

# **COLLEGE OF ENGINEERING KARUNAGAPPALLY**

## **ACTION PLAN (NOVEMBER 2013- DECEMBER 2014)**

<b>Component</b>	<b>Action Plan for</b>
Faculty and Staff Development	120 lakhs
PG Assistantships	65 lakhs
R&D	20 lakhs
Managament Capacity Enhancement	30 lakhs
IIC	54 lakhs
Reforms	20 lakhs
Conferences (3 numbers)	15 lakhs
EAP	56 lakhs
<p>Action Plan has been prepared for the Academic programs based on the course calendars published by IITs, IIMs, NITs and other Institutes. Further programmes will be planned as and when the new course calendars are published by these Institutes. The plans that have been prepared till date are attached herewith.</p>	

## FACULTY AND STAFF DEVELOPEMENT PROGRAMME

**Department :Computer Science & Engineering**

**Faculty Development Plan for Training in Subject Domain based on TNA for BOG approval**

No	Name	Course	Tentative date	Duration	Institution	Expenditure
1	Remya.R.S	Accreditation and Autonomy	6-8 January 2014	3 Days	ISTE ,Kanyakumari	35,000
		Effective Teaching and pedagogy	12-19 feb 2014	7 Days	ISTE ,Kanyakumari	40,000
		Bioinformatics and privacy protection	Dec 23,24,25	3 days	MNIT Jaipur	40,000
2	Vinod R	Linux Server Administration	Nov 25-29,2013	5 Days	ESCI,Hyderabad	40,000
		Configuring and securing wireless Network Infrastructure	Dec 1-19,2013	5 Days	ESCI Hyderabad	40,000

		Windows Server 2008 Administration	Jan6-10	5 Days	ESCI Hyderabad	40,000
3	Jyothi.R.L	Internet Technologies and Web Developing Methods	17-20 Feb2014	4 Days	ESCI Hyderabad	40,000
		Bioinformatics and privacy protection	Dec 23,24,25	3 days	MNIT Jaipur	40,000
4	Sabeena.K	Internet Technologies and Web Developing Methods	17-20 Feb2014	4 Days	ESCI Hyderabad	40,000
		Bioinformatics and privacy protection	Dec 23,24,25	3 days	MNIT Jaipur	40,000
5	Manoj Ray D	Configuring and securing wireless Network Infrastructure	Dec 1-19,2013	5 Days	ESCI Hyderabad	40,000

		Windows Server 2008Administration	Jan6-10	5 Days	ESCI Hyderabad	40,000
6	Smitha.P	Bioinformatics and privacy protection	Dec 23,24,25	3 days	MNIT Jaipur	40,000
<b>Total</b>						<b>6,15,000</b>

**In-house Training Programmes / Continuing Education Programmes plan for BOG approval**

No	Name	Course	Tentative date	Type	Duration	Participation expected	Expenditure
1	Remya.R.S AlkhaMohan	Data Compression techniques	Feb 2014	Expert Lecture	1 Day	30	20,000
2	Remya R S Aiswarya.S.Kumar	Video Compression	March 2014	Expert Lecture	1 Day	30	20,000

3	Remya R S Mehruniza.N	Audio Compression	April 2014	Expert Lecture	1 Day	30	20,000
4	Smitha.P Diana Mathew	Introduction to medical Imaging	March2014	Expert Lecture	1 Day	30	20,000
5	Smitha P Santhini Paul	Medical Imaging Techniques	April 2014	Expert Lecture	1 Day	30	20,000
6	Jyothi R L Jaya Krishnan	Introduction to random processes	Feb 2014	Expert Lecture	1 Day	30	20,000
7	Sabeena.K Alka Mohan	Series representation of random process	April 2014	Expert Lecture	1 Day	30	20,000
8	Jyothi R L Sabeena K Vinod R	FDP on Pattern Recognition and Machine Learning	May 2014	Training	5 Days	30	2,00,000
Total							3,40,000

**Staff Development Training in Subject Domain based on TNA already attended without BOG approval for Technical staff**

No	Name	Course	Tentative date	Duration	Institution	Expenditure
1	SreeLatha P	Computer Harware Maintance	28/10/2013 3,29/10/2013	2 days	TKM college of Engineering	2500
2	SreePriya S	Computer Harware Maintance	28/10/2013 3,29/10/2013	2 days	TKM college of Engineering	2500
<b>Total</b>						5000

**Department :Electrical & Electronics Engineering**

**Faculty Development Training in Subject Domain based on TNA already attended without BOG approval**

No	Name	Course	Tentative date	Duration	Institution	Expenditure Rs.
1	Libi A	Recent Trends in Renewable Energy Systems	10/06/13 to 14/06/13	5 days	College of Engineering Adoor	1932

2	Libi A	Testing and commissioning of Electrical Equipments	18/07/2013 to 22/07/2013	5 days	ESCI Hyderabad	41054
3	Sabeena A	PLC& SCADA	30/9/2013-05/10/20	5days	CE Cherthala	2913
4	Aryamol Sudhakaran	PLC& SCADA	30/9/2013-05/10/2013	5days	CE Cherthala	2913
5	Libi A	Quality Initiatives in Higher& Technical Institutions (NBA & NAAC Accreditation)	22.10.13-24.10.13	3 Days	ESCI Hyderabad	35,302
<b>Total</b>						48812

**Faculty Development Plan for Training in areas other than Subject Domain based on TNA already attended without BOG approval**

Sl. No.	Name	Subject / Area of Training	No. of faculty identified for training in the area	Duration (Days)	Tentative Date	In-house / Name of Network TEQIP Institution / National Trainer	(Expected) Expenditure	(Expected) Outcome / Objective
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						Organisation		
1	Libi A	Quality Initiatives in Higher & Technical Institutions (NBA & NAAC Accreditation)	1	3		ESCI Hyderabad	35,302	To conduct accreditation work
Total								35302

**Faculty Development Plan for Training in Subject Domain based on TNA**

No	Name	Course	Tentative date	Duration	Institution	Expenditure
1	Haseena P Y	Labview Programming	4/11/2013-8/11/2013	5 Days	NITTTR, Chennai	25000
2	Haseena P Y	Effective Teaching and pedagogy	12-19 feb 2014	7 Days	ISTE ,Kanyakumari	40,000
3	Haseena P Y	Role of Power Electronics in Modern Electrical System	23-27 December	5 days	MNIT Jaipur	40000



4	Libi A	Circuit Schematic and Simulation using Multisim	06.01.2014 to 10.01.2014	5 days	NITTTR, Chennai	25000
5	Libi A	Effective Teaching and pedagogy	12-19 feb 2014	7 Days	ISTE ,Kanyakumari	40,000
6	Libi A	Special machines and Control	03.03.2014 to 07.03.2014	5 days	NITTTR, Chennai	25000
7	Vinod S	MAINTENANCE AND SERVICING OF ELECTRICAL AND ELECTRONIC LAB EQUIPMENTS	4/11/2013-8/11/2013	5 Days	CE, Vadakara	5000
8	Ajay Babuji	MAINTENANCE AND SERVICING OF ELECTRICAL AND	4/11/2013-8/11/2013	5 Days	CE, Vadakara	5000

		ELECTRONIC LAB EQUIPMENTS				
9	Resmi V S	Smart Power Electronic Controllers using PLDs	18/11/2013-22/11/2013	5 days	RIT Kottayam	8000
10	Sabeena A	Smart Power Electronic Controllers using PLDs	18/11/2013-22/11/2013	5 days	RIT Kottayam	8000
11	Aryamol Sudhakaran	Smart Power Electronic Controllers using PLDs	18/11/2013-22/11/2013	5 days	RIT Kottayam	8000
<b>Total</b>						2,29,000

**In-house Training Programmes / Continuing Education Programmes Plan**

No	Name	Course	Type	Tentative date	Duration	Participation expected	Expenditure
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1	Libi A Sabeena A Vinod S	Control System Theory and Practice	Training	10/12/13- 14/12/13	5 days	30	85,000
2	Haseena P Y Resmi V S	Implementation of Power Electronics Systems	Training	04/03/14- 08/03/14	3 Days	30	45,000
3	Aryamol Sudhakaran Resmi V S	8086 Programming and Advanced Microprocessor	Training	16/06/14- 18/06/14	3 Days	30	45,000
4	Libi A Haseena P Y	MATLAB for Simulation and Design	Training	21/08/14/- 25/08/14	5 Days	30	85000
5	Libi A Haseena P Y	Workshop on Robotics	Workshop	29/11/2013- 30/11/2013	2 Days	30	40000
6	Libi A Haseena P Y	Power Electronics and Electrical Drives	workshop	17/07/2014- 18/07/2014	2 days	30	40000

7	Libi A Haseena P Y	Special Machines and drives	Seminar	23/01/2014	I Day	30	25,000
8	Libi A Haseena P Y	Robotics and Mechatronics for Industrial Automation	seminar	18/03/2014	I Day	30	30,000
9	Libi A Haseena P Y	Advances in Power Systems	seminar	20/08/2014	I Day	30	30,000
<b>Total</b>							4,25,000

**Staff Development Plan for Training in Functional Area based on TNA for Technical Staff**

Sl. No.	Subject / Area of Training	No. of staff members identified for	Duration (Days)	Tentative Date	In-house (Own Dept / Other Dept)/ Name of Network TEQIP	(Expected) Expenditure
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		training in the area			Institution / National Trainer Organisation	
<b>1</b>	Earthing and Protection	2	2	Feb 2014	In-House/NITTR	40,000/
<b>2</b>	Circuit Simulation and PCB Design Lab	3	3	Jun 2014	In-House/NITTR	60,000
<b>Total</b>						<b>1,00,000</b>

#### Seminars planned for Technical Staff

Sl. No	Subject / Area	From - To	No. of days	Participation (nos) Expected				Planned Expenditure
				Faculty	Staff	Students	Total	
1	Electrical CAD	19/09/14-20/09/14	2	7	3	55	65	40000
	<b>Total</b>							<b>40000</b>

## Department :Information Technology

### Faculty Development Plan for Training in Subject Domain based on TNA for BOG approval

No	Name	Course	Tentative date	Duration	Institution	Expenditure
1	Shaji.L	Linux Server Administration	25/11/2013-29/11/2013	5 Days	ESCI Hyderabad	50,000
2	Shaji.L	Internet Technologies and Web Developing Methods	17-20 Feb2014	4 Days	ESCI Hyderabad	50,000
3	AnilKumar.A	Bioinformatics and privacy protection	Dec 23,24,25	3 days	MNIT Jaipur	60,000
4	Anilkumar.A	Internet Technologies and Web Developing Methods	17-20 Feb2014	4 Days	ESCI Hyderabad	50,000
<b>Total</b>						160,000

**In-house Training Programmes / Continuing Education Programmes plan for BOG approval**

No	Name	Course	Tentative date	Type	Duration	Participation expected	Expenditure
1	AnilKumar.A Diana Mathew	Pattern Recognition Fundamentals	Feb 2014	Expert Lecture	1 Day	30	20,000
2	Shaji.L Seena Jojith	Computer Vision Fundamentals	March 2014	Expert Lecture	1 Day	30	20,000
3	Jyothi R .L Sree.S .Bhagya	Random processes as inputs to linear time invariant systems	March 2014	Expert Lecture	1 Day	30	20,000
4	Shaji.L Manoj Ray D Smitha P	Multicore Networks	June 2014	Training	5 Days	30	200000
<b>Total</b>							2,60,000

## ELECTRONICS AND COMMUNICATION ENGINEERING

### Faculty Development Plan for Training in Subject Domain based on TNA for BOG approval

No	Name	Course	Tentative date	Duration	Institution	Expenditure
1	Deepa V S	Semiconductor Technology and Manufacturing .	Dec. 10-15 ,2013.	6 days	IIT Mumbai	60,000
		Advanced Digital Signal Processing	Nov18-22,2013	5 Days	TKM college of Engineering	5000
2.	Shiny C.	Semiconductor Technology and Manufacturing .	Dec. 10-15 ,2013	6 days	IIT Mumbai	60,000
		Accreditation and Autonomy(ISTE Sponsored)	6-8 January 2014 .	3 days	Hotel Sing ar International,Opp.Rail way Station,Kanyakumari-629702.	35,000



3.	Deepa A K.	Semiconductor Technology and Manufacturing .	Dec. 10-15 ,2013.	6 days	IIT Mumbai	60,000
	Reji Thankachan	Effective Teaching and Learning Pedagogy(ISTE Sponsored)	5-7 February 2014	3 days	KTDC Chaithram Hotel,Trivandrum-695001.	35,000
4.		Semiconductor Technology and Manufacturing .	Dec. 10-15 ,2013.	6 days	IIT Mumbai	60,000
		Circuit Schematics and Simulation using Multi Sim.	6-10 January 2014 .	5 days	NITTTR Chennai	30,000
	Sylish S V.	PLC and SCADA .	3-7 February 2014 .	5 days	NITTTR Chennai	30,000
5.		Semiconductor Technology and Manufacturing .	Dec. 10-15 ,2013.	6 days	IIT Mumbai	60,000
		Circuit Schematics and Simulation using Multi Sim.	6-10 January 2014 .	5 days	NITTTR Chennai	30,000

6	Deepa T R	PLC and SCADA	3-7 February 2014 .	5 days	NITTTR Chennai	30,000
		Effective Teaching and Learning Pedagogy(ISTE Sponsored)	5-7 February 2014.	3 days	KTDC Chaithram Hotel,Trivandrum-695001.	35,000
7	Anuja V Nair.	Accreditation and Autonomy(ISTE Sponsored)	6-8 January 2014 .	3 days	Hotel Sing ar International,Opp.Rail way Station,Kanyakumari-629702.	35,000
		Effective Teaching and Learning Pedagogy(ISTE Sponsored)	5-7 February 2014.	3 days	KTDC Chaithram Hotel,Trivandrum-695001	35,000
8	Kuriachan T D	Advanced Linux Administration.	25-28 November 2013	4 days	ESCI Hyderabad.	40,000
		Circuit Schematics and Simulation using Multi Sim.	6-10 January 2014 .	5 days	NITTTR Chennai	30,000
					<b>Total</b>	<b>8,70,000</b>

No	Name	Course	Tentative date	Type	Duration	Participation expected	Expenditure
1	Sylish S V	Labview Programming	Nov 2013	workshop	6 Days	30	2,00,000
2	Reji Thankachan	Advancement in fiber optics Communication	Dec 2013	Training	5Days	30	2,00,000
3	Deepa T R Shiny C	Embedded System Design	Nov 2014	Training	5 Days	30	2,00,000
4	Anuja V Nair Deepa A K	Recent Trends in wire less communication	May 2014	Training	5 Days	30	2,00,000
5	Anuja V Nair Jeena.	MicroController Programming	June 2014	workshop	5 Days	30	2,00,000
6	Bence Paul	MEMS		Seminar	I Day	30	170000
7	Carbon Nano Tubes	Jeena	Nov 2013	Seminar	I Day	30	170000
8	Embedded Systems	Anwarsha	Dec	Seminar	I Day	30	170000
9	Restructuring of Engineering	Sylish S V	Jan 2014	Seminar	I Day	30	30,000

	Curriculum in the perspective of Globalized Economy						
10	Teaching- A passion	Remya S	Feb 2014	Seminar	I Day	30	15,000
11	Advanced communication	Reji Thankachan	March 2014	seminar	I Day	30	15,000
12	Neural Networks	Shiny C	March 2014	seminar	I Day	30	15,000
13	Technical Communication and Writing	Sylish S V	Dec 2013	Workshop	5 Days	30	1,50,000
14	Internet protocol in telecommunication systems	Reji Thankachan	Jan 2014	Workshop	2 days	30	40,000
<b>Total</b>							<b>9,75,000</b>

### In-house Training Programmes / Continuing Education Programmes plan

No	Name	Course	Tentative date	Type	Duration	Participation expected	Expenditure
1	Sylish S V	Labview Programming	Nov 2013	workshop	6 Days	30	2,00,000
2	Reji Thankachan	Advancement in fiber optics Communication	Dec 2013	Training	5Days	30	2,00,000
3	Deepa T R Shiny C	Embedded System Design	Nov 2014	Training	5 Days	30	2,00,000
4	Anuja V Nair Deepa A K	Recent Trends in wire less communication	May 2014	Training	5 Days	30	2,00,000
5	Anuja V Nair Jeena.	MicroController Programming	June 2014	workshop	5 Days	30	2,00,000

6	Bence Paul	MEMS		Seminar	I Day	30	170000
7	Carbon Nano Tubes	Jeena	Nov 2013	Seminar	I Day	30	170000
8	Embedded Systems	Anwarsha	Dec	Seminar	I Day	30	170000
9	Restructuring of Engineering Curriculam in the perspective of Globalized Economy	Sylish S V	Jan 2014	Seminar	I Day	30	30,000
10	Teaching- A passion	Remya S	Feb 2014	Seminar	I Day	30	15,000
11	Advanced communication	Reji Thankachan	March 2014	seminar	I Day	30	15,000
12	Neural Networks	Shiny C	March 2014	seminar	I Day	30	15,000
13	Technical Communication and Writing	Sylish S V	Dec 2013	Workshop	5 Days	30	1,50,000
14	Internet protocol in	Reji	Jan 2014	Workshop	2 days	30	40,000

	telecommunication systems	Thankachan					
<b>Total</b>							7,75,000

**In-house Training Programmes / Continuing Education Programmes plan for Technical Staff for BOG approval**

No	Name	Course	Tentative date	Type	Duration	Participation expected	Expenditure
1	Kuryachan.T.D	Open Hardware design	Jan 2014	Workshop	5 Days	30	2,00,000
2	Kuryachan.T.D	Electronics Product Design	18/11/2013-22/11/2013	Workshop	5 Days	30	2,00,000
3	Kuryachan.T.D	Embedded controls in Andriod	March 2014	Workshop	3 Days	30	60,000
<b>Total</b>							4,60,000

**TOTAL EXPENDITURE PLANNED: 63.38 Lakhs**

**Another 56 Lakhs will be spent for outstation programmes from Jan 2014 to Dec 2014**

**Plan for EAP Programmes (November-2013- December2014)**

**Training Programmes for Students under EAP**

REMEDIAL CLASSES					
EC				330600*2	661200
CS				180000*2	360000
IT				180000*2	360000
EEE				330600*2	661200
			TOTAL		<b>2042400</b>
EXPERT LECTURES					
EC					310000
CS					126000
IT					200000
EEE					200000
			TOTAL		<b>836000</b>
SOFT SKILL				50000*3	<b>150000</b>
BRIDGE COURSES	CS/IT/EC/EEE		60*3		108000
<b>GRAND TOTAL</b>					<b>3136400</b>



## PLACEMENT TRAINING

Sl No	Programme	Year/Semester	Planned date	No of days	No of batches	Estimate Cost
1	Employability Skills	Final Yr	Dec-13	5	2	96000
2	Placement Orientation	Third Yr	Jan-14	5	4	198500
3	Personality Development	Second Yr	Jan-14	5	4	198500
4	Presentation Skills	Mtech	Sep-14	2	2	55200
5	Induction Training	First Yr	Dec-13	4	4	158800
6	Employability Skills	Final Yr	Aug-14	5	4	198500
7	Aptitude Test training	Final Yr	Sep-14	5	4	198500
8	Refresher programme	Final Yr	Oct-14	1	4	39700
9	Placement Orientation	Third Yr	Sep-14	5	4	198500
10	Personality Development	Second Yr	Nov-14	5	4	198500
11	Presentation Skills	Mtech	Sep-14	2	2	55200
12	Induction Training	First Yr	Sep-14	4	4	158800
<b>TOTAL</b>						<b>1754700</b>

## SUBJECT TRAINING

Sl. No.	Training Programme	No. of days	Tentative Dates	Expected Expenditure
<b>Final Year Students (VIII Semester)</b>				
1.	Writing & Presentation Skills	2 days	January 2014	40,000
2.	Workshop on Matlab & Labview	3 days	December 2013	50,000
3.	Training on Android Programming	3 days	Sept. 2013	50,000
<b>Pre-Final Year Students (VI Semester)</b>				
4.	Training on MYSQL Database development	2 days	January 2013	40,000

5.	PIC Programming	3 days	October 2013	50,000
<b>IV Semester Students</b>				
6.	Training Programme on Personality Development	3 days	February 2013	50,000
7.	Microcontroller Programming	3 days	May 2014	50,000
8.	Advancements in Electrical Measurements	2 days	January 2014	30,000
<b>First Year Students</b>				
9.	Workshop on Time Management	2 Days	January 2013	40,000
10	Training Programme to improve Communication Skills	2 Days	February 2013	40,000

**TOTAL PLANNED EXPEDITURE UNDER EAP : Rs. 54 Lakhs**

## **ACTION PLAN IIIC**

### **Computer Science and Information Technology**

#### **Expert Lectures**

Sl No	Name of Lecture	Expert/Industry involved	No of days	Proposed date	Target UG/PG	No of students	Expected Expense
1	Graphics and Web Designing	Seaview Support System Pvt. Ltd. Technopark	1	Nov-13	UG and PG	100	25,000
2	Distributed and Mobile Computing	Apple India Ltd., Bangalore	1	Nov-13	UG	50	20,000
3	Software Development Process	Seaview Support System Pvt. Ltd. Technopark	1	Dec-13	UG	50	18,000
4	Android Operating System	Seaview Support System Pvt. Ltd. Technopark	1	Dec-13	UG and PG	100	25,000
7	Open Source Software	NEST, Trivandrum	1	Feb-14	UG	50	20,000
9	Advanced Image Processing Techniques	CDIT, Trivandrum	1	Mar-14	PG	40	15,000
10	Network Security and Cryptography	Seaview Support System Pvt. Ltd. Technopark	1	Mar-14	UG	50	20,000
11	Introduction to Open GL with Graphics	VSSC, Trivandrum	1	Apr-14	PG	40	15,000
12	Developments and challenges in cloud computing	Seaview Support System Pvt. Ltd. Technopark	1	Apr-14	UG and PG	100	25,000
15	Advanced Computer Networks	CDAC, Trivandrum	1	Jun-14	UG	50	20,000
16	Computer Vision : Concepts	CDAC, Trivandrum	1	Jun-14	PG	40	15,000

17	Medical Imaging Techniques	SCT, Trivandrum	1	Jul-14	PG	40	15,000
18	Network Administration	Seaview Support System Pvt. Ltd. Technopark	1	Sep-14	UG	50	20,000
19	Machine Learning	Bosch Ltd, Jaipur	1	Oct-14	UG and PG	100	25,000
20	Bioinformatics	Apticraft, Indore	1	Oct-14	UG and PG	100	25,000
21	Advanced DataBase Concepts	UST Global, Trivandrum	1	Oct-14	UG	50	20,000
22	Computer Linguistics	Genesis Linguistics, NewDelhi	1	Nov-14	UG and PG	100	25,000
23	Applications of Linear algebra in Computer Science	IISc Banglore	1	Nov-14	UG and PG	150	30,000
24	Advanced Techniques in Datamining	Seaview Support System Pvt. Ltd. Technopark	1	Nov-14	PG	40	15,000
25	Discrete Computational Structures in Computer Science	IIT Madras	1	Dec-14	UG	150	30,000
26	Object Computing	HCL, Chennai	1	Dec-14	UG	50	20,000
27	Game Theory and Fuzzy Logic	IBM, Banglore	1	Dec-14	PG	40	15,000
28	Wireless Communication and networks	BSNL, trivandrum	1	Dec-14	UG	100	25,000
29	Advanced Communication Techniques	BSNL, trivandrum	2	Dec-14	UG	50	30,000
30	Information Security	Appins Technologies, Trivandrum	3	Dec-14	UG	50	30,000
							5,43,000

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### **Students Internship**

<b>Sl No</b>	<b>Visit/Training/Internship</b>	<b>Name of Industry involved</b>	<b>No of days</b>	<b>From</b>	<b>Target UG/PG</b>	<b>No of students</b>	
1	Linux Administration	Seaview Support System Pvt. Ltd. Technopark	4	Nov-13	UG	40	40,000
2	Android Applications Development	Seaview Support System Pvt. Ltd. Technopark	4	Dec-13	UG	40	40,000
3	Multimedia 2D and 3D Animations	Technopark, Trivandrum	4	Jan-14	UG	40	40,000
4	Graphics Implementation with OpenGL	IBM, Banglore	2	Nov-13	PG	40	40,000
5	Image processing with OpenCV	CDIT, Trivandrum	2	Dec-13	PG	40	20,000
14	Internship	Seaview Support System Pvt. Ltd. Technopark	1 week	May-14	UG	30	60,000
15	Internship	Seaview Support System Pvt. Ltd. Technopark	1 week	May-14	UG	30	60,000
16	Internship	Seaview Support System Pvt. Ltd. Technopark	1 week	May-14	UG	30	60,000
17	Internship	Seaview Support System Pvt. Ltd. Technopark	1 week	Jun-14	PG	30	60,000
18	Internship	CDAC Trivandrum	1 week	May-14	UG	30	60,000
19	Internship	CDAC Trivandrum	1 week	Jun-14	PG	30	60,000

20	Internship	CDAC Trivandrum	1 week	Jun-14	PG	30	60,000
21	Internship	BSNL Training Centre , Trivandrum	2Weeks	May-14	UG	30	80,000
22	Internship	BSNL Training Centre , Trivandrum	2Weeks	May-14	UG	30	80,000
23	Internship	BSNL Training Centre , Trivandrum	2Weeks	Jun-14	UG	30	80,000
24	Internship	BSNL Training Centre , Trivandrum	2Weeks	Jun-14	PG	30	80,000
25	Internship	BSNL Training Centre , Trivandrum	2Weeks	Jun-14	PG	30	80,000
26	Industrial visit	Technopark, Trivandrum	1day	Dec-13	UG	75	25,000
27	Industrial visit	Infosys, Bangalore	1day	Dec-13	UG	75	70,000
28	Industrial visit	IBM, Banglore	1day	Feb-14	UG	75	70,000
29	Industrial visit	Cdot, Banglore	1day	Mar-14	PG	40	50,000
30	Industrial visit	BSNL Training Centre , Trivandrum	1day	Apr-14	UG	75	25,000
31	Industrial visit	VSSC, Trivandrum	1day	May-14	UG	75	25,000
32	Industrial visit	CDAC, Trivandrum	1day	Jun-14	UG	75	25,000
33	Industrial visit	CDIT, Trivandrum	1day	Jun-14	PG	40	25,000
34	Industrial visit	Infopark, Cochin	1day	Dec-14	UG	75	25,000
							<b>13,40,000</b>

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### **Industrial Visit**

<b>Sl No</b>	<b>Visit/Training</b>	<b>Name of Industry involved</b>	<b>No of days</b>	<b>Dates</b>	<b>Duration</b>	<b>Amount</b>
1	Visit	Cdot Banglore	1	Dec-13	3	50,000
2	Visit	Infosys, Banglore	1	Oct-13	3	50,000
3	Visit	CDAC, Delhi	1	Dec-13	3	50,000
4	Visit	STPI, Delhi	1	Feb-14	3	50,000
5	Visit	STQC,Hydrabad	1	Apr-14	3	50,000
6	Visit	CETE Hydrabad	1	Jun-14	3	50,000
7	Visit	IBM, Banglore	1	Jul-14	3	50,000
8	Training on Linux Administation	Spectrum Spft Tech Solution , Cochin	1 WEEK	Nov-13	3	70,000
9	Training on database administration	Pinnacle, Cochin	1 WEEK	Nov-13	3	70,000
10	Training on Network Administation	Seaview Support System Pvt. Ltd. Technopark	1 WEEK	Jan-14	3	70,000
11	Training on Multimedia project design	Aim Mutimedia, Chennai	1 WEEK	Mar-14	3	70,000

12	Training on Open Gl and Open CV	V Create Logic, Bangalore	1 WEEK	May-14	3	70,000
13	Training on Web Designing	Seaview Support System Pvt. Ltd. Technopark	1 WEEK	Aug-14	3	70,000
14	Training on Android Application	Seaview Support System Pvt. Ltd. Technopark	1 WEEK	Sep-14	4	70,000
15	Training on IOS application Development	Apple India Ltd., Bangalore	2 WEEK	14-Oct	3	70,000
	Training on Graphics and Web Designing	Seaview Support System Pvt. Ltd. Technopark	1 WEEK	Nov-14	3	70,000

**Total 980000**

### MoU Planned

Sl.No.	Industry Name	From	To	Planned / Signed	Activities / Objectives
1	IBM Bangalore	Nov-13	Dec-14	planned	Expert lecture, internship, industrial visit
2	Seaview Support System Pvt. Ltd. Technopark	Nov-13	Dec-14	planned	Expert lecture, internship, industrial visit
3	Apple India Ltd., Bangalore	Nov-13	Dec-14	planned	Expert lecture, internship, industrial visit
4	E System Software, Trivandrum	Nov-13	Dec-14	planned	Expert lecture, internship, industrial visit
5	Appins Technologies, Trivandrum	Nov-13	Dec-14	planned	Expert lecture, internship, industrial visit
6	NEST, Trivandrum	Nov-13	Dec-14	planned	Expert lecture, internship, industrial visit



## Electronics and Communication Engineering

Sl.No		Program Type(MOU,Expert lecture,internship,industrial visit)	Department	Industry Name / Instn Name	Date (mm-yy)	No Of Days	Expenditure(Approx)Rs
1	VHDL	Training based on MoU	ECE	NeST	Nov-13	14	25000
2	VHDL	Training based on MoU	ECE	NeST	May-14	14	25000
3	VHDL	Training based on MoU	ECE	NeST	Nov-14	14	25000
4	Moden Communication Technology	Training based on MoU	ECE	BSNL, RTTC Trivandrum	Nov-13	14	30000
5	Moden Communication Technology	Training based on MoU	ECE	BSNL, RTTC Trivandrum	May-14	14	30000
6	Moden Communication Technology	Training based on MoU	ECE	BSNL, RTTC Trivandrum	May-14	14	30000
7	Signal Processing and Trends	Training based on MoU	ECE	NeST	Dec-13	7	20000
8	Signal Processing and Trends	Training based on MoU	ECE	NeST	May-14	7	20000
9	Moden Communication Technology	Training based on MoU	ECE	BSNL, RTTC Trivandrum	Feb-14	7	20000
10	Moden Communication Technology	Training based on MoU	ECE	BSNL, RTTC Trivandrum	Nov-14	7	20000
11	Mobile Networks	Expert Lecture	ECE	BSNL	Aug-13	1	3600
12	Telecommunication	Expert Lecture	ECE	BSNL	Dec-13	1	5000
13	VHDL programming	Expert Lecture	ECE	NeST	Dec-13	1	5500
14	Natural Language Processing	Expert Lecture	ECE		Nov-13	1	5500
15	Digital Image Processing Advancemnts	Expert Lecture	ECE	IITs and NITs	Feb-14	2	22000
16	Signal Processing and Trends	Expert Lecture	ECE	CET	Dec-13	2	22000
17	Entrepreneurship	Expert Lecture	ECE	various firms	Dec-13	10	100000

18	Entrepreneurship	Expert Lecture	ECE	Union Bank	Aug-13	1	5350
19	Signal Processing and Trends	Expert Lecture	ECE	CET	Dec-13	2	22000
20	Biomedical Engineering	Expert Lecture	ECE	SCTIMST	May-14	1	6000
21	Embedded System	Expert Lecture	ECE	DOEAAC/CDAC	Nov-13	1	12000
22	Embedded System	Expert Lecture	ECE	DOEAAC/CDAC	May-14	4	50000
23	Research Opportunities:India and Abroad	Expert Lecture	ECE		Dec-13	1	15000
24	Computer Technology	Expert Lecture	ECE	various firms	May-14	4	50000
25	Control systems	Expert Lecture	ECE	IITs and NITs	Jan-14	4	50000
26	Mobile Networks	Expert Lecture	ECE	BSNL	Jun-14	4	50000
27	Soft Computing	Expert Lecture	ECE	NIT	Nov-13	4	50000
28	Network Security	Expert Lecture	ECE	NIT	May-14	1	12000
29	Telecommunication Networks	Expert Lecture	ECE	NIT	May-14	2	25000
30	<b>LABVIEW</b>	<b>Training based on MoU</b>	ECE	<b>NI</b>	Dec-13	<b>10</b>	300000
31	ITI Palakkad	industrial visit	ECE	ITI Palakkad	Feb-14	1	30000
32	<b>KELTRON</b>	industrial visit	ECE	<b>KELTRON</b>	Dec-13	<b>1</b>	<b>15000</b>
33	SCTIMST	industrial visit	ECE	SCTIMST	Jan-14	1	15000
34	AIR,Doordarsan	industrial visit	ECE	AIR,Doordarsan	Jan-14	1	30000
35	SCTIMST	industrial visit	ECE	SCTIMST	Apr-14	1	14000
36	NeST	industrial visit	ECE	NeST	Feb-14	1	20000
37	KEL	industrial visit	ECE	KEL	Jan-14	1	18000
38	ITI Palakkad	industrial visit	ECE	ITI Palakkad	Feb-14	1	27000
39	BSNL	industrial visit	ECE	BSNL	May-14	1	10000
40	<b>LABVIEW</b>	<b>Training based on MoU</b>	ECE	<b>NI</b>	Dec-14	<b>3</b>	50000
41	BEL/BHEL,	industrial visit	ECE	BEL/BHEL,	May-14	1	150000
42	VSSC	industrial visit	ECE	VSSC	Jun-14	1	50000
43	SCTIMST	industrial visit	ECE	SCTIMST	Feb-14	1	50000
44	AIR,Doordarsan	industrial visit	ECE	AIR,Doordarsan	Jan-14	1	50000
45	ITI Palakkad	industrial visit	ECE	ITI Palakkad	Nov-13	1	70000

46	Digital Image Processing Advancemnts	Expert Lecture	ECE	IITs and NITs	Feb-14	2	22000
47	Optical Fibre Communication	Expert Lecture	ECE	NeST & BSNL	Dec-13	2	22000
<b>TOTAL</b>							<b>1698980</b>

### Electrical and Electronics Engineering

Sl.No	Name of Program	Program Type(MOU,Expert lecture,internship,industrial visit)	Department	Industry Name / Instn Name	Date (mm-yy)	No of days	Expenditure (Rs.)
1	Training at UEL	Training based on MoU	EE	UEL Kollam	Dec-13	5	25000
2	Basics of Electrical Engineering	Expert Lecture	EE		Dec-13	1	10000
3	Industrial visit to KEL,Kundara	Industrial Visit	EE	KEL Kundara	Dec-13	1	5000
4	High Voltage D.C. Transmission	Expert Lecture	EE	KSEB	Jan-14	1	15000
5	Testing of Induction Machines	Expert Lecture	EE	CET TVM	Jan-14	1	15000
6	Brushless Alternator	Expert Lecture	EE	KEL Kundara	Feb-14	1	15000
7	Industrial visit to UEL,Kollam	Industrial Visit	EE	UEL Kollam	Feb-14	1	5000
8	Energy Saving for Domestic Equipments	Expert Lecture	EE	ANERT	Mar-14	1	15000
9	Software engineering for electrical engineers	Expert Lecture	EE		Mar-14	1	10000
10	Two day Training-KEL Kundara	Training based on MoU	EE	KEL Kundara	Apr-14	2	20000
11	Dedicated design tools for electrical	Expert Lecture	EE		Apr-14	1	10000

	engineers						
12	Power Trading and Management	Seminar	EE		Jun-14	1	15000
13	Two day Training-TELK angamaly	Internship	EE	TELK angamaly	Jun-14	1	20000
14	Solar electrification: design and installation	Expert Lecture	EE	ANERT	Jul-14	1	10000
15	New trends in design of energy efficient drives	Expert Lecture	EE		Sep-14	1	10000
					<b>Total</b>		<b>200000</b>

**TOTAL PLANNED EXPENDITURE UNDER IIIC—Rs. 56,00,000**

## **Action Plan for R & D up to December 2014**

November 2013 :

Submitting the Projects before Expert committee for approval.

**First week** :Approved projects are submitted to TEQIP II for getting seed money and forwarding proposals to RCC under various projects

1. Cancer grading
2. Pathology changes in cancer cell
3. Heart blood flow analysis
4. Skin disease analysis using skin image

**December 2013 :**

Proposal to SCIMS under one project

1. Diffusion Tensoring Images (project duration one and half year)

Initiating the work of Conference to be conducted on June 2014

**January 2014 :**

Image Acquisition from RCC

Study Tour to SCIMS – For studying medical imaging equipments

**February 2014:**

Evaluation of the ongoing projects.

**June 2014:**

Conducting the First conference for 2 days

**July 2014:**

Accepting new Project Proposals from Students through Faculty

**August 2014:**

Finalizing the Projects with the help of Expert committee and submitting proposals for seed money.

**November 2014:**

Evaluation of the ongoing projects.

One another national conference in Medical Image Processing