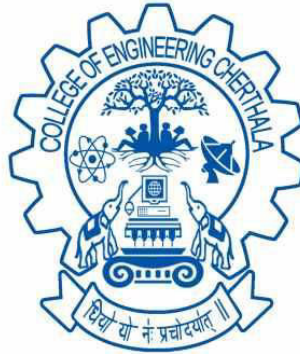


TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME Phase II

Sub Component 1.1



**6th MEETING OF
THE BOARD OF GOVERNORS
DETAILED AGENDA NOTES**

Date: 30-01-2015

Time: 10.30 AM

Venue: Seminar Hall

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

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Background

The meeting of Board of Governors is convened to monitor the progress of TEQIP-II activities at CE Cherthala, under Sub component 1.1, with emphasis to procurement and academic activities, and to accord necessary approvals and clearances for the ongoing activities. The 6th meeting of the BOG is being convened on 30th of January 2015.

AGENDA

Part 1-Procedural

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1.1	Confirming the Minutes of the 5 th Meeting of the Board of Governors held on 5-9-2014 at College of Engineering Cherthala, Alappuzha	6
1.2	Report on the action taken/action pending on the pertinent decisions in the Minutes of the 5 th Meeting of the Board of Governors held on 5-09-2014 at College of Engineering Cherthala	6

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Part 4-Other items

Part 5

Annexures

1	Minutes of the Vth BOG meeting dated 5.9.2014	
2	New Procurement Packages proposed to be included	
3	Terms of Reference for the High Intensity Training Programme on JAVA & ANDROID	
4	Faculty Position and Cadre Ratio	

5	Expenditure incurred under various heads	
6	Mentor's Report	
7	Performance Auditor's Report	
8	Self-Assessment Reports	
9	Initial Governance Development Plan	

PART 1

Procedural Items

1.1 Confirmation of the Minutes of the 5th Meeting of the Board of Governors of CE Cherthala held on 5-09-2014

The Minutes of the 5th Meeting of Board of Governors of TEQIP Phase II of CE Cherthala held on 5-9-2014 was sent to the Hon'ble Chairman for his approval. A copy of the Minutes is appended as **Annexure 1** for confirmation.

Action sought: BoG may consider the Minutes for approval.

1.2 Report on action taken/action pending on the pertinent decisions in the Minutes of the 5th Meeting of the Board of Governors of CE Cherthala held on 5-09-2014

The decisions taken by the Board as recorded in the Minutes of the 4th Meeting of the Board of Governors of CE Cherthala held on 25-2-2014 have been noted and actions have been initiated. A report on the action taken and actions pending is presented in the Table 1.2 given below

Sl no.	Decision Taken	Action Taken
1	After payment of the pending expenditure with the funds available with the institution, write to SPFU for further funds	Complied with. Payment sanctions for Rs 35 lakhs for completing outstanding payments were sent to the SPFU. SPFU released an amount of Rs 35 lakhs to CE Cherthala for this purpose.
2	Prepare a realistic plan for the TNA for the next quarter	A TNA plan for the next three months (February-April) has been prepared, with the following. <ol style="list-style-type: none"> 1. Four In House Faculty Development Programmes are planned 2. Eighteen Faculty are proposed to undergo outstation training programmes in the subject domain 3. Six Faculty are proposed to attend the Pedagogy training programme to be held at IIT Madras during February 23-25 and February 26-28, 2015 4. Four Technical Support staff are proposed to attend various training programmes in the subject domain at NITTR Chennai and NITTR Bhopal. Detailed TNA Plan is included in this report.
3	Include statistics regarding the number of students belonging	This has been included in the report on EAP activities.

	to various categories such as SC/ST, OBC and Female.	
4	Conduct Motivational training programmes for students of every year, especially the first year.	Motivational Classes have been conducted for the first year students. Details are included in this report.
5	College to associate with a hospital having ambulance service and In Patient and Out Patient facility by signing an MOU	CE Cherthala has signed an MOU with Sacred Heart Hospital, Mathilakam, Cherthala, for this purpose.
6	To follow proper procedure for the appointment of Data Entry Operator	Proper procedure has been followed as per instructions, by advertising in News Paper, College website and Notice Boards. Qualifications were as prescribed by the SPFU, i.e Diploma In Computer Science/Engineering/Commercial Practice. Practical Test and Interview were conducted for the selection.
7	Preparation of Master Plan for C E Cherthala to be initiated.	A Committee for the purpose has been constituted. The committee is preparing a draft report for the same.

Action sought: BoG may consider the ATR for approval.

PART 2

RATIFICATION & APPROVAL

2.1 Status of Procurement of Goods

The number of packages in the Procurement plan for procuring goods under TEQIP-II is Eighty Five . Sixty packages for procuring goods have been completed in all aspects. Purchase orders have been awarded for two goods packages, which have been delivered and successfully installed.

Table below, shows the completed procurement of goods till date.

Table 2.1

Completed Packages of Goods in Procurement Plan					
Sl. No.	Package Name	Package Code	FIRM	Budgeted Amount (Rs.)	Actual Amount (Rs.)
1	Bridges and potentiometer	TEQIP-II/KL/KL1G19/36	Elmatics Enterprises	124,200.00	110,155.00
2	Cables and Installation for multimedia projectors, interactive boards	TEQIP-II/KL/KL1G19/94	Binary Systems	24,995.00	24,995.00
3	CATIA and DELMIA	TEQIP-II/KL/KL1G19/47	EDS Technologies Pvt. Ltd	740,000.00	712,126.00
4	Computer Furniture	TEQIP-II/KL/KL1G19/24	Chair Zone	611447.00	611401.00
5	DSP boards	TEQIP-II/KL/KL1G19/28	Edgate Technologies	905,000.00	712,125.00
6	E TAP Software	TEQIP-II/KL/KL1G19/43	ETAP Automation Pvt. Ltd.	300,000.00	299,906.00
7	Electrical trainer kits	TEQIP-II/KL/KL1G19/37	Elmatics Enterprises	315,100.00	327,665.00
8	Electronics Text books	TEQIP-II/KL/KL1G19/56	current books india pvt ltd	702,261.00	532,801.00
9	Eleven Lab PCB Prototyping Machine	TEQIP-II/KL/KL1G19/45	ENTUPLE Technologies	990,000.00	990,000.00
10	EPABX	TEQIP-II/KL/KL1G19/9	ZERONE TECHNOLOGIES PRIVATE LTD	450,000.00	243,150.00
11	HFSS	TEQIP-II/KL/KL1G19/8	ENTUPLE Technologies	700,000.00	700,000.00

12	IC Testers and programmer	TEQIP-II/KL/KL1G19/19	Kitek Technologies Pvt.Ltd	499,200.00	343,650.00
13	IEEE ASPP e journal	TEQIP-II/KL/KL1G19/55	Global Information Systems Technology Pvt Ltd	370,500.00	376,200.00
14	LABVIEW	TEQIP-II/KL/KL1G19/39	Trident Techlabs Pvt Ltd	490,000.00	477,750.00
15	Library Reference Furniture	TEQIP-II/KL/KL1G19/96	ALAPPATT AGENCIES PVT LTD	823866.00	799138.00
16	Logic Analyzer	TEQIP-II/KL/KL1G19/18	Innovative Instruments Inc	982,000.00	766,500.00
17	MATLAB	TEQIP-II/KL/KL1G19/13	M/s. CoreEL Technologies (I) Pvt. Ltd.	990,000.00	988,345.00
18	Mentorgraphics modelsim	TEQIP-II/KL/KL1G19/16	CoreEL Technologies (I) Pvt. Ltd.	300,000.00	300,675.00
19	Mi Power software	TEQIP-II/KL/KL1G19/44	TRIDAX ENGINEERING SOFTWARES PVT. LTD.	650,000.00	590,000.00
20	Microwave test bench	TEQIP-II/KL/KL1G19/11	Scientific Enterprises	211,000.00	145,373.00
21	Multimedia Projectors and interactive boards	TEQIP-II/KL/KL1G19/91	Binary Systems	953,360.00	953,353.00
22	NI ELVIS II	TEQIP-II/KL/KL1G19/41	Trident Techlabs Pvt Ltd	565,000.00	564,900.00
23	Office furniture	TEQIP-II/KL/KL1G19/25	Godrej Boyce	997,571.00	997,522.00
24	Optical fibre trainer kits	TEQIP-II/KL/KL1G19/12	Benchmark electronic Systems pvt ltd	132000.00	126000.00
25	OrCad software	TEQIP-II/KL/KL1G19/46	FTD AUTOMATION PVT. LTD.	600,000.00	599,550.00
26	Oscilloscopes	TEQIP-II/KL/KL1G19/4	Innovative Instruments Inc.	933,500.00	932,505.00
27	Power electronics trainer kit	TEQIP-II/KL/KL1G19/38	Elmatics Enterprises	162,600.00	147,934.00
28	power quality analyzer	TEQIP-II/KL/KL1G19/93	CONVERGENT TECHNOLOGIES	422,000.00	422,000.00
29	power supplies	TEQIP-II/KL/KL1G19/2	Innovative Instruments Inc.	928,000.00	942,049.00

30	Printers and copiers	TEQIP-II/KL/KL1G19/14	RICOH INDIA LIMITED	922,000.00	716,625.00
31	rheostats	TEQIP-II/KL/KL1G19/33	Scientific enterprises	190,025.00	145,929.00
32	Science direct e journal	TEQIP-II/KL/KL1G19/76	International Book House Pvt. Ltd.	470,000.00	472,973.00
33	signal generators	TEQIP-II/KL/KL1G19/3	Innovative Instruments Inc.	473,000.00	440,580.00
34	Spectrum Analyzer	TEQIP-II/KL/KL1G19/17	Innovative Instruments Inc.	500,000.00	496,650.00
35	Springer -e Journal	TEQIP-II/KL/KL1G19/79	Global Information Systems Technology Pvt. Ltd	220,000.00	205,390.00
36	Tally accounting software	TEQIP-II/KL/KL1G19/78	Tally Solutions Pvt. Ltd	18,500.00	14,400.00
37	Trainer kits- microprocessors, microcontrollers, Digital IC.	TEQIP-II/KL/KL1G19/20	Kitek Technologies Pvt. Ltd	737,250.00	581,137.00
38	Transformer and load	TEQIP-II/KL/KL1G19/31	Scientific enterprises	279,260.00	209,264.00
39	Video conferencing equipment	TEQIP-II/KL/KL1G19/21	Zerone Technologies	470,000.00	552,985.00
40	Xilinx University VIVADO System Edition S - 25 user license	TEQIP-II/KL/KL1G19/15	CoreEL Technologies (I) Pvt. Ltd.	126,600.00	126,600.00
41	JET e-journal	TEQIP-II/KL/KL1G19/77	INFORMATICS (INDIA) LTD	73000.00	67416.00
42	Barcode printer and scanner	TEQIP-II/KL/KL1G19/29	Van League Automation Solutions pvt Ltd	44,900.00	47,985.00
43	Estinet network simulator	TEQIP-II/KL/KL1G19/51	Dell Soft Technologies	900000.00	577500.00
44	Hard disk	TEQIP-II/KL/KL1G19/62	Team Frontline Limited	40,000.00	28400.00
45	AC machines	TEQIP-II/KL/KL1G19/32	Elmatics Enterprises	921,000.00	733589.00

46	Air conditioner	TEQIP-II/KL/KL1G19/50	ABM COOLING SOLUTIONS INDIA PVT LTD	968000.00	998760.00
47	Class room furniture	TEQIP-II/KL/KL1G19/26	KERALA SIDCO	899580.00	940045.00
48	Diesel generator	TEQIP-II/KL/KL1G19/23	Southern Associates	750,000.00	665,727.00
49	Computer Text Books	TEQIP-II/KL/KL1G19/57	current books india pvt ltd	655,650.00	561,104.00
50	Computers	TEQIP-II/KL/KL1G19/5	Frontier Business Systems Pvt Ltd	10,088,000.00	9,915,486.00
51	Electrical Measuring Equipments	TEQIP-II/KL/KL1G19/35	Elmatics Enterprises	295,675.00	236,742.00
52	Electrical Text Books	TEQIP-II/KL/KL1G19/58	current books india pvt ltd	310,860.00	328,309.00
53	General Books	TEQIP-II/KL/KL1G19/74	current books india pvt ltd	57,350.00	57,123.00
54	Lab Furniture	TEQIP-II/KL/KL1G19/27	KERALA SIDCO	765,550.00	764,860.00
55	Mechanical Text Books	TEQIP-II/KL/KL1G19/60	current books india pvt ltd	117,200.00	104,451.00
56	Network Accessories	TEQIP-II/KL/KL1G19/10	Zerone Technologies	3,224,738.00	2,813,058.00
57	Servers	TEQIP-II/KL/KL1G19/49	Frontier Business Systems Pvt Ltd	2,286,000.00	2,090,010.00
58	Text Books Applied Science	TEQIP-II/KL/KL1G19/59	current books india pvt ltd	250,000.00	237,375.00
59	UPS	TEQIP-II/KL/KL1G19/6	NOVATEURE ELECTRICAL & DIGITAL SYSTEMS Pvt. Ltd.	2,000,000.00	1,783,000.00
60	Xilinx FPGA Boards	TEQIP-II/KL/KL1G19/81	CoreEL Technologies, Bangalore	458,000.00	452,173.00
Total					43,103,415.00

The following table indicates the packages for which payments are pending. The items in these packages have been delivered and installed at CE Cherthala.

Table 2.2

Pending Payments: Procurement of Goods					
Sl. No.	Package Name	Package Code	FIRM	Budgeted Amount (Rs.)	Actual Amount (Rs.)
1	Voice and Data cabling	TEQIP-II/KL/KL1G19/92	ISYX Technologies India Pvt. Ltd	945,000.00	975,064.00
2	Fire & Safety Equipment	TEQIP-II/KL/KL1G19/111	J&A Associate, Cochi	3,00,000.00	290,258.00
Total					12,65,322.00

The following packages were deleted as no quotations were received for these packages.

Table 2.3

Deleted Packages: Procurement of Goods					
Sl. No.	Package Name	Package Code	Method	Budgeted Amount (Rs.)	Reason for deletion
1	Workshop Tools Mechanical	TEQIP-II/KL/KL1G19/63	Shopping	187,445.00	Initiated. However valid quotations not received.
2	Machine Tools Mechanical	TEQIP-II/KL/KL1G19/61	Shopping	382,700.00	Initiated. However valid quotations not received.
Total				5,70,145.00	

The following package has been initiated.

Table 2.4

Initiated Package: Procurement of Goods					
Sl. No.	Package Name	Package Code	Method	Budgeted Amount (Rs.)	Status
1	Projector Screen and Metal Box for Housing cables	TEQIP-II/KL/KL1G19/105	Minor Item	50000.00	Quotation has been received.
Total				50000.00	

The following packages have to be initiated. They have not been initiated till date due to lack of sufficient funds.

Table 2.5

List of new packages to be Initiated in PMSS			
No.	Package	No. of Items	Approximate Price
1	Stabilizer (3 KVA) for A/c	24	75000
2	Phone	50	40000
3	Audio system smart class room + Auditorium	4+1	440000
4	E-book (Springer)		610000
5	LCD Monitor	1	130000
6	ID Card Printer	1	100000
7	Label Printer	1	5000
8	Lightning arrester for protection	for 3 buildings	800000
9	Vacuum Cleaner 1. Big 2. small	1+1	25000
10	Platform + Lectern	20	520000
11	N video card for CUDA	2	100000
12	Fire wall for the campus Network	1	400000
13	media converter	1	10000
14	Sensor network nodes	5	75000
15	Campus Automation software	1	500000
16	Electrical demonstrator & trainer module	8	134250
17	Cut sections of machine	3	80085
18	water purifier system	4	200000
19	Workshop tools	50	22600
20	Digital Multimeter	30	150000
21	ASTM Journal*	1	71170
22	Cabinet for keeping lab equipment	4	300000
22	Total Amount		4788105

* The package ASTM journal under direct contract, in the previous plan, was initiated and proceeded up to the generation of purchase order. However purchase could not be effected due to a significant change in the price for the package. As per AICTE norms, it is mandatory that the package is purchased. Therefore the package needs to be reinstated with the revised price.

Summary

Table 2.6

HEAD	Amount in Rupees
Budgeted Amount	5,00,00,000/-
Completed Payment	4,31,03,414/-
Initiated Packages	50,000/-
packages to be Initiated	47,88,105/-
Pending Payment	12,65,322/-
Balance Amount available for Procurement	7,93,159/-

Action Sought: The BOG may kindly take note of the completed packages in Table 2.1 and ratify expenditure. The BOG may also kindly note the packages for which payment is pending in Table 2.2 and ratify the deletion of packages in table 2.3.

2.2 Status of Various Civil Work Packages

The number of Civil Works packages in the Procurement Plan of CE Cherthala is Nine. Six packages for Civil Works have been completed in all aspects. The other three civil works packages have been initiated.

The Table below indicates the completed civil works packages.

Table 2.7

Completed Civil Works Packages					
Sl.No	Package Name	Package Code	Name of Contractor	Contract Value	Actual Amount
1	Electrification works	TEQIP-II/KL/KL1G19 /88	M/s M.C.Mathew	13,74,033.00	13,74,033.00
2	Extension of building to house diesel generator	TEQIP-II/KL/KL1G19 /89	M/s R Suresh Kumar	1,84,207.00	1,54,035.00
3	Extension of existing building to provide GD and interview rooms	TEQIP-II/KL/KL1G19 /90	M/s R Suresh Kumar	7,42,079.00	6,85,458.00
4	Extension of the electrical machines lab	TEQIP-II/KL/KL1G19 /86	M/s R Suresh Kumar	12,49,641.00	12,34,102.00
5	Extension of the mechanical workshop	TEQIP-II/KL/KL1G19 /85	M/s R Suresh Kumar	12,49,641.00	12,18,829.00
6	Refurbishment of seminar hall	TEQIP-II/KL/KL1G19 /87	M/s R Suresh Kumar	2,00,374.0	1,86,057.00
Total Amount					48,52,514.00

The following Civil Works Packages have been initiated on PMSS.

Table 2.8

Initiated Civil Works Packages					
Sl.No	Package Name	Package Code	Method	Contract Value	Actual Amount
1	MS Grill for Windows	TEQIP-II/KL/KL1G19/98	Minor item	49,999.00	N.A
2	Stair Case and Hand Railing	TEQIP-II/KL/KL1G19/99	Minor item	41,000.00	N.A
3	Roofing	TEQIP-II/KL/KL1G19/100	Minor item	19,500.00	N.A
Completed Amount till Date:				1,10,499.00	

Summary

Table 2.9

HEAD	Amount in Rupees
Budgeted Amount	50,00,000/-
Completed Payment	48,52,514/-
Initiated Packages	50,000/-
Balance Amount available for Civil Works	36,987.00/-

Action Sought: The BOG may kindly approve expenditure for the completed civil works packages in Table 2.9. The BOG may also kindly note the civil works packages that have been initiated.

2.3 Proposed new packages in the Procurement Plan

It is proposed to initiate new packages in the Procurement Plan of CE Cherthala, for the additional funds that are available. The PMSS is under maintenance currently and the permission to add new packages is only given intermittently. The list of the new packages proposed is included in **Annexure II**. If the new packages are approved, the packages will be added in the Procurement Plan as and when it is permitted in PMSS.

Action Sought: The list of new Procurement Packages in **Annexure II** maybe approved.

2.4 Academic programmes conducted

2.4.1 In-House Programmes

The following table summarizes the in house training programs conducted at C E Cherthala since the 5th BOG meeting on 05/09/2014

Table 2.10

Faculty Development Programme – In-house

Sl. No.	Title of the Programme	Department & course No.	Duration & date	No. of participants			Co-ordinator	IRG(Rs.)	Expenditure (Rs.)
				Own Institute	Other Institutes (IRG)	Total			
1.	Stress Management	AS-01	18/11/2014 1 day	93	0	93	Sarakutty K.J	0	18,625
2.	Relevance of Vedic Mathematics in Engineering	ME-01	04/12/14-05/12/14 2 days	45	0	45	Anupama A.	0	35,310
3.	Research Trends in Semiconductor Device Modeling & Fabrication	EC-09	08/12/14-12/12/14 5 days	23	34	57	Dr. Jobymol Jacob	34,000	1,64,321

Report on the Programs

A one day talk on “Stress Management” has been conducted for the entire faculty and staff of the college on 18/11/2014. The program was coordinated by Prof. Sarakutty K.J. and the expert was the renowned Psychologist Mr. Anoop Kumar. He discussed various ways to overcome stress. A total of 93 people participated in the program and the expense was Rs.18, 625/-

A two day workshop on “Relevance of Vedic Mathematics in Engineering” was coordinated by Anupama A., AP in EC and Faisal , AP, Mechanical Engineering on 4th & 5th of December 2014. The workshop was about the application of Vedic mathematics in arithmetic computations. The course targeted on the application of 16 Sutras in Vedic Mathematics for fast computation. A total of 45 faculty participated in the program and the expense was Rs.35, 310/-. The feedback from the participants was very positive.

A 5 day Faculty Development Program on “Research Trends in Semiconductor Device Modeling & Fabrication” was conducted by the Department of Electronics Engineering from 8th -12th December 2014. The Faculty Development Program (FDP) on Research Trends in Semiconductor Device Modeling and Fabrication was aimed to introduce the fundamental concepts behind semiconductor device modeling and fabrication technology and to make aware the participants the research challenges in this area. The FDP was coordinated by Dr. Jobymol Jacob. The 5 day FDP on was inaugurated by Prof. Amitava Dasgupta, Professor in Electrical Engineering, IIT Madras who delivered the keynote talk on ‘Introduction to Semiconductor Device Modeling’. The other sessions were handled by eminent experts from IITs and NITs. A total of 57 participants attended the program out of which 34 were external. A sum of Rs. 34,000/- was collected as the internal revenue. The total expenses for the program was Rs. 1,64,321/-.

2.4.2 Out-Station Programmes

The following below summarizes the outstation training programs attended by the faculty since the 5th BOG on 05/09/2014

Table 2.11

Faculty Development Programme – Outstation

Sl. No.	Name	Designation	Department & course No.	Host Institute	Programme Title	Duration & Date	Expenditure (Rs.)
1.	Pradeep M.	Asso. Professor	EC-17	IIT Kanpur	“Wireless Convex Optimization”	3 Days, 15/09/2014-17/09/2014	25,000
2.	Muhammed Ilyas H.	AP	CS-11	COE Kidangoor	“Moodle Fundamentals”	2 days 27-28 Nov. 2014	2815
3.	Pramod Mathew Jacob	AP	CS-12	COE Kidangoor	“Moodle Fundamentals”	2 days 27-28 Nov. 2014	2815
4.	Joymon Emmanuel	AP	EE-05	NIT Calicut	“Solar Power Plants for Residential , Commercial Utility & off-grid Applications”	2 Days 17-18 Dec. 2014	2000
5.	Meera E.	AP	EE-06	Mar Athanasius College of Engineering, Kothamangalam	POWER ELECTRONICS, DRIVES AND CONTROL	5 days 7-13 Jan. 2015	1000

Report on the Programs

- Pradeep M., Associate Professor in EC attended a training program on “Wireless Convex Optimization” at IIT Kanpur from 15/09/2014-17/09/2014. Eminent professors from IIT

Kanpur and other premier institutions handled the sessions. The classes were all very informative as per the feedback from Prof. Pradeep M.

- Muhammed Illyas H., AP in CS and Pramod Mathew Jacob, AP in CS attended the two day workshop on “ Moodle Fundamentals” at COE Kidangoor from 27-28 Nov. 2014. The sessions were on the usage of MOODLE software for –content development.
- Joymon Emmanuel, AP in EEE attended a national seminar on “Solar Power Plants for Residential, Commercial Utility & off-grid Applications” at NIT Calicut from 17-18 Dec. 2014. This national seminar threw light upon various challenges involved in setting up solar photovoltaic power plants. The seminar was very useful to get an insight into the working of PV systems from a theoretical as well as practical point of view as per the opinion of the participant.
- Meera E., AP in EEE attended a 5 day program on “Power Electronics, Drives and Control” from 7-13 Jan 2015 at Mar Athanasius College of Engineering, Kothamangalam. This training program emphasized on the basic concepts of power electronics, various type of converters and modulation technologies as well as implementation of controller for power electronic circuits using various real time interface tools. Through the program, the various power electronics concepts were made strong. The program also gave the participant a chance to familiarize with dSPACE and FPGA.

2.4.3 Planned In-house Faculty Development Programs

Four In House FDP programmes are planned for Feb-April 2015 as per the following table.

Table 2.12

Sl. No.	Title of the Programme	Dept:	Duration & date	No. of participants			Coordinator	Expected Expenditure (Rs.)
				Own Institute	Other Institutes (IRG)	Total		
1.	Open Source Software Tools	CS	4 days April 2015	35	5	40	Illyas H.	1 lakh

2.	Advanced Signal Processing	EC	4 days March 2015	30	10	40	Jayadas C.K.	1 lakh
3.	Energy Conservation & Management	EE	3 days Februar y 2015	15	25	40	Elizwa Laiju	1 lakh
4.	Discrete mathematics and linear algebra	AS	5 days April 2015	35	5	40	Sarakutty K.J.	1.2 lakh

2.4.4 Planned Outstation Faculty Development Programs as per TNA

It is proposed that eighteen faculty members will attend training programmes in the subject domain at various IITS and NITTRs. The list is shown in the following table.

Table 2.13

Sl. No.	Name	Designation	Department	Host Institute	Programme Title	Duration & Date	Expenditure (Rs.)
1	Janu R.	AP	CS	NITTR Chandigarh	TCP/IP network	23/02/2015 - 27/02/2015	20000
2	Greeshma. N. Gopal	AP	CS	IIT Madras	Advanced Teaching & Learning Process	26-28 Feb. 2015	5000
3	Manilal D.L.	Associate Professor	CS	NITTR Chandigarh	TCP/IP network	23/02/2015 - 27/02/2015	20000
4	Sony P.	AP	CS	NITTR Chennai	Educational Video Film Making Workshop	16-20 Feb. 2015	15000
5	Illyas H.	AP	CS	NITTR Chandigarh	TCP/IP network	23/02/2015 - 27/02/2015	20000

6	Sony P.	AP	CS	ESCI Hyderabad	Advance Excel with Macros & VB Script 26 – 27 Feb 2	26/02/2015 - 27/02/2015	30000
7	Dr. Ashok Kumar T	Associate Professor	EC	IIT Guwahati	RF & Photonics- Fundamentals & Advances	23-27 Feb. 2015	30000
8	Dr. Vinu Thomas	Associate Professor	EC	IIT Guwahati	Recent trends in Electronics & Computation	09-11 March 2015	20000
9	Jayadas C.K.	Associate Professor	EC	IIT Kharagpur	Short term course on “Design & Analysis of Efficient systems for Microwave Transmission & Radiation”	<i>February</i> 23-28, 2015 <i>6 Days</i>	30000
10	Sreekumar K.	AP	EC	IIT Kharagpur	Short term course on “Design & Analysis of Efficient systems for Microwave Transmission & Radiation”	<i>February</i> 23-28, 2015 <i>6 Days</i>	30000
11	Irshad Ali T.K.	AP	EC	IIT Guwahati	Advances in Biomedical engineering	Feb.25- March 1, 2015	30000
12	Anupama A.	AP	EC	IIT Kharagpur	Short term course on “Design & Analysis of Efficient systems for Microwave Transmission & Radiation”	6 days February 23-28, 2015	30000

13	Dr. Jobymol Jacob	AP	EC	IIT Madras	Advance Teaching & Learning Process	23-26 Feb. 2015	5000
				NITTR Chandigarh	FPGA based Digital System Design	27/04/2015 - 02/05/2015	30000
14	Elizwa Laiju	AP	EE	IIT Guwahati	Solar Energy Harvesting	20-21 Feb. 2015	20000
15	Devanand C. N.	AP	ME	IIT Kharagpur	Short term course on Industrial Safety Engineering	16-18 Feb. 2015	30000
				IIT Madras	Advance Teaching & Learning Process	23-25 Feb. 2015	5000
16	Sandhya P. Gopal	AP	ME	IIT Kharagpur	Short term course on Industrial Safety Engineering	16-18 Feb. 2015	30000
17	Sarakutty K J	Associate Professor	AS	IIT Guwahati	Mathematics for Engineering Education	16-20 Feb., 2015	30000
				IIT Madras	Advanced Teaching & Learning Process	26-28 Feb., 2015	5000
18	Radha Balakrishnan	AP	AS	IIT Guwahati	Mathematics for Engineering Education	16-20 Feb., 2015	30000

2.4.5 Planned Outstation Training programmes for Technical Support Staff.

It is proposed that four members of the Technical Support Staff attend training programmes in the subject domain at various NITTRs.

Table 2.14

Sl. No.	Name	Designation	Department & course No.	Host Institute	Programme Title	Duration & Date	Expenditure (Rs.)
1	Suresh T.K.	Technician	CS	NITTTR Chennai	Robotics and Mechatronics for Industrial Automation	2-6 March	10000
2	Madhusoodhana Kurup	Technician	CS	NITTTR Chennai	Educational Video Film Making Workshop	16-20 Feb. 2015	10000
3	Lekshmi V R	Technician	EC	NITTTR Chennai	Embedded Systems	16-20 Feb. 2015	10000
4	George C. Karammel	Technician	EC	NITTR Bhopal	SCILAB for Electronic Circuits	23-27 Mar 2015	10000

2.4.6 Programmes under the Equity Action Plan (EAP) Component

Motivational and Personality Development programmes were conducted for the first year and second year students under the aegis of the EAP Cell. Remedial classes were conducted for the second year students as well as for students who were appearing for supplementary examinations in various subjects. It was observed that many of the current first year students are lacking in mathematical concepts which should have been acquired prior to their joining Undergraduate Programmes in Engineering. The same was also observed for Computer Programming concepts, as many of the students had not opted for Computer Science in their plus two programme at school. These students were identified by their respective faculty advisors in consultation with other faculty. Bridge courses in Mathematics and Computer Programming were conducted for these students. Remedial Lab sessions in Electronics were also arranged for the weaker students in the second year. In addition, the women's cell conducted a programme for the first year girl students on stress management. The details of these programmes are indicated in the following tables.

Table 2.15**Training in Soft Skills, subject areas, Motivation & counseling sessions that were conducted**

Sl. No	Title of the Programme	Semester & batch	Duration & date	No. of participants	Co-ordinator	Expenditure (Rs.)
1.	Motivation & counselling	First year(4 batches)	4 days 16,20,23, 27/10/14	48+50+55+46= 199 <i>Female-99</i> <i>SC/ST-11</i> <i>OBC- 132</i>	Sarakutty K.J.	20116
2.	Personality development	S4	1 Day 24/12/14	32 <i>Female-25</i> <i>SC/ST- 0</i> <i>OBC- 20</i>	Sreekumar K	4924

Total expenditure = Rs 25040/-

Table 2.16**Remedial classes and Bridge courses conducted****i) Remedial class for 3rd semester regular students****ii)**

No	Subject	Faculty	No.of participants	No.of hrs	Expenditure	Date
1	EC B/1301.Engg.maths	Prof. Surendranatha Panicker	40 <i>Female-27</i> <i>SC/ST- 3,</i> <i>OBC-21</i>	20	12000	11,12,18,19, 22/10/14
2	CS/1301.Engg.maths	Prof. Surendranatha Panicker	49 <i>Female-25</i> <i>SC/ST- 3</i> <i>OBC- 24</i>	20	12000	8,9,15,16, 17/11/14
3	EC A/1301.Engg. maths	Dr.Remadevi S	47 <i>Female-28</i> <i>SC/ST- 0</i> <i>OBC- 21</i>	12	7200	9,23, 30/08/14
4	EE/EDC	Dr.Jobymol Jacob	33 <i>Female-15</i> <i>SC/ST- 2</i> <i>OBC- 12</i>	4	2400	10/11/14
5	CS/Logic Design	Jayadas C.K.	28 <i>Female-10</i> <i>SC/ST- 0</i> <i>OBC- 12</i>	4	2400	14/11/14
6	EC/PRP	Jayadas C.K.	35 <i>Female-11</i> <i>SC/ST-0</i> <i>OBC- 3</i>	8	4800	13, 15/11/14
7	EE/EDC	Elizwa Laiju	17 <i>Female-0</i> <i>SC/ST- 1</i> <i>OBC- 10</i>	10	6000	18,19, 21/11/14
8	EE/CSSI	Elizwa Laiju	17	13	7800	13,14,17,

			<i>Female-0</i> <i>SC/ST- 1</i> <i>OBC- 10</i>			20/11/14
9	EE/EMM I	Veena Mathew	17 <i>Female-0</i> <i>SC/ST- 1</i> <i>OBC- 10</i>	10	6000	15,18, 20/11/14
10	EE/Engg.Materials	Meera E	17 <i>Female-0</i> <i>SC/ST- 1</i> <i>OBC- 10</i>	9	5400	14,17, 21/11/14
11	CS/EDC	Nidhin K	18 <i>Female-4</i> <i>SC/ST- 0</i> <i>OBC- 9</i>	14	8400	10,11,12, 13/11/14

Total expenditure = 74400/-

ii) Remedial class for 4th semester (special supplementary) subjects conducted

No.	Subject	Faculty	No.of participants	No.of hrs	Expenditure	Date
1	CS / ALC	Aswathy V Shaji	16 <i>Female-3</i> <i>SC/ST- 0</i> <i>OBC- 7</i>	11	6600	20,21/09/14,0 2,03/11/14
2	Engg.mathsIII	Sarakutty K.J	26 <i>Female-13</i> <i>SC/ST- 5</i> <i>OBC- 14</i>	8	4800	27,28/09/14
3	EC / DSD	Dr.Manoj V.J.	48 <i>Female-26</i> <i>SC/ST- 4</i> <i>OBC- 17</i>	28	16800	27,28/09,22, 25/10,2,3,4, 11/11/14

EXPENSES:

Remuneration = 28200

Tea and snacks = 3270

Total expenditure =31470

iii) Remedial class for 6th semester (special supplementary) subjects conducted

	Subject	Faculty	No.of participants	No.of hrs	Expenditure	Date
1	CS / DSP	Abdul Kareem	11 <i>Female-5</i> <i>SC/ST- 1</i> <i>OBC- 5</i>	12	7200	6,7,13/12/14
2	Embedded system	Teffi Francis	6 <i>Female-4</i> <i>SC/ST- 1</i> <i>OBC- 4</i>	3	1800	02/01/15

Total expenditure =9000

iv) Remedial lab for 3rd semester EC students conducted

	Subject	Faculty & staff	No.of participants	No.of hrs	Expenditure	Date
1	Basic Electronics lab	Vishnu Pradeep &Lekshmi V.R.	20 <i>Female-5</i> <i>SC/ST- 0</i> <i>OBC- 15</i>	6	5100	06,08/12/14
2	Digital Electronics lab	Ashitha T.S. & Jithin T	20 <i>Female-20</i> <i>SC/ST- 0</i> <i>OBC- 12</i>	6	5100	06,08/12/14

Total expenditure =10200

Table 2.17

Bridge course for first year students conducted

No.	Subject	Faculty	No.of participants	No.of hrs	Expenditure	Date
1	Computer programming	Mohammed Illyas, Pramod Jacob	40 <i>Female-41</i> <i>SC/ST- 3</i> <i>OBC- 31</i>	14	8400	14,15/11/14
2	Mathematics	Prof. Surendranatha Panicker, Sarakutty K.J.	80 <i>Female-59</i> <i>SC/ST- 5</i> <i>OBC- 48</i>	28	18400	22,23,29, 30/11/14, 14/12/14

Total expenditure =26800

Table 2.18

Women Cell Programmes conducted

Sl. No	Title of the Programme	Semester & batch	Duration & date	No. of participants	Coordinator	Expenditure (Rs.)
1.	personality development and stress management	First year girls	1 Day 27/09/14	55 <i>Female-55</i> <i>SC/ST- 3</i> <i>OBC- 34</i>	Sarakutty K.J.	11759

Total expenditure = 11759/-

GRAND TOTAL = Rs.188669/-

2.4.6.1 Action plan for next 3 months

The tables below indicate the action plan under the EAP Component for training in soft skills and subject domains, Motivation and Counselling sessions, Remedial classes and Bridge Courses and Women's Cell activities.

Table 2.19

Training in Soft Skills, subject areas, Motivation & counseling sessions

Sl. No.	Training Programme	No. of days	Tentative Dates	Expected Expenditure
Final Year Students (VIII Semester)				
1	Technical skill training	5 days	Feb.15	100000
2	Soft skill training	3 days	Mar. 2015	50,000
3	Technical Writing	2 Days	June.2015	40,000
Pre-Final Year Students (VI Semester)				
3	Microcontroller Programming	3 days	Jan.2015	50,000
4	Workshop on Time Management	2 Days	Feb. 2015	40,000
5	Training on web based application development tools	3 days	April 2015	50,000
IV Semester Students				
2	Advancements in Electrical Measurements	2 days	Feb.15	30000
3	Workshop on Time Management	2 Days	Mar.. 2015	40,000
4	Workshop on Communication Skills	2 Days	feb.2015	40,000
First Year Students				
1	Workshop on Time Management	1 Day	FEB..2015	20,000
2	Training Programme to improve Communication Skills	1Day	MAR. 2015	20,000

Table 2.20

Remedial classes and Bridge courses

Sl.no.	Semester	No.of hours	Tentative dates	Expected expenditure
Dec.14-june15				
1	First year	150	Jan-may2015	90000
2	4 th sem.	250	Jan-april.2015	150000

3	6 th sem.	150	Jan-march.2015	90000
4	8 th sem.	100	Jan-march.2015	60000

Table 2.21**Women Cell Programmes**

1.	Unhealthy Health Habits	1 Day	Feb.2015	15,000
2	Women in Technology	1 Day	Mar.2015	15,000

2.4.7 High Intensity Training Programme on JAVA and ANDROID

TEQIP-II envisages a High Intensity Training Programme (HIT) for the benefit of graduates who have successfully completed the training so that they may be recruited by industries. The HIT programme is also open to students of other colleges. No fee is to be collected from the students for this purpose.

It is understood on discussions with experts from industry that there will be requirement of Engineering Graduates who are skilled in JAVA and ANDROID Programming for the next few years. In these circumstances, the EAP cell of CE Cherthala has proposed a High Intensity Training programme on JAVA and ANDROID, which has been initiated as a service on the Procurement Management Support System (PMSS). The Terms of Reference of the said proposal has been sent to the SPFU for approval and is attached as **Annexure III**.

2.4.8 Programmes under the Industry Institute Interaction Cell (IIIC)

The following programmes are planned for February-April 2015 under IIIC as per the table that follows.

Table 2.22

No.	Event	Hosting Dept.			Details of Talk			Resource Persons from	Estimated Expenses (Rs)
		Name	Targetted Group	Expected No. of Participants	Title of the Training	No. of Days	Month of Conduction		
1	Training Program	Electronics Engineering	2year EC	100	Embedded Systems and Applications	10	February -March	KITES, Cochin	75000

2	Workshop	Computer Engineering	2year CS	90	PHP for OO/Procedural Programmers	2	February-March	CTS, Cochin/WALCO Solutions, Cochin	20000
3	Expert Talk	Electrical Engineering	2nd and 3rd Year EE	110	SCADA	1	March	KSEB	10000
4	Workshop	Electronics Engineering	B.Tech EC	100	ANSYS Simulation Tools:HFSS and Designer RF.	3	March-April	Entuple Technologies, Bangalore	55000
								Total	160000

2.4.9 Report on Planned Activities under Research & Development (R&D)

Eight Proposals have been received from faculty of CE Cherthala requesting Seed Money for taking up research projects. The Proposals received are listed in the following table. The Interaction of the concerned faculty with the Senior Research Advisor Dr E Gopinathan and other members of the Research Guidance Council is scheduled for 9.2.2015.

Table 2.23

SL NO:	Title of the Project	Principal Investigator
1	Secure and private data storing and searching in cloud.	Greeshma N Gopal Assistant Professor
2	A new programming language in regional language & its compiler	Muhammed Ilyas H Assistant Professor
3	Automated Glaucoma Detection	Jayadas C.K Associate Professor
4	Early detection & prevention of disease by clustering co-related diseases	Sony. P Assisatnt Professor
5	'Effect of process on Friction stir welding of Aluminium	Sreenivas .P Assistant Professor
6	Online monitoring of River water parameters	Jayadas C.K Associate Professor
7	Advanced Session Password Authentication Using Sounds for Blind Users	Muhammed Ilyas H Assistant Professor

8	Microstrip Resonator	Sreekumar K Assistant Professor
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2.4.10 Report on Finishing School

The Placement Cell has been conducting regular training programmes on soft skill development and technical training for the final year students as part of the Finishing School activities. The list of students who have been placed this year is attached. In addition, QWAVE India, a subsidiary of QWAVE Inc., based out of Saratoga, California, is due to visit the campus in the near future for the E&C branch.

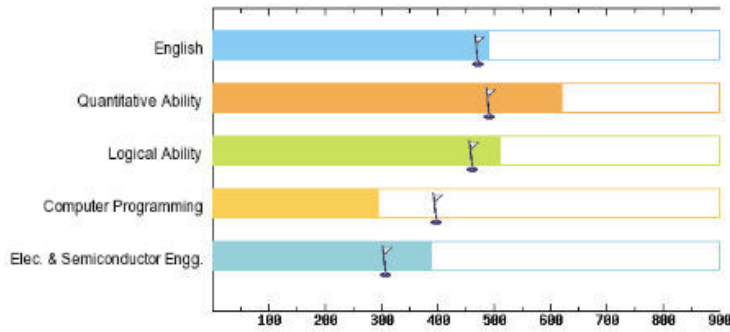
Table 2.24

No	Firm	Name of recruited Student	Branch
1	CTS	Arya K Jayachandran	Computer Science & Engineering
2		Ebin Xavier	Computer Science & Engineering
3		Sreejith Karthikeyan	Computer Science & Engineering
4		Visakh P	Computer Science & Engineering
5		Biyatrice Neethu	Computer Science & Engineering
6		Cinta Varghese	Computer Science & Engineering
7		Lalat Mol Koshy	Computer Science & Engineering
8		Sreelakshmi K	Computer Science & Engineering
9		Rohith Krishnan	Electronics & Communication Engineering
10		Ciju Varghese	Electronics & Communication Engineering
11		Devadas Domini	Electronics & Communication Engineering
12		Gishnu Thampan	Electronics & Communication Engineering
13		Joyal Joseph	Electronics & Communication Engineering
14		Nijil M	Electronics & Communication Engineering
15		Sreemesh Baliga	Electronics & Communication Engineering
16		Ajefana V N	Electronics & Communication Engineering
17		Ansaba Jaleel	Electronics & Communication Engineering
18		Aswathy Prasad	Electronics & Communication Engineering
19		Hameema Akther	Electronics & Communication Engineering

20		Reshma P R	Electronics & Communication Engineering
21		Shuhaira K A	Electronics & Communication Engineering
22		Sreedevi M	Electronics & Communication Engineering
23		Vinny George	Electronics & Communication Engineering
24		Rubeena Azeez	Electronics & Communication Engineering
25		Gayathri S	Computer Science & Engineering
26		Neethu J	Computer Science & Engineering
27		Rajeswary R	Computer Science & Engineering
28		Roshni K R	Computer Science & Engineering
29		Chinchu Thomas	Electronics & Communication Engineering
30		Febin P Alex	Electronics & Communication Engineering
31		Sreelakshmi R	Electronics & Communication Engineering
32	RETAIL-ON	Arya K Jayachandran	Computer Science & Engineering
33	IBS	Ansaba Jaleel	Electronics & communication Engineering
34	MPHASIS	Unnikuttan M	Computer Science & Engineering
35		Rizal Muhammed	Computer Science & Engineering
36		Sreejith Karthikeyan	Computer Science & Engineering
37		Sreeraj N S	Computer Science & Engineering

2.4.11 Report on Employment Eligibility Test

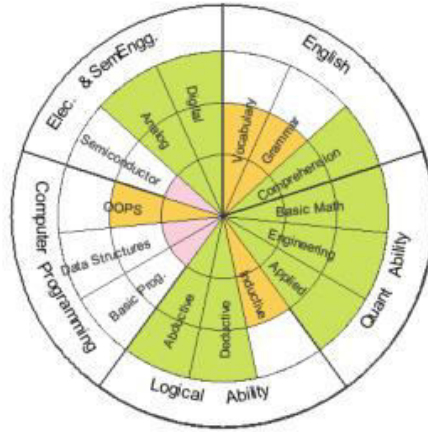
The PRE-EMPLOYMENT SKILL ASSESSMENT PROGRAM was conducted by Aspiring minds on 25/10/2014 for Students of final year batch, as decided by the 5th BOG meeting. 106 students participated in this program. Capability of students in various sections was thoroughly analyzed and reports were generated based on this. The score card contains score on various modules, national percentile and college percentile, tips and suggestions to improve the score etc. The personality of the student was also analyzed which is very important at the time of interview. Individual reports have been communicated to the students. Shown in the following pages are some screen shots from the report of AMCAT.



- AMCAT an intelligent adaptive test. Your AMCAT score is not equal to the number of questions answered correctly. The score is calculated by an advanced statistical engine, which takes into consideration questions difficulty, discrimination, guess probability and several other factors.
- The bar is a representation of your performance in the module. The tick in each bar represents the 50 percentile score of all candidates of your category.
- Score of one module should not be compared with the score of another, but should be compared against the 50 percentile point of that module.
- Your score is on a scale of 100 to 900 with 100 being the minimum and 900 maximum

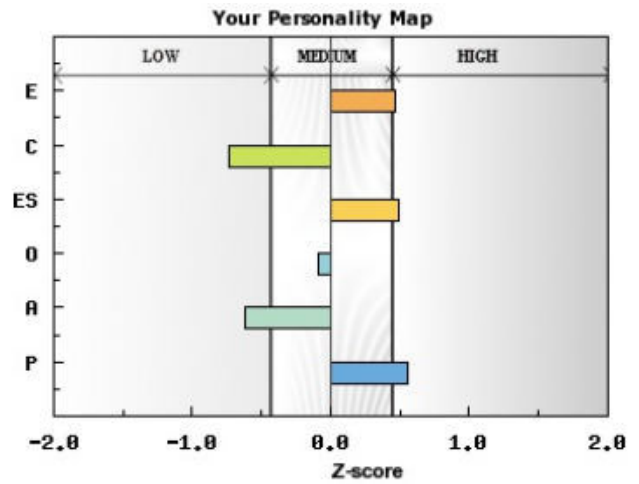
Job Profile	Your chance of selection for these job profiles.	Job profile criteria and areas to work on for improving your chances
Engineering/IT Jobs		
Design Engineer (Electronics & Semiconductor Engineering)	Medium	These companies look for good aptitude skills i.e. good scores in English, Logical and Quant section along with high scores in the domain of your engineering. You have to work hard in Electronics & Semiconductor Engineering.
Software Engineer- IT Services	High	These companies are basically looking for good English and Logical skills with average Quantitative ability.
Software Engineer- IT Product	Low	These companies are basically looking for good English, Programming and Logical skills with average Quantitative ability. You have to work hard in Computer Programming.
Technical Operations		
Associate- ITES/BPO	High	These companies look for candidates proficient in English with average Logical and Quantitative abilities.
Associate- ITES Operations (Hardware and Networking)	High	These companies are basically looking for candidates with good English and average Logical abilities.

Module	Number of Questions Attempted	Score	Grade	National Percentile	College Percentile
English	25	490	B	56%	52.2%
Quantitative Ability	25	620	A	86.1%	91.4%
Logical Ability	24	510	A	67.2%	65.3%
Computer Programming	25	295	C	18.3%	10%
Electronics & Semiconductor Engineering	25	388	A	79.7%	53.3%
Automata (Campus) - C	-	N.A.		Programming Ability Score: N.A. Programming Practices Score: N.A.	



Performance Chakra: You have done really well in sub-modules marked in green, average in those in yellow and poorly in those in pink. If a section is without a color, it means you did not answer enough questions in the subsection to get an evaluation in it.

Trait	Region	Percentile	Z-score
Extraversion	High	68%	0.47
Conscientiousness	Low	23%	-0.73
Emotional Stability	High	69%	0.49
Openness to Experience	Medium	46%	-0.09
Agreeableness	Low	27%	-0.62
Polychronicity	High	71%	0.55



Overall Performance of the students.

Aspiring minds also has provided a summary of the overall performance of the students who attended AMCAT, which is reproduced below.

Table 2.25

	English(Percentile)	Quantitative Ability (Percentile)	Logical Ability (Percentile)	Computer Programming (Percentile)	Computer Science(Percentile)	Electronics & Semiconductor Engineering(Percentile)
No. of Students with Percentile More than 75	29	23	24	21	13	31
No. of Students with Percentile More than 60	46	33	50	29	16	39

The Expenditure incurred for the conduction of the AMCAT test is Rs 84,800 /-.

Actions Sought

The BOG may kindly take note of the academic activities held at the college and the expenditure incurred. The Action plans for various Academic activities may kindly be approved.

2.5 Status of IRG Accounts

As of date, an amount of Rs.1163343/- has been deposited in the four Corpus Accounts for TEQIP-II of CE Cherthala. The split up is as below:

Corpus Fund	4,33,916/-
Maintenance Fund	2,43,143/-
Equipment Replacement Fund	2,43,142/-
Faculty Development Fund	2,43,142/-

Action Sought: The BOG may kindly note.

2.6 Report on Faculty Position

The list of permanent faculty members and contract faculty members of the College is attached as **Annexure IV**. At present there are 54 faculty members working in various Departments.

Action Sought: The BOG may kindly note the faculty position and faculty cadre ratio.

2.7 Report on Expenditure incurred under various heads

The summary of expenditure incurred under various heads is shown in **Annexure V**

Action Sought: The BOG may kindly note.

2.8 Appointment of new personnel to the post of Data Entry Operator

Following the resignation of Smt Joyal Michael, application was called for to the post of Data Entry Operator for TEQIP cell at C.E.Cherthala. This was publicized in leading dailies, along with information relating to the qualifications required. Eight applications were received, out of which three applicants had the necessary qualifications. Data Entry Test and Interview was conducted to select the personnel. Smt Remyamol V S, who topped the selection process, was appointed to the post.

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

PART 3

DISCUSSIONS

3.1 Report on visit of Mentor

The Hon'ble Mentor of C.E.Cherthala, Dr. P Pratapachandran Nair, visited the campus on 12.8.2014 and 13.8.2014 for the third round of mentoring. He interacted with the TEQIP Coordinators, faculty, technical and office staff and UG and PG students. The next round of mentoring is scheduled for the first week of February 2015. The report of the mentor is attached as **Annexure VI**.

Action Sought: The BOG may kindly discuss the Mentor's report.

3.2 Report on the visit of the Performance Auditor

The Performance Auditor of C.E Cherthala, Dr. S K Dhameja, Dean, NITTR, Chandigarh, visited the campus during December 12-14, 2014. The Hon'ble Performance Auditor was to have visited the campus in the month of November 2014. However his visit got delayed due to his international commitments. Therefore the institute was not able to satisfy the condition of completing the second performance audit before November 30, as directed by the NPIU. The Performance Auditor expressed great satisfaction at the efforts put in by the College, which is reflected in the good grades that were awarded. The report of the Performance Auditor is attached as **Annexure VII**.

Action Sought: The BOG may kindly discuss the Performance Auditor's report.

3.3 Report on Accreditation

The College is due to upload the Self-Assessment Report for Accreditation on the NBA Portal by February 2, 2015. The Self-Assessment Scores prepared by the Departments of Electronics Engineering and Computer Engineering that are eligible to apply for accreditation are attached as **Annexure VIII**.

Action Sought: The BOG may kindly discuss the Scores prepared by the respective Departments, evaluate shortfalls and suggest remedial actions.

3.4 Report on Governance Development Plan

All Institutions were asked to prepare the initial Governance Development Plan and upload on the College website. The institutional BOG members were asked to take lead in its preparation. The initial draft of the Governance Development Plan of CE Cherthala has been prepared and sent to the SPFU and NPIU. It is attached as **Annexure IX**.

Action Sought: The BOG may kindly discuss the draft of the GDP and give suggestions.

3.5 Fixing the tentative date for the VIIth BOG meeting of CE Cherthala.

Action Sought: The BOG may kindly fix tentatively the dates for the VIIth BOG meeting.

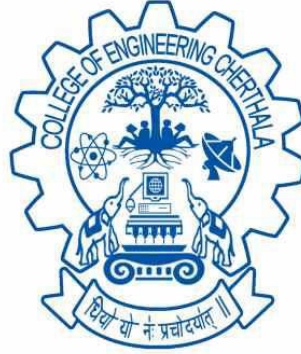
PART 4

**OTHER ITEMS WITH THE PERMISSION OF
THE CHAIR**

Annexure - I

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME Phase II

Sub Component I.1



5th MEETING OF
THE BOARD OF GOVERNORS

Approved Minutes

Date: 05-09-2014

Time: 11.30 am

Venue: Seminar Hall, College of Engineering Cherthala

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

Phone: +91 478 2553416

AGENDA

Part 1-Procedural

Sl. No	Items
1.1	Confirming the Minutes of the 4 th Meeting of the Board of Governors held on 25-2-2014 at College of Engineering Cherthala, Alappuzha
1.2	Report on the action taken/action pending on the pertinent decisions in the Minutes of the 4 th Meeting of the Board of Governors held on 25-02-2014 at College of Engineering Cherthala

Part 2-Ratifications and Approvals

Sl. No	Items
2.1	Ratification of the agenda notes circulated on 1 st July 2014
2.2	Status of procurement of goods
2.3	Status of various civil works packages
2.4	Report of various Academic activities
	2.4.1 Report on ICIS 2014
	2.4.2 In house FDP
	2.4.3 Outstation FDP
	2.4.4 Management Capacity Development Programmes
	2.4.5 Papers published since IV th BOG
	2.4.6 Staff Development Programmes- outstation

	2.4.7	Brief Report of the academic programmes
	2.4.8	TNA Plan for faculty and staff
	2.4.9	Student Activities under EAP
	2.4.10	Finishing School Activities
	2.4.11	Student Activities under IIC

Part 3-Reports

Sl. No	Items
3.1	Summary of expenditure as on 5-09-2014
3.2	Faculty position as on 5-09-2014
3.3	Report on Visit of Mentor
3.4	Report on status of Accreditation
3.5	Report on Grant recommended under RUSA

Part 4-Other items

Sl. No	Items
4.1	Request to approve recruitment to the post of Data Entry Operator
4.2	Request to authorize Prof. Jayadas C K, Associate Professor in Electronics Engineering to assume charge of Finance Coordinator in the interim
4.3	Request to sanction expenditure incurred by faculty for registration to International Conferences to publish papers
4.4	Any other items with the permission of the chair

Part 5

Annexures

Sl. No	
1	Annexure 1: Minutes of the fourth BOG meeting held on 25.02.2014
2	Annexure 2: Agenda Notes Circulated by email on 1.7.2014
3	Annexure 3: Report by the mentor

Members present

1. Dr C P Girijavallabhan, Hon. Chairman.
2. Shri. M Sherif , Addl. Sec. ,H. Edn, Government of Kerala (State Govt. Nominee)
3. Dr. Philip Kurien, (University Nominee)
4. Prof. Pradeep M, HOD, Electronics Engineering Dept.
5. Prof. Manilal D L, HOD, Computer Science and Engineering Dept.
6. Dr. P Suresh Kumar (Principal)

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

1. Dr VP Devassia , Principal Model Engineering College

2. Sri Jacob Mathew, Vice President, Idea Cellular
3. Shri Salim M K, MD, Assuretech, Technopark, Thiruvananthapuram
4. Shri James Joseph, Jt. Sec, Finance, Government of Kerala (State Govt. Nominee)

The following persons were specially invited to attend the BOG meeting

1. Dr P Pratapachandran Nair, Hon'ble Mentor of C.E Cherthala
2. Dr. V Gopakumar, Director, SPFU

Others present in the meeting,

1. Dr Vinu Thomas, TEQIP Coordinator
2. Dr. Jobymol Jacob, Academic Coordinator
3. Prof. Priyakumar T N, Coordinator, Civil Works Committee
4. Sri Sreekumar K, IIC Coordinator
5. Sri Irshad Ali T K, M&E Coordinator
6. Sri Muhammed Ilyas H, Asst. Professor in CS
7. Smt. Greeshma N Gopal, Asst. Professor in CS &Coordinator, Finishing School

The meeting started with silent prayer at 11.30 AM.

The Hon'ble Chairman brought the meeting to order. The Chairman in his introductory note welcomed the BOG members. He expressed satisfaction at the progress in TEQIP-II activities in the college. He made a special mention about the paper presentation in the International Conference by Dr Vinu Thomas, TEQIP Coordinator. Thereafter, the Hon'ble Chairman invited the Principal to introduce the agenda for the 5th BOG meeting. Principal Dr P Suresh Kumar thanked the Hon'ble Chairman and presented the agenda for the meeting.

1.1 Confirmation of the Minutes of the 4th Meeting of the Board of Governors held on 25-02-2014 at CE Cherthala

The BOG confirmed the approved minutes of 4th Meeting of Board of Governors of CE Cherthala held on 25-02-14.

1.2 Report on the action taken/action pending on the pertinent decisions in the Minutes of the 4th Meeting of the Board of Governors held on 25-02-2014 at College of Engineering Cherthala

The BOG took note of the Action Taken Reports and approved.

2.2 Ratification of the agenda notes circulated on 1st July 2014

The BOG ratified the items in the agenda notes which were circulated on 1st July 2014, by email. Dr. Pratapachandran Nair opined that for the conferences proposed to be held in the future, efforts should be made to get grants from other funding agencies as well. The BOG took note of this and approved.

The Hon'ble Chairman asked the TEQIP Coordinator Dr Vinu Thomas to recount his experience of travelling to the United States for presenting the paper in WAC 2014, under ITSS. The TEQIP Coordinator narrated his experiences. Sri M Sherif asked how the rest of the faculty benefitted by the International Travel and whether the experiences were shared with them. The TEQIP Coordinator replied that the experiences were shared with all faculty and that the entire procedure for ITSS was made familiar to everyone.

The BOG ratified both items in the circulated agenda notes.

2.3 Status of procurement of goods

The BOG noted the progress in the procurement of the various packages, and approved the expenditure incurred till date. The BOG approved the revision in the package Airconditioners. The Hon'ble Chairman instructed that some experiments in various laboratories be conducted using LABVIEW. The Hon'ble chairman enquired what is the additional fund required to settle the pending expenditure in procurement and the academic activities. The Principal replied that

College of Engineering Cherthala

an amount of Rs 34 lakhs, in addition to the funds that are currently available, is required to settle the pending expenditure under various heads. The SPFU Director instructed to settle the pending expenditure at the earliest and write to the SPFU when additional funds are required after that.

The BOG approved the list of equipment to be cancelled and the new list of equipment to be purchased under procurement of goods, given below.

List of packages that are cancelled

Sl.No	Package Name	Package No.	Proc. Method	Status	Budgeted Amount (Rs.)
1	router + media convertor	TEQIP-II/KL/KLIG19/73	Shopping	Not Initiated	99,419.00
2	Audio system- smart class room	TEQIP-II/KL/KLIG19/83	Shopping	Not Initiated	1,40,000.00
3	Solar Energy Training System	TEQIP-II/KL/KLIG19/40	Shopping	Not Initiated	25,000.00
4	Qualnet + Sensor node network	TEQIP-II/KL/KLIG19/84	Shopping	Not Initiated	6,50,000.00

List of new packages that are added in the procurement plan

No.	Package	No. of Items	Approximate Price
1	Stabilizer (3 KVA) for A/c	24	75000
2	Phone	50	40000
3	Cabinets for keeping lab equipments	4	300000
4	Projector screen & Metal Box for housing cables	23+5	50000
5	Audio system smart class room + Auditorium	4+1	440000
6	Ebook (Springer)		610000
7	LCD Monitor	1	130000
8	ID Card Printer	1	100000
9	Label Printer	1	5000
10	Fire Safety equipment	15	300000
11	Lightning arrester for protection	for 3 buildings	800000

12	Vacuum Cleaner 1. Big 2. small	1+1	25000
13	Platform + Lectern	17	520000
14	N video card for CUDA	2	100000
15	Fire wall for the campus Network	1	400000
16	20 Mbps Internet connection from BSNL	1	65000
17	media converter	1	10000
18	Sensor network nodes	5	75000
19	Campus Automation software	1	500000
20	Electrical demonstrator & trainer module	8	134250
21	Cut sections of machine	3	80085
22	water purifier system	4	200000
23	Workshop tools	50	22600
24	Digital Multimeter	30	150000
	Total Amount		5131935

2.4 Status of various civil works packages

The BOG took note of the progress in the various civil works packages and approved the expenditure incurred till date. The BOG discussed the various new packages proposed for civil works and gave its approval for initiating these packages on PMSS.

No	Civil Work Package	Estimate
1	Steel trussed soft roof for the entry to the research lab, for keeping footwear etc	19260/-
2	Steel staircase with hand grills for the newly constructed research lab	40880/-
3	To fix grills on all windows of the research lab and the extensions to the mechanical and electrical workshop	50000/-

2.5 Report of the various Academic programs attended by faculty and staff

The BOG noted the various Academic programmes for faculty and staff conducted at the institute under the heads Faculty and Staff Development, Management Capacity Development and the student activities held under Equity Action, Finishing School and Industry Institute Interaction and approved their conduct and the expenditure incurred. The BOG noted the TNA

plan prepared and the publications by the faculty since the 4th BOG meeting. The BOG approved the conduct of ICIS 2014 by College of Engineering Cherthala and ratified the expenditure incurred. Sri M Sherif noted that the amount actually spent was less than the budgeted amount. The following suggestions were made by the BOG.

1. The SPFU Director Dr V Gopakumar noted that the number of programmes proposed to be conducted in the TNA plan, and the number of participants proposed for each programme, had to be realistic. The current TNA plan had too many number of programmes that could not be realistically completed, and the proposed number of participants was also very high. He therefore instructed the Academic Coordinator to prepare a realistic plan for TNA, especially in view of the fact that the project period has been extended. The BOG advised that the number of in house programmes be limited to four till November 2014, and the programmes maybe selected by the Department Heads from the list that is included in the agenda notes.
2. The SPFU Director Dr V Gopakumar informed the BOG that it was communicated by the NPIU that management capacity development programmes maybe attended by faculty only if it is conducted by institutes such as IISc, IITs, NITs, NITTRs etc. Therefore faculty training maybe permitted if they are organized by such institutions. He also recommended that training programs by organizations such as ESCI Hyderabad maybe put on hold until further instructions from the SPFU. The Hon'ble chairman suggested that programmes by CDAC may be approved. Sri M Sherif opined that a staff member be deputed for only one programme in the period till November 2014. BOG concurred with the above observations.
3. The SPFU Director Dr V Gopakumar asked to keep a statistic of the number of students who attend various EAP programmes in various categories such as SC/ST, OBC, Female etc. The SPFU Director Dr V Gopakumar also informed that the finishing school must be constituted with a coordinator, faculty members from each Department, a representative of the non-teaching staff and student representatives. He also informed that the performance indicator for the remedial classes is the number of students who have passed, and that for the soft skill training is the number of students who have been placed. He instructed the Academic Coordinator to prepare the data as above. The BOG approved this and asked to comply.

4. Dr Pratapachandran Nair asked that motivational training programmes be conducted for students of every year, and especially the first year students. The BOG approved this.
5. The SPFU Director Dr V Gopakumar informed that the College should sign an MOU with a hospital that has ambulance facility for the benefit of students, faculty and staff. He also said that there should be facility for consultation by a Doctor and Psychologist at least once per week, and there should be dedicated consultation rooms for this purpose. The BOG approved this and asked to comply.
6. The SPFU Director informed that for attending the pool placement drive for students of the TEQIP institutions organized by SPFU, the students needed to pass the employment eligibility test, for which the SPFU had suggested two agencies. The Principal replied that the College is planning to associate with Aspiring Minds, which is one of the two agencies suggested, on view of it being a nationally reputed agency. The Principal also informed that the placement training at present was being handled through Aesthetix, which had done a good job for improving the placements during the past two years. The BOG approved this.
7. Sri M Sherif opined that the contract faculty also be given the opportunity for attending training programmes, and that they may be permitted III AC travel by train for the purpose.

3.1 Summary of expenditure as on 5.09.2014

The BOG noted the summary of expenditure incurred till date. The SPFU Director Dr. V Gopakumar reiterated that the payments for the pending procurement packages maybe completed at the earliest and that the institution should write to the SPFU when funds are exhausted. The BOG took note of this and approved.

3.2 Faculty Position as on 24.02.2014

The Principal presented the current faculty position. The BOG took note of the same.

3.3 Report on visit of the Hon'ble mentor

The BOG took note of the report by the Hon'ble mentor following his third mentoring visit to the institution. The Hon'ble Chairman and the SPFU Director enquired about the improvement

in the faculty cadre ratio. The Principal replied that IHRD has initiated steps for promotion of eligible faculty.

3.4 Report on status of Accreditation

The Principal reported that the current status of the steps taken to achieve accreditation by the NBA. The BOG took note of this.

3.5 Report on Grant recommended under RUSA

The Principal reported that the institution has been recommended for a grant of Rs 2 Crore under RUSA, which was the highest among all IHRD institutions. The BOG commended the Principal for this achievement.

4.1 Permission to recruit new personnel to the post of Data Entry Operator

The BOG approved the request to initiate steps to recruit a new Data Entry Operator in place of Smt. Joyal Michael who has resigned. Sri M Sherif reminded that proper procedure has to be followed for the recruitment.

4.2 Request to authorize Prof. Jayadas C K, Associate Professor in Electronics Engineering to assume charge of Finance Coordinator in the interim

The BOG ratified the decision to authorize Prof. Jayadas C K, Associate Professor in Electronics, to assume the charge of Finance Coordinator during the period Prof. Pradeep M is on leave for completing his research.

4.3 Request to reimburse expenditure by faculty for registration to International Conferences, where their papers have been accepted

The BOG decided that the expenditure incurred by faculty for registration to International and National Conferences and publication charges for publishing in journals, maybe met from the TEQIP funds.

4.4 Request to sanction the Principal and Heads of Departments financial powers for TEQIP-II activities

The BOG decided that the financial powers as directed in the project guidelines of TEQIP-II will be delegated to the Principal and the Heads of Departments.

Additional items taken up for discussion

The SPFU Director Dr V Gopakumar opined that a master plan for the College of Engineering Cherthala be prepared, which should be comprehensive in terms of the college vision. The Principal replied that steps will be initiated and the status of the same will be reported in the next BOG meeting.

The Hon'ble Chairman in his concluding remarks appreciated the quality of the deliberations of the 5th BOG meeting. He thanked all the members for attending the meeting and contributing to it by their valuable suggestions and comments. He once again commended the Principal and the TEQIP Cell of CE Cherthala for their good work. He hoped that this good work would continue. The Hon'ble Chairman called the meeting to end at 2.30 PM.



Dr. C.P Girijavallabhan
Chairman



Dr. P Suresh Kumar
Principal

Annexure - II

NEW PROCUREMENT PACKAGES PROPOSED

- 1 Dreamspark Premium: Dreamspark Premium
English 3 Year Online membership India :

Rs 1,70,000/-
- 2 Visual Presenter:: Document Camera
with Optical Zoom Lens
Onboard AV Recording
Image Storage
Input VGA : Rs.42000 X 4 nos = Rs 1,68,000/-
- 3 Surveillance system: night surveillance system
including camera and
accessories : Rs. 1,00,000
- 4 Information Display System – Rs 1,90,000
- 5 Access Engineering journal Rs 1,60,000

Annexure - III

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME

Phase - II

Terms of Reference (ToR)

For

Selection of Training Providers in Certified Java and android programming

Under

Technical Education Quality Improvement Program - Phase-II

October 2013

College of Engineering Cherthala
Pallippuram P.O.

Terms of Reference (ToR) for Technical Selection of Training Providers in Java and Android programming Under Technical Education Quality Improvement Programme - Phase-II

1. BACKGROUND

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

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

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

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

The activities of the Finishing School will be regularly supervised and monitored by the respective SPFUs and the NPIU, especially in respect of the number of students participating in the 4-week training and the percentage of these participants securing employment within 6 months of completion of training.

2. OBJECTIVES OF HIGH INTENSITY TRAINING ON JAVA AND ANDROID PROGRAMMING

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

The broad objectives of high intensive training on “Java and Android programming” are

- a) To develop Mobile Applications with Google Android Platform.
- b) Android is a software stack for mobile devices that includes an operating system, middleware and key applications. The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language. This training shall give the students to develop skills for creating and deploying Android applications, with particular emphasis on software engineering topics including software architecture, software process, usability, and deployment.
- c) To assist the Placement Cell of the College for a placement drive.
- d) To provide soft skill training

3. SCOPE OF WORK

- a) The Project provides for hands on training of passed out students in Electronics and Communication Engineering and Computer Science Engineering Streams.
- b) The training is to be imparted in-situ (at the institutions) through two sections: 120 hours training on Java and Android programming and certification exam on Java and Android programming. The venue of the certification exam shall be arranged at CEC Cherthala, if feasible; or any other venue as suggested by the Provider.
- c) The details of the modules in terms of the elements of training; and the corresponding suggested modes of teaching & training, expected outcomes and duration are given at Annexure-1. The program aims to train 40 B.Tech. passed out students from this Institution.
- d) Training is to be imparted at Government Engineering College Cherthala in one batch of 40 candidates.
- e) The training providers will need to ensure coverage of all the elements identified for the course.
- f) The training providers are free to add more elements in main module that will be covered during the training, provided that these additional elements and additions to the contents can be covered within the stipulated duration of the training. The additional elements and contents are to be declared in the proposal submitted.
- g) The training providers are also free to suggest alternates to the suggested modes of training of various elements.
- h) To qualify for being selected, a training provider will need to demonstrate capability for the training in Java and Android programming and agree to provide the same at the institution and according to schedules as agreed with the College
- i) The training provider shall include the Java and Android programming certified students from CEC Cherthala in the placement drives that are conducted or facilitated by them.

4. ELIGIBILITY AND CAPABILITY OF TRAINING PROVIDERS

1. Public and private training organizations are eligible to provide training.
2. The training provider should meet the following benchmarks:
 - ✓ Should be an Authorized Training Centre (ATC) of EC-Council
 - ✓ Minimum 3 years' experience in providing 'Java and Android programming 'training (please provide the copies of the credentials/ self-certificate for the last three years 2011-12, 2012-13, 2013-14; Ref. Annex-II,III).
 - ✓ All the training personnel should be Java and Android programming certified.
 - ✓ In addition to this, the firm should have at least 2 experienced resource persons (full-time or otherwise) with at least a Bachelor's Degree. Brief experience profile of at least 5 of the resource persons in the format given at Annexure-III must be provided.
 - ✓ The training provider will need to demonstrate that it possesses the capacity to impart training to about 2 batches of students in a year.
 - ✓ An undertaking (self-certificate) is to be submitted that there has been no outstanding bankruptcy, judgment or pending legal action that could impair operating as a going concern.
 - ✓ An Undertaking (Self Certificate) is to be submitted that the organization hasn't being black listed by any Central/State Government Department/Central Government Funded Organizations/State Government Funded Organization/World Bank, or other World Bank Organizations (including the UN Organizations) and is not under investigation by Government or UN Member State Government.

5. SELECTION OF TRAINING PROVIDERS

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

6. PAYMENT TO TRAINING PROVIDERS

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

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

7. COPIES OF RESPONSE

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

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

Approximate cost per student for 120 hours is Rs.15000/- (Rupees Fifteen Thousand Only) (includes course materials, mock interviews, placement assistants etc....)

Total estimated cost is Rs.6,00,000/- (Rupees Six Lakhs Only)

9. DESIGNATED POINT OF CONTACT

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

Annexure I

Java Track:

- Introduction to Java
- Java Design Goals & Concepts
- Java Tools
- The Java Language
- Object Oriented Java Programming
- Java Applets
- Java GUI Programming with AWT and swing
- Java Beans
- Introduction to Java Exceptions
- Threads
- Java Database Connectivity
- Networking with Java
- Enterprise Java Overview
- EJB (Enterprise Java Beans)
- Servlets
- JSP (Java Server Pages)
- Project

Android:

- Introduction to Mobile Technology
- GSM/GPRS/EDGE
- 1G/2G/3G/4G
- IEEE802.11
- ii. Infrared
- iii. Bluetooth
- Software Development for Mobile Device
- An Overview of J2ME
- Introduction to Android Open Source Project
- Getting Started with Android Technology
- Why Develop for Android
- Creating J2ME application
- Creating Your First Android Application
- Designing the User Interface
- Starting with Application Coding
- Validating and Handling Input Data
- Getting Persistent with Data Storage
- Animating Widgets and Layouts
- Styling Android Application Page 4 of 4

- Accessing Location Based Services Application
- Telephony and SMS
- Audio, Video and Using the Camera
- Publishing Android Application to Market

Personality Development Training Module

1. Leadership
2. Communication
3. Listening skills and (iv) Logical thinking

Annexure-II

Format for providing details of experience and resources of training provider

1. Name :
2. Address and Contact details:
3. Relevant Work Experience (experience related to providing Training on Java and Android programming)

Sl. No	Requirement	Please provide the relevant information summary in this format
1	No. of years into providing training in Java & Android	
2	No. of engineers trained so far and in how many batches	
3	No. of trainers engaged along with their CVs	

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

Annexure III

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

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

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

Annexure IV

Format for the list of firms which recruited trainees of Java and Android programming and details of trainees who were placed.

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

Annexure - IV

List of Faculty : 2014-2015

List of Permanent Faculty			
Sl.No	Name	Designation	Status
	Dr. P Sureshkumar	Principal	
1	Dr. Rajesh M.V.	Associate Professor in Electronics Engg.	LWA
2	Dr. Vinu Thomas	Associate Professor in Electronics Engg.	
3	Dr. Jobymol Jacob	Associate Professor in Electronics Engg.	
4	Pradeep M.	Associate Professor in Electronics Engg.	On Leave
5	Jayadas C.K.	Assistant Professor in Electronics Engg.	
6	Dr. Ashok Kumar T.	Associate Professor in Electronics Engg.	
7	Sreekumar K.	Assistant Professor in Electronics Engg.	
8	Irshad Ali T.K.	Assistant Professor in Electronics Engg.	
9	Jasleena C.	Assistant Professor in Electronics Engg.	
10	Anupama A.	Assistant Professor in Electronics Engg.	
11	Remya S.	Assistant Professor in Electronics Engg.	
12	Manilal D.L.	Associate Professor in Computer Engg.	
13	Rejin Joseph	Assistant Professor in Computer Engg.	LWA
14	Mohammed Illiyas H.	Assistant Professor in Computer Engg.	
15	Anitha M.A.	Assistant Professor in Computer Engg.	
16	Sony P.	Assistant Professor in Computer Engg.	
17	Greeshma N. Gopal	Assistant Professor in Computer Engg.	
18	Janu R. Panicker	Assistant Professor in Computer Engg.	
19	Rajeevan A.K.	Assistant Professor in Electrical Engg.	QIP
20	Elizwa Laiju	Assistant Professor in Electrical Engg.	
21	Devanand C.N.	Assistant Professor in Mechanical Engg.	
22	Sreenivas P.	Assistant Professor in Mechanical Engg.	QIP
23	Sandhya P. Gopal	Assistant Professor in Mechanical Engg.	
24	Sarakutty K.J.	Associate Professor in Mathematics	
25	Priyakumar T.N.	Associate Professor in Mathematics	
26	Radha Balakrishnan	Assistant Professor in Mathematics	

List of Contract Faculty

Sl.No.	Name	Designation
1	Lomin Joy V.	Assistant Professor in Computer Engg.
2	Pramod Mathew Jacob	Assistant Professor in Computer Engg.
3	Asha Thomas	Assistant Professor in Computer Engg.
4	Aswathy V. Shaji	Assistant Professor in Computer Engg.
5	Fathima N.	Assistant Professor in Computer Engg.
6	Josna Jose	Assistant Professor in Computer Engg.
7	Joyce Jose	Assistant Professor in Computer Engg.
8	Juddy Ann Joy	Assistant Professor in Computer Engg.
9	Meenu Mathew	Assistant Professor in Computer Engg.
10	Rohini T.M.	Assistant Professor in Computer Engg.
11	Athira S Kumar	Assistant Professor in Computer Engg.
12	Suman Elizabeth Daniel	Assistant Professor in Computer Engg.
13	Abdul Kareem V.	Assistant Professor in Electronics Engg.
14	Ajay Nath S.A.	Assistant Professor in Electronics Engg.
15	Jaffin Antony	Assistant Professor in Electronics Engg.
16	Mithun C	Assistant Professor in Electronics Engg.
17	Vishnu Pradeep K.	Assistant Professor in Electronics Engg.
18	Anjali R.	Assistant Professor in Electronics Engg.
19	Ashitha T.S.	Assistant Professor in Electronics Engg.
20	Rijimol Mathew	Assistant Professor in Electronics Engg.
21	Sreerag M	Assistant Professor in Electronics Engg.
22	Sreedhu T Sasi	Assistant Professor in Electronics Engg.
23	Teffi Francis	Assistant Professor in Electronics Engg.
24	Anaswara V Nath	Assistant Professor in Electronics Engg.
25	Archana V R	Assistant Professor in Electronics Engg.
26	Joymon Emmanuel	Assistant Professor in Electrical Engg
27	Meera E.	Assistant Professor in Electrical Engg.
28	Veena Mathew	Assistant Professor in Electrical Engg
29	Faizal K.	Assistant Professor in Mechanical Engg.
30	Prakash Sam Thomas	Assistant Professor in Mechanical Engg.
31	Karunakaran Akhil Dev	Lecturer in Environmental Sciences
32	Pratheesh P.K.	Lecturer in Physics
33	Jani Dev C.C.	Lecturer in Chemistry

The following table summarizes the Faculty Strength that is required as per AICTE norms, Sanctioned strength and the number of persons actually working in each cadre

No	UG Programs	No of Professors as per AICTE norms	No of Associate Professors as per AICTE norms	No of Assistant Professors as per AICTE norms	Sanctioned strength of Professors	Sanctioned strength of Associate Professors	Sanctioned strength of Assistant Professors	No of Professors actually present	No of Associate Professors actually present	No of Assistant Professors actually present	Vacancies of Professors	Vacancies of Associate Professors	Vacancies of Asst Professors
1	B.Tech in Electronics & Comm	1	5	18	1	4	13 Regular + 4 Temporary Full Time	0	5	5 Regular + 11 contract	1	(-1) 1 Associate Professor posted against Professor's vacancy	1
2	B.Tech in Computer Science & Engg	1	4	13	1	4	13 Regular + 1 Temporary Full Time	0	1	5 Regular + 12 Contract	1	3	(-4) 4 Assistant Professors working against vacancies of Professor and Associate Professor
3	B.Tech in Electrical & Electronics	1	2	9	0	0	2 Regular + 1 Temporary Full Time + 1 Temporary Part Time	0	0	2 Regular + 3 Contract	1	2	2

No	PG Programs	No of Professors as per AICTE norms	No of Associate Professors as per AICTE norms	No of Assistant Professors as per AICTE norms	Sanctioned strength of Professors	Sanctioned strength of Associate Professors	Sanctioned strength of Assistant Professors	No of Professors actually present	No of Associate Professors actually present	No of Assistant Professors actually present	Vacancies of Professors	Vacancies of Associate Professors	Vacancies of Asst Professors
1	M.Tech in Electronics with specialization in Signal Processing **	1	1	2	0	0	0	0	0	0	0	0	0
2	M.Tech in Computer and Information Science **	1	1	2	0	0	0	0	0	0	0	0	0

**** No Posts are created for the PG Programmes**

Annexure - V

TEQIP-II

Receipts & Payments

5-Sep-2014 to 28-Jan-2015

Page 1

Receipts	5-Sep-2014 to 28-Jan-2015	Payments	5-Sep-2014 to 28-Jan-2015
Opening Balance	2,16,93,341.00	Current Liabilities	1,28,940.00
Bank Accounts	<u>2,16,93,341.00</u>	Taxes Deducted A/c	<u>1,28,940.00</u>
Current Liabilities	76,654.00	Contribution to Labour Welfare Fund	21,383.00
Security Deposits	14,513.00	KVAT	64,791.00
Performance Security	<u>14,513.00</u>	Works Contract Tax Deducted	<u>42,766.00</u>
Taxes Deducted A/c	<u>62,141.00</u>	Current Assets	2,09,900.00
Contribution to Labour Welfare Fund	10,305.00	Loans & Advances (Asset)	<u>2,09,900.00</u>
KVAT	31,225.00	Advance to Employees	<u>2,09,900.00</u>
Works Contract Tax Deducted	<u>20,611.00</u>	Advance Paid to Anupama	20,500.00
Current Assets	1,61,900.00	Advance Paid to Elizwa Laju	4,900.00
Loans & Advances (Asset)	<u>1,61,900.00</u>	Advance to Dr. Vinu Thomas	51,000.00
Advance to Employees	<u>1,61,900.00</u>	Advance to Greeshma N Gopal	2,500.00
Advance Paid to Anupama	2,500.00	Advance to Jobymol	95,000.00
Advance Paid to Elizwa Laju	4,900.00	Advance to Manilal	21,000.00
Advance to Dr. Vinu Thomas	21,000.00	Advance to Pradeep	<u>15,000.00</u>
Advance to Greeshma N Gopal	97,500.00	Indirect Expenses	2,36,53,996.00
Advance to Manilal	21,000.00	Sub-Component 1.1	<u>2,36,53,996.00</u>
Advance to Pradeep	<u>15,000.00</u>	Assistantships	<u>12,43,176.00</u>
Indirect Incomes	10,07,629.00	Capacity Development	5,864.00
IRG - 2% of Students Fees	8,10,808.00	FSD	4,63,401.00
Interest Earned	1,90,490.00	Student Support	97,855.00
Interest Earned	1,85,959.00	Incremental Operating Cost	4,28,534.00
Interest From Corpus Fund	3,643.00	Consumables	64,900.00
Interest From Equipment Replacement Fund	296.00	Operation and Maintenance	2,76,864.00
Interest From Faculty Development Fund	296.00	Salaries	86,770.00
Interest From Maintenance Fund	296.00	Procurement	2,14,15,166.00
Other Income	6,331.00	Books & LRs & Software	12,88,362.00
Other Income	<u>6,331.00</u>	Equipment	1,72,90,469.00
Grant From SPFU	35,00,000.00	Furniture	7,64,860.00
Grant Received From SPFU	<u>35,00,000.00</u>	Minor Civil Works	<u>20,71,475.00</u>
		Closing Balance	24,46,688.00
		Bank Accounts	<u>24,46,688.00</u>
Total	2,64,39,524.00	Total	2,64,39,524.00

Annexure - VI

MENTOR'S REPORT FORM (1)

NAME OF MENTOR: Dr. P. Pratapachandran Nair

DATES OF MENTORING VISIT: 12th & 13th August 2014

NAME OF INSTITUTION WITH LOCATION: College of Engineering, Cherthala

No.	SEVEN KEY ASPECTS	QUALITATIVE SUMMARY AND SUPPORTING EVIDENCE OF PROGRESS COMPONENT1: IMPROVING THE QUALITY OF EDUCATION	PROGRESS SINCE PREVIOUS VISIT
1.1	STRENGTHENING INSTITUTIONS TO IMPROVE LEARNING OUTCOMES AND EMPLOYABILITY OF GRADUATES	Cochin university had revised the curriculum and syllabi in 2012 and more electives are offered. 38 faculty were sent for subject updation programme and 15 FDP were conducted in the college. 2 staff development programmes were conducted in house and 9 supporting staff attended training programmes outside the institution. One International Conference on "Information Science" was successfully conducted by the Computer Science Dept. in July 2014. One faculty member presented a paper in the International conference WAC-2014 in Hawaii, USA. Another faculty member presented a paper in the International conference held at TKM college of Engineering, Kollam. Laboratories have been modernized and 22 class rooms are provided with LCD projectors. 4 class rooms and one seminar hall are made smart. 36 students have been placed so far. Soft skill training is imparted to the final year students.	The result of the first year students has not yet come. Even though there is a slight decline in the cumulative result of the final year students, the overall result of the college is 4 th in the Cochin university. Pass percentage of the M. Tech CSE students is 83.3%
1.2	SCALING UP POSTGRADUATE EDUCATION AND DEMAND-DRIVEN RESEARCH, DEVELOPMENT AND INNOVATION	Two M. Tech programmes are offered in the college. 36 students are offered assistance ship. No additional courses are started. PG laboratories are modernized. Rail Net connection with 1 GBPS is provided. Campus networking is over. 2 faculty members are undergoing PhD programme and 1 for M. Tech programme under QIP.	Progress is seen.

1.2.1	ESTABLISHING CENTRES OF EXCELLENCE	Centre for excellence in Signal Processing is to be initiated.	Slight progress is seen
1.3	FACULTY DEVELOPMENT FOR EFFECTIVE TEACHING(PEDAGOGICAL TRAINING)	To be initiated	Action from SPFU is needed.
COMPONENT 2: IMPROVING SYSTEM MANAGEMENT			
2.1	CAPACITY BUILDING TO STRENGTHEN MANAGEMENT	4 senior members of faculty have undergone training in IIMs and 4 senior faculty have attended courses on "Accreditation"	Progress is observed.
2.1.1	IMPLEMENTATION OF GOOD INSTITUTIONAL GOVERNANCE	4 B.O.Gs had been conducted so far and the 5 th meeting is scheduled on 5 th September 2014. SDP for Good Governance has been prepared and sent to NPIU.	Progress is seen.
2.2	PROJECT MANAGEMENT, MONITORING AND EVALUATION	Governing body takes interest in the implementation of the project. Regular review meetings are held by SPFU, Kerala for monitoring the progress. One performance audit had been conducted in January 2014. The report seems to be satisfactory.	Progress is seen.

MENTOR'S REPORT FORM (2)

NAME OF MENTOR: Dr. P. Pratapachandran Nair

DATES OF MENTORING VISIT: 12th & 13th August 2014

NAME OF INSTITUTION WITH LOCATION: College of Engineering, Cherthala

No.	LIST OF INTERVIEWS	KEY DISCUSSION SUMMARY POINTS
1.	UNDERGRADUATE STUDENTS	Transparent student evaluation. Online evaluation of teachers carried out twice in a semester and corrective actions based on the students feedback is taken. Only one industrial visit was carried out. More visits to be conducted. Placement activities to be improved. A new canteen is planned with PTA fund. A new stadium is planned using MLA fund. Hostels to be provided. More students to register in the professional societies like IEEE, CSI, IE (I), ISTE, etc.
2.	POSTGRADUATE STUDENTS	Bus facility to be improved. Industrial tie up is needed to get good projects.
3.	FACULTY	Mentoring of students to be improved. Industry institution tie up to be improved to get good projects and consultation activities. Shortage of regular faculty and filling up positions like Associate Professor, Professor, etc. Pedagogical training is yet to be arranged.
4.	SENIOR MANAGEMENT	Satisfactory progress in implementation of the project.
5.	MEMBERS OF THE GOVERNING BODY	External members were not available
6.	INDUSTRY REPRESENTATIVES	Not available
7	HEAD OF THE INSTITUTION	So far 5.5 crores was received. To meet the committed expenditure more fund is required. All 75 packages are initiated. Shortage of regular faculty and filling up the post of Professor, Associate Professor, etc. is to be urgently required since the institution is to upload the SAR for NBA accreditation of the courses by November 2014. Construction of hostels for boys and girls needs immediate attention. Research laboratories to be set up in the disciplines where M. Tech Programmes are offered (ECE and CSE). Research proposals from faculty to be sent to Senior Research Advisor. Academic tie up with IITs or NITs to be initiated. Soft skill training to be given to the students from the first year onwards

MENTOR'S REPORT FORM (3)

NAME OF MENTOR: Dr. P. Pratapachandran Nair

DATES OF MENTORING VISIT: 12th & 13th August 2014

NAME OF INSTITUTION WITH LOCATION: College of Engineering, Cherthala

No.	RECORD OF KEY POINTS (Discussed with Head of the Institution, Chair of the Governing Body)	INSTITUTIONAL RESPONSE	NOTE OF ANY FOLLOW-UP NEEDED BY MENTORS, SPFU,NPIU
1.	Shortage of regular faculty and supporting staff. Filling up the posts of Professor, Associate Professor, etc.	The same was brought to the attention of the higher authorities.	Even though the problem was discussed in the Review Committee meetings, no action has taken place.
2.	Additional space requirement to offer new courses	One academic block funded by NABARD is to be completed by March 2015.	NA
3.	Lack of hostels for boys and girls	The same is brought to the notice of higher authorities	NA
4.	Pedagogical training for faculty	Brought to the notice of SPFU, NPIU	Urgent action from SPFU, NPIU is needed.

Annexure - VII

ANNEX4: PERFORMANCE AUDIT FORM (1)

Institutional Performance Profile

AUDIT VISIT NUMBER: 2

Institutional Performance Profile:

Dates of Performance Audit: **December 12-14, 2014**

Name of the Performance Auditor: **Dr Suresh Kumar Dhameja**

Name of the Institution with location: **College of Engineering Cherthala, Kerala**

Date of Performance Visit: **December 12-14, 2014**

PIP REF	INSTITUTIONAL PERFORMANCE PROFILE	EVALUATION GRADES
Component1: Improving the quality of education in selected institutions		
1.1	Strengthening institutions to improve learning outcomes and employability of graduates	2
1.2	Scaling-up post graduate education and demand-driven research and development and innovation	NA
1.2.1	Establishing centres of excellence	NA
1.3	Faculty development for effective teaching (pedagogical training)	2
Component2: Improving system management		
2.1	Capacity building to strengthen management	1
2.1.1	Implementation of good governance	1
2.2	Project management, monitoring and evaluation	1

INSTITUTIONAL PERFORMANCE PROFILE GRADES AND GRADE DESCRIPTORS	
1.	Substantial evidence of good practice in the quality and standards achieved (Assessment identifies clear supporting evidence for at least 75% of the relevant practices.)
2.	Some evidence of good practice in the quality and standards achieved (Assessment identifies clear supporting evidence for at least 50% of the relevant practices.)
3.	Not in place (there may be one of the three primary reasons for this: a) no evidence can be found, b) there is evidence, but it is not of acceptable quality, or c) that there are plans for development but these have not yet taken place—in which case the auditor can indicate the expected date of completion/ implementation but the grade should remain 3.)

Note: Supporting evidence: The grade descriptors have two elements: one relating to the amount of the evidence (none, some or substantial); and one relating to the quality of the practice about which the evidence is gathered (is it good quality, or not?). So, for example, a grade of 1 means both that the evidence is good quality and that there is a substantial amount to demonstrate that it is of good quality (75% or more for the practices found).

ANNEX4: PERFORMANCE AUDIT FORM (1.1)

COMPONENT1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

Name of the Performance Auditor: Dr Suresh Kumar Dhameja

Name of the Institution with location: College of Engineering Cherthala

Date of Performance Audit: December 12-14, 2014

1.1: STRENGTHENING INSTITUTIONS TO IMPROVE LEARNING OUTCOMES AND EMPLOYABILITY OF GRADUATES

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS	SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
<p>A. Effectiveness of funds utilized for the teaching, training, learning and research equipment, library, computers, etc. by Institutions, including:</p> <ul style="list-style-type: none"> • Increase in the satisfaction index of student and faculty 	<ul style="list-style-type: none"> • Rs.5.5 Crores issued by NPIU till date. In addition Rs.35 Lakhs given by SPFU as temporary money • Already spent Rs.5.7981 Crore • No grievances received from the students except for hostel demand • Regular interaction by principal/EAP coordinator with the students • Regular faculty meetings by the principal. Minutes are recorded. No dissatisfaction received. Meetings are held once every month • The institute can device a mechanism for ascertaining satisfaction index of faculty and students (on half yearly basis).
<p>B. Obtaining Academic Autonomy status, including:</p> <ul style="list-style-type: none"> • Number of institutions that have obtained 'Autonomous Institution status' as per University Grants Commission process within 2 years of joining the Project, or • Effectiveness of utilization of academic autonomy possessed / obtained (See Table-26 in PIP) 	<ul style="list-style-type: none"> • Applied to University for forwarding application for autonomous status to UGC • University has forwarded the application to UGC and is under process at UGC. • Applied for accreditation to NBA for eligible UG programmes in ECE and CSE
<p>C. Effort made by Institutions for upgrading qualifications of faculty members, including:</p> <ul style="list-style-type: none"> • Percentage of faculty enrolled in MTech and PhD 	<ul style="list-style-type: none"> • Total faculty = 60 (26 regular, 24 contract faculty) • For MTech one regular faculty has been sent and 5 B Tech faculty members have not been sent because there is a clause by IHRD Govt. of Kerala by which only 3 faculty members out of the 9 state engineering colleges can be sent for qualification enhancement. • 5 faculty members out of 26 regular faculty members are doing their PhD. 5 faculty members are already having PhD qualification. The remaining regular faculty members have not been sent for PhD because of the above regulation by IHRD Govt. of Kerala.

<p>D. Existing teaching and staff vacancies and effort made by Institutions for filling the vacancies, including:</p> <ul style="list-style-type: none"> • Percentage of faculty and staff positions filled and vacant • Increase in faculty appointed on regular basis 	<ul style="list-style-type: none"> • Sanctioned faculty positions = 60 • In position 26 regular faculty members. The remaining positions have been filled by contract faculty members. • Director IHRD has issued an order that all recruitments will be made after the staff pattern is finalized. This pattern has been finalized on 8/12/2014. So the process of selection of regular faculty will be started very soon. • Almost all the sanctioned staff positions are already filled. 	
<p>E. Effectiveness of equity at Institutional level, including:</p> <ul style="list-style-type: none"> • Transition rate of students from the First to the Second year in Under graduate programmes 	<ul style="list-style-type: none"> • The transition rate of first year B Tech students is 32.39% for all the three disciplines namely ECE, CSE and EEE. • The reasons for lesser transition rate is the poor quality of student intake in the college in terms of their entrance rank (2012-13 intake) • Mass failure of students for a particular subject (Engineering Mechanics) due to a different pattern of question paper. 	
<p style="text-align: right;">Evaluation Grade for 1.1 Using the 3-point grading scale and grade descriptors in Annex 4(1)</p>		<p>2</p>

ANNEX4: PERFORMANCE AUDIT FORM (1.2)

COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

Name of Performance Auditor: Dr Suresh Kumar Dhameja

Name of Institution with Location: College of Engineering Cherthala

Dates of Performance Audit: December 12-14, 2014

1.2: SCALING-UP POSTGRADUATE EDUCATION AND DEMAND-DRIVEN RESEARCH & DEVELOPMENT AND INNOVATION

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS	SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
A. Effectiveness of funds utilized for the teaching, training, learning and research equipment, library, computers, etc .by the institutions ,including: <ul style="list-style-type: none"> • Increase in the satisfaction index of student and faculty 	
B. Effectiveness of scaling-up Postgraduate Technical Education, including: <ul style="list-style-type: none"> • Increased enrolment for MTech and PhD • Establishment of proposed laboratories • Cumulative number of assistantships granted 	
C. Progress/ achievement in starting new Postgraduate programmes, including: <ul style="list-style-type: none"> • Securing AICTE approval • Establishment of laboratories • Adequacy of student enrolments 	Not Applicable
D. Effectiveness of collaborations made with other Institutions in India and abroad ,including <ul style="list-style-type: none"> • Increase in number of co- authored publications in refereed journals 	
E. Increased collaboration with industry in research and development, including <ul style="list-style-type: none"> • Increase in number of joint and industry sponsored research and development work under taken 	

<ul style="list-style-type: none"> • Increase in financial contribution by industry for R&D • Increase in industry personnel registered for Master's and Doctoral programmes • Increase in industry personnel trained by the institution in knowledge and/or skill areas • Increase in the number of consultancy assignments secured • Increase in the number of students' and faculty visits to and/or training in industry • Improvements in graduate placement rate • Increase in involvement of industry experts in curricula & syllabi improvements, laboratory improvements, evaluation of students and delivering expert lectures • Increase in the number of sandwich programmes between industries and the institution. 	<h2 style="margin: 0;">Not Applicable</h2>	
<p>F. Increase in percentage of revenue from externally funded research and development projects and consultancies as a percentage of the total revenue of the institution formal sources</p>		
<p>G. Increase in the number of publications in refereed journals</p>		
<p>H. Increase in the number of patents filed</p>		
<p>Evaluation Grade for 1.2 Using the 3-point grading scale and grade descriptors in Annex 4(1)</p>		

ANNEX4: PERFORMANCE AUDITFORM (1.2.1)

COMPONENT1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS

Name of Performance Auditor: **Dr Suresh Kumar Dhameja**

Name of Institution with Location: **College of Engineering Cherthala**

Dates of Performance Audit: **December 12-14, 2014**

1.2.1 ESTABLISHING CENTRES OF EXCELLENCE

MONITORINGANDPROJECTOUTPUT/ OUTCOMEPARAMENTERS	SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
A. Establishing Centres of Excellence Improvement in Research and Development facilities through: <ul style="list-style-type: none"> • Establishment of new laboratories for applicable thematic research • Establishment of acknowledge resource centre (library) thematic area • Procurement of furniture • Civil works 	Not Applicable
Evaluation Grade for 1.2.1 Using the3-pointgradingscaleandgrade descriptors in Annex4(1)	

ANNEX4: PERFORMANCE AUDIT FORM (1.3)

COMPONENT1: IMPROVINGQUALITYOFEDUCATIONINSELECTED INSTITUTIONS

Name of Performance Auditor: **Dr Suresh Kumar Dhameja**

Name of Institution with Location: **College of Engineering Cherthala**

Dates of Performance Audit: **December 12-14, 2014**

1.3: FACULTY DEVELOPMENT FOR EFFECTIVE TEACHING (PEDAGOGICALTRAINING)

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS	SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
<p>A. Effort made by Institutions providing Pedagogy Training to faculty, including:</p> <ul style="list-style-type: none"> • Percentage of faculty who have benefitted from the core and advanced modules of pedagogy training 	<ul style="list-style-type: none"> • Only 2 faculty members have been sent for pedagogical come outcome based training. • There is no state policy for pedagogical training. SPFU Kerala must take initiative for pedagogical training (basic and advanced)
<ul style="list-style-type: none"> • Improvements in (and/or updating, and more relevant) curricula and/ or syllabi 	<ul style="list-style-type: none"> • Curricula was revised by CUSAT in 2012 • CUSAT revises the curricula every 4 years.
<ul style="list-style-type: none"> • Improvements in (and/or updating, more relevant) course assessment methods 	<ul style="list-style-type: none"> • The institute takes formative assessment of students through a series of class quizzes and assignments • In addition two series tests are given to students during the semester (1st test after completion of 50% of the syllabus and the 2nd test after completion of the remaining 50%) • There is an end term examination at the end of the semester. • As per CUSAT guidelines, 33% of marks are by internal assessments and remaining 67% through the end-term examination conducted by CUSAT • For the internal 33%, the institute takes into account the attendance, formative assessment and the series tests.
<ul style="list-style-type: none"> • Improvements in teaching and learning methods, including provision for students needing extra/ remedial support 	<ul style="list-style-type: none"> • Increased use of technology by faculty in classrooms in turns of use of powerpoints, classroom simulations • The classrooms have been made ICT friendly by installing multimedia system and projector. • Remedial support is being provided to the weaker students. Diagnostic tests have been conducted for identifying weak students and bridging programmes have been conducted to fill up the knowledge gap. • Night classes are also being conducted as part of remedial measures. • Pass percentage has increased as a result of remedial classes.

<ul style="list-style-type: none"> Percentage of faculty with UG qualification registered/deputed for improving their qualification (see Section-3,4(b) on page 20 of PIP) 	<ul style="list-style-type: none"> Total faculty = 60 (26 regular, 24 contract faculty) For M Tech one regular faculty has been sent and 5 B Tech faculty members have not been sent because there is a clause by IHRD Govt. of Kerala by which only 3 faculty members out of the 9 state engineering colleges can be sent for qualification enhancement. 5 faculty members out of 26 regular faculty members are doing their PhD. 5 faculty members are already having PhD qualification. The remaining regular faculty members have not been sent for PhD because of the above regulation by IHRD Govt. of Kerala.
<ul style="list-style-type: none"> Percentage of faculty deputed for subject domain training, seminars, etc. (faculty are required to share their gains with peers and put reports on training on institution's website) 	<ul style="list-style-type: none"> 47 out of 60 faculty members have attended trainings ranging from 3 days to one week. 17 faculty members have attended trainings for a duration of one or more weeks in various institutions like IITs, NITTTs, ESCI Hyderabad etc... There is a mandatory presentation by faculty (who has undergone training) amongst his colleagues in the department. The training reports are being submitted but so far not being uploaded on the institute website.
<ul style="list-style-type: none"> Progress in securing accreditation of eligible UG & PG programmes (institutions to achieve target of 60% of eligible UG & PG programmes accredited- applied for within 2 years of joining the Project) 	<ul style="list-style-type: none"> Of the three B Tech programmes, only two programmes (ECE and CSE) are eligible for NBA accreditation. The process has been initiated. Self-Assessment Report(SAR) of these two programmes will be uploaded in February 2015 Both the M Tech programmes are not yet eligible for NBA Accreditation.
<p>B. Effectiveness of Pedagogy Training, including</p> <ul style="list-style-type: none"> Percentage of students satisfied with the quality of teachers and changes/ Developments specifically undertaken as a result of student evaluation 	<ul style="list-style-type: none"> On an average more than 70% of the students are satisfied with the quality of teachers and the developments being undertaken as a result of student evaluations. The faculty members who are not favorably evaluated by the students are counselled by the HoDs and the principal. In certain cases, 2-3 counselling sessions have been conducted for some faculty members. Faculty members have been sent for training post-student evaluation. There has been significant improvements as a result of above measures.
<p style="text-align: right;">Evaluation Grade for 1.3 Using The 3-Point Grading Scale and Grade Descriptors in Annex 4(1)</p>	

2

ANNEX4: PERFORMANCE AUDIT FORM (2.1)

COMPONENT2: IMPROVING SYSTEM MANAGEMENT

Name of Performance Auditor: **Dr Suresh Kumar Dhameja**

Name of Institution with Location: **College of Engineering Cherthala**

Dates of Performance Audit: **December 12-14, 2014**

2.1: CAPACITY BUILDING TO STRENGTHEN MANAGEMENT

MONITORING AND PROJECT OUTPUT/ OUTCOME PARAMETERS	SUPPORTING EVIDENCE <small>(Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)</small>
<p>A. Implementation of academic and non-academic reforms, including:</p> <ul style="list-style-type: none"> • Improved understanding of the need and ways for increased autonomy, and new instruments for accountability • Modernization and decentralization of administration and financial management • Extent of delegation of administrative and financial decision making powers to senior functionaries • Responsiveness to stakeholders (students, faculty, staff, industry, local communities) • Institutional quality assurance and enhancement strategies, including student feedback mechanisms • Maintenance of academic and non-academic 	<ul style="list-style-type: none"> • Institute is exercising academic autonomy and some amount of financial autonomy also. • The BOG periodically checks the progress of the institute and suggests corrective measures if necessary. • Leadership capability of the principal is being regularly assessed by the BOG, although there is no formal mechanism.
	<ul style="list-style-type: none"> • All the administrative and finance staff members have been provided with computers • The software Tally has been purchased and is being used by the finance people • The institute is getting a customized campus management software developed which will be used as a part of the modernization and decentralization process.
	<ul style="list-style-type: none"> • For purchases more than 50 Lakhs the BOG is empowered, purchases from 1-50 lakhs are within the purview of the principal, HoDs are empowered to make purchases upto Rs.1Lakh • All administrative powers are with the principal • The HoDs exercise powers at the departmental levels.
	<ul style="list-style-type: none"> • The feedback of stake holders is taken during planning of any major activity • The institute provides services to the local community. The students have been provided these services through NSS camps like blood donation camps, blood group identification camps and providing help to the orphanages. In addition the students clean the area outside the campus and a Red-Ribbon Day is also being organized for AIDS awareness. The students of the college have also been engaging computer classes in schools. • The college has been chosen as a centre for ASAP (Additional Skills Acquisition Programme) by the Govt. of Kerala.
	<ul style="list-style-type: none"> • Evaluation of the faculty by students is done after every semester. • This evaluation is online and cannot be fiddled with. • For academically weak students, remedial classes have been organized.

<p>infrastructure and facilities ,including sufficiency and quality of academic buildings</p>	<ul style="list-style-type: none"> • The buildings are not sufficient. The maintenance is also low because of the lack of funds from the state government. • The classrooms need to be renovated 	
<ul style="list-style-type: none"> • Development, maintain and utilization of institutional resources 	<ul style="list-style-type: none"> • The institute is utilizing the resources in an optimum manner 	
<ul style="list-style-type: none"> • Generation, retention and utilization of Income Revenue Generation. 	<ul style="list-style-type: none"> • The institute generated an IRG of Rs.11.29 lakhs during 2013-14 by way of conduct of Faculty Development Programmes and conference registrations. This IRG also includes 2% of the tuition fee which is being deposited in the four funds. • The institute is not allowed to use this IRG amount till the end of TEQIP project. 	
<p style="text-align: right;">Evaluation Grade for 2.1 Using the 3-point grading scale and grade descriptors in Annex 4(1)</p>		<p>1</p>

ANNEX4: PERFORMANCE AUDIT FORM (2.1.1)

COMPONENT2: IMPROVING SYSTEM MANAGEMENT

2.1: Capacity building to strengthen management (continued)

2.1.1: IMPLEMENTATION OF GOOD GOVERNANCE

(See Also Annex4 of the Good Governance Guide for Governing Bodies for examples of supporting evidence)

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS	SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence)
Section A: Primary account abilities	
<ul style="list-style-type: none"> Has the Governing Body approved the institutional strategic vision, mission and plan- identifying a clear development path for the institution through its long-term business plans and annual budgets? (Give dates of governing body meetings where the minutes record these matters having been discussed, approved and/ or followed up.) 	<ul style="list-style-type: none"> The institute has its vision, mission and strategic plan which is approved the BOG. This vision, mission and the strategic plan is displayed in the college at strategic locations and also put up on the website. The departments have their own vision, mission and plans.
<ul style="list-style-type: none"> Has the Governing Body ensured the establishment and monitoring of proper, effective and efficient systems of control and accountability to ensure financial sustainability? (Give dates of governing body meetings where the minutes record these matters having been discussed, approved and/ or followed up at the systems level.) 	<ul style="list-style-type: none"> The institute sends its academic and financial reports to the BOG and also to the government. BOG has been specifically created for TEQIP projects and it meets once every 3 months. So far the BOG had 5 meetings and it ensures the monitoring of proper, effective and efficient systems of control and accountability to ensure financial sustainability
<ul style="list-style-type: none"> Is the Governing Body monitoring institutional performance and quality assurance arrangements? (Give dates of governing body meetings where the minutes record these matters having been discussed, approved and/ or followed up at the systems level.) 	<ul style="list-style-type: none"> Yes
<ul style="list-style-type: none"> Has the Governing Body put in place suitable arrangements for monitoring the head of the institution's performance? (Give dates of governing body meetings where the minutes record these matters having been discussed, approved and/ or followed up.) 	<ul style="list-style-type: none"> The governing body has informal mechanism for monitoring the head of the institution's performance It is recommended that a formal mechanism should be devised by the BOG for monitoring the principal's performance
SUPPORTING OVERALL EVALUATION GRADE FOR 2.1.1A USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTIONS IN ANNEX 4(1)	
1	

Section B: Openness & transparency in the operation of governing bodies	
<ul style="list-style-type: none"> Does the Governing Body publish an annual report on institutional performance? (Give the publication date and type of publication of the most recent annual report, if there is one) 	<ul style="list-style-type: none"> The institute prepares an annual financial report which is sent to the BOG for its verification and approval The institute does not publish the annual report and nowhere it is being put over the website.
<ul style="list-style-type: none"> Does the Governing Body maintain, and publicly disclose, a register of interests of members of its governing body? (Give that a formal register is not yet normal practice in colleges, provide evidence of any published information on governing body members' financial and commercial interests) 	<ul style="list-style-type: none"> Yes The details of the members of the governing body have been put on the institute website
<ul style="list-style-type: none"> Is the Governing Body conducted in an open manner, and does it provide as much information as possible to students, faculty, the general public and potential employers on all aspects of institutional activity related to academic performance, finance and management? (Say whether the governing minutes are published on the institution website, and note any other steps that the governing body takes to communicate with its stakeholders on its work as a Board) 	<ul style="list-style-type: none"> Yes
SUPPORTING OVERALL EVALUATION GRADE FOR 2.1.1B USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTIONS IN ANNEX 4(1)	
1	

Section C: Key attributes of governing bodies	
<ul style="list-style-type: none"> Are the size, skills, competences and experiences of the Governing Body, such that it is able to carry out its primary accountabilities effectively and efficiently, and ensure the confidence of its stakeholders and constituents? (Specify the range of skills and experience that the members of the governing body, and especially the external members, have) 	<ul style="list-style-type: none"> Yes The governing body comprises of a chairman (academician) 2 industry representatives, 3 academicians, principal as ex-officio member and 2 government nominees.
<ul style="list-style-type: none"> Are the recruitment processes and procedures for governing body members rigorous and transparent? (Specify how governing body members are selected, and whether that process is transparent) 	<ul style="list-style-type: none"> Yes The recruitment processes and procedures for governing body members are rigorous and transparent and the body is being constituted by Govt. of Kerala.

<ul style="list-style-type: none"> Does the Governing Body have actively involved independent members and is the institution free from direct political interference to ensure academic freedom and focus on long term educational objectives? (Give examples, where possible, of the role of external members in improving the performance of the institution) 	<ul style="list-style-type: none"> The governing body regularly invites director of SPFU and NPIU mentor under TEQIP II to participate in all the meetings. 	
<ul style="list-style-type: none"> Are the role and responsibilities of the Chair of the institution and the Member Secretary serving the governing body clearly stated? (If yes, specify the document where these roles are defined) 	<ul style="list-style-type: none"> Yes It is put up on the institute's website 	
<ul style="list-style-type: none"> Does the Governing Body meet regularly? Is there clear evidence that members of the governing body attend regularly and participate actively? (State the number of meetings in the last year, and the average number of those Board members present and those members absent at those meetings) 	<ul style="list-style-type: none"> Yes 	
SUPPORTING OVERALL EVALUATION GRADE FOR 2.1.1C USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTIONS IN ANNEX 4(1)		1
Section D: Effectiveness and performance review of governing bodies		
<ul style="list-style-type: none"> Does the Governing Body keep their effectiveness under regular review and in reviewing its performance, reflect on the performance of the institution as a whole in meeting its long-term strategic objectives and its short-term indicators of performance/success? (If yes, give the date(s) of governing body meetings where the minutes show that such a view has been discussed) 	<ul style="list-style-type: none"> Yes 	
<ul style="list-style-type: none"> Does the Governing Body ensure that new members are properly inducted, and existing members receive opportunities for further development as deemed necessary? (If yes, give examples of how these two tasks are carried out) 	<ul style="list-style-type: none"> Yes 	
SUPPORTING OVERALL EVALUATION GRADE FOR 2.1.1D USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTIONS IN ANNEX 4(1)		1

Section E:Regulatory compliance		
<ul style="list-style-type: none"> Does the Governing ensure regulatory compliance* and, subject to this, take all final decisions on fundamental matters of the institution. (If yes, give the date(s) of governing body meetings where the minutes show that regulatory compliance has been discussed) 	<ul style="list-style-type: none"> Yes, the governing body ensures regulatory compliance and takes all final decisions on the fundamental matters of the intuition 	
<ul style="list-style-type: none"> Does the regulatory compliance include demonstrating compliance with the 'not-for-profit' purpose of education institutions? (If yes, give evidence that the governing body has been directly involved) 	<ul style="list-style-type: none"> Yes 	
<ul style="list-style-type: none"> Has there been accreditation and/or external quality assurance by a national or professional body? If so, give name, current status of accreditation etc. (Provide lists of all courses which have already been accredited, all courses where an application has been made, and all courses where no such application has yet been made) 	<ul style="list-style-type: none"> To be applied 	
SUPPORTING OVERALL EVALUATION GRADE FOR 2.1.1E USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTIONS IN ANNEX 4(1)		1
Over all Evaluation Grade for Governance 2.1.1 A-E Using the 3-point grading scale and grade descriptors in Annex 4(1)		1

ANNEX4: PERFORMANCE AUDIT FORM (2.2)

COMPONENT2: IMPROVINGSYSTEMMANAGEMENT

Name of Performance Auditor: **Dr Suresh Kumar Dhameja**

Name of Institution with Location: **College of Engineering Cherthala**

Dates of Performance Audit: **December 12-14, 2014**

TABLE2.2: PROJECT MANAGEMENT, MONITORING AND EVALUATION

MONITORING AND PROJECT OUTPUT / OUTCOME PARAMETERS	SUPPORTING EVIDENCE (Note: Grades must be supported by sound evidence of achievement of the institutional development proposal goals and targets)
<p>A. Effectiveness of mentoring, reviews, surveys and audits conducted ,including:</p> <ul style="list-style-type: none"> • Increase in the achievement of the institutions goals and targets set out in the Institutional Development Proposal 	<ul style="list-style-type: none"> • The institute has achieved 80% of the stated targets of institutional development proposals including procurements. • Two PG courses as outlined in IDP have yet to be started for want of enough space. A new building block is being constructed and will be completed by March 2015. These two PG courses namely M Tech in Power Systems (Electrical Engineering), M Tech in Manufacturing Management (Mechanical Engineering) are expected to start from next academic session 2015-16. • The institute had planned for purchase of equipment worth Rs.5 crores out of which Rs.4.5 crores have been spent on the purchase of targeted equipment. The remaining amount of Rs. 50 lakhs is being used for the purchase of 20 new software packages after taking the approval of the BOG.
<p>B. Effective project management and monitoring, including:</p> <ul style="list-style-type: none"> • Precise and reliable information/ data through web based MIS available to stake holders at all time 	<ul style="list-style-type: none"> • Yes • Available on the institute's website and can be accessed by all the stake holders.
<p>C. Effectiveness of faculty evaluation by students, including:</p> <ul style="list-style-type: none"> • Percentage/increase in percentage of faculty evaluated by students in one or more subjects • Are results of evaluation properly used for teacher improvement? <p>If yes, is the procedure adopted for teacher improvement including counseling appropriate and effective?</p>	<ul style="list-style-type: none"> • All 100% <ul style="list-style-type: none"> • Yes • Faculty members getting less evaluation marks are being counselled by the HoDs and principal on regular basis and have also been sent for training, wherever required. As a result the performance of these teachers have improved.
Over all Evaluation Grade for 2.2 Using the 3-point grading scale and grade descriptors in Annex 4(1)	
1	

ANNEX4: (FEEDBACK)

PERFORMANCE AND DATA AUDIT FEEDBACK

(Feedback to the institution, state project facilitation units, the national project implementation unit / and relevant Mentor)

Name of Performance Auditor: **Dr. Suresh kumar Dhameja**

Dates of Performance Audit: **13/12/2014**

Name of Institution with Location: **College of Engineering Cherthala**

Key points feedback by the Performance Auditor to the institution at the end of the visit-against the seven aspects of evaluation

- The institute should take up the matter of pedagogical training for faculty members (basic and advanced module) with SPFU on urgent basis.
- Selection of regular faculty members against the vacancies need to be expedited.
- Institute must take up the issue of sanction of funds for construction of additional buildings, hostels and renovation of existing buildings with the Govt. of Kerala.
- The institute should get complete academic, administrative and financial autonomy as per the goal of TEQIP II.
- Industry-Institute-Interaction activities need to be strengthened and regular involvement of industry needs to be ensured.
- The placement activities for both UG and PG students need to be strengthened.
- Sponsored research and development and consultancy projects should be under taken by the faculty members for their self-improvement and enhancing IRG by the institution.
- Certain basic facilities like more number of washrooms/toilets, separate staff toilets, waiting room for girl students, all weather road connecting all buildings of the institute, canteen facilities need to be upgraded.
- The library has been equipped with adequate number of books and as per the feedback of students they are satisfied.

Key improvements noticed on short comings reported during earlier Performance Audits

- The teaching-learning process was found to be improved
- Evaluation of faculty members by students have been streamlined and necessary corrective actions are being undertaken.
- There has been improvements in the conduct of remedial classes.

Brief statements on continuing short comings, and reasons

- Industry-Institute interaction activities need further improvements
- Placement activities of UG and PG students need to be improved.
- Pedagogical training of faculty members need to be started.
- Canteen and drinking water facilities need to be improved.

Recommendations for Mentors

- To take up the issue of pedagogical training with SPFU Kerala.
- Suggest ways and means for enhanced Industry-Institute interaction.
- Improvement of placement of UG and PG students need to be given consideration.
- Exhort the faculty members to take up sponsored research and development and consultancy activities.

ANNEX4: (DATA AUDIT FORMS1-8)
DATA AUDIT FORMS

Name of the Data Auditor: **Pradeep R**

Dates of Data Audit: **11/12/2014**

Name of Institution with Location: **College of Engineering Cherthala, Alappuzha (Dist), Kerala**

DATA AUDIT FORM (1)

No.	Particulars	Figure in MIS	Year	Verified figure	Institutional data source *	Comments ^t
1	Information in respect to bachelors programmes in engineering/technology					
	a. Number of UG programmes conducted during the latest academic year	3	2014-15	3	AICTE/University affiliation letters	
	b. Total number of UG students during the latest academic year	807	2014-15	807	College Admission Register	
	c. Total number of women students in UG programmes during the latest academic year	444	2014-15	444		
	d. Total number of SC students in UG programmes during the latest academic year	44	2014-15	44		
	e. Total number of ST students in UG programmes during the latest academic year	1	2014-15	1		
	f. Total number of OBC students in UG programmes during the latest academic year	570	2014-15	570		
	g. Percentage of final year UG students during the latest academic year placed through campus interviews	15.42%	2013-14	15.42%	Placement Records	Placement activities of 2014-15 are going on
	h. Percentage of final year UG students during the latest that passed out with 75% or more aggregate marks	20.57%	2013-14	20.57%	University Result	

i. Percentage of all 1 st year students [asat1(b)] during the latest that passed all courses fully and successfully got admitted to 2 nd year in the 2012-13 academic year	32.29%	2012-13	32.29%	Examination Result of 2013-14 yet to be published by University. However all first year students will be promoted to 2 nd year as CUSAT rules. They have to clear all the subjects by 4 th semester.
j. Percentage of 1 st year women students [asat1(c)] during the latest academic year that passed all courses fully and successfully got admitted to 2 nd year in the current academic year	35.23%	2012-13	35.23%	
k. Percentage of 1 st year SC students [asat1(d)] during the latest that passed all courses fully and successfully got admitted to 2 nd year in the current academic year	0	2012-13	0	
l. Percentage of 1 st year ST students [asat1(e)] during the latest that passed all courses fully and successfully got admitted to 2 nd year in the current academic year	0	2012-13	0	
m. Percentage of 1 st year OBC students [asat1(f)] during the latest that passed all courses fully and successfully got admitted to 2 nd year in the current academic year	35.04%	2012-13	35.04%	

* This could include how the figure was calculated if appropriate.

t For example, if there are any discrepancies in the figures—the reasons, or whether information is being updated by the institution and if so, when?

DATA AUDIT FORM (2)

No.	Particulars	Figure in MIS	Year	Verified figure	Institutional data source *	Comments ^t
2	Information in respect to masters programmes in engineering/ Technology					
	a. Number of full-time Masters programmes during the latest academic year	2	2014-15	2	AICTE/University affiliation letters	
	b. Number of part-time and sandwich(Joint)Masters programmes during the latest academic year	Nil	2014-15	Nil		
	c. Total number of students enrolled for all Masters programmes during the latest academic year	96	2014-15	96	Admission Register	
	d. Number of faculty in-house enrolled for Masters programmes during the latest academic year	0	2014-15	0		
	e. Number of students enrolled for all Masters programmes during the latest academic year with scholarship	49	2014-15	49	Admission Register	GATE, SC/ST lumpsum grant etc.
	f. Number of students enrolled for all Masters programmes during the latest academic year with TEQIP assistantship	43	2014-15	43	Payment Register	
	g. Total number of women students in all Masters programmes during the latest academic year	77	2014-15	77		
	h. Total number of SC students in all Masters programmes during the latest academic year	8	2014-15	8	College Admission Register	
	i. Total number of ST students in all Masters programmes during the latest academic year	0	2014-15	0		
	j. Total number of OBC students in all Masters programmes during the latest academic year	53	2014-15	53		
	k. Percentage of final year Masters students during the latest academic year placed through campus interviews	8.33%	2014-15	8.33%	Placement Records	Placement activities of 2014-15 are going on
	l. Percentage of final year Masters students during the latest that passed out with 75% or more aggregate marks	70.82%	2013-14	70.82%		

* This could include how the figure was calculated if appropriate.

^t For example, if there are any discrepancies in the figures-the reasons, or whether information is being updated by the institution and if so, when?

DATA AUDIT FORM (3)

No.	Particulars	Figure in MIS	Year	Verified figure	Institutional data source*	Comments ^t
3	Information in respect to doctoral programmes	No PhD Programme in the Institution				
	a. Number of Doctoral candidates on rollup to November 30, 2014			NA		
	b. Number of in-house faculty enrolled for Doctoral programmes during the latest academic year			NA		
	c. Number of students enrolled for Doctoral programmes during the latest academic year with scholarship			NA		
	d. Number of students enrolled for Doctoral programmes during the latest academic year with TEQIP assistantship			NA		

DATA AUDIT FORM (4)

No.	Particulars	Figure in MIS	Year	Verified figure	Institutional data source *	Comments ¹
4	Information in respect to Faculty					
	a. Total number of regular full-time faculty excluding adjunct and emeritus faculty during the latest academic year	26	2014-15	26	Attendance Register / Salary statement	
	b. Total number of regular full-time faculty in engineering disciplines excluding adjunct and emeritus faculty during the latest academic year	23	2014-15	23		
	c. Number of regular full-time faculty in engineering disciplines with Masters degree as their highest qualification excluding adjunct and emeritus faculty during the latest academic year	13	2014-15	13		
	d. Number of regular full-time faculty in engineering disciplines with Doctoral degree as their highest qualification excluding adjunct and emeritus faculty during the latest academic year	4	2014-15	4	Degree Certificates	
	e. Number of regular full-time faculty in engineering disciplines with Bachelors degree as their highest qualification faculty during the latest academic year	6	2014-15	6		
	f. Number of faculty with Bachelors degree which are enrolled in-house for Masters programmes in parent institution during academic year the latest: (i) Engineering teachers (ii) Applied Science teachers (iii) Other teachers	0 0 0	2014-15	0 0 0		
	g. Number of faculty with Bachelors degree which are enrolled in-house for Masters programmes at other institutions during academic year the latest: (i) Engineering teachers: (ii) Applied Science teachers: (iii) Other teachers:	1 0 0	2014-15	1 0 0	Admission Letter (NIT, Calicut)	
	h. Number of faculty with Masters degree which are enrolled in-house for PhD programmes in parent institution during academic year the latest: (i) Engineering teachers (ii) Applied Science teachers (iii) Other teachers	0 0 0	2014-15	0 0 0		

i. Number of faculty with Masters degree which are enrolled in-house for PhD programmes at other institutions during academic year the latest: (i) Engineering teachers (ii) Applied Science teachers (iii) Other teachers	0 0 0	2014-15	0 0 0		2 faculties are undergoing PhD programme at CUSAT (Enrolled last year)
j. Number of faculty that have attended a professional training programme of 5 or more days duration during the latest academic year	17	2014-15	17	Course Certificates	
k. Number of all faculty(irrespective of specialization)that have attended the Basic Module of pedagogy training during the latest academic year	2	2014-15	2		2 faculties attended FDP on “Outcome Based Learning and Teaching”.
l. Number of all faculty(irrespective of specialization)that have attended both the Basic and Advanced Modules of pedagogy training during the latest academic year	0	2014-15	0		To be conducted by SPFU / NPIU
m. Number of faculty appraised by students during the latest academic year	26(100%)	2014-15	26(100%)	Student Evaluation Sheet	

* This could include how the figure was calculated if appropriate.

t For example, if there are any discrepancies in the figures–the reasons, or whether information is being updated by the institution and if so, when?

DATA AUDIT FORM (5)

No.	Particulars	Figure in MIS	Year	Verified figure	Institutional data source*	Comments ^t
5	Information in respect to Accreditation of Programmes					
	a. Number of UG programmes accredited					
	b. Number of UG programmes for which accreditation applied for	2	2013-14	2		Institution has applied for accreditation for 2 eligible programs in 2013. Fee remitted to NBA in November 2013. SAR to be uploaded by February 2015.
	c. Number of UG programmes accredited					
	d. Number of UG programmes for which accreditation applied for					

DATA AUDIT FORM (6)

No.	Particulars	Figure in MIS	Year	Verified figure	Institutional data source *	Comments ^t
6	Information in respect to research and patents					
	a. Number of research publications in Indian refereed journals during the latest academic year	0	2014-15	0		
	b. Number of research publications in International refereed journals during the latest academic year	10	2014-15	10	Int Jnls available on Internet	
	c. Number of research publications co-authored with faculty/researchers/ industry experts from outside the institution	1	2014-15	1		
	d. Number of patents in engineering related are as obtained during the latest academic year	0	2014-15	0		
	e. Number of patents in engineering related are as filed during the latest academic year	0	2014-15	0		
	f. Number of sponsored research project completed during the latest academic year	0	2014-15	0		
	g. Number of MOUs signed for collaborative programmes with Indian industry and R&D organizations	4	2014-15	4	MOUs	One MOU signed during the year and the other three signed last year having validity for 2 years.
	h. Number of MOUs signed for collaborative programmes with International academic institutions and R&D organizations	0	2014-15	0		

* This could include how the figure was calculated if appropriate.

^t For example, if there are any discrepancies in the figures—the reasons, or whether information is being updated by the institution and if so, when?

DATA AUDIT FORM (7)

No.	Particulars	Figure in MIS	Year	Verified figure	Institutional data source*	Comments [†]
7	Information in respect to finances					
	a. Amount received as Block Grant during the latest academic year (Rs.in Lakhs)	2.85cr	2014-15	2.85cr		4 th & 5 th installments of TEQIP
	b. IRG§from student's tuition fee and other charges during the latest academic year(Rs.in Lakhs)	10.76L	2014-15	10.76L		
	c. IRG from externally funded R&D projects and consultancies during the latest academic year(Rs.in Lakhs)	0	2014-15	0		2% tuition fee of the year 2014-15 - 8.11 lakhs, FDP & Conference registration charges and bank interest up to 09.12.2014
	d. Total IRG during the latest academic year(Rs.in Lakhs)	10.76L	2014-15	10.76L		
	e. Total annual recurring expenditure during the latest academic year (Rs.in Lakhs)	405.40	2013-14	405.40		2014-15 To be finalized at the end of financial year
	f. Amount available in Corpus Fund on December 9, 2014	Rs.425416/-	2014-15	Rs.425416/-	Bank Account Statement	2% students fee deposited on all four funds equally
	g. Amount available in Faculty Development Fund on December 9, 2014	Rs.234642/-	2014-15	Rs.234642/-		
	h. Amount available in Equipment Replacement Fund on December 9, 2014	Rs.234642/-	2014-15	Rs.234642/-		
	i. Amount available in Maintenance Fund on December 9, 2014	Rs.234643/-	2014-15	Rs.234643/-		

DATA AUDIT FORM (8)

No.	Particulars	Figure in MIS	Year	Verified figure	Institutional data source*	Comments [†]
8	With respect to institutional governance/management					
	a. Number of Governing Body meetings held during the latest academic year(with minutes on the web)	2	2014-15	2	BOG Minutes	
	b. Number of institutional functionaries (Deans, HoDs, senior faculty and senior officials)that have undergone Management Capacity Enhancement training	4	2014-15	4	Course Certificates	

* This could include how the figure was calculated if appropriate.

† For example, if there are any discrepancies in the figures—the reasons, or whether information is being updated by the institution and if so, when?

§ IRG is the total revenue of the institution in a year, whether retained or not

Ajay
Pradeep R.

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II (TEQIP-II)

INSTITUTION RESPONSE FORMS (1)

(To be sent from the Head of the Institution to the performance Auditor, 2 weeks before an audit visit)

PROJECT IMPLEMENTATION

No.	INSTITUTIONAL MONITORING AND PROJECT OUTPUT/OUTCOMES	RESPONSES
1.1	Briefly describe the actions taken for obtaining Autonomous Institution status, and the status of your applications as made.	<ol style="list-style-type: none">1. Applied to the University for forwarding application for autonomous status to the UGC2. University has forwarded the application to UGC and is under process at UGC.3. Applied for accreditation for the eligible UG programmes in CSE,ECE
1.2	If your institution is already an Autonomous Institution, briefly state actions taken for the following: 1. Value addition to courses as per market demand	Institution is financially autonomous and partially academic autonomous. Curriculum is framed by CUSAT and revised in every four year as per market demand. Last revision was in 2012. Principal is a member of various academic bodies in CUSAT.

	2. Improvements introduced in student evaluation	<ul style="list-style-type: none"> Formative and Summative evaluation methods have been adopted for evaluation of student. Staff Advisory system and peer groups are in place. 3 series test per semester (2 compulsory and one additional). Facility for student counseling by qualified psychologist. Remedial classes have been arranged for academically weak students. Night classes during study holidays.
	3. Addition of electives	Freedom to chose electives from the curriculum of CUSAT
	4. Carrying out teacher evaluation by students	Online teacher evaluation is conducted twice in a semester.
	5. Starting of new PG programs, as planned	Procurement of equipments and software for new PG programmes is progressing.
	6. For enhancing qualification, deputing to other institutions and/or admitting within the institution those teachers that have a Bachelors degree only	One seat in each PG Programme is reserved for faculty from IHRD.
	7. Conducting continuing education and/or skill enhancement programs for industry	Planned.
	8. Inviting experts from industry and eminent institutions for special lectures	Already 3 programs were conducted and more is planned.
1.3	The amount of financial powers assigned / delegated to the following. If no delegations has been done so far, state the proposed action for each level with the corresponding timeline:	Yes
	1. Governing Body	Above 50 lakhs
	2. Head of Institution for: (a) single purchase of equipment, and (b) recurrent expenditure	50 Lakhs
	3. Dean	As per existing staff pattern, no post of Dean at CE Cherthala.
	4. Heads of Department	1 lakh

1.4	Progress in starting new PG programs, as proposed	Procurement of equipments and software for new PG programmes is progressing.
1.5	Actions taken to fill up seats in the existing PG programs	1. All the PG seats are filled. 2. Assistantship for an amount Rs 6000 per month is given to non GATE students
1.6	Actions taken to reduce vacancies in faculty positions	Contract Faculty are appointed against the vacancies.
1.7	Status of faculty appointed on regular basis, and proposed actions to fill up all faculty positions on regular basis	Number of regular faculty: 26 Proposed Action plan to fill up faculty positions: <ul style="list-style-type: none"> IHRD had intimated that recruitment of new faculty to entry cadre and promotions of existing faculty will be effected after the staff pattern for the institution is finalized. The staff pattern has been finalized in the Governing Body of IHRD held on 9.12.2014. The recruitments, promotions and general transfer to fill vacancies is expected soon.
1.8	Progress in getting pedagogical training in both the modules	It was informed that the institute does not have to organize pedagogical training as the SPFU will organize the same. Two junior faculty, Anupama A of the EC Department and Greeshma N Gopal of the CS Department, have attended pedagogical training organized by the Department of Management, College of Engineering Trivandrum.
1.9	New Activities (since project start or the last performance audit) undertaken for enhancing interaction with industry	---

1.10	Generation, retention and utilization of the non-tuition fee revenue generated through various activities	<p>Generation: through ICIS 2014, FDPs, workshops, seminars etc. An amount of Rs. 11,29,343.00/- has been generated so far.</p> <p>Retention: The amount is retained by the institute in the four funds of TEQIP.</p> <p>Utilization: The amount shall be utilized after the project period.</p>
2.1	Progress in instituting practice of teacher evaluation by students	Two teacher evaluation/semester are being conducted. The procedure is online.
2.2	Current percentage of teachers evaluated by students in one subjects taught	100
2.3	Current percentage of teachers evaluated by students in more than one subjects taught	100
2.4	State the incentives being offered to the faculty for participation in consultancy assignments, R&D, and continuing education programs conducted by the institution for industry	<ul style="list-style-type: none"> • Since the Institute is located in remote area, some constraints are there in obtaining consultancy work. • Requests for seed money to undertake projects have been received. Will be finalized in the meeting of the RGC to be held in January 2014. • Dr Vinu Thomas is undertaking a project for Early detection of Breast Cancer using Mammograms, sponsored by the KSCSTE, Govt. of Kerala, the sanctioned fund being 11.4 lakhs. LAKESHORE Hospital Kochi is associating with the work.
3.1	Are the 4 funds established?	Yes.
3.2	If yes, what is the amount in each fund?	<p>Account is opened on 30.1.2014</p> <p>Maintenance fund: Rs.234643.00/-</p> <p>Corpus fund: Rs.425416.00/-</p> <p>Faculty Development Fund: Rs.234642.00/-</p> <p>Equipment replacement fund: Rs.234642.00/-</p>
3.3	Is the contribution to each fund as per the requirement in the PIP?	Yes.

3.4	State the quantum of financial powers delegated to: (a) Governing Body; (b) Head of Institution; (c) Deans, and (d) Heads of Departments	A)Governing Body: Above 50 lakhs B)Head of the Institution: Up to 50 Lakhs C) Dean: As per existing staff pattern, no post of Dean at CE Cherthala. D)HoD: 1 lakh
3.5	If less than those recommended in the PIP, state the reasons for the shortfall, and actions planned to comply with the project recommendations.	
4.1	Number of ongoing sponsored projects from industry	--
4.2	Number of industry awarded consultancy assignments completed	--
4.3	Number of ongoing industry awarded consultancy assignments	==
4.4	Number of organizations and industries with whom MOUs have been signed for joint R&D	3 MoUs.
5.1	List the UG programs accredited on date by name	Applied for accreditation of two eligible UG programmes.
5.2	<ul style="list-style-type: none"> State program-wise action taken to get accredited the eligible UG program that are yet to be accredited. 	<u>For CSE,ECE Programs:</u> <ul style="list-style-type: none"> Submitted the application fee Initiated steps to fill up faculty positions Construction ongoing under NABARD scheme for increasing the built up area Represented IHRD for recruitment and promotion. Proposal submitted under RUSA for improvement of Civil infrastructure and Central Computing facility. SAR to be uploaded by 3rd February 2015.

	Describe difficulties faced, if any.	<ul style="list-style-type: none"> • Shortage of Professor/Associate Professor/Assistant professor. • Lack of Hostels. •
5.3	List the PG programs accredited on date by name	No PG programme eligible for accreditation.
5.4	<ul style="list-style-type: none"> • State program-wise action taken to get accredited the eligible PG program that are yet to be accredited. • Describe difficulties faced, if any. 	NA
6.1	Give the number of papers published in national refereed journals from the date of joining the Project.	0
6.2	Give the number of papers published in Foreign refereed journals from the date of joining the Project.	22
6.3	<ul style="list-style-type: none"> • Number of patents filed since joining the Project • List the titles of patents filed since joining the Project along with names of contributors. 	NIL
6.4	<ul style="list-style-type: none"> • Number of patents obtained since joining the Project • List the titles of the patents obtained since joining the Project along with the names of contributors 	NIL
7.1	Actions being taken for identifying weak students	<ul style="list-style-type: none"> • Diagnostic test has been conducted for identifying weak students • For supplementary examination, the students those who were failed in their university examination have been identified • For Regular examination, the students those who scored less than 25 marks in their first series test have been identified
7.2	Number of students that have benefited from remedial teaching since joining the Project/ since the last performance audit	963 (Theory) + 96 (Lab) + 112 (Bridge Course)

7.3	Number of students that have benefited from specialized soft skills and professional skills training programs conducted since joining the Project/ since the last performance audit	976
7.4	Status of establishment and functioning of Finishing School	<ul style="list-style-type: none"> • Finishing school has been established. • High Intensity training programme on Java and Android was conducted, 4 students were placed following this. Invitations have been sent out through PMSS for the new HIT programme. • Employment Eligibility Test was conducted in association with Aspiring Minds, using TEQIP funds. The results have been shared with CE Cherthala, and with the participating students. • Training programmes (soft skill, tech skills, group and individual counselling, women's cell programmes) have been conducted. Total beneficiaries: 976



Dr. P Suresh Kumar
Principal

ANNEX5: INSTITUTIONAL RESPONSE FORM (2)
INSTITUTIONAL RESPONSE FORM (2)

(Engineering disciplines)

TABLE-1(A): CONSOLIDATED STATEMENT

No.		Pre-TEQIP (2011-12)			Post-TEQIP (2014-15)		
1	No. of departments	2			3		
2	Levels of programmes	B.Tech	M.Tech	Phd	B.Tech	M.Tech	Phd
	(Number of programmes)	2	1	-	3	2	-
3	Collaboration with industry (number of MoUs signed)	Nil			3		

TABLE-1(B): DETAILS OF STUDENT ENROLMENT

No.	Name of the department		Pre-TEQIP (2011-12)			Post-TEQIP (2014-15)			Increase in percentage
			B.Tech	M.Tech	Phd	B.Tech	M.Tech	Phd	
1	ECE	No. of fresh students admitted in the institute	92	18	NA	91	24	NA	
2	CSE	No. of fresh students admitted in the institute	73	NA	NA	72	24	NA	
3	EEE	No. of fresh students admitted in the institute	NA	NA	NA	57	NA	NA	

TABLE1 (C): FACULTY DETAILS

No.	Name of the department		Pre-TEQIP (2011-12)			Post-TEQIP (2014-15)			Increase in percentage B.Tech. M.Tech.	Total
			B.Tech	M.Tech	Phd	B.Tech	M.Tech	Phd		
1	ECE	No. of faculty having highest qualification								
		Regular	2	3	1	4	3	4		
		Contractual	9	0	0	0	13	0		
		Total	11	3	1	4	16	4		
2	CSE	Regular	6	1	0	2	5	0		
		Contractual	6	0	0	0	12	0		
		Total	12	1	0	2	17	0		
3	EEE	Regular	0	1	0	0	2	0		
		Contractual	2	0	0	0	3	0		
		Total	2	1	0	0	5	0		
4	GENERAL	Regular	0	3	0	0	3	0		
		Contractual	1	0	0	0	2	0		
		Total	1	3	0	0	5	0		
5	APPLIED SCIENCE	Regular	0	3	0	0	3	0		
		Contractual	0	4	0	0	4	0		
		Total	0	7	0	0	7	0		

TABLE1 (D): COLLABORATION WITH INDUSTRY

No.	Name of the department / institute	Name of the industry with whom MoU signed	
		Pre-TEQIP (2011-12)	Post-TEQIP (2014-15)
1	Electronics and communication department	Nil	1. Walrus marine Engg. Co. Pvt ltd
2	Computer science		1. Cyber Prism Pvt. Ltd. 2. Kites Software Pvt. Ltd.

TABLE2: SUMMARY SHEET FOR REVIEW

Name of NPIU Official: **Dr Suresh Kumar Dhameja**

Name of Institute: **College of Engineering Cherthala**

Category of Institute: **Government**

Sub-component: 1.1

	Strategy/Activities	Indicators	Institutional 1 Baseline (Pre-TEQIP) in 2011-12	Proposed Target for 2 years(31 st Dec 2014)		Proposed Budget Estimate		Status due to input of TEQIP as on 31 st Oct 2014		Outcome against Goals (TEQIP)	Remarks
			Physical (No.*/%age)	Institutional	TEQIP	Institutional	TEQIP	Physical	Financial		
				(No.*/%age)	(No.*/%age)						
A	Goal: Improve Quality of Education in Selected Institutions										
A.1	Student										
A.1.1	Improvement in Students Knowledge and Skills	Percentage of female students against total engineering students in all years									
	•Diagnostic test	•Undergraduates	53.77 %	60 %	60 %				55.02 %		
		• Postgraduates	44.44 %	60 %	60 %				80.21 %		
A.1.2	•Remedial teaching •E-enabled learning •Research projects at UG levels •Assistantships	Students transition rate (percentage) from first year to second year of UG programmes(clearing all subjects/courses of 1st year in first attempt)	44 %	60 %	60 %				32.29 % (2012-13)		Examination Result of 2013-14 yet to be published by University. However all first year students will be promoted to 2 nd year as CUSAT rules. They have to clear all the subjects by 4 th semester.

A.1.3		Average scores(%/CGPA) at degree completion									
		•Undergraduates	65					71.3%			
		•Postgraduates	-					8.82			
A.1.4		No. of students enrolled in MTech programmes	18	48	48			48			
A.1.5		No. of students registered in PhD programmes in engineering	Institution is not a research centre	NA	NA	NA	NA	NA	NA	NA	
A.1.6		No. of Masters students enrolled with TEQIP teaching assistantship	Nil					43	26.07		
A.1.7		No. of PhD students enrolled with TEQIP research assistantship	Institution is not a research centre	NA	NA	NA	NA	NA	NA	NA	
A.1.8		No. of Research projects taken by UG students	Nil					Nil			
A.1.9		Any other									

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2011-12	Proposed Targetfor2 years(31stDec2014)		Proposed Budget Estimate		Status due to input of TEQIP as on 31stOct2014		Outcome against Goals (TEQIP)	Remarks
			Physical (No.*/ %age)	Institutional (No.*/ %age)	TEQIP (No.*/ %age)	Institutional (Rs. Lakh)	TEQIP (Rs. Lakh)	Physical (No.*/ %age)	Financial (Rs. Lakh)		
A.2	Faculty										
A.2.1	Capacity Development of Faculty •Recruitment of faculty •Subject Domain training •Qualification	%age of faculty positions filled-in(as per AICTEI MHRD required Teacher-Student ratio): •Regular •Regular + Contract	42.59 % 83.33 %	40 % 97 %	40 % 97 %			35.14% 81.08%			
A.2.2	up gradation •Pedagogical Training •E-enabled training	%age of Faculty with B.Tech enrolled for M.Tech against total B.Tech faculty	12.5 %	50 %	50 %			33.33 %			
A.2.3	•Management development training •Continuing Education Programme	%age of Faculty with M.Tech enrolled for PhD in engineering against total MTech faculty	12.5 %	20 %	20 %			15.38 %			

A.2.4		%age of regular faculty with Masters degree in engineering against total engineering faculty	21 %	41 %	41 %			56.52 %			
A.2.5		%age of regular faculty with PhD degree in engineering against total engineering faculty	2.7 %	13 %	13 %			17.39 %			
A.2.6		Number of faculty members attended training in subject domain	Nil	48	48	20	20	47	30.1		
A.2.7		Number of faculty members attended management development training	Nil	10	10	10	10	10	1.78		
A.2.8		Number of faculty members attended pedagogical training	Nil	50	50	10	10	2			2 faculties attended FDP on “Outcome Based Learning and Teaching”. To be conducted by SPFU/NPIU
A.2.9		Any other									

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2011-12	Proposed Target for 2 years (31stDec2014)		Proposed Budget Estimate		Status due to input of TEQIP as on 31 st Oct 2014		Outcome against Goals (TEQIP)	Remarks
			Physical (No.*/%age)	Institutional	TEQIP	Institutiona (Rs. Lakh)	TEQIP (Rs. Lakh)	Physical (No.*/%age)	Financial (Rs. Lakh)		
				(No.*/%age)	(No.*/%age)						
A.3	Institutional Reforms										
A.3.1	Set of Reforms •Academic reforms •Non-academic reforms •Enhance interaction with industry	%age of NBA accredited UG &PG programmes including Applied- For cases, against total eligible programmes	0	100 %	100 %	10	10	2	8.99		Institution has applied for accreditation for 2 eligible programs in 2013. Fee remitted to NBA in November 2013. SAR to be uploaded by February 2015.

A.3.2	Autonomous institution status concurred by UGC (Yes/No/Applied For)	Non Autonomous	NA	NA				Applied to the University for forwarding application for autonomous status to the UGC University has forwarded the application to UGC and is under process at UGC.			
A.3.3	No. of academic programmes i.e. M.Tech / PhD etc. with industry	NA	NA	NA	NA	NA					
A.3.4	No. of short term programmes with industry	NIL	4	4	1	0.25					
A.3.5	Academic networking with other institutions(No.)	NIL									
A.3.6	ICT(Information communication Technology) enabled learning (No. of programmes/courses)	NIL			20	20		27.31			
A.3.7	Curricular revised/ restructured(No.)	Curriculum is framed by CUSAT and revised in every four year as per market demand. Last revision was in 2012. Principal is a member of various academic bodies in CUSAT.									

A.3.8		Total IRG	304						10.67		2% tuition fee of the year 2014-15 - 8.11 lakhs, FDP & Conference registration charges and bank interest up to 09.12.2014
A.3.9		%age revenue from externally funded R&D projects and consultancies in total revenue									
A.3.10		IRG as %age of annual recurring expenditure	312						405.40 (2013-14)		2014-15 To be finalized at the end of financial year
A.3.11		Any other									

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2011-12	Proposed Target for 2 years (31 st Dec 2014)		Proposed Budget Estimate		Status due to input of TEQIP as on 31 st Oct 2014		Outcome against Goals (TEQIP)	Remarks	
			Physical (No.*!/%age)	Institutional	TEQIP	Institutional	TEQIP	Physical (No.*!/%age)	Financial (Rs. Lakh)			
				(No.*!/%age)	(No.*!/%age)							(Rs. Lakh)
B	Enhance Access to Knowledge Resources											
B.1	Improvement in Teaching, Training and Learning facilities <ul style="list-style-type: none"> •New PG programmes • Updation of learning resources •Equipment details •Modernization of Labs and class rooms 	Laboratories: <ul style="list-style-type: none"> •New laboratory(Nos.) for new PG programmes •New laboratory (Nos.) for existing PG programs •Existing laboratory (Nos.)modernized 	NA					NA				
			1	10	10	150	150	8	16.15	206.91		
B.2			Library <ul style="list-style-type: none"> •Books(print)(Nos.) •e-books(Nos.) •Journals(print)(Nos.) •e-journals(Nos.) •Course specific softwares (Nos.) 	6426	980(17%)	4683(83%)	3.07577	18.21162	12088	18.21		
				(G)	33	33	0.92816	1299014	33	0.75		
				20		750			488	11.22		
B.3		Membership of online										
		1.No.ofjournals	1	6	6	11.00166	10.54563	4				
		2.No.ofconsortium										
B.4		No. of digitally/virtually accessible courses/										
B.5		Any other										

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2011-12	Proposed Target for 2 years (31 st Dec 2014)		Proposed Budget Estimate		Status due to input of TEQIP as on 31 st Oct 2014		Outcome against Goals (TEQIP)	Remarks
			Physical (No.*I% age)	Institutional	TEQIP	Institutional	TEQIP	Physical (No.*I% age)	Financial (Rs. Lakh)		
				(No.*I% age)	(No.*I% age)	(Rs. Lakh)	(Rs. Lakh)				
C	Enhancement of Research and Development Activities										
C.1	Promoting R&D culture in the Institution •Modern R&D equipment •Conferences / Workshops organized •Conferences / Workshops attended	No. of research publications in refereed journals: •National journals •International journals	0 8			20	20	0 0			
C.2		No. of Books published	Nil					Nil			
C.3		No. of Patents obtained / filed	Nil					Nil			
C.4		Any other									

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2011-12	Proposed Target for 2 years (31 st Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on 31stOct2014		Outcome against Goals (TEQIP)	Remarks	
			Physical (No.*I %age)	Institutional (No.*I %age)	TEQIP (No.*I %age)	Institutional (Rs. Lakh)	TEQIP (Rs. Lakh)	Physical (No.*I %age)	Financial (Rs. Lakh)			
D	Improve Employability of Graduates											
D.1	Improving competencies of graduates •Industrial collaboration •Finishing School •Industrial training	Campus placement percentage: •Undergraduates • Postgraduates	25.17 %	60	60	10	10	15.42 %			Placement activities of 2014-15 are going on	
			NA	20	20			8.33%				
D.2		Average annual salary (Rs. Lakh)of: •Undergraduates • Postgraduates	2.5 /year					3.0/year				
			NA					3.0/year				
D.3		Share of UG students attended industrial internship(percentage)	0					23.17				
D.4		Any other										

TABLE-3: INSTITUTIONAL PROJECT BUDGET

TEQIP Funds Received (Installment):1st/2nd/3rd/4th/5th

1st Installment: Amount Rs. 100 Lakhs	Date: 18/04/2013
2nd Installment: Amount Rs.150 Lakhs	Date: 12/10/2013
3rd Installment: Amount Rs. 50 Lakhs	Date: 07/01/2014
4th Installment: Amount Rs .250 Lakhs	Date: 06/08/2014
5th Installment: Amount Rs. 35 Lakhs	Date: 13/11/2014

Total Funds Received: Rs.585 Lakhs

Sl No.	Activities	Project life allocation	Expenditure in Financial Year			
			2011-12	2012-13	2013-14	2014-15
1	Improvements for teaching, training and learning facilities through:					
	a. Starting new PG programmes	44.14				
	b. Modernization and strengthening of laboratories ⁺	221.3			1,03,30,625.00	1,97,64,930.00
	c. Establishment of new laboratories for existing UG and PG programmes and for new PG programmes	66.75				
	d. Modernization of classrooms ⁺	9.3				
	e. Updating of Learning Resources	49.5				
	f. Procurement of furniture	26.7			24,08,061.00	17,04,905.00
	g. Establishment/Upgrading of Central and Departmental Computer Centers ⁺	50.0				
	h. Modernization/improvements of supporting departments ⁺	1.5				

	i. Modernization and strengthening of libraries and increasing access to knowledge resources	30.8			69,61,615.00	19,33,278.00
	j. Minor Civil Works	50			13,07,883.00	34,77,832.00
2	Providing Teaching and Research Assistantships to increase enrolment in existing and new PG programmes in Engineering disciplines	60			13,63,938.00	12,43,176.00
3	Enhancement of R&D and institutional consultancy activities	30				
4	Faculty and Staff Development (including faculty qualification upgradation, pedagogical training, and organizing /participation of faculty in workshops, seminars and conferences)for improved competence	140			16,76,938.00	16,89,077.00
5	Enhanced Interaction with Industry	20			1,14,537.00	
6	Institutional Management Capacity enhancement	30			1,65,898.00	11,728.00
7	Implementation of institutional academic reforms	10			1,12,360.00	7,86,520.00
8	Academic support for weak students	60			5,28,615.00	1,83,835.00
9	Incremental Operating Cost	100			15,17,783.00	6,31,182.00
Total		1000			2,64,88,253.00	3,14,26,463.00

*Refer IDP +Not applicable for Institutions participating under Sub-component 1.2.








Note: Procurement of equipment, minor civil works, furniture etc. is not allowed for Private unaided Institutions. Not Applicable (NA) can be mention if appropriate.

Interaction with TEQIP Cell.

COLLEGE OF ENGINEERING CHERTHALA ATTENDANCE STATEMENT OF FACULTY MEMBERS

EVENT: meeting with the TEQIP Project Auditor and Data Auditor

Date and Time :13.12.2014 Venue : Seminar Hall

Sl.No.	Name of Faculty	Department	Designation	Signature
1	Ishad Ali T.K	Electronics	M&E co-ordinator	
2	Jayadasan	"	FC&BTD Co	
3	Dr. Ashok Kumar	Applied Science	Civil Engineer	
4	Dr. Ashok Kumar	ECE	Assoc. Prof.	
5	Devanarand C.N.	General Dept	H.O.D. General Dept	
6	Sreekumar K.	Electronics	III C co-ordinator	
7	Sanku K.	Applied Science	EAP co-ordinator	
8	Preethi N. Gopal	Placement	Placement	
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Attendance Statement
UG Student Interaction with the Performance Auditor

Sl No	Name	Branch	Semester	Signature
1	Ajmal T.H	EC	S4	
2	ARAVIND SANKAR	EE	S4	
3	Aditya P Kamath	CS	S4	
4	A Remyth Krishnan	EE	S4	
5	Vishnu Bose	CS	S4	
6	Aji Vijayan	EE	S4	
7	Jismal Jamel	EC	S4	
8	sebastian T J	CS	S8	
9	Ebin Xavier	CS	S8	
10	Unnikuttan M	CS	S8	
11	Arshad K-J	EC	S8	
12	DEVADAS DOMINI	EC	S8	
13	YADHU KRISHNAN	EC	S8	
14	Muhammed Salman	EE	S1, S2	
15	Vishnu Das A	EE	S1, S2	
16	AKHIL V/A	EC	S6	
17	Anand S	EC	S6	
18	ARUN. C. BOSE	CS	S6	
19	Sivanand D	CS	S6	
20	Sreejith Kanthukayan	CS	S8	
21	Nijil M	EC	S8	
22	Gishnu Thampom	EC	S8	
23	Srivarasad R	CS	S1, S2	
24	Sinto V. Joseph	C/S	S1, S2	
25	HRISHI RAT	EC	S1, S2	
26	Ajay. p. Victor	CS	S1, S2	
27	Sreerag. H	EC	S4	
28	Mohammed Aboo Salih	EC	S1, S2	
29	ANANDU KRISHNAN	EC	S1, S2	
30	Sasath Chandson P	EC	S1, S2	
31	Abhyith Ajit Kumari	CS B	S6	
32	SUDEESH V	CS B	S6	
33	Bibin Raj. B.S	CS B	S6	
34	Vishnu. C	SECB	S6	
35	Vignesh Hazi	EEE	S6	

36	KIRAN.K.S	EEE	56	Yip.
37	SUNIL.K.V	CS	54	ed.
38	Ajithprasad Devedik	CS	54	Jaini
39	Robin Roy	CS	54	st
40	VISHNU THANKAPPAN	EC	56	st
41	Maneeb Mohan	EC	56	st
42	Roshna P Roy	EC	56	Roshna
43	Keerthi Krishna R	EC	56	st
44	Adisha Pradeep	EEE	56	Adisha
45	ANISHA.A.S	EEC	56	st
46	Angelina Nina	EEE	56	Angelina
47	Ananya Gangadharan	CS	54	st
48	Indulika	CS	54	Indulika
49	Alisha Rose Jose	CS	54	st
50	Barera A	EC	58	Barera
51	Baniya.K.A	EC	58	st
52	Keerthi Venudev	CS	54	Keerthi
53	Keerthana Shanty	CS	54	Keerthana
54	Sheetal.K.S	CS	54	Sheetal
55	Reshma.P.R	EC	58	Reshma
56	Anjali Sukumaran	EC	58	Anjali
57	Rakhi.R. Pai	EC	56	Rakhi
58	Zareekshmi.S.Nair	EC	56	Zareekshmi
59	Melin	EC	56	Melin
60	Niritha K. Balan	EEE	51	Niritha
61	Aarika.V.P	EEG	51	Aarika
62	Rubeena Azeez.A	ECE	58	Rubeena
63	Aasiba Taleel	ECE	58	Aasiba
64	Josemary	CS	58	Josemary
65	Chinchi	CS	51	Chinchi
66	Midhuna	"	"	Midhuna
67	Arya K Jayachandran	CS	58	Arya
68	Biyathize Neethan.P.L	CS	58	Biyathize
69	Zalax mol Koshy	CS	58	Zalax
70	Sonu Thomas	EC	52	Sonu
71	Sowpaenika K.S	EC	52	Sowpaenika
72	Ayala Anandh	CS	52	Ayala
73	Shakanaadha	CS	52	Shakanaadha

74	Venna R	CS	S2	Venna
75	Amey B	EC	S2	Amey B
76	Alhiza Sathou	CS	S2	Alhiza
77	Arya KD	IB	S4	Arya KD
78	Krishna Venugopal	IE	S4	Krishna
79	Rohania Narshad	EC	S4	Rohania
80	Fayida Majeed	EC	S4	Fayida
81	Betsy Antony	EC	S4	Betsy
82	Poonitha	EC	S4	Poonitha
83	Nidha kabees	EC	S4	Nidha
84	Tarab Fathima	EC	S4	Tarab
85	Aiswarya - S. Pai	EC	S4	Aiswarya
86	Neha Joy	EC	S4	Neha
87	Telin Tom	CS	S6	Telin
88	Soumya V	CS	S6	Soumya
89	Akhila S	CS	S6	Akhila
90	Ganga Sreekumar	CS	S6	Ganga
91	Swathi Suresh	CS	S6	Swathi
92	Neenu Pennas	EE	S2	Neenu
93	Roshni Suresh	CS	S2	Roshni
94	Akhila Kodere	CS		
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Attendants Statement

PG Student Interaction with the Performance Auditor

Sl.No.	Name	Branch	Semester	Signature
1	NARENDRAMUDRANG	SP	S1	Narendramudrang
2	JEFFY JOSE	SP	S1	Jeffy Jose
3	ASWATHI MURALEEDHARAN	SP	S1	Aswathi
4	Athisa P	SP	S1	Athisa P
5	Namitha N	SP	S1	Namitha N
6	Greethy Ann Babu	SP	S1	Greethy
7	Neethu K.C	SP	S1	Neethu
8	Shifana M. Sherief	SP	S1	Shifana
9	Anju Jose Tom	SP	S1	Anju
10	Bency Mohan	SP	S1	Bency Mohan
11	Aswathy T.A	SP	S1	Aswathy
12	Suzumy Bacter	SP	S1	Suzumy
13	Reeju Varghese	SP	S1	Reeju
14	Ranya Rajasekhasan	SP	S1	Ranya
15	Muneet T	SP	S1	Muneet
16	Aiswarya Suresh	SP	S1	Aiswarya
17	RITHU C.S	SP	S1	Rithu
18	Aswathy N.H	SP	S1	Aswathy
19	Sreya P	SP	S1	Sreya
20	Febin P. Abn.	SP	S4	Febin
21	Aith A.G	SP	S4	Aith
22	Joseph Thomas	SP	S4	Joseph
23	Vishnuld N.B	SP	S1	Vishnuld
24	Nithin Kuniakose	SP	S1	Nithin
25	Mahesh M	SP	S1	Mahesh
26	Shelina A.V	SP	S1	Shelina
27	JINO LANRANCE	SP	S4	Jino
28	ATAN MANOHAR	SP	S4	Atan
29	Jayakrishnan R	CIS	S3	Jayakrishnan
30	Baijith Jacob	CIS	S4	Baijith
31	Chandray J	CIS	S4	Chandray
32	Rajeswary R	CIS	S4	Rajeswary
33	Nemisha M	CIS	S4	Nemisha
34	Aswathy Rappan	CIS	S4	Aswathy
35	Chintan Rajmohan	CIS	S4	Chintan
36	Sharmi S	CIS	S4	Sharmi
37	Reshma N.S	CIS	S1	Reshma
38	Kanya Kishore	CIS	S1	Kanya
39	Thara Raveendran	CIS	S1	Thara
40	Anju S. Antony	CIS	S1	Anju
41	Harsha A	CIS	S1	Harsha
42	Surya muralidharan	CIS	S1	Surya
43	Aghni John	CIS	S1	Aghni
44	NIDHINA T.R	CIS	S1	Nidhina
45	Reshma S Babu	CIS	S1	Reshma
46	Jincy Mol George	CIS	S1	Jincy

47	Amyaly Mahan	CIS	S1	Any
48	Susanto Sebastian	SP 3	S3	SP 3
49	JAYASEKA J. DAS	"	"	SP 3
50	SRUTHI ANI R	"	"	SP 3
51	PAYANA P. BABU	"	"	SP 3
52	Rabina P	CIS	"	SP 3
53	Ajeeta S. Anis	"	S3	SP 3
54	Kema M.K	"	"	SP 3
55	Roshni K.R.	"	"	SP 3
56	Sheetal C.R.	"	S3	SP 3
57	Ilena Arayan	"	S3	SP 3
58	Ann Soelompok	"	S3	SP 3
59	Shaemi S	"	S3	SP 3
60	Suchidha V	SP	S3	SP 3
61	Chinela Thomas	"	"	SP 3
62	Annu Nay MD	"	"	SP 3
63	Regi Ruyin	"	"	SP 3
64	Tiffy Joseph	CIS	S1	SP 3
65	Lakshmi G	"	S1	SP 3
66	Aparna P	"	S1	SP 3
67	Ala S Babu	"	"	SP 3
68	Anjita Antony	"	"	SP 3
69	Aishwarya Raj	"	"	SP 3
70	Ranjith S.R	"	S3	SP 3
71	BASIMA CT	"	S1	SP 3
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College of Engineering Cherthala

Attendance Statement Faculty Interaction with the Performance Auditor

SI No	Name	Department	Designation	Signature
1	Elizwa Laiju	ECE	Asst. Professor	[Signature]
2	Veena Mathew	EEE	Asst. Professor	[Signature]
3	SONY.P.	CSE	Asst. Professor	[Signature]
4	Greeshma N. Gopal	CSE	Asst. Professor	[Signature]
5	Anjali.R	ECE	Asst. Professor	[Signature]
6	Arunpama.A	ECE	"	[Signature]
7	LAKSHMI SARDHARANU NAIR	ECE	Asst. Prof	[Signature]
8	Deorja M.D	ECE	Asst. Prof	[Signature]
9	Fathima.N	CSE	Asst. Prof	[Signature]
10	Aswathy.V.Shaji	CSE	Asst. Prof	[Signature]
11	Radha Balakrishnan	Applied Scien	Asst. Prof	[Signature]
12	Sandhya.P. Gopet	Mech Engg	Asst. Prof.	[Signature]
13	Joyce Jose	CSE	Asst. Professor	[Signature]
14	Asha Thomas	CSE	Asst. Professor	[Signature]
15	Jesna Jose	CSE	Asst. Professor	[Signature]
16	Adusa.S. Kunnas	CSE	Asst. Professor	[Signature]
17	Anaswara.V.Nath	ECE	Asst. Professor	[Signature]
18	Rijimol Mathew	ECE	Asst. professor	[Signature]
19	sheeba P.S	Applied Science	Asst. professor	[Signature]
20	Suman Elizabeth Danul	CSE	Asst. Professor	[Signature]
21	Rohini.T.M	CSE	Asst. Professor	[Signature]
22	Sreedhu T.Sasi	ECE	Asst. Professor	[Signature]
23	Jaymon Emmanuel	EEE	Asst. Professor	[Signature]
24	Dr. Ashok Kumar.T	ECE	Assoc. Prof.	[Signature]
25	Muhammad Ilyas.H	CSE	Asst. prof.	[Signature]
26	ATAY NATH S.A	ECE	Asst. prof	[Signature]
27	Bramod Mathew Jacob	CSE	Asst. Prof	[Signature]
28	Prabach Sam Thomas	ME	Asst. Prof	[Signature]
29	Jaffir Antonio	ECE	Asst. Prof	[Signature]
30	Nichin.K.	EC	Asst. Prof	[Signature]
31	Lomin JOY V	CSE	Asst. Prof	[Signature]
32	Vishnu Pradeep K	ECE	Asst. Prof	[Signature]
33	Sreelakshmi K.	ECE	Asst. Prof.	[Signature]
34	Ishad Ali T.S	ECE	Asst. Prof.	[Signature]
35	Pragathi T.N	Applied Scien	Asst. Prof	[Signature]
36	Teffi Francis	ECE	Asst. Prof	[Signature]
37	Fathima Mathew	CSE	Asst. Prof	[Signature]
38	Ashitha.Zi	ECE	"	[Signature]
39	Abdulkaseem V	"	"	[Signature]
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College of Engineering Cheethala







Attendance Statement Staff Interaction with the Performance Auditor

Sl No	Name	Department	Designation	Signature
1	Deekshmi V. R	Electronics	Demonstrator	
2	Bhavana Mohan	Comp. Science	System Analyst	R. Be.../d
3	Ancy Paul	Library	Librarian	
4	Seentamol P.M.	"	Librarian	
5	Reshakuman R	office	SoA	Reshak
6	Asha Madhavan-s	office	Head clerk	Asha
7	Anitha Soman	Electrical	Technician Gr II	Anitha
8	Radhakrishnan N S	Mechanical	Foreman (Mech)	
9	Jithin - T	Electronics	Technician Gr II	
10	Amaldev G	Electrical	Workshop Assisist	Amaldev
11	Lijeesh. P G	Computer Science	Computer programmer	Lijeesh
12	PRASANTH C.R.	"	w/s Assistant	Prasanth
13	RAJESH. C. S	office	SoA	Rajesh
14	RAJESH. N. A	Administration	Js. supdt.	Rajesh
15	Abdul Jaleel	Electronics	W/S Assistant	
16	Jayalaxhman. C.	Electronics	w/s Assistant	
17	George. C. Karamel	Electronics	Technical Asst II	
18	SUNDARESAN. V L	Mechanical	Tech. Gr. I	
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COLLEGE OF ENGINEERING CHERTHALA

ATTENDANCE STATEMENT

EVENT: meeting with the TEQIP Project Auditor and Data Auditor

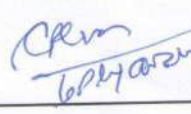


Sl.No.	Name	Department	Designation	Signature
1	Dr. Jobymol Jacob	Electrical & Electron	HOD	
2	Sara Kuttu K. J	Applied Science	HOD	
3	Devanand .C.N.	General dept	H.O.D	
4	Pradheep M.	Electronics	Ass. prof	
5	Manojkumar D L	Computer Science	HOD	
6	Jayakumar G	Electronics	HOD	
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College of Engineering Cherthala

Attendance Statement

Interaction of BOG with the Performance Auditor

Date: 13.12.2014

Sl No	Name	Branch	Signature
1	Dr C P Girijavallabhan	Chairman	
2	Prof Manilal D L	Institutional member	
3	Prof. Pradeep M	Institutional member	

II. PERFORMANCE AUDIT- CE CHERTHALA

College of Engineering Chertala
Pallippuram



Preamble

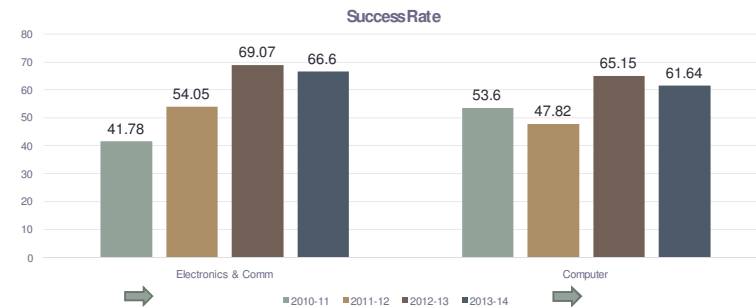
- This power point presentation contains slides showing the improvement in
 - student performance
 - faculty contributions
 - facilities and technical support
 - academic support units and teaching learning process
 - Governance, Institutional Support and Financial Resources of Participating Institutions of TEQIP-II
 during the project period.
- The above parameters are selected from Evaluation Guidelines of National Board of Accreditation for UG programs-Tier-II.

TEQIP CELL

- Dr P Suresh Kumar : Principal
- Dr Vinu Thomas : TEQIP Coordinator
- Prof. Manilal D L : Procurement Coordinator
- Prof. Jayadas C K : Finance Coordinator, R& D Coordinator
- Dr Jobymol Jacob : Academic Coordinator
- Sri Irshad Ali T K : M& E Coordinator
- Prof. Sarakutty K J : EAP Coordinator
- Prof. Priyakumar T N : Civil works Coordinator
- Sri Sreekumar K : IIC Coordinator
- Smt Greeshma N Gopal : Finishing School Coordinator, Placement Cell In Charge

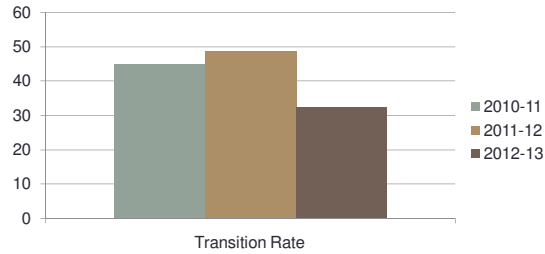
Students' Success rate

(No. of students who cleared the programme in the stipulated period of course duration) / (No. of students admitted in the first year and students admitted in that batch via lateral entry)



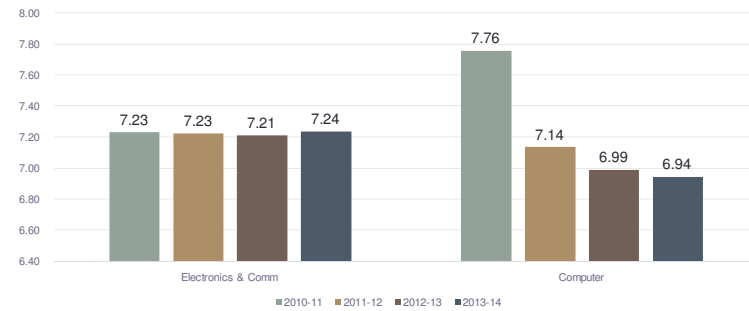
Student Transition Rate (1 year)

2010-11	2011-12	2012-13
44.87	48.78	32.39



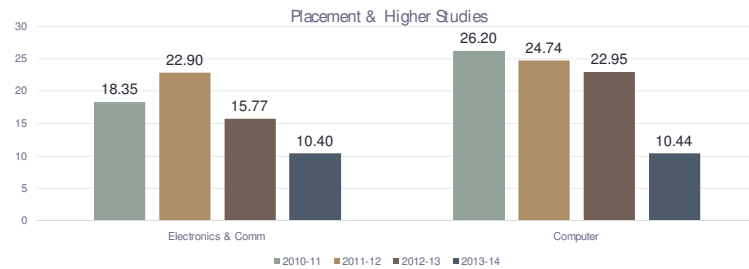
Academic Performance Index

(Mean of CGPA of all the students on a 10-point CGPA system OR (Mean of the percentage of marks of all students/10)



Placement & Higher Studies

(Assessment = $30 \times (x + 1.25y) / N$, where x=No. of students placed, y=No. of students admitted for higher studies with valid qualifying scores/ranks and N=No. of students who were admitted in the batch including lateral entry subject to max. assessment points=30. Percentage of student to be considered based on first year and lateral entry)



Faculty Position

The following Faculty has joined College of Engineering Chertala since the last Performance Audit:

- Sri Jayadas C K, Associate Professor, HOD Electronics & Communication
- Smt Remya S Asst. Professor in Electronics Engineering
- Smt Anupama A, Asst. Professor in Electronics Engineering

The following Faculty has re-joined College of Engineering Chertala after leave:

- Dr Ashok Kumar T, Associate Professor in Electronics Engineering

Faculty Position

No.	Name of the department	Highest Qualification :->	Pre-TEQIP (2011-12)			Post-TEQIP (2014-15)		
			B.Tech	M.Tech	Phd	B.Tech	M.Tech	Phd
1	ECE	Regular	2	3	1	4	3	4
		Contractual	9	0	0	0	13	0
		Total	11	3	1	4	16	4
2	CSE	Regular	6	1	0	2	5	0
		Contractual	6	0	0	0	12	0
		Total	12	1	0	2	17	0
3	EEE	Regular	0	1	0	0	2	0
		Contractual	2	0	0	0	3	0
		Total	2	1	0	0	5	0

Faculty Position

No.	Name of the department	Highest Qualification :->	Pre-TEQIP (2011-12)			Post-TEQIP (2014-15)		
			B.Tech	M.Tech/M.Sc.M. Phil	Phd	B.Tech	M.Tech	Phd
1	Gen. Engg	Regular	0	3	0	0	3	0
		Contractual	1	0	0	0	2	0
		Total	1	3	0	0	5	0
2	Applied Science	Regular	0	3	0	0	3	0
		Contractual	0	4	0	0	4	0
		Total	0	7	0	7	0	0

Professional Societies

CSI

- 4 Faculty members, 75 student members
- **2010-11**
 - **August** : Technical Quiz
 - **September** : *Hacksec* - Workshop on *ethical hacking* by *TechDefence*
 - **October** : Initiated in organizing events like *CodeDebugging*, *Gaming*, *Virus Programming* etc for ZEALOUS 2K10, inter-college tech-fest conducted by the college.
 - **November** : Paper presentation training.
 - **December-March** : Remedial class on *C programming* for first year students.

Professional Societies ..Cont'd

CSI

- **2011-2012:-**
 - **October** : Technical Quiz - *Zest 2010*
 - **November** : Android Workshop
 - **January - February** : Remedial class in *Basic C* for first years.
- **2012-2013:-**
 - **August** : 1) Workshop on Computer Assembling, 2) Web-designing workshop by Jishnu V - Assistant Prof. CE, Chertala.
 - **September** : Python workshop by Prof Cijesh - Dept of Computer Science and Engineering, CU SAT.
 - **October** : Technical Quiz - *EPISTIMY*
 - **January - March** : Remedial class on *basic C* for 1st year students.
 - **February** : Rally coding competition
 - **2014 July** : Organized ICIS14 - International Conference on Information Science under TEQIP III in collaboration with CSI

ACM

- 3 Faculty members, 5 student members
- **July 2014** : Arranged a keynotetalk by Dr. Sandeep Shukla Virginia Tech Arlington Research Centre, USA under the Distinguished Speakers program by ACM

ISTE

- 10 faculty members

Publications by Students - EC

No	PAPER	JOURNAL	ISSUE	AUTHORS
1	"Directional steering of audio signal using parametric array in air"	International Journal of Engineering Research and technology (IJERT)	Vol. 3 Issue 1, January - 2014	Sreedhu T Sasi Anaswara V Nath Archana V R
2	"Digital Face recognition technique for matching with sketches"	International Organization of Scientific Research	Volume 9, Issue 2, (Mar - Apr. 2014),	Surya Raj, Navya Jose
3	"A new transform for irregular ROI coding of two dimensional image"	International Organization of Scientific Research	Volume 9, Issue 2, (Mar - Apr. 2014)	Anaswara V. Nath, Archana V. R., Sreedhu T. Sasi,
4	"Change detection algorithm in multitemporal images"	International Journal of Engineering Research and technology (IJERT)	October 2013	Prasanth C. R

Publications by Students EC

No	PAPER	JOURNAL	ISSUE	AUTHORS
5	"Contrast Enhancement for Remote Sensing Images using Discrete Wavelet Transform, Brightness Level Analysis and Lapped Transform"	International Journal of Engineering Research & Technology (IJERT)	Vol. 3 Issue 3, March - 2014	Anaswara V. Nath, Prasanth C R, Sreedhu. T. Sasi
6	"Study of H.264/Avc Algorithm and It's Implementation In Matlab "	IOSR Journal of VLSI and Signal Processing (IOSR-JVSP)	Volume X, Issue X, Ver. I (Jan. 2014)	Prasanth C. R, Lekshmi P.R, Shanti K.P
7	Study of Various Histogram Equalization Techniques	IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)	Volume 8, Issue 1 (Sep - Oct. 2013),	Prasanth C. R
8	"Matrix Based Ramanujan Sums Transforms for image coding"	ICIS 14	July 2014	Anaswara V. Nath, Archana V. R

Publications by Students - CS

No	Student Name	Title	Batch	ISBN	Month & Yr	Conference
1	Baby C J	Anaphora resolution in Malayalam using machine learning approach	CSIS 2012-14	ISBN 978-93-80095-46-2	Feb-14	NCRTKM - 2014
2	Rishal Rasheed, Abhilash K Pai	A survey on secure key sharing mechanisms that can be used in wireless sensor networks	CSIS 2012-14	ISBN: 9789351072478	Jun-14	ACCIS-14
3	Rishal Rasheed	Cloud Based Cheque Clearance System	CSIS 2012-14	ISBN 978-93-83459-57-5	Jul-14	ICIS 14
4	Ashad Nabeel	Redefine and accelerate video streaming for cloud gaming	CSIS 2012-14	ISBN 978-93-83459-57-5	Jul-14	ICIS 14
5	Archana Sasi, Vidhu Kiran G	Survey on Association rule mining algorithms in medical domain	CSIS 2012-14	ISBN 978-93-83459-57-5	Jul-14	ICIS 14
6	Shailesh S	Advanced session password authentication scheme using sounds for blind computer users	CSIS 2013-15	ISBN 978-93-83459-57-5	Jul-14	ICIS 14
7	K S Sreeja	Enabling and implementation of fairness in peer to peer system using a deficit based algorithm in P2P simulator	CSIS 2012-14	ISBN 978-93-83459-57-5	Jul-14	ICIS 14

Publications by Students - CS

No	Student Name	Title	Batch	ISBN	Month & Yr	Conference
8	Divya Mohandas	User Intension based anomaly detection approach to identify anomalous DNS traffic	CSIS 2012-14	ISBN 978-93-83459-57-5	Jul-14	ICIS 14
9	Rishal Rasheed, Abhilash K Pai	A security architecture in wireless sensor networks with mobile sinks	CSIS 2012-14	ISBN 978-93-83459-57-5	Jul-14	ICIS 14
10	Jane George	Parallelizing Markov clustering using CUDA and CSR Sparse Format	CSIS 2012-14	ISBN 978-93-83459-57-5	Jul-14	ICIS 14
11	Vinitha Mol K B	MapReduce based pattern listing algorithm applied in Motif detection for social networks	CSIS 2012-14	ISBN 978-93-83459-57-5	Jul-14	ICIS 14
12	Meera M	Multilingual Machine Translation With Semantic And Disambiguation	CSIS 2012-14	10.1109/ICACC.2014.60	Aug-14	ICACC 2014
13	Vinitha Mol K B	Survey On Open Source Cluster Management Systems	CSIS 2012-14	10.1109/ICACC.2014.60	Aug-14	ICACC 2014
14	Divya Mohandas	A Study on Detection of Botnets With DNS Command and Control	CSIS 2012-14	10.1109/ICACC.2014.60	Aug-14	ICACC 2014

Entrepreneurship initiatives

No	Name	Batch	Name of firm	details
1	Appu S, Jophin John, Anto K Antony, Arun Mathew, Abhilash Nazer, Jenson PP	2010 admission	Forerunners	www.forerunners.in
2	Ansar Abdul Kareem	2009 admission	Willwo technologies	www.willwo.in
3	Kannan P V	2007 admission	Graceland IT solutions	www.graceland.co.in
4	Sivahari Nandakumar	2006 admission	Appropriate Technology promotion Society	www.atps.in
5	Anoop Jose Mohd. Mishal	2009 admission	Tecque solns pvt ltd	www.tecque.com
6	Nidhin Chandran	2008 admission	Mob	www.mobsoul.com
7	Nebu John Thaliyath	2008 admission	Conflicus software solutions	
8	Shyju B	2007 admission	Omega designs	designsomega.in

Entrepreneurship initiatives ..cont'd

- The Entrepreneurship Development Club was started in September 2014
- The Following is the committee that will oversee the functioning of the EDC:

- Staff Coordinator: Sreekumar K
- Student Coordinator: Jishnu Thampam

Members:

- Chairman, BOG
- Principal,
- HODs of EC, CS and EE

Awards/Prices (Inter-collegiate/State level/National)

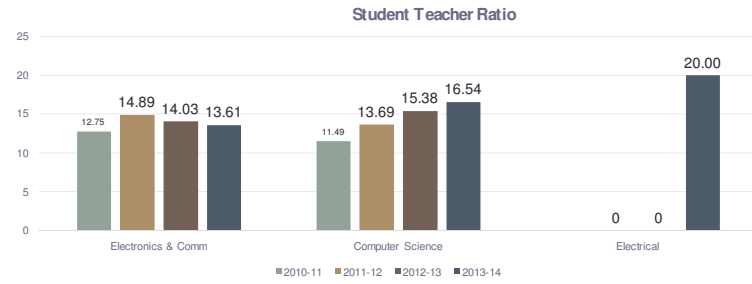
- First & second rank in CUSAT M.Tech (C & IS) examination 2014
- First & third rank in CUSAT M.Tech (SP) examination 2013
- First rank in CUSAT B.Tech (EC) examination 2013
- 1 CIVIL SERVICE SELECTION IN 2013 (for a student of 2009 batch)
- HEXAPOD- AN AGRO-TECHNICAL PROJECT WAS SELECTED IN THE FINAL ROUNDS, AMONG 13 PROJECTS IN SRIHITI 2014 AICTE-IPS SPONSORED ALL KERALA PROJECT EXHIBITION AND COMPETITION
- First runner up in CUSAT inter college football tournament 2014
- Third place in 400 m in CUSAT inter college annual sports meet 2014
- Best Paper award for paper co-authored by Dr Vinu Thomas, at the International Conference on Advances in Image Processing , ICAIP-2014, Bangkok, Thailand, October 10-12, 2014.
- Best Paper award for paper co-authored by Dr Vinu Thomas, at the National Conference on Emerging Vistas of Engineering and Management (NCEVEM'14), Viswajyothi College of Engineering, Nov.24-24, Kerala, India

Awards/Prices (Inter-collegiate/State level/National) ..Cont'd

- First prize in grey cell ruffle- CET Drishti 2013
- Labview workshop- CET Drishti 2013
- Ethical hacking workshop- CET Drishti 2013
- Android workshop-FISAT Nautilus 2013
- Second prize in maze 2k13- RAJAGIRI KOCHI
- "INTELLIGENT WHEEL CHAIR"-A project selected by "CENTRE FOR DISABILITY STUDIES" IN 2012
- Group first in Cochin University youth festival 'sargam -12'
- Group second in Cochin University youth festival 'sargam -12'
- Selected as the best public institution under vegetable development programme 2012-13 by the Department Of Agriculture Kerala
- Microchip-master certification for 2009-10

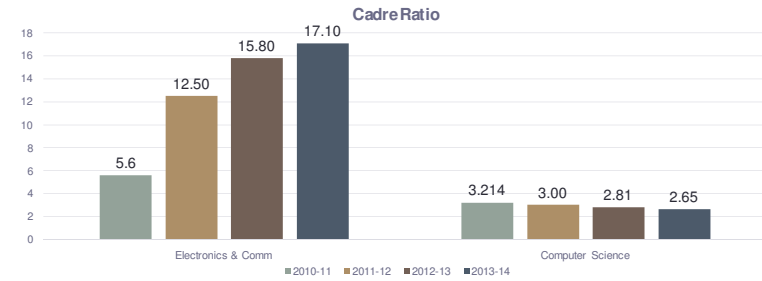
Student Teacher Ratio

(Assessment = $20 \times 15 / STR$; subject to max. assessment at 20 where, $STR = (x + y + z) / N1$
 $x = \text{No. of students in 2nd year of the programme}$, $y = \text{No. of students in 3rd year of the programme}$
 $z = \text{No. of students in 4th year of the programme}$, $N1 = \text{Total no. of faculty members in the programme (by considering the fractional load)}$)



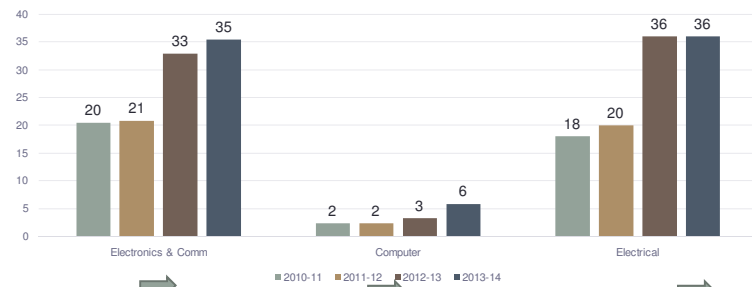
Faculty Cadre Ratio

(Assessment = $20 \times CRI$, Cadre ratio index (CRI) = $2.25 \times (2x + y) / N$; based on 12.6 subject to max. CRI = 10, $x = \text{No. of professors in the programme}$, $y = \text{No. of associate professors in the programme}$)



Faculty qualifications

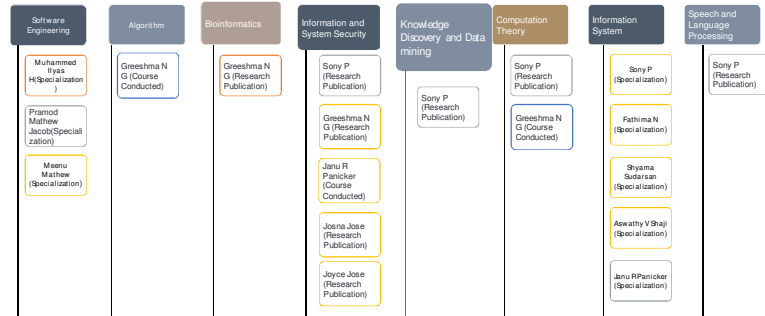
(Assessment = $6 \times FQI$, Faculty qualification index (FQI) = $(10x + 6y + 2z) / N2$, where, $x = \text{No. of faculty members with Ph.D.}$, $y = \text{No. of faculty members with M/E/M Tech.}$, $z = \text{No. of faculty members with BE/BTech}$)



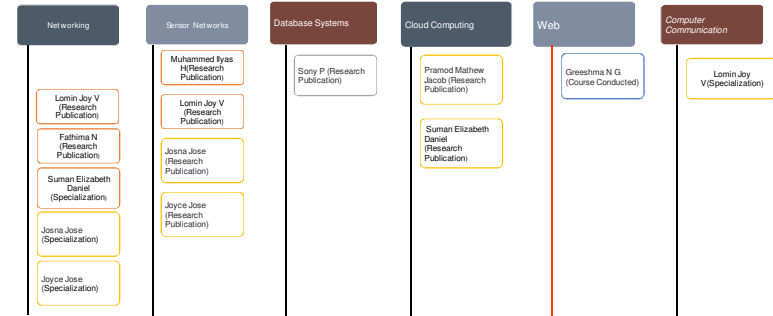
Faculty Competencies correlation to Programme Specific Criteria (IEEE) – Electronics & Electrical

Linear Algebra and functional analysis	Product design and embedded systems	Probability and random process	Communication and Networking	Device Modelling & Circuit Design	Signal Processing	Opto Electronics and Fibre Sensors	Microcourse Engineering	Control systems
Jayathas C K (Course handled and Research)	Dr Ashok Kumar TV (Course handled, special tation)	Inshad Ali TK (Course Handled)	Pradeep M (Research)	Dr Jibymol Jacob (Research Publication, course handled)	Sony P (Research Publication)	Dr P Sureshkumar (research)	Dr Vinu Thomas (Research Publication)	Rajeevan K K (research)
Dr Vinu Thomas (Course handled & Research)	Tefly Francis (Course handled, special tation)	Dr Vinu Thomas (Course handled)	Lakshmi Sasidharan Nair ((special tation)	Nidhin K (course handled)	Geeshma N G (Course Conducted)	Dr P Sureshkumar (Specialization)	Dr P Sureshkumar (Specialization)	Elizave Lalji (course handled)
Aja Nath (Course Handled)	Nidhin K (Course handled, special tation)	Jayathas C K (Course handled and Research)	Visnu Pradeep (special tation)	Jafin Antony (Course handled)	Dr Vinu Thomas (Course handled, Research)	Sneekumar K (Specialization)	Sneekumar K (Specialization)	Vaema Mathew (Specialization)
		Abdul Kareem (Course handled)			Dr Ashok Kumar TV (Research)			Meera E (Course Handled)
								Jaymon Emmanuel (special tation)

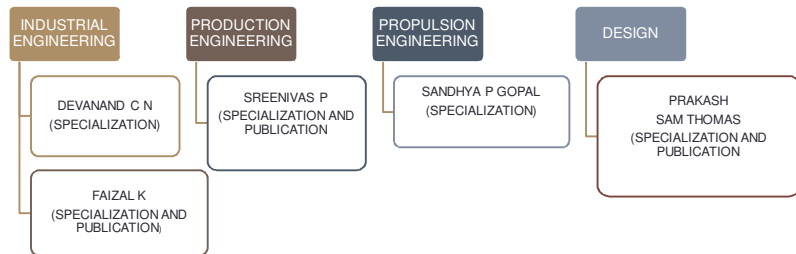
Faculty Competencies correlation to Programme Specific Criteria(ACM) – Computer & I.T



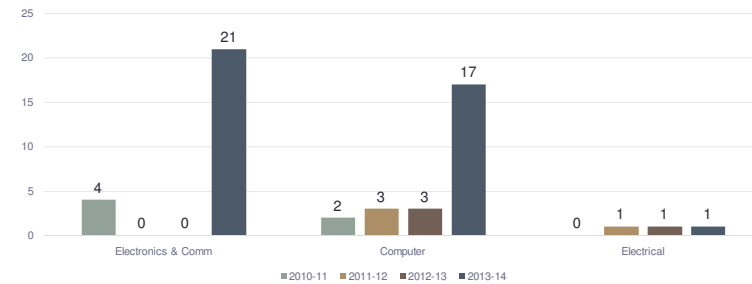
Faculty Competencies correlation to Programme Specific Criteria(ACM) – Computer & I.T .. Contd



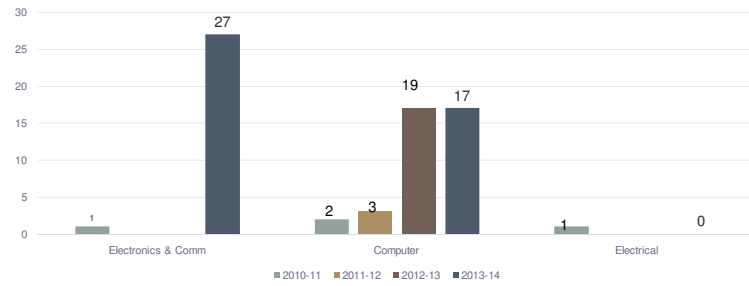
Faculty Competencies correlation to Programme Specific Criteria(ASME)- Mechanical



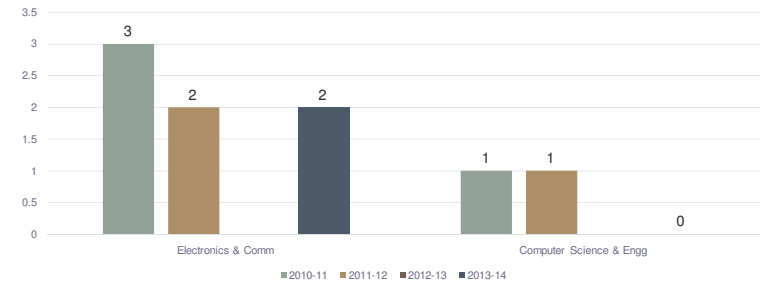
Faculty Participation in FSDs of two week duration



Faculty Participation in FSDs of one week duration

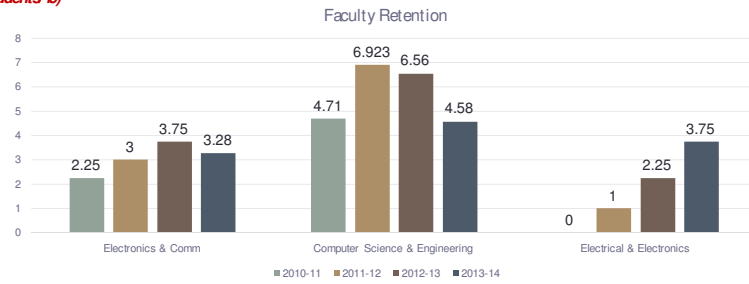


Faculty participation as resource persons



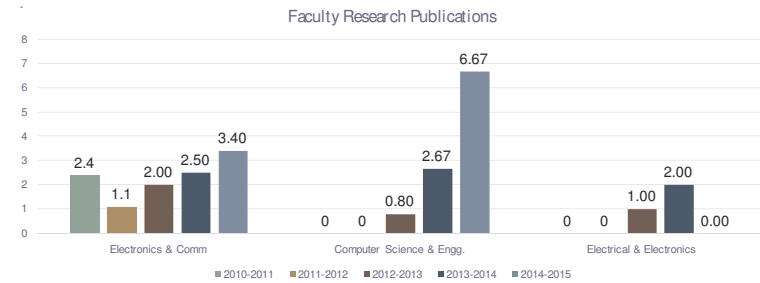
Faculty Retention-

(Assessment = $3 \times RPI/N$, Retention point index (RPI) = Sum of the retention points of all faculty members
 One retention point for each year of experience at their institution, subject to maximum five point to a faculty member. **Check calculations of CS# Note:**
 $N = \max(N1, N2)$,
 $N1 = \text{as per workload. (Actual workload including fractional) / (16 for Asst. Prof, 14 for Asso. Prof and 12 for HOD)}$, $N2 = \text{total students / 15}$)



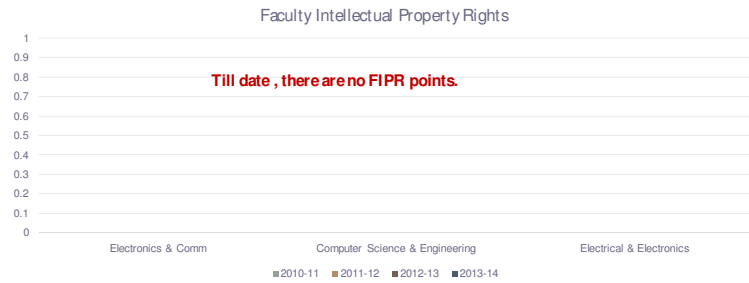
Faculty research publications

(Assessment of FFP = $4 \times (\text{Sum of the research publication points scored by each faculty member}) / N$
 (Instruction: A faculty member scores maximum five research publication points each year, depending upon the quality of the research paper published in the past (1 to 5 years). The research paper considered are those (i) which can be located on internet and/or are included in hard-copy volumes/ proceedings, published by well-known publishers, and (ii) the faculty member's affiliation, in the published paper, is of the current institution.)



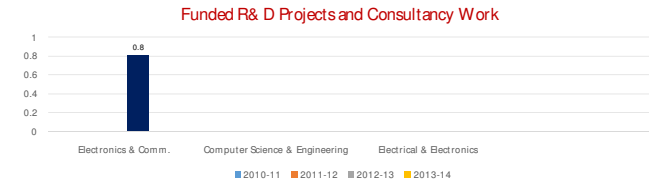
Faculty Intellectual Property Rights(FIPR)

(Assessment of FIPR=2x (Sum of the FIPR point scored by each faculty member)/N (Instruction: A faculty member scores maximum five FIPR points each year. FIPR includes awarded national/international patents, books and copyrights).



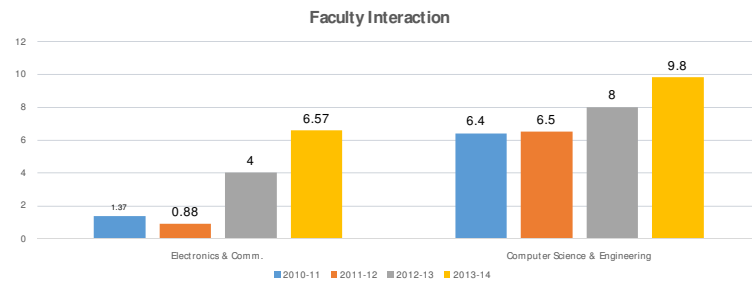
Funded R& D projects and consultancy (FRDC) work

(Assessment of R& D and consultancy projects=4x (Sum of FRDC by each faculty member)/N. Instruction: A faculty member gets maximum five points each year, depending upon the amount of funds and/or contribution made. A suggestive scheme is given below for a minimum amount of Rs 1 lakh: Five points for funding by national agency, Four points for funding by state agency/private sector, Two points for funding by sponsoring trust/society.

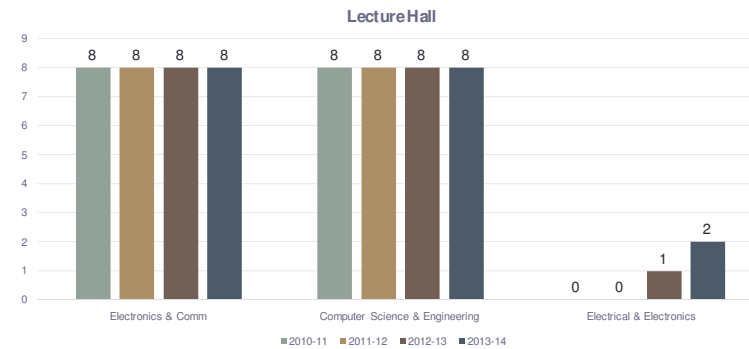


Faculty interaction with outside world

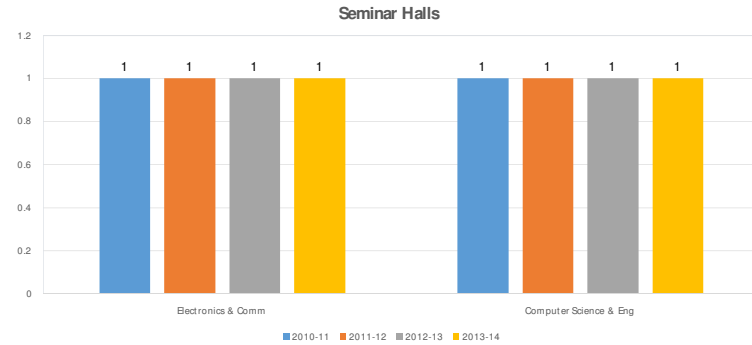
(Faculty interaction points (FIP) assessment =2x (Sum of FIP by each faculty member)/N, N= max(N1/N2)



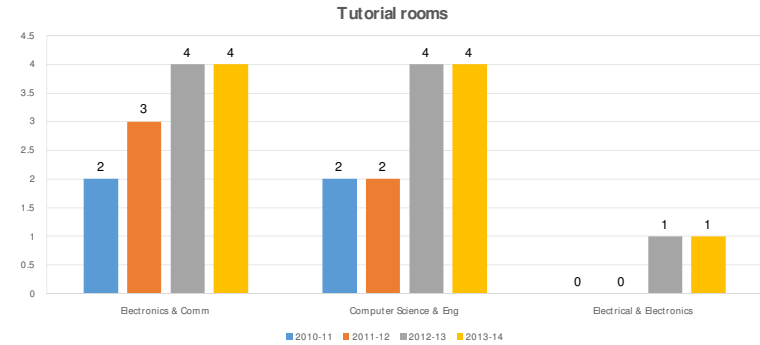
Lecture Halls



Seminar Halls

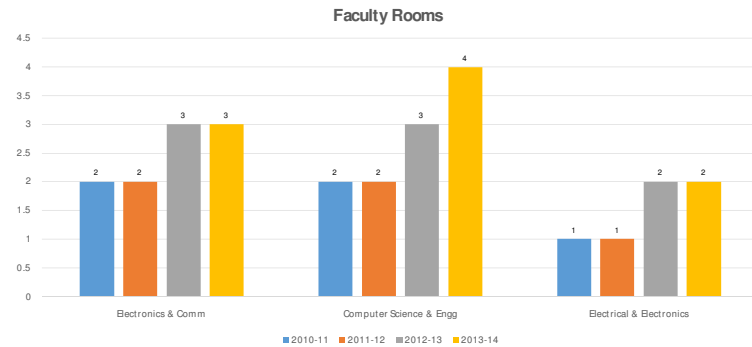


Tutorial Rooms



Faculty Rooms—

(Rooms equipped with white/black board, computer, internet, and other such amenities/facilities Usage of room for counselling/discussion with students)



Laboratories—

*(No of students per experimental set up, Technical Manpower support **)*

Electronics & Communication	Computer Science & Engineering	Electrical & Electronics Engineering
<ul style="list-style-type: none"> Basic Electronics Lab (3,1,1) Digital Electronics lab (2,1,1) Electronic Circuits lab I (4,1,1) Mini Project (5,1) Communication I Lab (4,1,1) Communication II Lab (4,1,1) Signal Processing lab (2,1) Electronic Circuits lab I (3,1,1) Microprocessor Lab-8085 (3,1) Microprocessor Lab-8086 (2,1) 	<ul style="list-style-type: none"> Programming lab (1,1) Networks Lab (2,1) System programming & HW lab (2,1) Language processing Lab (2,1) OOP lab (1,1) Data Structure lab (1,1) Computer Graphics lab (1,1) 	<ul style="list-style-type: none"> Electrical workshop (4,1,2) Basic Electrical Engineering Lab (5,1,2) Electrical Measurements Lab (5,1,2) Electrical Machines Lab 1 (5,1,2)

** Technical Support staff numbers are for a total strength of 30 students per batch
1-Demonstrator -1-Trade Instructor

Lab manuals–

(Laboratories for which lab manuals are available)

Electronics & Communication

- Basic Electronics Lab
- 8085 Microprocessor Lab
- Signal Processing Lab
- Electronics Circuits Lab I
- Electronics Circuits lab II
- Digital electronics lab
- Communication Lab II

Computer Science & Engineering

- Programming lab, Networks Lab
- System programming & HW lab
- Language processing Lab
- Object Oriented Programming lab
- Data Structures lab
- Computer Graphics lab

Electrical & Electronics Engineering

- Electrical workshop
- Basic Electrical Engineering Lab
- Electrical Measurements Lab
- Electrical Machines Lab 1

Language Lab – (How do you use it ?)

- As per curriculum Language lab is being conducted for first year students-one hour per week
- During Saturdays extra lab of 3 hours is being conducted for first year students.
- Lab is being given to students for the soft skill training sessions of the finishing school.

Tutorial Classes

(Subject, no of students in a tutorial class, hours)

Computer Science

- 35 Subjects
- 1 hour/ week
- 15 students/ class

Electrical

- 35 Subjects
- 1 hour/ week
- 15 students/ class

Electronics

- 35 Subjects
- 1 hour/ week
- 15 students/ class

Mentoring System

(How do you mentor student individually?)

- Constituting peer group
- Assigning mentor for each peer group of 15
- Open discussions within the group
- Attention given to the weak students by the group leader
- Mentor meeting students individually once in two weeks
- Diary is maintained for each mentee showing details of issues, corrective measures etc...
- Mentor keeping contact with parents (at least twice in a semester)

Feedback analysis

(how do you do it? Award/corrective measures)

- Faculty evaluation twice in a semester by
 - Students
 - HOD
- Open discussion individually with faculty member by HOD regarding the evaluation
- Faculty member is directed to take necessary corrective measures based on the score for each points in the evaluation
- Best teacher award based on the overall performance (each department)

Scope for self learning

(Generation of self-learning facilities and availability of materials for learning beyond syllabus)

- Open course wares from sites of MIT
- NPTEL lectures
- Attending online courses
- Subscribing e-books, e-journals etc...

Career Guidance, Placement Unit

(Availability of Well furnished Seminar Hall, Central Computing Facility, Soft skill development, employability assessment)

The seminar hall

- latest Audio and Visual equipments
- fully air conditioned
- video conferencing facilities
- Accommodating capacity- 120 persons.

Computing Facility

- more than 300 computers
- connected across a LAN and internet facility with NKN
- two powerful servers with 2X Intel Xeon E5 -26020 2.00 GHz Processors and
- servers such as HP-HPE2000 MS certified server, Zenith-SP(NSI)5 PDS server and HCL infinity-global line 1450 server.
- The entire centre is efficiently powered by a backup power supply system.

Career Guidance, Placement Unit

Soft skill training conducted for the current Final Year Students

S No	Soft skill Training	No of Days
1	QUANTITATIVE APTITUDE	3 days
2	LOGICAL REASONING	3 days
3	VERBAL REASONING	2 days
4	INTERVIEW TRAINING	1 days
5	MOCK INTERVIEW	2 days
6	GROUP DISCUSSION	2 days
7	TECHNICAL TRAINING IN JAVA	5 days
8	ENGLISH TRAINING	3 days
9	COMMUNICATION SKILLS	3 days

Employability Assessment

- Through AMCAT conducted by Aspiring Minds

Co-curricular activities

- **Conducted two Inter College Technical Fests in 2010 & 2013**
- The technical events conducted under CSI are
- **2010-2011:-**
 - August : Technical Quiz
 - September: Hacksec - Workshop on ethical hacking by TechDefence
 - October : Training on events like Code De-Bugging, Gaming, Virus Programming etc. for ZEALOUS 2K10, inter-college tech-fest conducted by the college.
 - November : Paper presentation training.
- **2011-2012:-**
 - October : Technical Quiz - Zest 2010
 - November : Android Workshop
- **2012-2013:-**
 - August : Workshop on Computer Assembling , Web-designing workshop
 - September : Python workshop
 - October : Technical Quiz - EPISTIMY
 - February : Rally coding competition

Extra-curricular activities

ACTIVITIES CARRIED OUT BY THE NSS UNIT

- COLLEGE CAMPUS CLEANING EVERY YEAR
- PREVENTIVE MEASURE AGAINST CHICKENPOX
- A DAY AT OLD AGE HOME
- AIDING HAND
- BLOOD DONATION
- SEMINAR ON PERSONALITY DEVELOPMENT
- PLACED DUST BINS AROUND COLLEGE CAMPUS
- ANNUAL SPECIAL CAMP

NATURE CLUB – BHOOMITHRA SENA

- Vegetable cultivation was done in campus
- CEC was awarded best public Institute in 2012-13 by Govt. of Kerala, Dept of Agriculture

- TECH FESTS (conducted in 2008,2010,2014)

- ARTS DAY

- SPORTS DAY

- College magazine

Facilities for Sports and Games

- Cricket and football ground – 6000 m² area
- Accessories for cricket, football, volleyball, badminton and chess
- Equipment for high jump, javelin and shot-put
- Play Ground construction (MLA Fund) – 113024 Sq. Ft.

Campus Development and Management –

The following committee oversees the Campus Development proposals and activities :

- Chairman, BOG
- Principal
- HOD, EC Department
- HOD CS Department
- HOD EEE Department
- Academic Coordinator
- Administrative officer
- PTA Vice President
- College Senate Chairman

A Campus management Software is being procured under TEQIP

Campus Development and Management –

Main Block : 2015 sq.metres

Administration

Principal's room
Conference room
Exam Cell
Administrative Office

Academic

Class rooms: 2 numbers
EC labs- 5 numbers
Central Computing
Facility
CS Labs: 3 numbers
Seminar Hall – 1 number

Amenities

Faculty rooms- 3
Ladies Waiting Room
Toilets – 5

Campus Development and Management –

Academic Block I – 1005 square metres

Class rooms: 9
Faculty rooms: 2
Toilets: 2

Academic Block II – 330 square metres

Class rooms: 4

Workshop Block – 562 square metre

Mechanical W/S: 1
Electrical W/S: 1
Electrical Lab : 2

Library Block – 860 square metre

Reading Room
Reference Section
Lending Section
PG Labs: 2
Class Rooms: 4
Toilet : 1

Administrative Block– II- 400 square metre

Faculty rooms – 3
TEQIP Office
Cooperative Society
Research Lab-1
Toilets: 3
Cafeteria
Seminar Hall-1
T & P Cell office

Generator Room – 20 square metre

**Toilet Blocks - 50
square metre**
2 no:s

Campus Development and Management –

New Academic Block (1980 Sq. Metre)

Facilities in the proposed block

Ground Floor

. Class rooms - 2 Nos.
. Staff room - 1No.
. Laboratory room-3
. Seminar Hall - 1No:
. Toilet - 1No.
. Staircase: 2 No.s

First Floor

. Class rooms - 4 Nos.
. Staff room - 1No.
. Laboratory room-3
. Toilet – 1No:

Campus Development and Management –

. All class rooms equipped with overhead multimedia projectors

. 4 smart class rooms

. Video Conferencing Equipment

. EPABX – 64 extension line, expandable upto 128 lines, 5 IP phone license

Projects awaiting sanction under RUSA

. Faculty cabins	1938	Sq. Ft.
. Tile laying work (GF of Main building)	21528	Sq. Ft.
. Renovation of toilets including ladies toilets	1800	Sq. Ft.
. Space for Central Computer facility	3768	Sq. Ft.
. Auditorium	3768	Sq. Ft.

Campus beautification works being undertaken by PTA

Garden	- 3550	Sq. ft.
Laying of interlocking tiles inn the front yard and parking area	- 8178	Sq. ft.

Hostels

Hostel facility is not available at present

Canteen -

Existing canteen facility will be augmented with 1350 Sq. ft. area (Under RUSA)

Transport facilities

- Buses plying in following routes
 - Bus no 1: CE Chert hala – Chert hala town- Aroor-Poochakal- CE Chert hala
 - Bus no 2 : CE Chert hala – Aroor-Vytil la- Edappally –Model Engg college
 - Bus no 3 : CE Chert hala – Chert hala town- Alappuzha
- Maruthi omni van – office purposes

ELECTRICITY,POWER BACKUP,TELECOM AND VIDEO CONFERENCE SYSTEM

- Equipped with dedicated 250A 3 phase transformer from 110 KV to college main distribution panel.
- UPSback up facility for labs
- Diesel generator backup -62.5 KVA procured under TEQIP. All laboratories, seminar halls, having generator backup
- All labs, staffrooms, workshops, library & office are connected with EPABX with VoIP technology with 64 Analog lines and 5 IP lines.
- Equipped with video conferencing system.

ELECTRICITY,POWER BACKUP,TELECOM AND VIDEO CONFERENCE SYSTEM

LABS	UPSCAPACITY	EXISTING	TEQIPPURCHASE
CIRCUITSLAB,DIGITAL LAB & COMMUNICATION LAB	5KVA-1NO.	5KVA- 1NO.	5KVA -1NO.
DSP LAB	5KVA-1NO.	NIL	5KVA
COMPUTER LAB1	5KVA-2 NOS 6KVA-1NOS 3KVA-1NOS	10KVA-1NO.	5KVA-2 NOS 6KVA-1NOS 3KVA-1NOS
COMPUTER LAB2	5KVA-2 NOS	5 KVA-1NO.	5 KVA -1NO.
COMPUTER LAB3	5KVA-1 NO.	NIL	5KVA-1NO.
OFFICE& PRINCIPAL ROOM	5KVA 1NO.	NIL	5KVA-1NO.
M.TECH LAB EC & CS,NKN SERVER AND LIBRARY	5KVA-2 NOS. 3KVA-1NO.	3KVA-1NO.	5KVA-2 NOS. 3KVA-1NO.
SEMINAR HALL	3KVA-1NO.	NIL	3KVA-1NO.

Drinking Water

Existing Facilities

1. Two no. of RO water purifiers.
2. One water cooler connected to RO water purifier.

Proposed Plan

MINERAL RO WATER PURIFIER(15 Lt/Hr) - 4 Nos.
(Initiated under TEQIP)



Grievance redressal forums

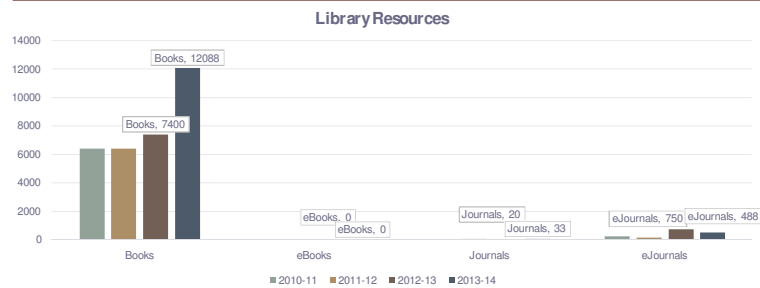
- Provision for Online Grievance Lodging & Monitoring System through the college website.

Budget & Expenditure

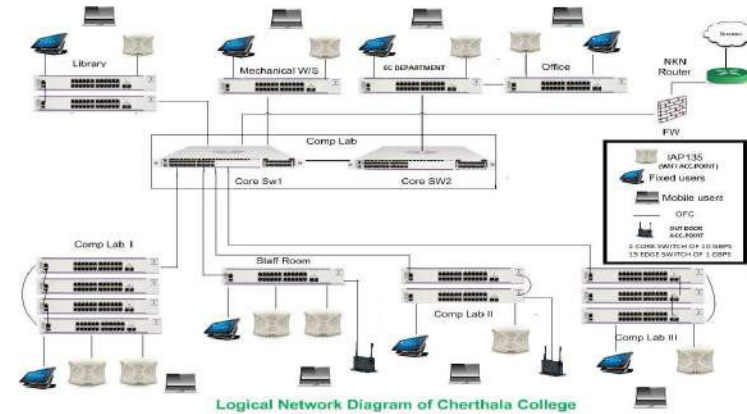
	2010-11	2011-12	2012-13	2013-14
Amount Received as Block Grant	-	1177572	2500000	4144000
Student Fee	20971400	28007955	37288545	46581416
IRG From Externally funded project/ consultancy				
TEQIP Grant				3 Crore
Total Annual recurring expenditure	22576088	31293591	31628526	38720512
Scholarship	717465	20375	402160	37288545
Procurement and Training using TEQIP funds				2.65 Crore

Library

No of library staff: 5



CAMPUS NETWORK



CampusNetwork ..Cont'd

- Campus data network of eight network broadcast sub domain.
- The sub domains connected with single mode six cores optical fiber cable backbone and a 10 Gbps core switch. (One more 10 Gbps core switch provided as standby).
- The sub domains consist of 1 Gbps edge switch of 15 numbers and indoor wifi access of 10 numbers. It can connect up to 360 numbers of UTP outputs
- The front and rear sides of main building block have outdoor wifi access service.

CampusNetwork ..Cont'd

- National Knowledge Network (NKN) with 100 Mbps line and BSNL broadband are the Internet Service Providers
- Up to 500 students can use internet facility simultaneously.
- The sub domains are Library, Mechanical/electrical workshop, computer lab1, computer lab2, computer lab3 (R& D lab), Office, Electronics department, General staff room.
- Facility to make normal and IP phone calls all over the campus
- Invested up to 37 lakh rupees on Campus N/w.

Safety norms and checks

- work is initiated for fitting fire extinguishers in the campus, under TEQIP
- work is initiated for fitting lightning arrester under TEQIP

Counselling & Medical Care

- Class wise counselling and motivation sessions were conducted for all S4 and S6 students during last semester (Jan.14-Mar.14)
- During this academic year counselling and motivation sessions are scheduled to be conducted on 16,20,21,23/10/14 to first year students (4 batches)
- Signed an MoU with the SH. Hospital Mathilakam P.O., Cherthala for in patient and out patient care, ambulance facility, pharmacy services, diagnostic equipments etc for students and staff.

Key Performance Indicators

Minutes of Board of Governors (BoG) meetings	Statutory Audit	Performance Audit along with Data Audit	Initial Governance Development Plan	% of committed expenditure out of funds received
<ul style="list-style-type: none"> 5 BOG meetings are Conducted minutes & Agendas are available in College website:- http://www.cect.ac.in/index.php?option=com_content&view=article&id=67&Itemid=95 	<ul style="list-style-type: none"> One Statutory Audit Completed 	<ul style="list-style-type: none"> One Performance Audit Completed 	<ul style="list-style-type: none"> Initial GDP prepared and available on College website http://www.cect.ac.in/images/stories/teqip/documents/GDP.pdf 	<ul style="list-style-type: none"> 104.98%

Key Performance Indicators

% of Expenditure of the total funds received	% of Procurement plan out of 5.5 Crores	MIS data entry	Mandatory Participation in CII-AICTE survey	Participation in TEQIP Faculty, Staff and Students Satisfaction Survey
<ul style="list-style-type: none"> 99.09% 	<ul style="list-style-type: none"> 98.31% of allotted amount is included in the Plan Rs 9.24, 188' have to be included. The BOG approval for packages for this amount has been obtained. 88.73 % of allotted amount is expended. 	<ul style="list-style-type: none"> 2010-11, 2011-12, 2012-13 - Completed 2013-14, 2014-15 on going 	<ul style="list-style-type: none"> Completed 	<ul style="list-style-type: none"> 98% Completed

Annexure - VIII

Self-Assessment Report

No.	Parameter	EC	CS	Max
1	Student Success Rate	19.2	16.2	30
2	Academic Performance	14.45	14.26	20
3	Placement & Higher Studies	19.22	21.64	30
4	Professional Activities	12	10	20
Faculty				
1	STR	17.59	12.29	20
2	Cadre Ratio	10.36	2.6	20
3	Faculty Qualification Index	14.21	9.5	30
4	Faculty Competency in correlation of Programme specific criteria	10	10	15
5	Faculty as Participants/Resource Persons in FDP	7.9	5.48	15
6	Faculty Retention	8	7.53	15
7	Research Publications	2.47	1.11	20
8	FIPR	0	0	10
9	Funded Projects	1	0	20
10	Interaction with outside world	6.11	5.21	10
Facilities and Technical Support				
1	Class rooms	25	25	30
2	Faculty Rooms	8	8	20
3	Laboratories	33	33	60
4	Technical Man power	14	14	15
Academic Support Units and Teaching Learning				
1	First Year Student Teacher Ratio	7.5	7.5	10
2	Assessment of Faculty Qualification in teaching first year Common Course	15	15	15
3	Language Lab	2	2	2
4	Basic Science and Engineering Labs	5	5	8
5	Teaching Learning Process	24	24	40
Governance, Institutional Support, Financial Resources				
1	Campus Infrastructure & Facility	7	7	10

2	Organization, Governance and Transparency	6	6	10
3	Budget Allocation, Utilization and Public Accounting	8	8	10
4	Programme Specific Budget Allocation & Utilization	7	7	10
5	Library	16	16	20
6	Internet	5	5	5
7	Safety Norms and Checks	4	4	5
8	Counselling, Emergency Medical Care & First Aid	4	4	5
1	Mission and Vision, PEO	50	50	75
2	Programme Outcomes	85	85	150
3	Programme Curriculum	90	90	125
4	Continuous Improvement	45	45	100
TOTAL		603	576.3	1000

Annexure - IX

COLLEGE OF ENGINEERING CHERTHALA

GOVERNANCE DEVELOPMENT PLAN

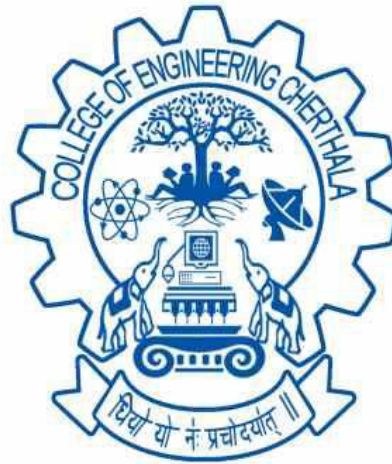


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1. THE INSTITUTION

College of Engineering Cherthala, a relatively young institute, was established in the year 2004 by the Government of Kerala, under the aegis of the Institute of Human Resources Development (IHRD). The institute is located at Pallippuram village 8 km north to Cherthala town in the district of Alappuzha in Kerala. With the continuous and prompt effort of all of its stake holders, the institute is on its way to become a premier institution offering quality Engineering Education in Kerala. The institution is affiliated to CUSAT, a prominent university in India's technical education scenario. Right from its inception, the College has been maintaining high standards in both academic and extracurricular performance. The institution has consistently reaped equal or above average success as the university level even amidst the general degradation in academic standards in Engineering Education all over the nation.

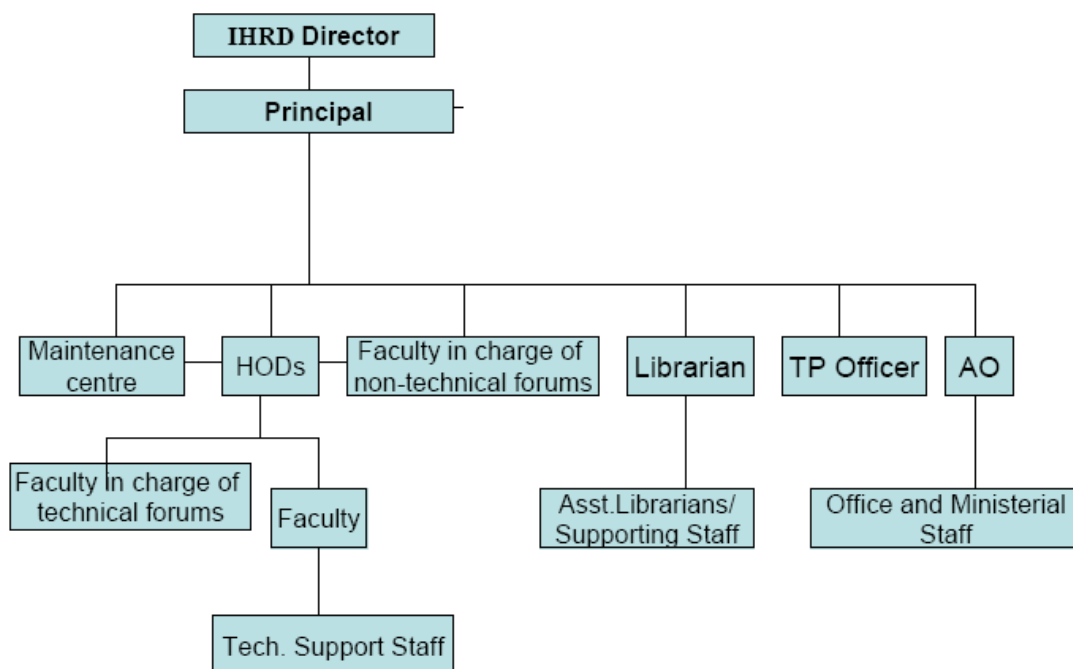


1.1 EDUCATIONAL PROGRAMMES

- The college offers the following UG programs in Engineering.
 - B. Tech. in Electronics & Communication Engineering
 - B. Tech. in Computer Science & Engineering
 - B. Tech. in Electrical & Electronics Engineering
- The college also offers the following PG programs in Engineering.
 - M. Tech. in Signal Processing
 - M. Tech. in Computer and Information Science

1.2 ORGANISATIONAL STRUCTURE

College of Engineering Cherthala is managed by Institute of Human Resources Development, A Govt. of Kerala Undertaking. The College has an organization structure as shown below.



1.3 REGULATING AUTHORITIES

The institution is regulated by multiple authorities. The approval is done by All India Council for Technical Education and the Degree is granted by Cochin University of Science and Technology.

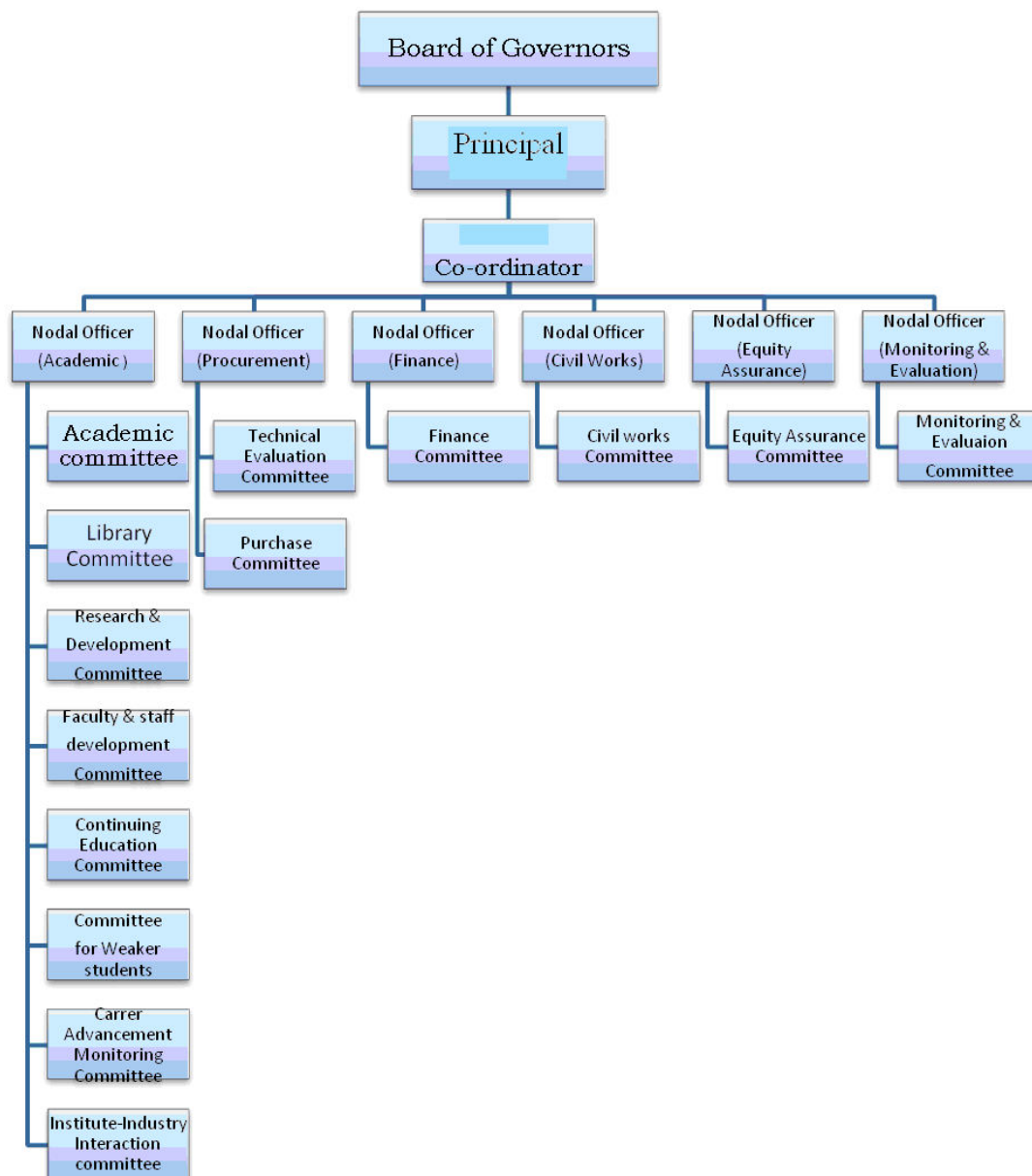
1.4 BOARD OF GOVERNORS

Government of Kerala Via G.O. (Ms.) No: 473/2012/H.Edn Dated, 28.09.2012 has constituted a Board of Governors (B.O.G) as per the guidelines of UGC/AICTE. All stakeholders are adequately represented in the Board of governors. There are representatives from the statutory bodies, Government, faculty and industry. The composition of the B.O.G is as below.

Sl. No	Name of Member of BoG	Qualification and position in the current engagements	Position in the BoG	Category	Nature
1	Dr. C .P. Girijavallabhan	PhD Professor Emeritus, International School of Photonics, Cochin University of Science & Tech., Cochin - 22, Kerala, India	Chairperson	Educationist	Nominated by the State Government
2	Jacob Mathew	B Tech, MBA Vice-President, Idea Mobiles India Ltd	Member	Industrialist	
3	Dr. V. P. Devassia	PhD Principal, Model Engineering College, Thrikkakara, Kochi	Member	Educationist	
4	Pradeep M	M Tech Associate Professor and Head of Electronics Department	Member	Educationist	Nominated by the Institution
5	Manilal D L	M Tech Associate Professor and Head	Member	Educationist	

		of Computer Science Department			
6	Salim.M.K	B. Tech, MBA Managing Director, Assure Tech Business Solution Pvt Ltd ,Thejaswany, Technopark , Thiruvananthapuram	Member	Professional	Nominated by the Institution
7	Sherif M	Additional Secretary, Higher Education, Govt. of Kerala	Member		State Government Nominee
8	James Joseph	Joint Secretary, Finance, Govt. of Kerala	Member		State Government Nominee
9	Dr.Philip Kurian	PhD Professor, Department of Polymer Science and Rubber Technology, former Controller of Examination And Dean of Faculty of Engineering Cochin University of Science and Technology, Cochin, Kerala	Member	Educationist	University Nominee
10	Dr.P.Suresh Kumar	PhD Principal, College of Engineering,Cherthala	Member	Educationist	Ex-officio

1.5 ORGANIZATIONAL STRUCTURE FOR ADMINISTRATION OF THE INSTITUTE



- The Board of Governors will meet as required to take all-important policy decisions.
- Various committees under the Board of Governors will implement institutional level development plan.

2. MISSION, VISION AND VALUES

The college has established specific objectives and strategies to achieve the goals with explicit mission and vision.

Our mission

To create professionals with competency and values who will be the forerunners in technology, contributing to the Society and the Country

Our vision

To evolve into a contributing centre of excellence in knowledge and technology, to create globally competitive professionals who would contribute profusely to the society.

Values

- Excellence
Our educational programs will be of the highest quality.
- Openness
We will communicate openly and treat everyone fairly as we value the opinions and respect the needs of all.
- Ethics
High ethical standards and sound decision-making will be at the heart of our activities and financial practices.
- Diversity
Diverse people and ideas produce lasting solutions and we will encourage diverse ideas from all stake holders and the society in general, for the solution of various problems the institution may face.
- Co-operation
We will forge partnerships on and off campus in our drive to solve society's complex problems and improve the quality of life.

3. OUR GOVERNANCE PURPOSE

To achieve calibrated improvement in quality of technical education at UG and PG levels by building on existing strengths and exploiting the emerging opportunities.

The institution governance is to strengthen its facilities to improve learning outcomes, employability of graduates and to uplift the standard of UG & PG education through the support from Govt. of India and Govt. of Kerala, by way of infrastructural development, faculty and staff development, R & D activities and industry-institute interaction.

3.1 The Beneficiaries

The main beneficiaries are the students, faculty, staff, institution, the society and industry. Some of the benefits for each of the stakeholders are described in brief as follows:

3.1.1 Students

- Improved employability
- Increased industry-institute interaction
- Better adaptability to industry needs
- Better academic ambience
- Scope for research activities
- Support to financially and academically weaker students

3.1.2 Faculty

- Better opportunity for enhancement of knowledge and management capacity
- Quality Improvement
- Industrial exposure
- Consultancy, testing and R & D opportunities

3.1.3 Institution

- Motivated, creative and qualified faculty
- Sustained efforts to accomplish the Vision
- Better adaptability to global needs
- Recognition at National and International level
- Academic Autonomy
- Enhanced IRG

3.1.4 Society

- Opportunity for better education
- Skill development opportunities
- Better accessibility to technical environment
- Easy availability of technical support

3.1.5 Industry

- Availability of high quality human resource satisfying their pre-requisites
- Result oriented sponsored R & D projects
- Technology transfer
- Exposure to the academic environment and expertise

4.GOVERNANCE VALUES

4.1 PRIMARY ACCOUNTABILITIES

- To approve the mission and strategic vision of the institution
- To enable the institution to achieve and develop their mission and primary objectives for learning, teaching and research through strategic planning
- To ensure the establishment and monitoring of proper, effective and efficient systems of control and accountability
- To monitor institutional performance and quality assurance arrangements
- To put in place suitable arrangements for monitoring

4.2 OPENNESS AND TRANSPARENCY IN THE OPERATION

- Publishing an annual report on institutional performance
 - Providing as much information as possible to students, faculty, public and potential employers on all aspects of institutional activity related to academic performance, finance and management.
 - Ensuring that all reported information, including that conveyed in marketing campaigns, is truthful.
 - Conducting proceedings of governing bodies in an open manner as much as possible that is permissible by statute
 - Student admission information to ensure public trust and confidence
5. Maintaining a register of interests of members of its governing body Ensuring that vacancies are widely publicized both within and outside the institution

4.3 EFFECTIVENESS AND PERFORMANCE REVIEW OF GOVERNING BODY

- Effectiveness is measured against both an institution's statement of primary accountabilities

- Structures and processes will be revised accordingly, as part of the governing body's ongoing regular review processes

4.4 REGULATORY COMPLIANCE

- The Governing body ensures compliance with the statutes, ordinances and provisions regulating their institution, including regulations by statutory bodies, such as the AICTE and UGC, as well as regulations laid out by the State government and affiliating university and takes all final decisions on matters of fundamental concern to the institution.
- The regulatory compliance includes demonstrating compliance with the '*not-for-profit*' purpose of education

5. STRATEGIC PLAN FOR GOVERNANCE

The college realizes the need for strengthening its activities to improve the learning and employability of the students, the need to improve the research outputs and involvement with consultancy assignments by the faculty members of the institution and the need to enhance the collaboration with industries. A strategic plan has been prepared with the objective of elimination of its weakness while further consolidating its strength based on a SWOT exercise.

5.1 PROCEDURE ADOPTED FOR SWOT ANALYSIS

The SWOT analysis involved strategic sampling from a domain of all stake holders, viz. students, faculty and staff as well as parents. A technical analysis of the data thus collected was conducted for identifying the internal factors, viz. strengths as well as weaknesses and for pinpointing the external factors, viz. opportunities available for exploitation and threats that were to be overcome by the institution.

A workshop on SWOT was conducted where all faculty, representatives from support staff and student representatives from each class participated. Subsequently a brain storming session for SWOT analysis was conducted by the participants separately in all departments with a facilitator in each group. The institutional BOG members took the lead in the deliberations.

The SWOT exercise undertaken has helped to identify the key strengths, weakness, opportunities and threats. The salient features derived from the SWOT analysis are summarized below:

Strength	<ul style="list-style-type: none">• Dedicated, young and relatively well experienced faculty with ample motivation and potential to grow. Five faculty in the Dept. of Electronics Engineering have Doctoral degrees.
	<ul style="list-style-type: none">• Integrity in Appointments of Faculty and Staff
	<ul style="list-style-type: none">• Integrity in the admission process, where merit is the only criterion.
	<ul style="list-style-type: none">• Effective teaching with personalized interaction with students leading to good student teacher rapport
	<ul style="list-style-type: none">• Availability of vast tracts of land for developing new infrastructure facilities

Weakness	<ul style="list-style-type: none"> Insufficient funds for Development and Training: Financial Model of the institute is self financing. Salaries and other overheads have to be met from fee collected, with only limited Govt. funding, leaving little for infrastructure development and training of faculty and staff.
	<ul style="list-style-type: none"> Number of permanent faculty need to be enhanced
	<ul style="list-style-type: none"> Partnership with industry and premier research and academic institutions need to be improved for potential development.
	<ul style="list-style-type: none"> Digital library facilities need to be improved.
	<ul style="list-style-type: none"> Placements are to be enhanced.
	<ul style="list-style-type: none"> Lack of Hostel Facility for students
Opportunities	<ul style="list-style-type: none"> Increased demand for PG / Research programmes due to escalation in number of under graduates, and increased requirement for qualified personnel with specializations, for academia and industry
	<ul style="list-style-type: none"> NABARD funding for construction of additional academic block.
	<ul style="list-style-type: none"> Proximity to Info park, Cherthala and various industries in Cochin and Alappuzha viz. SILK,AUTOCAST, Keltron Controls
	<ul style="list-style-type: none"> Located nearer to KSIDC where lot of industrial and infrastructural development projects of central and state governments are proposed
	<ul style="list-style-type: none"> Scope to provide quality education in cost effective manner
	<ul style="list-style-type: none"> Demand for industry oriented research and innovation.
	<ul style="list-style-type: none"> Availability of TEQIP funds to enhance laboratory infrastructure, faculty and staff training and finishing school for the students.
	<ul style="list-style-type: none"> Opportunity to attain academic autonomy
Threats	<ul style="list-style-type: none"> Availability of standards and Accreditation Processes for Quality Assurance
	<ul style="list-style-type: none"> Insufficient funds for starting innovative and need based programs.
	<ul style="list-style-type: none"> Inadequacy in resources to retain the staff by addressing their intellectual needs
	<ul style="list-style-type: none"> Disproportionate increase in no. of engineering seats in the state
	<ul style="list-style-type: none"> Obsolescence of current laboratory equipment
	<ul style="list-style-type: none"> Lack of academic flexibility.
	<ul style="list-style-type: none"> Growing number of Private Institutions, with better civil infrastructure facilities in the vicinity

The features in each category (Strength, Weaknesses, Opportunities and Threats) were noted, collected and abridged. Strategies were developed based on four combinations

1. Strength and Opportunities
2. Strengths and Threats
3. Weakness and Opportunities
4. Weakness and Threats

These strategies were considered as a guideline for the preparation of action plan for the development of the institution. The strategic plan for the development of the institution is derived from the following observations in the SWOT analysis.

College of Engineering Cherthala is equipped with the resources for project planning and implementation. It is having well experienced, motivated and relatively young faculty and good students are obtained as input. Its laboratory facilities are being utilized well.

However, lack of funds has been a major hindrance for training, modernization and setting up of new laboratories. Limited interaction with industry and lack of research activities and consultancy services are also regarded as weakness. The infrastructure facilities need to be improved. Vacancies in the top management at the level of Professors and Associate Professors and entry cadre at the level of Assistant Professors need to be filled up by promotion of eligible faculty and recruitment.

From SWOT analysis, 4 strategies – SO strategy, WO strategy, ST strategy and WT strategy – were developed for the institution and are summarized below.

S-O STRATEGIES		W-O STRATEGIES	
1	Emphasis on research, tie-ups with national and international Universities; collaboration and joint ventures with industry, setting up of a research centre in Electronics Engineering.	1	Procure sophisticated equipment and improve lab facilities in thrust areas.
2	Student and faculty exchange programmes and promoting eligible faculty to improve the morale and motivation.	2	Devise avenues to retain faculty with potential, and enable the use of creative student potential
3	Development of the student's potential through	3	Become an autonomous institution,

	soft skill and professional skill development programs conducted under the aegis of a finishing school		financially and academically
4	Catering for the demand of industry centric specialized workforce, by revision of curricula to suit industry requirements, once autonomy is achieved.	4	Adequate training programmes for staff and students
5	Enhancement of learning resources and facilities by availing ICT learning, and improving E learning	5	Add new UG programs in Core Engineering subjects and PG Programs

S-T STRATEGIES		W-T STRATEGIES	
1	Incentive for faculty doing research and R&D work; conducting remedial classes	1	Library facilities should be improved. Procure more text books and subscribe to more number of online International Journals
2	Academic autonomy should be obtained at the earliest	2	Finishing school should be started to improve the soft skill of students
3	Faculty development for effective teaching and research competence	3	Explore the possibility of entering into collaboration with R&D Institutions and Industry
4	Regular updation of lab cycles and improvement in lab equipment.	4	Regular orientation courses on emerging trends in job markets to strengthen the placement activities.
5	Starting of add on courses with practical orientation.	5	Obtaining Non Plan Grant funds from the Govt. for infrastructure development including hostels and play grounds, Raising funds from government agencies, starting new courses, consultancy and government funded projects.

6. FORMULATION OF STRATEGIES FROM GOALS AND OBJECTIVES

Following the SWOT analysis, the institution has acquired the capability to monitor the micro and macro environmental factors that could affect its functioning. SWOT analysis is a subjective approach and now that it has been undertaken, the institution has moved onto specific “Goal Formulation” for the development of a strategic plan. The Goals have been formulated following a specific hierarchy, from the most important to the least important. Care has been taken to ensure that the Goals are realistic. These Goals, derived from the subjective portion of the SWOT analysis are statements of direction of effort towards achieving the Mission and the long term Vision.. It is observed from the SWOT analysis that the institution has the opportunity for the enhancement of research activity, development of faculty & staff and starting of new PG & UG programmes which will help in attaining its long term vision of becoming a centre of excellence in knowledge and technology. Insufficient funds for starting innovative and need-based programmes, obsolescence of lab equipments, lack of civil infrastructure including hostel facility etc are perceived as major threats. An important factor is the demand for more research facilities in Engineering and technology in the state and country to bridge the gap between supply and demand of Engineering Post Graduates and Ph.Ds. As the institution is having a pool of well-qualified and experienced faculty, the same may be tapped to equip the institution with courses and research opportunities in most demanding areas.

Once the Goals were formulated, they were mapped on to specific precise and tangible Objectives, milestones that are to be realized in order to achieve the Goals. Care was taken to ensure that the Objectives so framed were specific, measurable, attainable, relevant and time bound. The Strategies were formulated by listing out the Goals, mapping them onto specific and tangible objectives and by listing out the strategies for achieving the goals.

The Goals were broadly grouped into essential categories concerning the following:

- ✚ Educational Processes
- ✚ Human Resources
- ✚ Financial Resources
- ✚ Physical Resources
- ✚ Relationship building
- ✚ Governance

The Goals in the category Educational Process were identified as below,

- 1.Improving Academic Performance
- 2.Improving the teaching learning process
- 3.Enhancing research and consultancy
- 4.Scaling up of PG Programmes

The Goals in the category Human Resources were identified as below,

1. Improving the input quality of the institute
2. Training for faculty and staff
3. Improving Employability of the Graduates
4. Improving morale and motivation of Faculty and Support Staff
5. Recruitment of faculty and support staff

The Goals in the category Financial Resources were identified as below,

1. Consultancy work by Faculty
2. Undertaking sponsored research projects from funding agencies
3. Increasing intake of students to improve revenue
4. Continuing Education Programmes for students and practising Engineers to improve revenue

The Goals in the category Physical Resources were identified as below,

1. Improving Civil Infrastructure facilities
2. Improving Laboratory facilities
3. Improving Campus networking

The Goals in the category Relationship Building were identified as below,

1. Improving industry interaction
2. Improving interaction with Reputed Academic Institutions
3. Alumni for leveraging their contributions to their Alma Mater

The Goal in the category Governance were identified as below,

1. Achieve Autonomy

These Goals were mapped onto tangible objectives and strategies to achieve the objectives were devised after deliberations among the various stake holders, viz. the Board of Governors, Faculty and Support Staff, Student Representatives and Representatives of the parents. This mapping is illustrated in the following tables.

6.1.1 Educational Processes

GOALS	OBJECTIVES	STRATEGIES	Key Performance Indicators
1.Improving Academic Performance	Avoid loss of contact hours by compensating for classes lost due to unforeseen circumstances	Compensate for lost working days by working on the following Saturday	Pass percentage improved by 5 % per year and 10 % in two years
	Reduce Absenteeism in the class by 50%	Effective staff advisory system for interacting with students and parents, campus automation software to convey daily attendance of students	
	Improve pass percentage by 5 % in two years	Remedial coaching for weaker students	
		Conduct Scholar classes by Expert Academicians and Scientists for introductory sessions for analytical subjects in the curriculum	
2.Improving the teaching learning process	All faculty members to utilize multimedia facilities for teaching	Install Multimedia projectors in all class rooms, install Interactive white boards in all seminar halls	

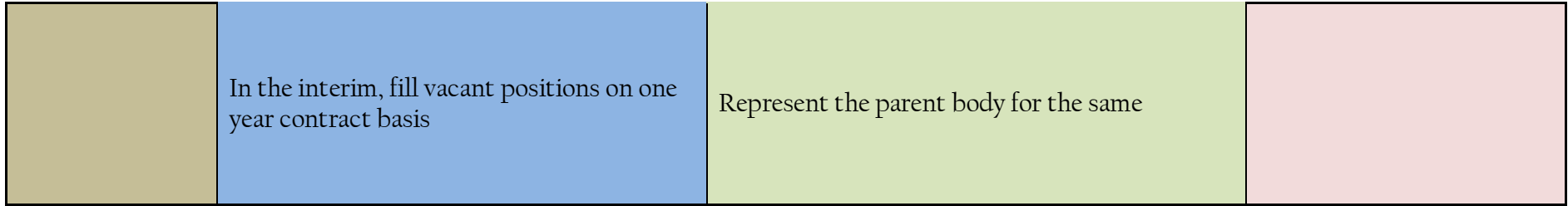
	Use of Simulation software (especially Open Source) to be promoted among faculty and students and at least 50% of Engineering faculty to use such tools for lectures	Faculty and Students to be given extensive training on such software	
	Promote the use of learning platforms such as Moodle	Provide a Moodle server and encourage faculty and students to develop e-content	
3. Enhancing research and consultancy	All faculty with MTech registering for PhD within two years	Increase number of faculty deputations for research	All regular faculty acquiring PhD in 7 years
	All senior faculty to undertake one industrial consultancy/sponsored research project from funding agencies	Allocate points for such activities while awarding grade promotions	All senior faculty at the level of Associate Professor or above undertaking at least one consultancy work/sponsored project

	All faculty to attend in house and external IIC workshops		
4. Scaling up of PG Programmes	Curriculum revision of current PG programmes	Achieving Academic Autonomy	The curriculum for the current PG programmes being revised in two years.
		In the short run (before Academic Autonomy is achieved, approach Board of Studies of CUSAT for curriculum revision)	
	Start PG Programmes in Manufacturing Management and Power Systems	Submit proposal to State Govt., Affiliating University and AICTE for necessary administrative sanctions	The new PG Programmes commencing in two years.

6.1.2 Human Resources

GOALS	OBJECTIVES	STRATEGIES	Key Performance Indicators
1. Improving the input quality of the institute	All students admitted on general merit to have entrance rank better than 10000, in five years	providing hostels, improved transport and recreational facilities	Improved results and placements
2. Training for faculty and staff	All faculty to undergo basic and advanced pedagogical training in two years	Utilize the training programmes conducted by NITTRs	Improved teaching as reflected in student satisfaction survey
	All faculty to undergo subject domain training every year	Utilize the training programmes organized by IITs and other reputed Institutes	
3. Improving Employability of the Graduates	Setting up of Finishing school to provide soft skill training to all students	Conduct diagnostic tests to identify students who require greater attention to improve their soft skills. Procure services of a reputed trainer to provide soft skill training	Improved placements

	Every student in the final and pre-final year to undertake Industrial visits .Conduct Industry Interaction programmes for all students to make them aware of Industrial practices and requirements	Make Internships in Industry mandatory for the final and pre-final students	
4. Improving morale and motivation of Faculty and Support Staff	Timely award of service benefits	Modify service rules appropriately, Convene meetings of the Department Promotion Council for award of benefits to eligible faculty and staff	Improvement in faculty/staff satisfaction survey
	Avoiding red tapism in the administrative setup	Ensure file movement, sensitize administrative staff, strict monitoring of file movement	
5. Recruitment of faculty and support staff	Ensure timely recruitment process once autonomy is achieved	Complete formalities for achieving academic autonomy	At least 70 % of faculty positions to be filled by regular faculty



6.1.3 Financial Resources

GOALS	OBJECTIVES	STRATEGIES	Key Performance Indicators
1. Consultancy work by Faculty	All regular faculty to undertake consultancy work	Give service incentives by way of points for awarding grade promotion, and allow the concerned faculty to retain 20% of the fund generated through consultancy	Number of consultancies undertaken
2. Undertaking sponsored research projects from funding agencies	All faculty with Doctoral Degrees to undertake sponsored research from funding agencies	Provide seed money to conduct initial studies, utilize student projects at PG level, submit to funding agencies for approval	Number of Sponsored research projects and revenue generated
3. Increasing intake of students to improve revenue	Start additional batch of 60 students in BTech Electrical Engineering, and increase intake of students in BTech Computer Science from 90 to 120 in next academic year	Submit proposal to Govt of Kerala, CUSAT and AICTE	Increased revenue
4. Continuing Education Programmes for students and practising Engineers to improve revenue	All Departments to conduct at least one Add on Certification Programme, open to students of other colleges and practicing Engineers	Advertise in Leading state dailies	Number of programmes and revenue generated

6.1.4 Physical Resources

GOALS	OBJECTIVES	STRATEGIES	Key Performance Indicators
1. Improving Civil Infrastructure facility	Providing Hostel ,Canteen facility for students and staff	Utilize PTA funds, plan funds from State Govt, and seek assistance from MLA and MP funds	Better quality in the intake of students
	Providing Additional Built up space for Laboratories , Class rooms, Auditorium and Toilet Block		
	Improving the recreational facilities including playground and Amphitheatre facility		

<p>2. Improving Laboratory facilities</p>	<p>All obsolete equipments in existing laboratories to be replaced</p>	<p>Utilize TEQIP-II funds for procurement to modernize laboratories and setup new laboratories</p>	<p>Number of laboratories modernized and number of new laboratories established</p>
<p>3. Improving Campus networking</p>	<p>Provide networking through OFC backbone and Wi-Fi</p>	<p>Utilize TEQIP-II funds for procurement of equipments and installation</p>	<p>Percentage of Total Campus area that has been networked, data rates, number of access points</p>

6.1.5 Relationship Building

GOALS	OBJECTIVES	STRATEGIES	Key Performance Indicators
1. Improving industry interaction	Joint projects with Industry in all Departments	Explore possibilities for associating with Info Park Cherthala and Info Park Kochi, and neighbouring industries	Number of joint projects, Number of training programmes conducted for local industry, Number of student projects in association with local industry, Number of talks delivered by Experts from Industry
	Internships for final year and pre-final year students in Industry		
	At least five Major and Mini Projects will be carried out in collaboration with industry		
	Special training programs in relevant areas shall be conducted for the benefit of local industry		

2. Improving interaction with Reputed Academic Institutions	Invited talks by experts from Industry	Explore possibilities for associating with IITs, IISc etc for mentoring CE Cherthala	Number of talks conducted
	Industrial visits for all final year and pre-final year students		
	Invited talks by Experts from Academia		
	Joint Research with reputed Academic Institutions		Number of joint research publications
3. Alumni for leveraging their contributions to their Alma Mater	Conduct Alumni meet every December	Utilize social media to connect with Alumni and activate the Alumni Chapter	Alumni meet conducted every year



6.1.6 Governance

GOALS	OBJECTIVES	STRATEGIES	Key Performance Indicators
1. Achieve Autonomy	Achieve Managerial, Financial, Academic and Administrative Autonomy in two years	<p>Delegate Additional Financial powers to the Principal and Head of Departments. Train all senior faculty in Institutional Governance by deputing to Management Capacity Development Programs at IIMs and other reputed Institutions</p> <p>All eligible Programmes to be accredited.</p>	<p>Obtain Autonomous status. Obtain 12B and 2F status of UGC</p> <p>Obtain Accredited Status from NBA</p>

Considering all the above inputs along with the SWOT analysis the goals and objectives – both short term and long term are developed.

6.2.1 LONG TERM GOAL

- Become a contributing centre of excellence in the field of
Signal Processing
- Cater to the needs of the society in the areas of our expertise.
- Run UG and PG programs in the areas relevant to the times.

By 2024, the institution will be in a position to achieve the above Goals.

6.2.2 SHORT TERM OBJECTIVES FOR THE NEXT THREE YEARS, I.E., 2014-2017

- To have in place processes for monitoring the quality of teaching and learning, and within institutions for improving that quality with appropriate student involvement
- Utilizing the available expertise, new PG programs will be started in the fields of
Power Systems
Manufacturing Management
- Acquiring basic facilities for starting UG programs in Mechanical engineering
- Up-gradation of existing Labs
- Setting up of new labs
Electrical Machines Lab
Power Electronics Lab
Advanced Electrical Engineering Lab
Electrical PG Lab
Advanced Computing Centre
Project Lab
Advanced Communication lab
Advanced Signal Processing lab

Advanced Computing Lab

- Promote research among UG & PG students by providing financial aid for
Paper presentation and live projects.
Industrial visits
Project support
Include students in funded projects.
- Enhancing the facilities of UG lab to undertake research oriented projects.
- Furnishing the new Academic block - Furnishing the labs, class rooms and faculty rooms
- Training faculty in pedagogical methods, research methodology, and subject knowledge up-gradation and management capacity development.
- Promotion of open source software to the maximum possible extent, to encourage students to incorporate their own contributions without inhibitions.
- Deputing more number of faculty for Masters / Doctoral programmes/Post Doctoral Programmes
- Promoting Publication & patents
- Developing learning resources
- Obtaining ISO Certification and NBA accreditation
- Setting up of language lab
- Conducting remedial programs for weaker students to improve results.
- Promotion of research among UG & PG students and enhancing the facilities of
UG lab to undertake research oriented projects.

6.2.3 SHORT TERM OBJECTIVES AFTER 2017

- Revenue generation for the sustainability of established PG and Research Labs by
 - # Encouraging Faculty to undertake Funded Projects
 - # Encouraging faculty to undertake consultancy work
 - # Conducting training programmes for other institutions
- Extending the facilities acquired at nominal rates (rental) to industry/society.

- Empowerment of other institutions in the similar areas of technical Excellence.
- Emerge as a nodal institution to co-ordinate academic activities in the cluster institutions
- Produce patents and publications in the areas of excellence.
- Create environment for the students to become entrepreneurs
- Establish an entrepreneurship development cell acting as a launch pad for various start ups

6.3 CHALLENGES IN IMPLEMENTING THE STRATEGIC PLAN

- Shortage of faculty
- Time consuming approval process of University, AICTE and NBA
- Slow response of industry for enhancing interaction
- Disturbance in academic schedule due to frequent faculty transfers among IHRD institutions
- Time consuming process of appointment of faculty

6.4 SUMMARY

The strategic plan developed here is not a fixed plan. It was developed following a brain storming session in which representatives of all the stake holders participated. The plan will be suitably updated to take into account the changes that might occur in the environment, through short term and long term adaptation.

7. GOVERNANCE PLAN

7.1 GOVERNANCE DURING TEQIP PHASE

This phase which extends to the end of TEQIP project is the most crucial in terms of the development of a successful governance plan in the post TEQIP phase. The governance plan is conceptualized towards achieving Administrative, Managerial, financial and Academic Autonomy after the completion of the TEQIP-II project at C E Cherthala.

The institution enjoys substantial financial and administrative autonomy, but lacks managerial and academic autonomy. TEQIP phase envisages granting all these autonomies. At the end of TEQIP phase, it is expected that institution will be able to rationalize the fee structure, will receive *Block grant* for recurring expenditure, on a generally agreed formula based on the institutional parameters such as number of students, faculty and staff, infrastructural facilities etc. During this phase the governance of the institution will be done various committees formed for the institutional development will oversee the transition.

The following Committees formed for the implementation of the TEQIP project will guide the transition to an autonomous Institute.

Sl. No	Heads & Nodal Officers	Name & Designation of faculty in position	Roles & Responsibilities
1	Head	Principal Dr. P Suresh Kumar	Overall Implementation under the guidance of BOG. Will be the chief executive officer
2	Coordinator	Dr. Vinu Thomas Associate Professor	Overall Monitoring, Monitoring of Performance
3	Nodal Officer (Procurement)	Prof. Manilal D L Associate Professor	Institutional Procurement plan Procurement Arrangements

			Procurement audit
4	Nodal Officer (Finance)	Prof. Pradeep M Associate Professor	Financial Plan Fund Allocation Finance Audit
5	Nodal Officer (Academic)	Dr. Jobymol Jacob Associate Professor	Academic Plan Implementation of institutional reforms
6	Nodal Officer (Equity Assurance)	Prof. Sarakutty K J Associate Professor	Equality for gender and cast, equal opportunities to faculty, staff, students and departments
7	Nodal Officer & (Monitoring & Evaluation)	Mr. Irshad Ali T K Assistant Professor	Monitoring of Targets for deliverables as per development plan, Performance Audit
8	Nodal Officer (Civil works)	Prof. Priyakumar T N Associate Professor	Monitoring of Civil works

SUB-COMMITTEES

The following sub-committees are formed under the respective nodal officers for the effective implementation of the development plan.

Sl. No	Committee	Responsibilities
1	Academic Committee	Academic Plan, Implementation of Institutional reforms, etc
2	Finance Committee	Financial Plan, Fund allocation, Audit etc.
3	Purchase Committee	To make purchase of goods, works and services as per Procurement guidelines
4	Civil Works	Prepare, plan and coordinate Civil Works

	Committee	
5	Technical Evaluation Committee	To evaluate the procurement proposals technically and commercially
6	Monitoring & Evaluation committee	Monitoring of Targets for deliverables
7	Library Committee	Plan for digital library, books & LR's, Journals, softwares needed etc.
7	Research & Development Committee	Promotion of research and consultancy, giving R & D guidance, planning R & D projects and UG/PG sponsored project
8	Faculty & Staff Development Committee	Training Plan based on TNA, Short Term, Long Term Trainings, Seminars, Workshop etc.
9	Continuing Education Programmes Committee	Plan and conduct CEP programmes as per needs. Conducting skill development programmes for society
10	Committee for Weaker Students	Identify weaker students, conduct bridge courses, etc as per PIP
11	Career Advancement Monitoring Committee	Planning & Implementing Career advancement programmes Conduct of Finishing schools
12	Industry-Institute Interaction Committee	Arranging Lectures by industrial experts Collaborative projects, Field studies Tutoring by Industry experts for Campus Faculty visits to industry Memoranda of Understanding with industries Instituting Scholarships /fellowships and Awards by industries for students and faculty
13	Equity Assurance Committee	Equality for gender and cast Equal opportunities to staff, faculty, Departments and students

7.2 GOVERNANCE IN POST TEQIP PHASE

It is assumed that by the end of the project, the institution will be autonomous in all aspects as required. Governance plays a major role in achieving the strategies defined by the mission of the institution. Changes in the organizational structure will help in improving work culture, decision making and the overall performance of the institute. The institution enjoys substantial autonomy in managerial, administrative and financial areas at present, as the administration is not done directly by the State Government. All internal revenue generated in terms of tuition fee, consultancy etc can be retained in the institution. Almost all the managerial and administrative matters are done at the institutional level except faculty and staff recruitment. Academic autonomy is aimed to be achieved by the end of the project. Considering the above, the institutional activities will be streamlined by introducing the following units.

7.2.1 PRINCIPAL

The Principal will be the chief executive of the institution, responsible for advice to the governing body in relation to strategic direction and is accountable to the governing body for the effective management of the institution. The governance functions and of BOG and the executive responsibilities of the principal will be clearly demarcated.

7.2.2 CONTROLLER OF EXAMINATION

This office will be responsible for conducting the examination including preparing the question papers, valuation publishing the grades. The office will be responsible for introducing modern automation tools to reduce administrative work. The office

has to periodically review the evaluation process and suggest modifications in tune with emerging trends such as

- Peer evaluation of assignments
- online submission of assignments
- Automated quizzes

This office will not be confined to just conducting the written examination, but will also devise innovative methods for student evaluation.

7.2.3 DEAN (ACADEMIC)

The office of the Dean is the most important in the context of Academic Autonomy. The office of the Dean will be responsible for all academic matters, including curriculum revision, faculty training etc. Dean will also be responsible for innovating instruction delivery, equity assurance etc.

7.2.4 ACADEMIC COUNCIL

An academic council will be formed with representatives from all disciplines, giving special emphasis on experts from industries. The body will be responsible for the following

1. Revising the curriculum
2. Credit transfer
3. Introducing new courses based on the needs of the society as well as industry

7.2.5 REGISTRAR (ADMINISTRATION, PLANNING & FINANCE)

Registrar will be responsible for most of the administrative matters.

In addition to the routine administration the following functions will be entrusted with the registrar

1. Ensuring the block grant for the institution based on an acceptable formula

2. Formulate the budget
3. Establish incentives for the faculty and staff for performance
4. Rationalize the fee structure
5. Creating and attracting endowments
6. Interact with funding agencies, including UGC, AICTE, CSIR to attract projects for the institution

7.2.6 CONFLICT RESOLUTION AND REDRESSAL

A committee for conflict resolution and redressal will be instituted with the following functions.

1. Resolve the conflicts among various functional unit that may arise due the introduction of new governance structure
2. Redress the grievances of faculty, staff and students
3. Resolve the differences of opinions among the stakeholders

7.2.7 INDUSTRY INSTITUTE LINKAGE

The unit will be having responsibilities including

1. Student internship
2. Establishing consultancy centre
3. Establishing Incubation and innovation centre
4. starting tailor made programmes for industrial personals
5. Skill development centre