	*Visit to FCRI Kanjikode*	*Sylish S V* *Deepa A K*	*FCRI Kanjikode*	*1 Day*	*1360*	*34,356* *893* *893*
	7	*Visit to Matupetty Dam &Sengulam power house*	*Sabeena K* *Alkha Mohan* *Shaisa P* *Sheena S Noushad*	*Matupetty Dam &Sengulam power house*	*1Day*	*-*	*26,752* *814* *814* *814*
2017-18	*1*	*Visit to Kuttiyadi Hydro electric power station*	*Haseena P Y*	*Kuttiyadi Hydro electric power station*	*1Day*	*-*	*28,215*
	2	*Visit to Pallivasal Hydroelectric Power station and Matupetty*	*Libi A*	*Pallivasal Hydroelectric Power station and Matupetty*	*1Day*	*-*	*28,208* *815* *815* *815*

		Dam		*Dam*			
	3	*Visit to Kudamkulam Nuclear power Plant*	*Raju M* *Reshma Ittiachan*	*Kudamkulam Nuclear power Plant*	*1 Day*		*17,775* *890* *850*
	4	*Industrial Visit at UL Cyberpark , Kozhikode,S6 CSE/IT*	*Remya R S* *Abinlal* *Alkhamohan*	*UL Cyberpark , Kozhikode,S6 CSE/IT*	*1 Day*		*22,365* *1013* *1048*
	5	*Industrial Visit at UL Cyberpark , Kozhikode,S4 CSE*	*Jyothi R L* *Jyothi R L* *Anilkumar A*	*UL Cyberpark , Kozhikode,S4 CSE*	*1 Day*		*16,898* *1045* *1045*
	6	*Industrial Visit at Hydro electric power station , Pallivasal*	*Sylish Revikumarthampi V R* *Leena B R*	*Hydro electric power station , Pallivasal*	*1 Day*		*17,440* *1095* *1055*
	7	*Industrial Visit at Hydro electric power station , Pallivasal, S2 EEE*	*Premnath G*	*Hydro electric power station , Pallivasal, S2 EEE*	*1 Day*		*28,116*
	8	*Industrial Visit at Kuttiyadi*	*Raju M*	*Kuttiyadi*	*1 Day*		*27,456*
Total						***26,896***	***6,16,004***

6. Year wise Expenditure details of all the sub-activities in Management Capacity Enhancement

6.a Expenditure on Sr. Officials & Sr. faculty attended management development training (MDT)								
Financial Year	*Sl. No*	*Description of the program*	*Name of participant*	*Name of organiser*	*Venue*	*No of days*	*Registration fee*	*TA/DA*
2012-13	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
2013-14	*1.*	*ISTE-WPLP - National Workshop On Accreditation And Autonomy*	*Dr. Hari V S*	*ISTE*	*Hotel Singaar International, Kanyakumari*	*3*	*30,000*	*2,094*
	2.	*Quality Initiation In Technical And Higher Educational Institutions*	*Deepa V S* *Premakumary K R* *Renu K K* *Libi A* *Smitha P* *RejiThankachan*	*ESCI, Hyderabad*	*ESCI, Hyderabad*	*3*	*15,168* *15,168* *15,169* *15,169* *15,169* *15,169*	*18,666* *20,101* *18,036* *19,673* *21,079* *18,036*
	3.	*Making Teqip Institutions More Effective Strategic Planning And Good Governance*	*Dr. Hari V S* *Dr. Ajilkumar A* *Manoj Ray D*	*CET School of Managment*	*Chaitram Hotel, Tvm*	*2*	*13,483* *13,483* *13,483*	*1,706* *1,706* *1,706*
2014-15		*-*	*-*	*-*	*-*	*-*	*-*	*-*
2015-16	*1*	*Hi Impact Leadership Blueprint For Success*	*RevikumarThampi V R* *Remya R S* *Baiju V* *Geetha S* *C V Anilkumar* *Deepa T R*	*TPLC*	*Govt.Eng.College, Bartonhill, Thiruvananthapuram*	*3*	*36,000* *36,000* *36,000* *36,000* *36,000* *36,000*	*2,329* *2,154* *2,329* *2,154* *2,329* *2,154*
2016-17	*1*	*Workshop On Good Governance Leadership -*	*Dr. Hari V S* *V P Devassia*	*NPIU*	*India Habitat Centre, New Delhi*	*1*	*-*	*25,796* *29,438*

Total	***3,77,461***	***1,91,486***

6.b Expenditure on institutional management capacity enhancement (IMCE), if any								
Financial Year	*Sl. No*	*Description of the program*	*Name of participant*	*Name of organiser*	*Venue*	*No of days*	*Registration fee*	*TA/DA*
2012-13	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
2013-14	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
2014-15	*1.*	*Workshop On Good Governance Leadership And Management*	*Dr. Hari V S* *Prof. V P N Namboori*	*NPIU*	*Metropolitan Hotel, Newdelhi*	*2*	*-*	*44,711* *45,910*
	2.	*Academic Leadership For Teqip Institutions*	*Revikumar Thampi V* *Binu V P*	*IIM Kozhikode*	*IIM Kozhikode*	*1*		*2,475* *2,475*
2015-16	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*
2016-17	*1*	*Soft Skills For Interpersonal Effectiveness: Attitude And Skill Enhancement Lab -*	*Raju M*	*IIMK*	*IIMK*	*4*	*64,400*	*3,072*
Total							***64,400***	***98,643***

7. Year wise Expenditure details of all the sub-activities in Institutional Academic Reforms

7.a Expenditure on accreditation fee for NBA				
Financial Year	*Sl No.*	*Description of the program applied*	*Fee paid*	*Status*

2012-13		*-*	*-*	*-*
2013-14	*1*	*Accreditation fee for NBA*	*1,12,360*	*Waiting for NBA team's visit*
2014-15	*1*	*Accreditation fee for NBA*	*7,86,520*	*Waiting for NBA team's visit*
2015-16		*-*	*-*	*-*
2016-17	*1* *2*	*Mtech Signal Processing* *Mtech Image Processing*	*8,05,000*	*SAR to be uploaded*
Total			***17,03,880***	

8. Year wise Expenditure details of all the sub-activities in Academic Support for Weak students

8.a Expenditure on students transition from first year to second year of UG Programs. (Remedial coaching)

inancial Year	*Sl. No*	*Subject*	*Name of faculty/expert*	*No of Beneficiaries*	*No of days /hrs*	*Expenditure*
2012-13	*-*	*-*	*-*	*-*	*-*	*-*
2013-14	*1*	*Data Base Management System*	*Diana Mathew*	*53 nos*	*2 hrs*	*1,200*
	2	*Network Theory.*	*Bence Paul*	*44*	*3 hrs*	*1,800*
	3	*Digital Signal Processing*	*Reji Thankachan*	*45*	*6 hrs*	*3,600*
	4	*Field Theory*	*Reji Thankachan*	*29*	*2 hrs*	*1,200*
	5	*Solid State Device*	*Remya A R*	*7*	*3 hrs*	*1,800*
	6	*Digital Electronics*	*Anwar Sha*	*31*	*1hrs*	*600*
	7	*Statistics*	*Renu K.K*	*18*	*7hrs*	*4,200*
	8	*Information Technology*	*Sabeena K*	*25*	*2 hrs*	*1,200*
	9	*Computer Organisation*	*Abin K.R*	*24*	*2hrs*	*1,200*
	10	*Microprocessor*	*Aneesha Mohammed*	*40*	*6 hrs*	*3,600*
	11	*Information Technology*	*Abin K. R*	*54*	*11 hrs*	*6,600*
	12	*Computer Organization*	*Abin K. R*	*43*	*12hrs*	*7,200*
	13	*Advanced Computer Networks*	*Smitha P*	*22*	*3 hrs*	*1,800*
	14	*Knowledge Engineering*	*Mehareeniza Nazeem*	*20*	*2hrs*	*1,200*

	15	*Distributed Computing*	*Mehareeniza Nazeem*	*7*	*2hrs*	*1,200*
	16	*Electrical Machines II*	*Sabeena A*	*11*	*4hrs*	*2,400*
	17	*Electrical Technology*	*Sabeena A*	*14*	*4 hrs*	*2,400*
	18	*Logic Design*	*Remya A R*	*32*	*6 hrs*	*3,600*
	19	*Electronics Circuits I*	*Remya A R*	*20*	*5 hrs*	*3,000*
	20	*Solid State Device*	*Remya A R*	*34*	*5 hrs*	*3,000*
	21	*Electrical Technology*	*Resmi V S*	*30*	*4 hrs*	*2,400*
	22	*Electrical & Measurements and Measuring Instruments*	*Resmi V S*	*121*	*7hrs*	*4,200*
	23	*Software Engineering*	*Sree S Bhagya*	*16*	*2hrs*	*1,200*
	24	*Electromagnetic Theory*	*Bence Paul*	*35*	*2hrs*	*1,200*
	25	*Microprocessor Based Systems*	*Vinod S*	*12*	*2 hrs*	*1,200*
	26	*Electronic Device and Circuits*	*Anwarsha*	*62*	*9 hrs*	*5,400*
	27	*Circuits Signals and Systems I*	*Haseena P Y*	*30*	*6 hrs*	*3,600*
	28	*Engineering Maths*	*Premakumari K R*	*27*	*7 hrs*	*4,200*
	29	*Information Retrieval*	*Alkha Mohan*	*22*	*3 hrs*	*1,800*
	30	*Data Base Management System*	*Diana Mathew*	*34*	*12 hrs*	*7,200*
	31	*Computer Graphics*	*Jaya Krishnan*	*50*	*13 hrs*	*7,800*
	32	*Digital Signal Processing*	*Reji Thankachan*	*30*	*4 ½ hrs*	*2,700*
	33	*Network Theory*	*Reji Thankachan*	*12*	*1 hrs*	*600*
	34	*System Processing*	*Sabeena K*	*47*	*4 hrs*	*2,400*
	35	*Microproceesor Based System Design*	*Vinod R*	*18*	*2 hrs*	*1,200*
	36	*Principles of Programming Language*	*Remya R S*	*21*	*3 hrs*	*1,800*
	37	*Advanced architecture and parallel computing*	*Remya R S*	*8*	*1 hrs*	*600*
	38	*Discrete computational structures*	*Remya R S*	*10*	*2 hrs*	*1,200*

	39	Object Oriented Programming	Anilkumar A	12	3 hrs	1,800
	40	Cryptography	Aiswarya S Kumar	2	1hrs	600
	41	Multimedia Computing	Sree Lekshmi M	2	1hrs	600
	42	Logic Design and Electronics	Jeena James	16	8hrs	4,800
	43	Hardware Modeling	Jeena James	7	3 hrs	1,800
	44	Digital Electronics	Anwarsha	29	4 hrs	2,400
	45	Probability Random Process	Aswathy S S	37	3 hrs	1,800
	46	DSD	Shiny C	10	6 hrs	1,200
	47	Network Theory	Reji Thankachan	42	11 hrs	6,600
	48	Signal Processing	Reji Thankachan	17	6 hrs	3,600
	49	Discrete computational structures	Remya R S	20	3 hrs	1,800
	50	C Programming	Vinod R	30	4 hrs	2,400
	51	Microprocessor	Vinod R	28	3 hrs	1,800
	52	Digital electronics	Anvarsha	49	4 hrs	2,400
	53	Network Theory	Reji Thankachan	30	5 hrs	3,000
	54	Electrical &Measurements and MeasuringI	Reshmi V S	42	4 hrs	2,400
	55	Solid state electronics	Remya A R	27	13 hrs	7,800
	56	Probability and random process	Aswathy S S	30	13 hrs	4,200
2014-15	1	Engineering Graphics	Jayadeepkumar J	28	8 hrs	4,800
	2	Digital Signal Processing	Dr.C Gopakumar	35	2 hrs	1,200
	3	Automate language Computing	Remya R S	25	8hrs	4,800
	4	Electrical Machines I	Resmi V S	7	4 hrs	2,400
	5	Control System Engineering	Haseena P Y	22	2 hrs	1,200
	6	Engineering Graphics	Baiju V	30	3 hrs	1,800
	7	Signal and System	Jeena James	16	1 hrs	900
	8	Engineering maths-Differential Equations	Prema kumari K R	48	4hrs	2,400
	9	Engineering	Jayadeep kumar J	37	2 hrs	1,200

		Mechanics				
	10	*Engineering mathematics*	*Sheela R*	*7*	*2 hrs*	*1,200*
	11	*Applied Science*	*Renu K K*	*13*	*9 hrs*	*5,400*
	12	*Digital Electronics*	*Sabeena A*	*25*	*10 hrs*	*6,000*
	13	*Digital Signal Processing*	*Reji Thankachan*	*13*	*3 hrs*	*1,800*
	14	*Computer Programming*	*Diana Mathew*	*20*	*4hrs*	*2,400*
	15	*Digital Signal Processing*	*Bence Paul*	*30*	*9 hrs*	*5,400*
	16	*Automate Languages and Computation*	*Remya R S*	*3*	*5 hrs*	*3,000*
	17	*Engineering Graphics*	*Jayadeep kumar J*	*20*	*4 hrs*	*2,400*
	18	*Control Systems Engineering*	*Haseena P Y*	*34*	*5 hrs*	*3,000*
	19	*Engineering Mechanics*	*Joji Johnson*	*30*	*22 hrs*	*13,200*
	20	*Engineering Mathematics*	*Jayaram D S*	*40*	*12 hrs*	*7,200*
2015-2016	*1*	*Network Theory*	*Ms.Deepa A K*	*20*	*15hrs*	*9,000*
	2	*Electronics Circuits I*	*Dr.C.Gopakumar*	*30*	*22 hrs*	*13,200*
	3	*Software Engineering*	*Ms.Jisy Raju*	*16*	*2 hrs*	*1,200*
	4	*Discrete Computational Structures*	*Ms.Remya R S*	*16*	*4hrs*	*2,400*
	5	*Automatic Language and Computations*	*Ms.Remya R S*	*4*	*10 hrs*	*6,000*
	6	*Enginnering Mathematics*	*Ms.Renu K K,*	*3*	*4 hrs*	*2,400*
	7	*Network Theory*	*Ms.Renjini S*	*8*	*7 hrs*	*4,200*
	8	*Design Estimation and costing*	*Ms.Meera Murali*	*15*	*11 hrs*	*6,600*
	9	*Circuit signals and systems*	*Ms.Ambili Mathew*	*7*	*4hrs*	*2,400*
	10	*Microprocessor based System*	*Ms.Ambili Mathew*	*22*	*12 hrs*	*7,200*
	11	*Electrical Machines II*	*Ms.Preema R Chandran*	*10*	*7hrs*	*4,200*
	12	*Circuits Signals and Systems*	*Ms.Mary M S*	*4*	*4hrs*	*2,400*
	13	*Distributed Computing*	*Mr.Jayakrishnan A*	*3*	*3hrs*	*1,800*
	14	*Computer Organization and Architecture*	*Mr.Jayakrishnan A*	*7*	*8 hrs*	*4,800*
	15	*Electronics Circuits II*	*Mr.Deepak Kumar G K*	*10*	*4hrs*	*2,400*

	16	*Modern Digital Signal Processing*	*Ms.Divya Raj*	*10*	*5hrs*	*3,000*
	17	*Industrial and Power Electronics*	*Ms.Ambili Mathew*	*6*	*4hrs*	*2,400*
	18	*Basic Electrical and Electronics Engineering*	*Ms.Meera Murali*	*31*	*6hrs*	*3,600*
	19	*Technical Communication*	*Ms.Libin Muslih*	*8*	*3hrs*	*1,800*
	20	*Digital Image Processing*	*Mili Rosline Mathews*	*7*	*4 hrs*	*2,400*
	21	*Audio and Video Engineering*	*Aswathy S S*	*9*	*5hrs*	*3,000*
	22	*Computer Programming*	*Alkha Mohan*	*18*	*11 hrs*	*6,600*
	23	*CProgramming*	*Jisy Raju*	*21*	*13 hrs*	*7,800*
	24	*Computer Programming*	*Alkha Mohan*	*16*	*13 hrs*	*7,800*
2016-17	*1*	*Introduction to Electrical Engineering*	*Preema R Chandran*	*10*	*3 hrs*	*1,800*
	2	*Electronics Devices and circuits*	*Preema R Chandran*	*5*	*3 hrs*	*1,800*
	3	*Electrical Machines II*	*Sujitha Surendran*	*4*	*5 hrs*	*3,000*
	4	*Design estimating and Costing*	*Meera Murali*	*14*	*10 hrs*	*6,000*
	5	*Linear Integrated Circuits*	*Meera Murali*	*3*	*6hrs*	*3,600*
	6	*Circuits Signals and Systems I*	*Haseena P Y*	*28*	*12 hrs*	*7,200*
	7	*Control System II*	*Haseena P Y*	*8*	*2 hrs*	*1,200*
	8	*Electronic Theory*	*Chippy Vijayan*	*2*	*5hrs*	*3,000*
	9	*Network Theory*	*Niyas S K*	*39*	*3 hrs*	*1,800*
	10	*Digital Signal Processing*	*Niyas S K*	*11*	*24 hrs*	*14,400*
	11	*Fluid Dynamic and Heat Engineering*	*Jayadeepkumar J*	*20*	*8 hrs*	*4,800*
	12	*Engineering Graphics*	*Jayadeepkumar J*	*20*	*6 hrs*	*3,600*
	13	*Advanced Computer Networks*	*Sree S Bhagya*	*14*	*10 hrs*	*6,000*
	14	*Microprocessor Based System*	*Arya A P*	*3*	*8 hrs*	*4,800*
	15	*Power System engineering*	*Prasanthi P S*	*12*	*9 hrs*	*5,400*
	16	*Field Theory*	*Ajmal K*	*18*	*12 hrs*	*7,200*
	17	*HVDC*	*Ajmal K*	*10*	*3hrs*	*1,800*
	18	*Power System*	*Ajmal K*	*10*	*3hrs*	*1,800*
	19	*Electrical Machine II*	*Preema R Chandran*	*3*	*4hrs*	*2,400*
	20	*Modern Digital Signal*	*Sujitha Surendran*	*3*	*6hrs*	*3,600*

		Procesing				
	21	*Computer Networks*	*Alkha Mohan*	*2*	*10 hrs*	*6,000*
	22	*Signal and Systems*	*Chippy Vijayan*	*53*	*12 hrs*	*7,200*
	23	*Communication Engineering III*	*Aswathy S S*	*11*	*4 hrs*	*2,400*
	24	*Digital Signal Processing*	*Reji Thankachan*	*6*	*6 hrs*	*3,600*
	25	*Electronics Measurements and Instrumentation*	*Shamna S S*	*4*	*1 hrs*	*600*
	26	*Micro Processor: Architecture and Programming*	*Subeena H*	*6*	*2 hrs*	*1,200*
	27	*Microware Techniques and Device*	*Subeena H*	*13*	*8 hrs*	*4,800*
	28	*Automata Theory Languages and Computations*	*Remya R S*	*20*	*22 hrs*	*13,200*
	29	*Introduction to Electrical Engineering*	*Ajmal K*	*9*	*24 hrs*	*14,400*
	30	*Basic of Electrical Engineering*	*Ajmal K*	*9*	*6 hrs*	*3,600*
	31	*Industrial and Power Electronics*	*Meera Murali*	*5*	*10 hrs*	*6,000*
	32	*Communication Engineering II*	*Shiny C*	*10*	*12 hrs*	*7,200*
	33	*Control System I and Modern Control System*	*Haseena P Y*	*12*	*8 hrs*	*4,800*
	34	*Introduction to Computing and Problem Solving*	*Alkha Mohan*	*5*	*8 hrs*	*4,800*
	35	*Advanced Computer Networks*	*Alkha Mohan*	*18*	*5 hrs*	*3,000*
	36	*Analysis and Design of Algorithms*	*Alkha Mohan*	*6*	*3 hrs*	*1,800*
	37	*Switch Theory and Logic of Design*	*Swetha Saira Appose*	*14*	*4 hrs*	*2,400*
	38	*Microprocessor Based System Design*	*Swetha Saira Appose*	*5*	*3 hrs*	*1,800*
	39	*Computer Programming*	*Aagi A S*	*20*	*3 hrs*	*1,800*
	40	*Open GL Computer Graphics*	*Dr.Sreeni K G*	*21*	*6 hrs*	*3,600*
			Total			***5,14,200***

8.b Expenditure on students Expert class							
	Financial Year	*Subject*	*Name of faculty/expert*	*No of Beneficiaries*	*No of days /hrs*	*honorarium*	*TA/DA/etc*
	2012-13	-	-	-	-	-	-
	2013-14	-	-	-	-	-	-
	2014-15	-	-	-	-	-	-
	2015-16	-	-	-	-	-	-
	2016-17	-	-	-	-	-	-
Total						-	-

8.c Expenditure on any other Student support scheme (EAP)							
Financial Year	*Sl. No*	*Subject*	*Name of faculty/expert*	*No of Beneficiaries*	*No of days /hrs*	*honorarium*	*TA/DA/etc*
2012-13	-	-	-	-	-	-	-
2013-14	*1*	*Expert Lecture on DBMS*	*Sandhya Harikumar*	*38*	*3 days*	*9,000*	*1,440* *4,980*
	2	*Students orientation and counselling*	*Dr. Vijayan Pillai H*	*121*	*1 day*	*3,000*	*1,496*
	3	*Expert Lecture Clustering Techniques*	*Sandhya Harikumar*	*23*	*1 day*	*3,000*	*480* *1,850*
	4	*Soft Skill Training*	*Akhil Shan* *Arun Shan*	*68*	*4 days*	*12,000* *12,000*	*900* *900* *6,231*
	5	*Expert Lecture on Multirate Filter Design Techniques*	*Shanu N*	*24*	*2 Days*	*6,000*	*1,926* *3,500*
	Bridge course						
	6	*Technical communication*	*Libin Muslin*	*132*	*45 hrs*	*27,000*	-
	7	*Engineering Physics*	*Retheekumari S*	*130*	*22hrs*	*13,200*	-
	8	*Mathematics*	*Renu K K*	*35*	*7hrs*	*4,200*	-
	9	*Mathematics*	*Sheela R*	*42*	*8hrs*	*4,800*	-
	10	*Functions*	*Premakumari K R*	*52*	*11hrs*	*6,600*	-
	11	*C Programming*	*Diana Mathew*	*27*	*2hrs*	*1,200*	-
	12	*Computer Programming*	*Anilkumar A*	*35*	*5hrs*	*3,000*	-
	13	*C Programming*	*Seena Jojith*	*35*	*6hrs*	*3,600*	-
	14	*C Programming*	*Shajy L*	*44*	*12hrs*	*7,200*	-
	15	*Computer Programming*	*Meharuniza Naseem*	*70*	*18hrs*	*10,800*	-
	16	*Counseling class for First Year Students*	*Dr. Vijayan Pillai H*		*2 Days*	*3,000*	*1,000*

		(Deepa A K)					
2014-15	*1.*	*Soft Skill Training for Final Year Students*	*Arun Kumar* *Vipin V S* *Rajesh P S* *Sendhil Kumar N*	*118*	*2 Days*	*6,000* *6,000* *6,000* *6,000*	*940* *940* *940* *940* *6,374*
	2.	*Placement orientation programme*	*Rajesh P S* *Arunkumar V* *Senthilkumar M*	*121*	*3 Days*	*6,000* *6,000* *6,000*	*1,830* *3,160* *1,830* *8,397*
	3.	*Soft Skill Training for final year students*	*Subash Gauthaman* *Cliff Marcus Dare* *Arun Kumar v* *Jayesh J L* *Rajesh P S* *Vishnu Raj* *Rajaraman K S* *Mithunjith A K*	*183*	*5 Days*	*12,000* *12,000* *12,000* *12,000* *12,000* *12,000* *9,000* *9,000*	*3,937* *3,937* *4,062* *4,062* *4,062* *4,312* *2,281* *3,687* *24,060*
2015-16	*1*	*Soft Skill Training for Final Year Btech Students*	*Naveen Cheriyan* *Jayesh J L* *Rajesh P S* *Vishnu Raj* *Joseph James* *Arunkumar V* *Praveenkumar S K* *Rajan Thampuran*	*181*	*5 Days*	*15,000* *15,000* *15,000* *15,000* *15,000* *15,000* *15,000* *15,000*	*4,344* *4,344* *4,344* *4,344* *4,344* *4,344* *4,344* *4,344* *42,520*
	2	*Mind Tuning Motivation*	*Dr. T Padmakumar*	*46*	*1 Day*	*6,000*	*1,798* *4,324*
	3	*Soft Skill Training*	*Ratheesh P S*	*172*	*5 Days*	*15,000* *15,000*	*2,111* *2,804*

			Vishnu Raj			15,000	2,804
			Cliff Marcus Dare			15,000	2,111
			Hari Nair			15,000	2,111
			Percy Moses			15,000	2,111
			Jayesh J L				45,198
	Bridge course						
	4	Mathematics	Jayaram D S	110	12hrs	7,200	-
	5	Physics	Neethu S	110	21hrs	12,600	-
	6	Mathematics	Sheema A	108	6hrs	3,600	-
2016-17	1.	Counselling for First year students	Dr. C Somarajan	37	1 Day	3,000	1,024
							1,017
	2	Project oriented Training programme	Dr. Vishnu Nampoothiri	48	4 Day	14,400	- 9,400
	3	Workshop on Life skill	Alexander F	76	1 Day	3,000	1,576
							9,307
	4	Motivational and Counselling class	Justin Tomas	82	1 Day	3,000	2,683
			Thomas Sabu			3,000	2,683
							3,710
	5	Motivational and Counselling class	Justin Tomas	39	2 Day	6,000	2,846
							4,200
	6	Motivational and Counselling class	Justin Tomas	40	1 Day	3,000	9,840
	7	Soft skill training for S4 EC, CSE and EEE	Rajeev R Pillai	106	4 Days	6,000	1,690
			Rajesh P S			6,000	1,672
			Sarala N P			3,000	1,547
			Hari S Nair			6,000	1,672
			Vishnu Raj			6,000	1,690
			Shinu B			6,000	1,690
			Sanjay Rajan			3,000	4,170
			Jude Joseph F			3,000	4,170
			Jyothish V			6,000	1,565
			Bimil			3,000	3,370
			Cliff Marcus Dare			3,000	4,170
			Karthik Kasav			6,000	1,960

			Seetha Thampi			*3,000*	*1,960*
			Deepak Jose			*6,000*	*3,635*
			Sandheep V S			*6,000*	*1,690*
							15,068
	8	*Orientation training for placement*	*Rajeev R Pillai*	*112*	*4 Days*	*3,000*	*1,565*
			Hari S Nair			*3,000*	*1,565*
			Sandeep V S			*6,000*	*1,565*
			Sarala N P			*6,000*	*1,514*
			Jude Joseph			*3,000*	*1,565*
			Vishnu Raj			*6,000*	
			Jyothish V			*6,000*	
			Bimil			*3,000*	
			Shinu B			*6,000*	
			Karthik keshav			*6,000*	
			Rajesh P S			*6,000*	
			Seetha Thampi			*6,000*	
			Sanjay Rajan			*3,000*	
			Deepak Jose			*6,000*	
			Cliff Marcus Dale			*3,000*	*4,560*
							16,016
	9	*Motivational and Counselling class*	*Justin Thomas*	*43*	*2 Days*	*6,000*	*3,044*
			Arun Prasad			*6,000*	*1,005*
							6,525
	Bridge Course						
	10	*Physics*	*Neethu K S*	*116*	*18 hrs*	*10,800*	*-*
	11	*Basic Science*	*Teetu Babu*	*116*	*12 hrs*	*7,200*	*-*
	12	*English*	*Libin Muslih*	*116*	*6 hrs*	*3,600*	*-*
2017-18	*1*	*Soft skill training Programme*	*Hari S Nair*	*42*	*3 Days*	*3,000*	*1,300*
			Shinu B			*3,000*	
			Cliff Marcus Dare			*3,000*	*1,300*
			Vishnu Raj			*3,000*	*5,600*

	2	*Soft skill training Programme*	*Shinu Balachandran* *Hari S Nair* *Cliff Marcus Dare* *Vishnu Raj* *Hari S Nair*			*3,000* *3,000* *3,000* *3,000* *3,000*	 *1,460* *3,280* *400*
	3	*Project oriented training programme*	*Nebu Pullickal* *Kannan S A* *Basim Basheer*	*49*	*4 Days*	*9,000* *3,000* *12,000*	*3,170* *3,170* *3,170* *6,500*
	4	*Getting ready for Placement - S6 EEE*	*Rajeev R Pillai* *Deepak Jose* *Karthik Kesav* *Jyothish V* *Seetha Thampi* *Hari S Nair* *Cliff Marcus Dale* *Sarala M P* *Sandheep V S* *Vishnu Raj* *Rajeev R Pillai* *Deepak Jose* *Jyothish V* *Hari S Nair*	*49*	*5 Days*	*3,000* *3,000* *3,000* *3,000* *3,000* *3,000* *3,000* *3,000* *3,000* *3,000* *3,000* *3,000* *3,000* *3,000*	 *3,757* *1,190* *1,190* *1,190* *4,555*
	5	*Getting ready for Placement - S6 EC*	*Deepak Jose* *Hari S Nair* *Sarala M P* *Vishnu Raj* *Seetha Thampi* *Jyothish V*	*36*	*5 Days*	*3,000* *3,000* *3,000* *3,000* *3,000* *3,000*	*3,758* *1,190* *1,190* *1,190* *2,235* *3,757*

			Shinu Balachandran			*3,000*	*1,190*
			Karthik Kesav			*3,000*	*1,915*
			Sandeep V S			*3,000*	*1,190*
			Rajeev R Pillai			*3,000*	*1,190*
							6,656
	6	*Aptitude Training, S8*	*Deepak Jose*	*132*	*4 Days*	*6,000*	*3,918*
			Hari S Nair			*3,000*	*1,190*
			Rajesh P S			*6,000*	*2,380*
			Sarala M P			*6,000*	*2,380*
			Vishnu Raj			*6,000*	*2,380*
			Jude Joseph			*3,000*	*1,190*
			Seetha Thampi			*6,000*	*1,927*
			Jyothish V			*6,000*	*3,917*
			Bimil			*3,000*	*3,758*
			Shinu Balachandran			*6,000*	*2,380*
			Karthik Kesav			*6,000*	*1,927*
			Cliff Marcus Dale			*3,000*	*3,917*
			Sanjay Rajan			*3,000*	*3,917*
			Sandeep V S			*6,000*	*1,190*
			Rajeev R Pillai			*3,000*	
							21184
	7	*Aptitude Training, Mtech*	*Deepak Jose*	*51*	*4 Days*	*3,000*	*3,758*
			Hari S Nair			*3,000*	*1,190*
			Rajesh P S			*6,000*	*2,380*
			Sarala M P			*6,000*	*2,380*
			Vishnu Raj			*3,000*	*1,190*
			Jude Joseph			*3,000*	*1,190*
			Seetha Thampi			*3,000*	*1,915*
			Jyothish V			*3,000*	*3,917*
			Bimil			*3,000*	*3,758*
			Shinu Balachandran			*3,000*	*1,190*

			Karthik Kesav			*3,000*	*1,927*
			Cliff Marcus Dale			*3,000*	*3,917*
			Sanjay Rajan			*3,000*	*3,917*
			Sandeep V S			*3,000*	*1,190*
							8,548
	8	*Aptitude Training, S6 CS IT*	*Karthik Keshav*	*44*	*5 Days*	*3,000*	*2,235*
			Vishnu Raj			*3,000*	*1,190*
			Cliff Marcus			*3,000*	*3,757*
			Deepak Jose			*3,000*	
			Shinu Balachandran			*6,000*	*1,190*
			Sandheep V S			*3,000*	*1,190*
			Rajeev R Pillai			*3,000*	*1,190*
			Seetha Thampi			*3,000*	*1,915*
			Hari S Nair			*3,000*	*1,190*
							7,799
Total						***7,26,000***	***8,35,298***

9. Year wise Expenditure details of all the sub-activities in Incremental Operating Cost

9.a Expenditure on Incremental operating cost							
Financial Year	*Sl. No*	*Items*	*Maintenance*	*TA/DA*	*Stationeries*	*Minor items/ work*	*others*
2012-13	*-*	*-*		*-*	*-*	*-*	*-*
2013-2014		*Consumables*					
	1	*Payment of printer catridge , canon 303– Canon LBP 2900B*	*-*	*-*	*-*	*-*	*16,450*
	2	*Payment of postal stamps*	*5,000*	*-*	*-*	*-*	*-*
	3	*Payment for printing & Stationery items*	*-*	*-*	*2,950*	*-*	*-*
	4	*Payment for indent books*	*-*	*-*	*5,350*	*-*	*-*
	5	*Payment of consumables- Electrical Workshop*	*-*	*-*	*-*	*-*	*19,900*

	6	*Payment for stationery items – Teqip II office*	-	-	*18,638*	-	-
	7	*Payment for printing and stationery items (Registers)*	-	-	*11,350*	-	-
	8	*Payment for consumables – Mechanical workshop*	-	-	-	-	*10,740*
	9	*Payment for stationery items- TEQIP II Office*	-	-	*19,912*	-	-
	10	*Payment for Spiral binding charges*	-	-	*525*	-	-
	11	*Payment for printing stationery for library*	-	-	*22,750*	-	-
	12	*Payment for installation of projectors*	-	-	-	-	*12,800*
	13	*Payment for seal*	-	-	*1,530*	-	-
	14	*Payment for consumables- Battery water, Silica Gel, RJ 45 Jack*	-	-	-	-	*1,805*
	15	*Payment for consumables- Toner Refilling*	-	-	-	-	*1,600*
	16	*Payment for consumables- Toner Refilling*	-	-	-	-	*400*
	17	*Payment for Laser printer catridge*	-	-	-	-	*2,800*
	18	*Payment for consumables – Electrical Dept*	-	-	-	-	*18,489*
	19	*Payment for consumables*	-	-	-	-	*12,894*
		Operation and Maintenance					
	20	*Conducted implementation programme for staff members*	-	-	-	-	*3,600*
	21	*Attended PMSS workshop – Dr. Ajilkumar A*	-	*22,925*	-	-	-
		Attended PMSS workshop – Manoj Ray D	-	*22,925*	-	-	-
	22	*Attending effective monitoring and reviewing – Dr. Hari V S*	-	*1,564*	-	-	-
		Attending effective monitoring and reviewing – Dr. Ajilkumar A	-	*1,564*	-	-	-
		Attending effective monitoring and reviewing – Manoj Ray D	-	*1,564*	-	-	-
		Attending effective monitoring and reviewing – Deepa V S	-	*1,564*	-	-	-
		Attending effective monitoring and reviewing – Libi A	-	*1,564*	-	-	-
	23	*Attending orientation programme, SPFU – Hari V S*	-	*1,564*	-	-	-
		Attending orientation programme, SPFU – Dr.	-	*1,564*	-	-	-

		Ajilkumar A					
		Attending orientation programme , SPFU – Manoj Ray D	-	*1,564*	-	-	-
		Attending orientation programme, SPFU – Deepa V S	-	*1,564*	-	-	-
		Attending orientation programme , SPFU – Vinod kumar	-	*1,564*	-	-	-
	23	*Attended workshop on IIIC cell– Anilkumar V*	-	*1,952*	-	-	-
	24	*Attended training programme on PMSS – Manoj Ray D*	-	*1,892*	-	-	-
		Attended training programme on PMSS –Anilkumar A	-	*1,892*	-	-	-
	25	*Attended workshop on IIIC cell– Baiju V*	-	*1,952*	-	-	-
	26	*Attending discussion with Dr. Sujathan, R & D division, RCC- Shajy L*	-	*1,756*	-	-	-
	27	*Attending discussion with Dr. Keshava Chandrashekar, R & D division, SCTI- Shajy L*	-	*1,756*	-	-	-
		Attending discussion with Dr. Keshava chandrashekar, R & D division, SCTI- Smitha P	-	*1,756*	-	-	-
	28	*Conducted BOG 1*	-	*25,410*	-	-	*6,005*
	29	*Attended Review meeting at DTE- Hari V S*	-	*1,564*	-	-	-
		Attended Review meeting at DTE- Dr. Ajilkumar A	-	*1,564*	-	-	-
		Attended Review meeting at DTE- Smitha P	-	*1,564*	-	-	-
		Attended Review meeting at DTE- Deepa V S	-	*1,564*	-	-	-
		Attended Review meeting at DTE- Libi A	-	*1,564*	-	-	-
		Attended Review meeting at DTE- Manoj Ray D	-	*1,564*	-	-	-
		Attended Review meeting at DTE- Baiju V	-	*1,564*	-	-	-
	30	*First Mentors Visit- Prof. Sudheer K P, IIT Madras*	-	*16,113*	-	-	*17,523*
	31	*Attended Review meeting at CGPU CE TVM – Dr. Ajilkumar A*	-	*1,692*	-	-	-
		Attended Review meeting at CGPU CE TVM – Manoj Ray D	-	*1,692*	-	-	-
		Attended Review meeting at	-	*1,692*	-	-	-

		CGPU CE TVM – Deepa V S					
		Attended Review meeting at CGPU CE TVM – Smitha P	-	*1,692*	-	-	-
		Attended Review meeting at CGPU CE TVM – Premakumari K R	-	*1,692*	-	-	-
	32	*Festival Allowance – Rijo George*	-	-	-	-	*910*
		Festival Allowance – Shanida	-	-	-	-	*910*
		Festival Allowance – Dini M	-	-	-	-	*910*
	33	*Attended Review meeting for finalizing procurement plan – Manoj Ray D*	-	*1,614*	-	-	-
		Attended Review meeting for finalizing procurement plan – Dr. Ajilkumar A	-	*1,614*	-	-	-
		Attended Review meeting for finalizing procurement plan – Hari V S	-	*1,614*	-	-	-
		Attended Review meeting for finalizing procurement plan – Dr. Ajil kumar A	-	*1,614*	-	-	-
		Attended Review meeting for finalizing procurement plan – Manoj Ray D	-	*1,614*	-	-	-
	34	*Conducting Written test & Interview for MIS officer*	-	*1,489*	-	-	*3,000*
	35	*Attended Teqip Review Workshop, Bangalore – Hari V S*	-	*16,273*	-	-	-
		Attended Teqip Review Workshop, Bangalore –Dr. Ajilkumar A	-	*16,273*	-	-	-
		Attended Teqip Review Workshop, Bangalore –Manoj Ray D	-	*16,273*	-	-	-
	36	*Attended Review meeting on Progress of TEQIP II, TVM – Hari V S*	-	*1,644*	-	-	-
		Attended Review meeting on Progress of TEQIP II, TVM – Dr. Ajilkumar A	-	*1,644*	-	-	-
		Attended Review meeting on Progress of TEQIP II, TVM – Manoj Ray D	-	*1,644*	-	-	-
		Attended Review meeting on Progress of TEQIP II, TVM – Deepa V S	-	*1,644*	-	-	-
		Attended Review meeting on	-	*1,644*	-	-	-

		Progress of TEQIP II, TVM – Premakumari K R					
		Attended Review meeting on Progress of TEQIP II, TVM – Smitha P	-	*1,644*	-	-	-
		Attended Review meeting on Progress of TEQIP II, TVM – Baiju V	-	*1,644*	-	-	-
		Attended Review meeting on Progress of TEQIP II, TVM – Sheela R	-	*1,582*	-	-	-
		Attended Review meeting on Progress of TEQIP II, TVM – Shajy L	-	*1,582*	-	-	-
		Attended Review meeting on Progress of TEQIP II, TVM – Haseena PY	-	*1,532*	-	-	-
		Attended Review meeting on Progress of TEQIP II, TVM – Vinod Kumar	-	*1,202*	-	-	-
	37	*Attending workshop on MIS- Jayadeep Kumar J*	-	*23,894*	-	-	-
	38	*Attended Tally Programme – Vinod Kumar*	-	*2,220*	-	-	-
		Attended Tally Programme- Shanida	-	*558*	-	-	-
		Attended Tally Programme-Dini M	-	*558*	-	-	-
	39	*BOG Meeting 2*	-	*15,098*	-	-	*26,085*
	40	*Attended meeting regarding direct to student program– QEEE Meeting– Dr. Ajilkumar A*	-	*32,306*	-	-	-
	41	*Attended workshop on assessment of IIIC activities – Hari V S*	-	*1,487*	-	-	-
		Attended workshop on assessment of IIIC activities – Dr. Ajilkumar A	-	*1,706*	-	-	-
		Attended workshop on assessment of IIIC activities – Premakumari K R		*1,487*		-	-
		Attended workshop on assessment of IIIC activities – Baiju V	-	*1,706*	-	-	-

	42	*Cluster level meeting of IIIC – Dr. Ajilkumar A*	*-*	*1,529*	*-*	*-*	*-*
		Cluster level meeting of IIIC – Baiju V	*-*	*1,529*	*-*	*-*	*-*
	43	*Attended Discussion meeting on effective implementation of TEQIP II at DTE – Hari V S*	*-*	*1,612*	*-*	*-*	*-*
		Attended Discussion meeting on effective implementation of TEQIP II at DTE- Dr. Ajilkumar A	*-*	*2,792*	*-*	*-*	*-*
		Attended Discussion meeting on effective implementation of TEQIP II at DTE-Manoj Ray D	*-*	*1,987*	*-*	*-*	*-*
	44	*Advertisement - Kasturi & sons*	*-*	*-*	*-*	*-*	*2,56,000*
	45	*Advertisement – Malayala Manorama*	*-*	*-*	*-*	*-*	*1,24,928*
	46	*BOG 3 - Dr. Ajilkumar A*	*-*	*15,348*	*-*	*-*	*23,773*
	47	*Advertisement - Kasturi & sons*	*-*	*-*	*-*	*-*	*55,440*
	48	*Advertisement – Malayala Manorama*	*-*	*-*	*-*	*-*	*43,776*
	49	*Attended review meeting on effective implementation of TEQIP II – Hari V S*	*-*	*-*	*-*	*-*	*1,705*
		Attended review meeting on effective implementation of TEQIP II – Dr. Ajilkumar A	*-*	*-*	*-*	*-*	*1,705*
		Attended review meeting on effective implementation of TEQIP II – Manoj Ray D	*-*	*-*	*-*	*-*	*1,705*
		Attended review meeting on effective implementation of TEQIP II – Deepa V S	*-*	*-*	*-*	*-*	*1,705*
		Attended review meeting on effective implementation of TEQIP II – Premakumari K R	*-*	*-*	*-*	*-*	*1,705*
		Attended review meeting on effective implementation of TEQIP II – Sheela R	*-*	*-*	*-*	*-*	*1,705*

		Attended review meeting on effective implementation of TEQIP II – Baiju V	-	-	-	-	*1,705*
		Attended review meeting on effective implementation of TEQIP II – Premnath G	-	-	-	-	*1,705*
		Attended review meeting on effective implementation of TEQIP II – Shajy L	-	-	-	-	*1,637*
	50	*Courier charges- Smitha P*	-	-	-	-	*200*
	51	*Repair charges of Photostat machine*	*5,000*	-	-	-	-
	52	*Attended Procurement Coordinators meeting*	-	*1,644*	-	-	-
	53	*Conducted data Audit-Dr. Suresh K*	-	*2,060*	-	-	*3,554*
	54	*Salary – Dini M*	-	-	-	-	*68,425*
		Salary – Rijo George	-	-	-	-	*1,65,323*
		Salary – Shanida	-	-	-	-	*68,600*
2014-15		*Consumables*					
	1	*Payment of consumables to Project Lab*	-	-	-	-	*5,706*
	2	*Purchase of consumables to Microprocessor Lab EC.*	-	-	-	-	*7,900*
	3	*Payment of consumables to Digital electronics lab*	-	-	-	-	*13,898*
	4	*Payment of consumables communication Engg. Lab*	-	-	-	-	*12,669*
	5	*Payment of consumables – Master Roll and ink(Exam cell)*	-	-	-	-	*932*
	6	*Payment of consumables*	-	-	-	-	*1,864*
	7	*Payment of postal stamps*	-	-	*1,000*	-	-
	8	*Purchase of stationery- TEQIP II office*	-	-	*24,835*	-	-
	9	*Purchase of seals for TEQIP II office*	*250*	-	-	-	-
	10	*Purchase of Seals & Registers- TEQIP II office*	*3,750*	-	-	-	-
	11	*Purchase of wooden pamphlet box for library*	-	-	-	-	*7,100*
	12	*Payment for Borrowers ticket, plastic towel*	-	-	-	-	*6,300*

	13	*Payment for printer catridge*	*-*	*-*	*-*	*-*	*2,800*
	14	*Payment made for Master roll and ink – Exam cell*	*-*	*-*	*13,540*	*-*	
	15	*Payment for running expense of diesel generator*	*2,000*	*-*	*-*	*-*	*-*
	16	*Purchase of components for communication lab*	*-*	*-*	*-*	*-*	*11,661*
	17	*Purchase of consumables for Electronics circuit lab*	*-*	*-*	*-*	*-*	*13,468*
	18	*Payment for supply of consumables – Electrical workshop*	*-*	*-*		*-*	*18,425*
	19	*Payment for purchase of office stationery- TEQIP II office*	*-*	*-*	*7,760*	*-*	*-*
	20	*Payment to consumables of digital electronics lab*	*-*	*-*	*-*	*-*	*15,595*
	21	*Payment of toner for TEQIP office*	*-*	*-*	*-*	*-*	*750*
		Operations and maintenance					
	22	*Conducted performance audit- Dr. Ajil Kumar*	*-*	*-*	*-*	*-*	*59,526*
	23	*Attending Meeting with central project advisor-Dr. Ajilkumar*	*-*	*1,505*	*-*	*-*	*-*
		Attending Meeting with central project advisor - Baiju V	*-*	*1,505*	*-*		*-*
		Attending Meeting with central project advisor –Manoj Ray D	*-*	*1,505*	*-*	*-*	*-*
		Attending Meeting with central project advisor -Jayadeep Kumar	*-*	*1,505*	*-*	*-*	*-*
		Attending Meeting with central project advisor -Deepa V S	*-*	*1,505*	*-*	*-*	*-*
		Attending Meeting with central project advisor -Premakumari K R	*-*	*1,505*	*-*	*-*	*-*
		Attending Meeting with central project advisor -Libi A	*-*	*1,505*	*-*	*-*	*-*
		Attending Meeting with central project advisor - Dr. Hari V S	*-*	*1,505*	*-*	*-*	*-*
	24	*Attended MIS Evaluation Camp- Jayadeep Kumar J*	*-*	*1,769*	*-*	*-*	
		Attended MIS Evaluation Camp- Rijo George	*-*	*1,311*	*-*	*-*	
	25	*Attend Meeting on MOU signing- Dr. Ajilkumar A*	*-*	*1,654*	*-*	*-*	*-*
		Attend Meeting on MOU signing-Manoj Ray D	*-*	*1,654*	*-*	*-*	*-*
		Attend Meeting on MOU signing- Anilkumar A	*-*	*1,654*	*-*	*-*	*-*

	26	*Attending procurement review meeting – Dr. Ajilkumar A*	*-*	*1,612*	*-*	*-*	*-*
	27	*Conducting BOG 4*	*-*	*16,514*	*-*	*-*	*25,863*
	28	*Workshop on Environment Management framework &procurement practices- Manoj Ray D*	*-*	*27,830*	*-*	*-*	*-*
		Workshop on Environment Management framework & procurement practices- Premnath	*-*	*28,280*	*-*	*-*	*-*
	29	*Attending accreditation review meeting at DTE – Remya R S*	*-*	*1,562*	*-*	*-*	*-*
		Attending accreditation review meeting at DTE – Revikumar Thampi V R	*-*	*1,612*	*-*	*-*	*-*
		Attending accreditation review meeting at DTE – Shiny C	*-*	*1,612*	*-*	*-*	*-*
		Attending accreditation review meeting at DTE – Anuja V Nair	*-*	*1,562*	*-*	*-*	*-*
		Attending accreditation review meeting at DTE – Dr. Ajilkumar A	*-*	*1,612*	*-*	*-*	*-*
		Attending accreditation review meeting at DTE – Anilkumar A	*-*	*1,612*	*-*	*-*	*-*
	30	*Workshop for QEEE coordinator – Dr. C Gopakumar*	*-*	*6,791*	*-*	*-*	*-*
		Workshop for QEEE coordinator –Anilkumar A	*-*	*6,791*	*-*	*-*	*-*
	31	*QEEE Meeting- Hari V S*	*-*	*27,686*	*-*	*-*	*-*
	32	*Attended Placement coordinators meeting- Baiju V*	*-*	*1,585*	*-*	*-*	*-*
		Attended Placement coordinators meeting - Revikumar Thampi V R	*-*	*1,585*	*-*	*-*	*-*
	33	*Special Allowance for onam- Rijo George*	*-*	*-*	*-*	*-*	*910*
		Special Allowance for onam- Dini M	*-*	*-*	*-*	*-*	*910*
		Special Allowance for onam- Anju Y U	*-*	*-*	*-*	*-*	*910*
	34	*Attended Workshop on Student, Staff satisfaction survey – Dr. Ajilkumar A*	*-*	*14,581*	*-*	*-*	*-*
		Attended Workshop on Student, Staff satisfaction survey – Binu V P	*-*	*14,581*	*-*	*-*	*-*
	35	*Mentors visit- Prof. Sudheer K P*	*-*	*20,644*	*-*	*-*	*16,145*

	36	*Conducting performance audit*	*-*	*-*	*-*	*-*	*68,913*
	37	*Data Auditors visit- Dr. Smitha Dharan*	*-*	*1,694*			*3,200*
	38	*Attended meeting on progress of TEQIP II implementation – Dr. Ajilkumar A*	*-*	*1,755*	*-*	*-*	*-*
		Attended meeting on progress of TEQIP II implementation – Dr. Hari V S	*-*	*1,755*	*-*	*-*	*-*
		Attended meeting on progress of TEQIP II implementation – Manoj Ray D	*-*	*1,755*	*-*	*-*	*-*
		Attended meeting on progress of TEQIP II implementation – Deepa V S	*-*	*1,755*	*-*	*-*	*-*
		Attended meeting on progress of TEQIP II implementation – C V Anilkumar	*-*	*1,755*	*-*	*-*	*-*
		Attended meeting on progress of TEQIP II implementation – Remya RS	*-*	*1,687*	*-*	*-*	*-*
		Attended meeting on progress of TEQIP II implementation – Shiny C	*-*	*1,568*	*-*	*-*	*-*
		Attended meeting on progress of TEQIP II implementation – Revikumar Thampi V R	*-*	*1,787*	*-*	*-*	*-*
		Attended meeting on progress of TEQIP II implementation – Binu V P	*-*	*1,755*	*-*	*-*	*-*
		Attended meeting on progress of TEQIP II implementation – Premakumari K R	*-*	*1,755*	*-*	*-*	*-*
		Attended meeting on progress of TEQIP II implementation – Baiju V	*-*	*1,755*	*-*	*-*	*-*
	39 *40*	*Attended Post procurement review meeting – Dr. Ajilkumar A*	*-*	*30,418*	*-*	*-*	*288*
		Attended Post procurement review meeting – Manoj Ray D	*-*	*30,418*	*-*	*-*	*-*
	41	*BOG 5*	*-*	*18,215*	*-*	*-*	*25,178*
	42	*Payment of scrutiny fee for diesel generator*	*-*	*-*	*-*	*-*	*20,013*
	43	*Cancellation of Air ticket for Attend programme on Recent trends and applications in power electronics- Raju M*	*-*	*-*	*-*	*-*	*3,579*

	44	Cancellation fee of DD – Baiju V	-	-	-	-	110
		Attend annual national accreditation meeting- Anuja V Nair	-	4,308	-	-	-
		Attend annual national accreditation meeting – Deepa T R	-	3,808	-	-	-
		Attend annual national accreditation meeting- Remya R S	-	3,808	-	-	-
		Attend annual national accreditation programme- Revikumar Thampi V R	-	4,008	-	-	-
		Attend annual national accreditation meeting- Shiny C	-	4,508	-	-	-
	45	Salary - Dini	-	-	-	-	1,08,600
		Salary – Anju Y U	-	-	-	-	88,500
		Salary - Shanidha	-	-	-	-	30,100
		Salary – Rijo George	-	-	-	-	3,00,000
2015-16		Consumables					
	1	Payment for purchase of GI Sheet	-	-	-	-	3,744
	2	Payment for purchase of cotton waste	-	-	-	-	550
	3	Payment Anjili Wooden pieces	-	-	-	-	14,885
	4	Payment for Toner refilling– TEQIP II office	-	-	-	-	750
	5	Payment for purchase of postal stamps	500	-	-	-	-
	6	Payment for purchase of toner- TEQIP II office	-	-	-	-	1,600
	7	Payment for Purchase of stationery- Teqip II office	-	-	7,947	-	-
	8	Payment for Purchase of postal stamps	500	-	-	-	-
	9	Payment for Toner Refilling	-	-	-	-	400
	10	Payment for Purchase of chemistry lab consumables	-	-	-	-	19,465
	11	Payment for purchase of consumables, electronics lab	-	-	-	-	4415
	12	Payment for purchase of External Harddisk- TEQIP II office	-	-	-	-	4,800
		Operation and Maintenance					
	13	Payment forinspection fee of electrical inspectorate	-	-	-	-	26,501

	14	*Payment for asst. Engineer/ electrical section, for HT consumer*	*-*	*-*	*-*	*-*	*10,010*
	15	*Payment for inspection fee for electrical section*	*-*	*-*	*-*	*-*	*2,300*
	16	*Conducted BOG 6*	*-*	*22,332*	*-*	*-*	*25,344*
	17	*Special festival allowance – Rijo George*	*-*	*-*	*-*	*-*	*2,400*
		Special festival allowance- Dini M	*-*	*-*	*-*	*-*	*1,100*
		Special festival allowance- Anju Y U	*-*	*-*	*-*	*-*	*2,400*
	18	*Payment for Renewal fee of ICT academy*	*-*	*-*	*-*	*-*	*68,400*
	19	*Attended 7th review meeting- Hari V S*	*-*	*1,755*	*-*	*-*	*-*
		Attended 7th review meeting- Dr. Ajilkumar A	*-*	*1,755*	*-*	*-*	*-*
		Attended 7th review meeting- Baiju V	*-*	*1,755*	*-*	*-*	*-*
		Attended 7th review meeting- Deepa V S	*-*	*1,755*	*-*	*-*	*-*
		Attended 7th review meeting- Sylish S V	*-*	*1,755*	*-*	*-*	*-*
	20	*Attended Teqip II coordinators meeting – Dr. Ajilkumar A*	*-*	*1,662*	*-*	*-*	*-*
	21	*Payment for KTU training fee*	*-*	*-*	*-*	*-*	*50,023*
	22	*Payment for expense of statutory Audit*	*-*	*-*	*-*	*-*	*931*
	23	*Payment made for Inspection fee for 11KV substation*	*-*	*-*	*-*	*-*	*2,500*
	24	*Attended Review meeting on the Progress of implementation of TEQIP II-Dr. Hari v S*	*-*	*1,755*	*-*	*-*	*-*
		Attended Review meeting on the Progress of implementation of TEQIP II- Dr. Ajilkumar A	*-*	*1,755*	*-*	*-*	*-*
		Attended Review meeting on the Progress of implementation of TEQIP II- Deepa V S	*-*	*1,755*	*-*	*-*	*-*
		Attended Review meeting on the Progress of implementation of TEQIP II- Baiju V	*-*	*1,755*	*-*	*-*	*-*
		Attended Review meeting on the Progress of implementation of TEQIP II- Sylish S V	*-*	*1,755*	*-*	*-*	*-*
		Attended Review meeting on the Progress of implementation of	*-*	*1,755*	*-*	*-*	*-*

		TEQIP II- Binu V P					
		Attended Review meeting on the Progress of implementation of TEQIP II- C V Anilkumar	-	*1,755*	-	-	-
		Attended Review meeting on the Progress of implementation of TEQIP II-Libi A	-	*1,755*	-	-	-
		Attended Review meeting on the Progress of implementation of TEQIP II- Shaji L	-	*1,755*	-	-	-
		Attended Review meeting on the Progress of implementation of TEQIP II- Premakumary K R	-	*1,755*	-	-	-
	25	*Payment for attended post procurement review meeting – Sylish S V*	-	*29,814*	-	-	*2,098*
		Payment for attended post procurement review meeting – Manoj Ray D	-	*29,814*	-	-	*2,098*
	26	*Conducted BOG 7 – Dr. Ajilkumar A*	-	*16,215*	-	-	*23,889*
	27	*Payment of HT fee to electrical inspectorate (150 KVA)*	-	-	-	-	*76,823*
	28	*Payment for Attended symposium on teaching, learning in higher education- Dr Hari V S*	-	*10,555*	-	-	-
		Payment for Attended symposium on teaching, learning in higher education- Binu V P	-	*8,342*	-	-	-
	29	*Salary – Rijo George*	-	-	-	-	*3,00,000*
		Salary – Anju Y U	-	-	-	-	*1,80,000*
		Salary – Dini M	-	-	-	-	*1,14,800*
2016-17	*1*	*BOG 8*	-	*19,858*	-	-	*29,641*
	2	*Payment of TA/ DA for attended Meeting Preparation of strategic plan for TEQIP III – Dr. Ajilkumar A*	-	*1,672*	-	-	-
		Payment of TA/ DA for attended Meeting Preparation of strategic plan for TEQIP III- Dr. Hari V S	-	*1,672*	-	-	-
		Payment of TA/ DA for attended Meeting Preparation of strategic plan for TEQIP III- C V Anilkumar	-	*1,672*	-	-	-
	3	*Security deposit to special office(revenue), KSEB, Pattom*	-	-	-	-	*2,85,726*

	4	*Labelling of equipments TEQIP II*	*-*	*-*	*-*	*-*	*19,884*
	5	*Review Meeting, Mascot Hotel TVM, - Dr. Ajilkumar A*	*-*	*1,672*	*-*	*-*	
	6	*Service charge to multimedia projectors*	*6,000*	*-*	*-*	*-*	*-*
	7	*Service charges of 125kga diesel generator*	*10,006*	*-*	*-*	*-*	*-*
	8	*Settlement of bills for attended review meeting- Dr. Hari V S*	*-*	*-*	*-*	*-*	*1,720*
		Settlement of bills for attended review meeting- Dr. Ajilkumar A	*-*	*-*	*-*	*-*	*1,720*
	9	*TA/ DA for preparing estimate of Civil works*	*-*	*-*	*-*	*-*	*3,7409*
	10	*Conducted performance audit*	*-*	*44,608*	*-*	*-*	*51,081*
	11	*Settlement of bills for conducted data audit*	*-*	*1,579*	*-*	*-*	*3,000*
	12	*Festival Allowance – Rijo George*	*-*	*-*	*-*	*-*	*2,400*
		Festival Allowance – Anju Y U	*-*	*-*	*-*	*-*	*2,400*
		Festival Allowance – Dini M	*-*	*-*	*-*	*-*	*1,100*
	13	*Settlement of bills for attended 7th joined,review meeting, Mascot hotel, TVM- Dr. Ajilkumar A*	*-*	*-*	*-*	*-*	*1,720*
	14	*Settlement of bills for attended review meeting, HE Dept. , Secretariat Annex- Dr. Hari V S*	*-*	*-*	*-*	*-*	*1,720*
	15	*BOG 9*	*-*	*10,562*	*-*	*-*	*19,879*
	16	*Refilling of Toner – TEQIP II office*	*-*	*-*	*-*	*-*	*400*
	17	*Payment for the purchase of master roll ink*	*-*	*-*	*-*	*-*	*14,651*
	18	*Refilling toner catridge*	*750*	*-*	*-*	*-*	*-*
	19	*Postal stamp*	*750*	*-*	*-*	*-*	*-*
	20	*Refilling of Toner- EC DEpt*	*-*	*-*	*-*	*-*	*400*
	21	*Purchase of consumables to EC department*	*-*	*-*	*-*	*-*	*24,898*
	22	*Purchase of stationery to TEQIP office*	*-*	*-*	*6,614*	*-*	*-*
	23	*Purchase of consumables to CS*	*-*	*-*	*-*	*-*	*9,460*
	24	*Toner Filling in EC dept*	*-*	*-*	*-*	*-*	*1,950*

	25	*Payment made for purchase of stationery item (paper)for accreditation purpose*	*-*	*-*	*24,840*	*-*	*-*
	26	*Payment made for purchase of stationery for accreditation purpose*	*-*	*-*	*24,980*	*-*	*-*
	27	*Purchase of consumables to chemistry lab*	*-*	*-*	*-*	*-*	*22,035*
	28	*Refilling of Toner – TEQIP II office*	*-*	*-*	*-*	*-*	*400*
		Operation and maintenance					
	29	*Settlement of bills for conducted one day programme in ISO 9001:2015 certification*	*-*	*2,575*	*-*	*-*	*3,400*
	30	*Renewal Fee – ICT Academic Membership*	*-*	*-*	*-*	*-*	*69,000*
	31	*Payment of TD/DA for attended meeting on the presentation of IDP- C V Anilkumar*	*-*	*1,840*	*-*	*-*	*-*
	32	*Payment of TD/DA for attended meeting on the presentation of IDP- Anilkumar A*	*-*	*1,840*	*-*	*-*	*-*
		Payment of TD/DA for attended meeting on the presentation of IDP- Dr. Jaya V L	*-*	*1,840*	*-*	*-*	*-*
	33	*Attended workshop on approval process – Dr. Jaya V L*	*-*	*18,299*	*-*	*-*	*-*
	34	*Payment for AMC of Dell i7Laptop*	*60,000*	*-*	*-*	*-*	*-*
	35	*Payment for AMC of Dell i5 Laptop*	*75,000*	*-*	*-*	*-*	*-*
	36	*Payment of AMC for Photo Copier Machine – Exam cell*	*35,100*	*-*	*-*	*-*	*-*
		Payment of AMC for Photo Copier Machine- office	*18,900*	*-*	*-*	*-*	*-*
	37	*Payment for attended preclosure review meeting Dr.Jaya V L*	*-*	*1,840*	*-*	*-*	*-*
		Payment for attended preclosure review meeting Mr.Binu V P	*-*	*1,840*	*-*	*-*	*-*
		Payment for attended preclosure review meeting Ms.Libi A	*-*	*1,800*	*-*	*-*	*-*

	38	*Payment for attended preclosure review meeting Mr.Ganesh R*	-	*1,800*	-	-	-
		Payment for attended preclosure review meeting Mr.Revikumar Thampi V R	-	*1,840*	-	-	-
		Payment for attended preclosure review meeting Mr.C V Anilkumar	-	*1,840*	-	-	-
		Payment for attended preclosure review meeting Mr.Baiju V	-	*1,840*	-	-	-
		Payment for attended preclosure review meeting Ms.Premakumari K R	-	*1,840*	-	-	-
		Payment for attended preclosure revf iew meeting Dr.Ajilkumar A	-	*1,840*	-	-	-
		Payment for attended preclosure review meeting Mr.Sylish S V	-	*1,840*	-	-	-
		Payment for attended preclosure review meeting Dr.Smitha P	-	*1,840*	-	-	-
	39	*Payment for IEEE membership fee Ms.Deepa A K*	-	-	-	-	*3,000*
		Payment for IEEE membership fee Mr.C V Anilkumar	-	-	-	-	*2,830*
		Payment for IEEE membership fee Ms.Jyothi R L	-	-	-	-	*3,585*
		Payment for IEEE membership fee Dr. C Gopakumar	-	-	-	-	*2,745*
		Payment for IEEE membership fee	-	-	-	-	*3,920*
	40	*BOG 10*	-	*17,456*	-	-	*28,497*
	41	*Payment for repairing charges of Air Conditioner*	*4,800*	-	-	-	-
	42	*Payment for 11 th Bog Meeting Dr.Ajilkumar A*	-	*11,164*	-	-	*19,918*
	43	*Payment for stationery- TEQIP II office*	-	-	*7,441*	-	-
	44	*Payment for consumables-*	-	-	-	-	*24,587*

		Electrical workshop					
	45	*Payment for stationery box file accreditation*	*-*	*-*	*4,993*	*-*	*-*
	46	*Payment for stationery display board accreditation ECE dept.*	*-*	*-*	*49,778*	*-*	*-*
	47	*Salary Anju Y U*	*-*	*-*	*-*	*-*	*2,11,829*
		Salary Dini	*-*	*-*	*-*	*-*	*2,00,475*
		Salary Rijo George	*-*	*-*	*-*	*-*	*3,77,000*
2017-2018	*1*	*Purchase of First Aid Kit*	*-*	*-*		*-*	*998*
	2	*Stationery – TEQIP II office*	*-*	*-*	*1,200*	*-*	
	3	*Purchase of Toner catridge – TEQIP Office*	*-*	*-*		*-*	*1600*
	4	*Post procurement Review Meeting – Sylish S V*	*-*	*-*		*-*	*23,271*
		Post procurement Review Meeting – Dr. Ajilkumar A	*-*	*-*			*23,271*
	5	*Purchase of Battery water*	*-*	*-*			
	6	*Purchase of wooden pieces*	*-*	*-*		*-*	
	7	*Salary Anju Y U*	*-*	*-*	*-*	*-*	*1,28,000*
	8	*Salary Dini*	*-*	*-*	*-*	*-*	*44,109*
	9	*Salary Rijo George*	*-*	*-*	*-*	*-*	*71,550*
Total			***26,34,06***	***8,71,751***	***3,52,711***	***0***	***44,73,289***

B.TechPass percentage					
Academic year	2012-13	2013-14	2014-15	2015-16	2016-17
S1 &S2(Transition Rate)	45.4	45.4	59.71	70.3	-
S3	47.9	41.47	26.76	39.72	-
S4	35.29	38.60	24.13	48.22	-
S5	56.66	58.62	46.03	38	-
S6	51.78	51.80	47.61	38	-
S7	53.39	53.39	56.49	72.48	52.55

B.Tech pass percentage	63.1	63.40	46.66	57.14	-

	No of BOG meetings conducted				
Academic year	2012-13	2013-14	2014-15	2015-16	2016-17
	-	*4*	*2*	*2*	*4*

Audit disallowance in Statutory audits					
Academic year	2012-13	2013-14	2014-15	2015-16	2016-17
Amount disallowed	Nil	Nil	Nil	Nil	Yet to get the report
Major Reasons cited					
Amount collected back					
Balance remaining					

Data on International Travel

Sl No	Name of Faculty	Purpose of Visit	Place of Visit	Dates of visit	Expenditure	Outcome of the visit
1	*Deepa A K*	**Attend** *IEEE International Conference On Signal Processing 2014*	*Hangzhou, China*	*19 Oct 2015 to 23 Oct 2015*	*1,67,999/-*	***Given below**
2	*C V Anilkumar*	**Attend** *International conference on IEEE Tencon-2015*	*Macaw, China*	*01 Nov 2015 to 04 Nov 2015*	*1,70,882*	****Given below**

***Outcomes of attending IEEE ICSP 2014 (As given by Ms.Deepa A K)**

I have attended the 12th IEEE international Conference on Signal Processing, organized by Beijing Jiatong University sponsored by IEEE Beijing Section atVanwarm Hotel,Hanghzhou, Chinafrom October 19-23 2014. I have presented a paper titled "Embedded Extended Visual Cryptography Scheme for Color Images using ABC Algorithm". Keynote address by renowned speakers,who are very actively working in emerging areas such as Deep learning, Big data, Social Mediaetc were very much informative. Nearly 500 papers in cutting edge technologies were presented in the conference by authors from various countries. ICSP brought together diversity of authors and speakers from many nations.The conference provided a platform for interacting with them and sharing ideas and new perspectives in both theoretical and practical aspects of signal processing. It benefited a lot for my research work and guiding projects of PG students. I could impart the rich knowledge and experience to the students and my colleagues. As whole, attending an international conference abroad enhanced my confidence level to a better height

****Outcome of participation in IEEE TENCON 2015 (As given by Mr.Anil Kumar C V)**

I could attend the international conference IEEE TENCON 2015 onganized by IEEE Asia Pacific region (R10) at Macu, China from 1st to 4th November 2015. The following are the outcome of that event.

1. Could present my research paper before a peer group of experts.
2. The discussions were highly useful for my research thereafter.
3. Planning for the international conference – ICCCSP 2016 was initiated in November-December period of 2015. Three experts attended IEEE TENCON 2015 agreed to deliver keynote speech in ICCCSP 2016. This was a very positive driving force behind the successful conduct of ICCSP 2016
4. The resources created at the institute using TEQIP-II were better utilizes for research activities.
5. My participation in TENCON motivated other faculty members and later, three more research papers (Remya-2, Raju–1) accepted in foreign conferences.

Data on Faculty in position (As on Feb 2017)

	At the commencement of the Project period				**At the end of the Project period**				**Requirement as per aicte**
Branch	**Prof**	**Associate Prof**	**Assistant Prof**	**Contract**	**Prof**	**Associate Prof**	**Assistant Prof**	**Contract**	
CS	-	2	7	5	-	2	7	6	16
EC	-	-	7	7	1	1	7	4	16
EE	-	-	2	2	-	-	3	6	10
IT	-	-	-	5	-	-	-	2	4
ME	-	1	2	2	-	1	4	-	5

Appl Sc	-	-	5	2	-	-	5	2	6
Total	**-**	**3**	**23**	**23**	**1**	**4**	**26**	**20**	**57**

Data on new courses started

Post Graduate Courses		
Sl No.	**Branch**	**Academic year of commencement**
	Nil	
Under Graduate courses		
	Nil	

Data on new Labs started

Post Graduate Courses		
Sl No.	**Name of the Lab and Branch**	**Academic year of commencement**
1	Image Processing Lab, CS Dept	2013
2	Signal Processing Lab, EC Dept	2013
Under Graduate courses		
	Nil	

Any other achievements of the institution

- First year transition rate has been increased to 70.3% from 41%
- Placement rate has been improved to 31% from 14%
- University Ranks:

In 2014 –II rank in B,Tech. (Information Technology)

II rank in M.Tech. CS (Image Processing)

I rank in M.Tech. EC (Signal Processing)

III rank in M.Tech. EC (Signal Processing)

In 2015 –I rank in M.Tech. CS (Image Processing)

II rank in M.Tech. EC (Signal Processing)

In 2016 –I rank in M.Tech. CS (Image Processing)

I rank in M.Tech. CS (Image Processing)

II rank in M.Tech. EC (Signal Processing)

- Accountability reforms taking place through Board of Governors and Research and Development takes pace through a Research Guidance Committee
- Conducted an International Conference during 8-9 July 2016: "International Conference on Computing Communication and Signal Processing" (ICCCSP-2016)

- Research and Development activities have been improved. Eight project proposals amounting to Rs.185.72 lakhs have been submitted to various funding agencies. The institution is geared to establish centres of excellence in Image Processing and Signal Processing
- Out of the eight proposals submitted, the proposal submitted by Smt Remya R S, Automated detection of Acute Lymphatic Leukaemia is accepted by KSCSTE for a grant of Rs 16.31 Lakhs
- MoU was signed with Regional Cancer Centre Thiruvananthapuram and a joint Research proposal titled "The Estimation of Malignancy Associated Changes (MAC) in sputum cells" for an amount of Rs. 33.36 lakhs, was submitted for funding.
- Interaction with Industry has been improved by signing MoUs, arranging industrial visits, internships, conducting industrial tutoring
- The number of International Journal publication has been increased to 41 from 6.
- Collaboration with IIT Madras under Quality Enhancement in Engineering Education (QEEE) programme of MHRD, Government of India