

REVISED IDP 2015-16
Consolidated Activity wise – (Rs. In Lakhs)

Activity	CSE	EEE	ECE	Mech	S&H	Institute Level	Total
Procurement	147.1	653.8	211	464	471.2	0	1947.05
Ph.D Assistantship	41.04	41	41	12.4	0	0	135.54
R & D	37	1.5	22	38	0	5.2	103.69
FDP & SDP	22.46	81.5	21.4	33.5	16.7	0	175.56
I-I-I	22.4	8.2	8.15	11.7	7	0	57.43
Capacity Enhancement	1	2.5	2.5	20	0	0	26
Academic support	26.8	2.8	55.6	18.8	26.6	0	130.55
Institutional Reforms	0	0	0	8.73	0	0	8.73
IOC	0	7	10	9.5	0	6.3	32.8
Total	297.8	798	372	617	522	12	2617.4

1. Detailed List of Procurement

Department of CSE

Month/Year	Sl. No	Equipment/Software	Budget(Lakhs)
Apr-15		Nil	0
May-15		Nil	0
June -15		Nil	0
July-15	1	<u>Centre of Excellence (Lab+ Server room + Faculty room +rest room) :281.51 sq.m</u>	57.10
August-15	1	Purchase of 1 Projector and Accessories for classrom	1
	2	Membership in Consortium – 1 number	1
September-15	1	Membership in Consortium – 1 number	1
October-15	1	CoE - Purchase of 1 Projector and Accessories for Centre of Excellence	1
	2	Membership in Consortium – 2 number	2
	3	CoE – Purchase of 100 computers	50
November-15	1	Membership in Consortium – 2 number	2
	2	CoE -Purchase of 3 Servers	3
December-15	1	CoE -Purchase of 3 - 10 KVA ups	9
January -16	1	CoE -Furniture : 100 Numbers	10
February -16	1	CoE -Air conditioners for the Lab :15	5
March -16	1	CoE -High speed Network Printers: 4	3
Apr-16	1	CoE Networking Components : 1 set	2
May-16 to December -16		Nil	0
		Total	147.1

2. Justification for the procurement

1. Equipment for COE : 83 lakhs

2. Civil work for Coe : 57.1 lakhs

3. Projector for PG : 1 Lakh

4. Membership for 6 faculty : 6 lakhs

Total : 147.1 lakhs

Department of EEE

1. Detailed List of Procurement

Month/Year	Sl No	Equipment/Software	Budget(Lakhs)
Oct-16	1	Earth Resistance Kit	3.50
	2	Power Quality Analyser	8.50
	3	Thermal Imager	6.00
	4	Portable Scope meter	2.50
	5	Power module, BLDC motor(0.5HP) Controller circuit, sensor circuit, display meter, CRO/DSO	1.50
	6	SRM motor-0.5 HP, PIC DSP/TMS DSP Processor, speed sensor, Power module, Display meter, DSO	1.50
	7	Synchronous generator – 0.5HP, Power module(MOSFET/IGBT), Controller circuit, CRO/DSO, Display meters	1.50
	8	Matlab 2015 with all tools	25.00
	9	Data acquisition system	2.00
	10	Xilinx FPGA Kit	1.00
	11	DSP TMS Family kit	2.00
	12	Microcontroller based over/under voltage relay (DMT/IDMT) (Numerical)	1.80
	13	Multisim, pSpice, ETAP, pSCAD , Motor solver	25.00
	14	Lab VIEW software with Accessories	40.00
	15	Solar flat plate collector with accessories	1.00
	16	Solar air heaters	0.50
	17	Concentrating solar collector	1.50
	18	Shadow & tilt angle estimator	0.50
	19	Energy resource assessment kits	3.00
	20	Pyranometer	0.35
	21	2-Batteries-1000AH	0.25
	22	Solar battery charging characteristics estimator	0.25
	23	Solid waste calorimeter	75.00
	24	Gaseous fuel calorimeter	75.00
	25	Gas Chromatograph	18.00
	26	Liquid Chromatograph	25.00
	27	Solid Chromatograph	30.00
	28	Elemental Analyser	35.00
	29	BOD, DO level estimator	10.00
	30	COD level Estimator	10.00
	31	Anaerobic System	2.60
	32	Aerobic System	3.00
	33	<u>Civil Work :PG course-1</u> Class room – 2 Tutorial Hall – 1 Seminar Hall – 1 Lab-1 Total = 600 sq.m and Rs.20,000 per sq.m	120.00
	34	<u>Civil Work :PG course-2</u> Class room – 2 Tutorial Hall – 1 Seminar Hall – 1 Lab-1 Total = 600 sq.m and Rs.20,000 per sq.m	120.00

		Total	653.75
--	--	-------	--------

2. Justification for the procurement

- To start ME in Electrical Drives and Embedded Control in the year 2016-2017.
- To start ME in Renewable Energy in the year 2017-2018.
- To continue consultancy in Power Quality and Energy Auditing; also to establish Entrepreneurship cell & incubation centre in 2017-18.
- To produce students projects which can be patented from 2018-2019 onwards from incubation cell.
- To become Centre of Excellence in Special Electrical Drives from 2019-2020 onwards.

ECE

Detailed List of Procurement

Sl.No	Equipments	Procuring Month	Amount in Lakhs
1	Interactive white board (4 nos)	Jul-15	5
2	Interactive Tablets 30 Nos.	Jul-15	5
3	Desktop computers (50 nos)	Jul-15	25
4	Network Analyser (1 no)	Sept-15	20
5	FPGA trainer Kit (20 nos)	Sept-15	10
6	Wireless sensor network trainer (10 nos)	Jan-16	10
7	Digital Storage Oscilloscopes	Jan-16	20
8	RF Generators	Mar-16	10
9	VLSI Design Software (Similar to Cadence) University Bundle Analog and Digital Front End and Back End 30 User Licences	Nov-16	20
10	Simulation Software (Similar to MATLAB)	Nov-16	10
11	Xilinx ISE & Modelsim simulator with Spartan –III FPGA 40 user license	Dec-16	25
12	Tanner EDA tools for analog and mixed-signal ICs and MEMS design	Dec-16	15
	Civil Works		
13	Construction of Class Rooms for PG Two Class rooms each of 70 sq.m with a total plinth area of 230 sq.m Cost Estimate @Rs.20,000/- per sq.m.	Dec-15	46
Total	10		211

Justification for the procurement

Equipment needed for the establishment of the proposed PG course M.E. Communication Systems. In addition the procurement of some of the equipment needed for the CoE on VLSI is also initiated.

PG class rooms are to be constructed at a cost of Rs. 46 lakhs.

Mechanical Engineering

Procurement Plan 2015-2016

Sl. No	Item	Month & Year	Approximate Cost in Rs. lakhs
1	ICT enabled learning, related software & hardware.	June 2015	20
2	600 W Solar Array Simulator	June 2015	6.5
3	VI curve tracer	June 2015	7.5
4	Data acquisition system	June 2015	2
5	1 KW Grid Tied Inverters	June 2015	1
6	Solar Pathfinder Assistant Software, V4	June 2015	3
7	Lab VIEW software	June 2015	40
8	Pyranometer	Aug 2015	20
9	Ice plant	Aug 2015	15
10	Measurement scales (accuracy 0.001gm)	Aug 2015	15
11	Hot wire anemometer	Aug 2015	4
12	Thermal Imaging camera	Aug 2015	4
13	Optical Engine (CI)	Oct 2015	100
14	DAQ for optical Engine	Oct 2015	25
15	Biofuel plant	Oct 2015	2
16	Variable GAS injection Timing kit	Oct 2015	9
17	3D printing lab setup	Dec 2015	60
18	Vibration measuring instruments	Dec 2015	25
19	Opt align setup	Dec 2015	15
20	Steam turbine setup 2kW	Dec 2015	20
21	Library e-books and e-journals	Jan 2016	20
22	Membership of online journals and consortium	Jan 2016	20
23	Civil works	Jan 2016	30
TOTAL			464

Justification:

1. Starting of P.G programmes in Mechanical Engineering requires new lab facilities to be created.
2. To setup Centre of Excellence in Renewable energy for processing agro products and Alternate Fuel Research the above equipment are needed.

Science & Humanities

Procurement - Chemistry

Month/Year	SI No	Equipment	Budget(Lakhs)
June-15	1	Inductively Coupled Plasma Atomic Absorption Spectroscopy (ICP-AAS)	85
Sep'-15	1	Environmental Sample Digester	9
March-16	1	Freeze Drier	12
June-16	1	High Performance Liquid Chromatography (HPLC)	30
			136

1.b. Justification for the procurement

Planned to start Research lab in Environ. Science & Engg. followed by establishment of Centre of Excellence in Environmental Science and Engg.:

Current facilities available: AAS, UV, FP, Water analyzer kit (Analysis of DO, TDS, TH, Salinity, Conductivity ,pH), Preparation of Biodiesel from waste.

Equipment's to be purchased for well-equipped EVS Lab for R&D: ICP-AAS, Environmental Sample Digester, Freeze drier, HPLC

Consultancy work is carried out with the above facilities and Internal Revenue is generated. Purchase of above mentioned equipments will increase the IRG and a well-equipped environmental Engg. Lab can be established.

One of the faculty members of Dept. of Chemistry had completed Ph.D in the area: Environmental Chemistry and applied for guideship in Bharathiar University, Coimbatore. Hence purchase of the above equipments will pave way for R&D in environmental science.

Procurement - Physics

S.No.	Name of the Equipment	No. of quantity required	Tentative procurement month	Total Cost (in Lakhs)
1	Travelling Microscope	6	JUL' 2015	2
2	UV-Visible Spectrometer	1	SEP' 2015	9
3	Manual Pellet press	1	OCT' 2015	0.5
4	Magnetic stirrer with hot plate	1	NOV' 2015	0.3
5	High power Ultrasonic Processor- Sonicator	1	DEC' 2015	1
6	Raman/PL Micro spectroscopy System	1	FEB'2016	25
7	Particle Size and Particle shape Analyzer	1	MAR' 2016	25
8	FTIR Spectrometer	1	APR' 2016	13
9	Hall Effect measurement System	1	JUNE'2016	25
10	X-Ray Diffraction Instrument	1	JULY'2016	95
11	Impedance Analyzer	1	OCT' 2016	30
12	TG-DTA Thermal Analyzer	1	NOV' 2016	25
TOTAL (IN LAKHS)				250.8

2. Action Plan for Assistantships (M.E. & Ph.D.) :
Detailed List of Assistantships (M.E.): M.E from 2015-16(AY)
Rs.12,000/student/month

Mechanical Engg.

SI. No	Item	Month & Year	Approximate Cost in Rs.Lakhs
1	P.G assistantship for 18 students	July 2016-Dec 2016	13.8
3	Research Associate (Full time Ph.D)	June 2015-Dec 2016	2.25
TOTAL			16.05

Justification:

1. Starting of P.G programmes in Mechanical Engineering
Ph.D/P.G assistantship for 18 candidates and one research scholar

3. Action Plan R&D
CSE

Month/Year	SI No	Activity	Budget(Lakhs)
Apr-15		Nil	0
May-15		Nil	0
June -15		Nil	0
July-15	1	Research projects taken by UG /PG students -2	2
	2	Seed grants for research by faculty- 2	2
	3	Research publications in engineering in refereed journals -6	3
	4	Patent of a product /Technology - 1	1
August-15		Nil	0
September-15		Nil	0
October-15	1	Organising conferences on R&D topics -1	3
	2	Patenting of technologies	1
November-15		Nil	0
December-15	1	Research projects taken by UG /PG students -3	2
	2	Seed grants for research by faculty- 2	2
	3	Research publications in engineering in refereed journals -6	3
Jan-16 to June -16		Nil	0
July -16	1	Research projects taken by UG /PG students -3	2
	2	Seed grants for research by faculty- 2	2
	3	Research publications in engineering in refereed journals -6	3
August-16		Nil	0
September-16		Nil	0
October-16	1	Organising conferences on R&D topics -1	3
	2	Patenting of technologies	1
November-16		Nil	0

December-16	1	Research projects taken by UG /PG students -3	2
	2	Seed grants for research by faculty- 2	2
	3	Research publications in engineering in refereed journals -6	3
		TOTAL	37

Justification

Each year October one conference

Students projects 5 for 15 and 5 for 2016

Patents : 3 till 2016

Seed grants for research by faculty- 2/ semester

Research publications in engineering in refereed journals -6 each semester for each faculty one publications

EEE

Detailed List of R & D

Research projects taken by UG /PG students & } : Rs 10,00,000/=

Patenting of technologies

Justification :SEED grant for students projects and for patenting of technologies

ECE

Research projects taken by UG /PG students: Students are encouraged to do the project work so as to get seed money. Seed grant of Rs. 1 lakh per project is given every year for a total of 5 best projects selected by a review committee every year. This seed money will be given in Dec-15 so that the students will be able to complete their projects in April-16.

Research publications in engineering in refereed journals: Financial assistance will be given to the faculty for the publication of their research works in the refereed journals. Financial assistance may be given during every quarter.

Organising conferences on R&D topics: One National level conference is to organized in Feb-16

Patenting of technologies: One of the 5 best projects given with the seed grant will be selected to register for patent.

Mechanical Engg.
Action Plan for R&D (2015-16)

Sl. No	Item	Month & Year	Approximate Cost in Rs.Lakhs
1	Research projects taken by UG students	June 15-Dec 16	1.5
2	Seed grants for research by faculty	July 15-Dec 16	21
3	Research publications in engineering in refereed journals	June15- Dec 16	0.5
4	Organizing conferences on R&D topics	July 15-Dec 16	12
5	Patenting of technologies	July 15-Dec 16	3
TOTAL			38

Justification:

1. U.G Seed projects will be identified and potential projects will be taken up for patent.
2. Research projects of faculty members will be judged for Seed funding by the external experts.
3. Four R&D conferences are proposed to be conducted in the department.
4. Faculty, student publications in the international refereed journals will be awarded.

4. Action Plan for Faculty & Staff Development

1. Enrollment of faculty with MTech for PhD degree : 3 faculty each 5000 Rs. Fees during July 15, dec 15, July 16, December 16
2. Faculty training in subject domain: 3 faculty each semester (Rs. 20000/faculty) July 15, dec 15, July 16, December 16
3. Faculty training in pedagogy: 2 faculty each semester (Rs. 20000/faculty) July 15, dec 15, July 16, December 16
4. Participation of faculty in outstation seminar/ conferences/ workshops etc : 6 faculty each 20,000 June15/November 2015
5. Participation of staff in outstation workshops etc : 1 faculty each 20,000 per semester: November 2015
6. Organising inhouse training workshops in teaching/research subjects (FDP)

S.N o.	FDP	Coordinators	Tentative Month / Year	Expected Budget Expenditure in Lakhs
1	One week Faculty Development program on Big Data Analytics	S.Selvi	May 2015	2
2	One week Faculty Development program on Cryptography	C.M.T.Karthikeyan	September 2015	2
3.	One Day Faculty Development programme on "Publishing papers in top Journals"	J.Nafeesa Begum	December 2015	.5
4	One week Faculty Development program on Virtualization	B.Sivaranjani	May 2016	2
5	One week Faculty Development program on Wireless Sensor Networks	N.Jagadeeshwari	September 2016	2

6	One Day Faculty Development programme on “ Web Portal Development”	C.SatheeshPandian	December 2016	.5
	Total			9 lakhs

EEE

Detailed List of Faculty Dev. Plan

S.No.	FDP	Coordinators	Tentative Month / Year	Target audience	Expected Budget Expenditure in Lakhs
1	Faculty training in subject domain (outstation)	All Faculty	Apr 15	Faculty training in subject domain(outstation)	4.00
2	Smart Grid – Technology and Applications	Mr.K.Mohan Mr.V.Arivumani	May 2015	Faculty	2.00
3	Realization of Control System Concepts using MATLAB	Mr.A.Thangaraj Mrs.M.Bhavani	May 2015	Faculty	2.00
4	Embedded Controller for Electrical Drives	Dr.I.Thangaraju Mr.K.Mohan	May 2015	Faculty	2.00
5	Power Quality in Smart Grid	Mr.V.Arivumani Dr.I.Thangaraju	June 2015	Faculty	2.00
6.	Soft computing Techniques in Engineering Applications	Mrs.R.Sudha Mr.A.Thangaraj	June 2015	Faculty	2.00
7	Faculty training in Pedogogy (outstation)	3	Jun 15	Faculty training in Pedogogy(outstation)	0.60
8	Participation of Faculty in outstation Seminar/Conferences/ Workshops	6	Jun15	Participation of Faculty in outstation Seminar/Conferences/ Workshops	2.00
9.	Faculty training in subject domain (outstation)	10	Oct 15	Faculty training in subject domain (outstation)	4.00
10	Faculty training in subject domain (outstation)	10	Oct15	Faculty training in subject	4.00

S.No.	FDP	Coordinators	Tentative Month / Year	Target audience	Expected Budget Expenditure in Lakhs
				domain (Outstation)	
11	Modeling and Performance of Transmission Lines	Mrs.M.Bhavani Mr.A.Thangaraj	Nov 2015	Faculty	2.00
12.	Modeling and Simulation of Engineering Applications	Mrs.R.Sudha Mr. V.Arivumani	Nov 2015	Faculty	2.00
13.	Challenges and Opportunities in Renewable Energy Integration	Mr.K.Mohan Dr.I.Thangaraju	Dec 2015	Faculty	2.00
14.	Recent trends in Optimization and Control	Mr.A.Thangaraj Dr.I.Thangaraju	Dec 2015	Faculty	2.00
15	Participation of Faculty in outstation Seminar /Conferences/ Workshops	All Faculty	Dec 15	Faculty	3.00
16	Faculty training in subject domain (outstation)	10	Jan 16	Faculty training in subject domain (outstation)	4.00
17	Faculty training in subject domain (outstation)	10	Apr 16	Faculty training in subject domain (outstation)	4.00
18.	Automotive Power Sources and Energy management System for EV and HEV	Mr.A.Thangaraj Mrs.M.Bhavani	May 2016	Faculty	2.00
19	Research Challenges in Automated Substation – SCADA & Relay co-ordination	Mrs.R.Sudha Mr. V.Arivumani	May 2016	Faculty	2.00
20	Solar Photovoltaic - Design and Application	Mr.K.Mohan Mr. V.Arivumani	May 2016	Faculty	2.00
21	Recent trends in HVDC & FACTS	Dr.I.Thangaraju Mr.K.Mohan	June 2016	Faculty	2.00
22	Microgrid: An Emerging Technology to Enhance Power System reliability	Mr. V.Arivumani Mrs.M.Bhavani	Nov 2016	Faculty	2.00

S.No.	FDP	Coordinators	Tentative Month / Year	Target audience	Expected Budget Expenditure in Lakhs
23	Digital Controllers for Special Machine Drives	Mr.A.Thangaraj Dr.I.Thangaraju	Nov 2016	Faculty	2.00
24	Recent Trends in Power System Protection and Numerical relay	Mr.K.Mohan Mr.V.Arivumani	Nov 2016	Faculty	2.00
25	Real Time Application using Labview	Mrs.R.Sudha Dr.I.Thangaraju	Dec 2016	Faculty	2.00
	Total				57.6

Training/Development of technical/support staff (SDP)

S.No	SDP	Coordinators	Tentative Month / Year	Expected Budget Expenditure in Lakhs
1	Computer Basics and DTP	C.SatheeshPandian	May 2015	1.5
2	Stress Management	J.Nafeesa Begum	August 2015	1.5
3	PC hardware and maintenance	S.Selvi	May 2016	1.5
4	Communication Skills	C.M.T.Karthikeyan	August 2016	1.5
	Total			6 lakhs

EEE

Detailed List of Staff Dev. Plan

Sl.No.	Staff Development Programme	Coordinators	Tentative Month	Target Audience	Amount in Lakhs.
1.	PCB Design using ORCAD Tool	Mrs.R.Sudha Dr.I.Thangaraju	Apr 2015	Non Teaching Staff	1.00
2.	Testing and Calibration of Electrical Equipments	Mr.A.Thangaraj Mrs.M.Bhavani	May 2015	Non Teaching Staff	1.00
3.	Programming Techniques in Micro Processor & Micro Controller	Dr.I.Thangaraju Mr.V.Arivumani	May 2015	Non Teaching Staff	1.00
4.	Graphical Programming using Labview	Mr.K.Mohan Mr.V.Arivumani	June 2015	Non Teaching Staff	1.00
5.	Earthling Practices to Electrical Engineers	Mrs.M.Bhavani Mr.A.Thangaraj	June 2015	Non Teaching Staff	1.00

Sl.No.	Staff Development Programme	Coordinators	Tentative Month	Target Audience	Amount in Lakhs.
6.	Servicing of Electrical Apparatus	Dr.I.Thangaraju Mrs.R.Sudha	Oct 2015	Non Teaching Staff	1.00
7	Design and Maintenance of Solar Power Plant	Mr.K.Mohan Mr.V.Arivumani	Oct 2015	Non Teaching Staff	1.00
8.	Industrial Automation Using PLC	Mr.A.Thangaraj Mrs.M.Bhavani	Nov 2015	Non Teaching Staff	1.00
9.	Numerical Relays & Circuit Breakers	Mr.V.Arivumani Dr.I.Thangaraju	Nov 2015	Non Teaching Staff	1.00
10.	Present & Future Research trends in Electronics and Instrumentation Engineering	Mrs.R.Sudha Mr.K.Mohan	Dec 2015	Non Teaching Staff	1.00
11.	How to use various Simulation Softwares	Mrs.M.Bhavani Mr.A.Thangaraj	Dec 2015	Non Teaching Staff	1.00
12.	Hands On training Program on machine Design using MATLAB	Mrs.R.Sudha Dr.I.Thangaraju	Apr 2016	Non Teaching Staff	1.00
13.	Design and Fabrication of Printed Circuit Board (PCB)	Mr.A.Thangaraj Mrs.M.Bhavani	Apr 2016	Non Teaching Staff	1.00
14.	Maintenance of Diesel Generator Set	Dr.I.Thangaraju Mr.V.Arivumani	May 2016	Non Teaching Staff	1.00
15.	Communication Skill Development	Mr.K.Mohan Mr.V.Arivumani	May 2016	Non Teaching Staff	1.00
16.	Project Co-ordination & Stress Management	Mrs.M.Bhavani Mr.A.Thangaraj	June 2016	Non Teaching Staff	1.00
17	Transformer , Motor and Generator Winding Practices	Dr.I.Thangaraju Mrs.R.Sudha	Nov 2016	Non Teaching Staff	1.00
18.	Energy Auditing	Mr.K.Mohan Mr.V.Arivumani	Nov 2016	Non Teaching Staff	1.00
19.	The 8051 Microcontroller and Embedded Systems Using C	Mr.A.Thangaraj Mrs.M.Bhavani	Nov 2016	Non Teaching Staff	1.00
20.	E-learning	Mr.V.Arivumani Dr.I.Thangaraju	Nov 2016	Non Teaching Staff	1.00
21.	Vibrations in Rotating Machines	Mrs.R.Sudha Mr.K.Mohan	Dec 2016	Non Teaching Staff	1.00
22.	Electrical Protection and Safety Measurements	Mrs.M.Bhavani Mr.A.Thangaraj	Dec 2016	Non Teaching Staff	1.00

Sl.No.	Staff Development Programme	Coordinators	Tentative Month	Target Audience	Amount in Lakhs.
	Total				22.0

ECE

Detailed List of Assistantships (Ph.D.)

No. of Faculty registered for Ph.D.	:	5
Assistant Ship Required (5 X 0.1 Lakh) per semester	:	Rs. 0.5 lakhs
No. of Faculty to be registering for Post Doctoral Fellowship.	:	3
Assistant Ship Required (3 X 0.5 Lakh) per semester	:	Rs. 1.5 lakhs

Justification for the Assistantships (Ph.D.)

At Present 3 faculty have completed their Ph.D. and 5 have registered for Ph.D. Financial assistantship may be given to the faculty pursuing their Ph.D. Similarly the three faculty members with Ph.D. may be given financial assistantship for their post doctoral fellowship.

Detailed List of FSD

S.No.	FDP	Coordinators	Tentative Date/ Month	Expected Budget Expenditure in Lakhs
1	Optical Communication	Dr.G.Suchitra	Nov '15	2.0
2	Wireless Sensor Networks	Dr.V.Thirunavukkarasu	Dec '15	2.0
3.	FPGA Programming and Applications Development	Dr.M.Chandrasekaran	Dec '15	2.0
4	MATLAB Programming	M.Kavitha	May '16	2.0
5	Networking Resources like Printers, Scanners, Cameras etc	Dr.M.Chandrasekaran	June '16	2.0
6	Wireless Networks	Dr.V.Thirunavukkarasu	Nov '16	2.0
7	VLSI design using Cadance	M.Kavitha	Dec '16	2.0
	SDP			
8	Using Test and Measuring Equipment	Mrs.Kavitha	Dec 2015	1.4
Total	08			15.4

Mechanical Engineering

Action Plan for Faculty & Staff Development (2015-16)

Sl. No	Faculty Development Programme	Month & Year	Approximate Cost in Rs.Lakhs
1	Recent advances in Optimization Techniques	May 15	1.5
2	Workshop on Research Methodology	May 15	1.5
3	Recent advances in IC Engine Research	May 15	1.5
4	Recent advances in Alternative Fuels	May 15	1.5
5	Team Building& Professional Ethics	June 15	1.5
6	Research opportunities in CAD/CAM/CAE	June 15	1.5

7	Workshop on statistical tools for researchers	June 15	1.5
8	Workshop on Taguchi techniques	June 15	1.5
9	FDP on Processing and Applications of Green Composites	Dec 15	1.5
10	Workshop on NDT	Dec 15	1.5
11	Workshop on alternative refrigerants	Dec 15	1.5
12	Bio based fuels as an alternative	April 16	1.5
13	Modelling and Simulation in Mechanical Engineering	April 16	1.5
14	FDP on Macro, Meso/ Micro Manufacturing and Nano metrology	April 16	1.5
15	Residual Measurement Techniques	April 16	1.5
16	Workshop on Engine Electronics	June 16	1.5
17	Emission control & EURO norms	June 16	1.5
18	FDP on Computational Fluid Dynamics	June 16	1.5
19	Need Based training offered by IIT, IIM, NIT, ESCI and ASC	As arise	3.0
TOTAL			30

Sl. No	Staff Development Programme	Month & Year	Approximate Cost in Rs.Lakhs
1	Workshop on Measurements & Calibration	May 15	0.5
2	Workshop on Automation	May 15	0.5
3	Industrial Pneumatics	June 15	0.5
4	Manufacturing Systems	June 15	0.5
5	Training on Special Purpose Machines	Dec 15	0.5
6	Testing & Consultancy using SM lab equipment	Dec 15	0.5
7	Advanced welding technologies	May 16	0.5
8	Need Based training offered by MSME, NIT and ESCI etc.	As arise	2.0
TOTAL			5.5

1. Detailed List of FSD - Chemistry

S.No.	FDP	Coordinators	Tentative Month / Year	Expected Budget Expenditure in Lakhs
1.	Recent trends in Analytical Techniques	Dr.Saraswathy.G, AP(Sr.G)/Chermistry	Nov'15	2.5
2.	Environmental chemistry	Dr.Saraswathy.G, AP(Sr.G)/Chermistry	May'16	2.5
3.	Workshop on Analytical Chemistry	Dr.Saraswathy.G, AP(Sr.G)/Chermistry	Nov'16	1.5
4.	International conference on "Analytical techniques and its application in Environmental Chemistry"	Dr.Saraswathy.G, AP(Sr.G)/Chermistry	Dec'16	5.0
Total				11.5

FDP, SDP – Physics

Ph.D Enrollment :

S.No.	Name/ Designation	Ph.D. Assistantship month	Assistantship Amount (in lakhs)
1	R. Bakkiyaraj/ Asst. Professor	JUL'2015	0.20

Faculty Development Programme Details:

S.No.	Title of the training programme	Duration	Tentative month	Name of the Coordinator	Approx. Budget (in lakhs)
1	Recent Research Advances in Nanoscience and Technology	7 Days	July 2015	R. Bakkiyaraj	2.5
2	Recent trends in Advanced materials and its Engineering Applications	7 Days	July 2016	R. Bakkiyaraj	2.5
TOTAL (in lakhs)					5

5. Action Plan for Industry Institute Interaction

Month/ Year	SI No	Activity	Budget(Lakhs)
April -15		NIL	0
May 2015	1	Spoken Communication	1,40,000
Jun-15	1	Written communication	1,40,000
Jul-15	1	OOPS Concepts in Industries	1,40,000
Aug-15	1	Automation through Robotics	1,40,000
Sep-15	1	PHP Programming	1,40,000
Oct -15	1	E learning	1,40,000
Nov -15	1	Presentation Skills	1,40,000
	2	Mat Lab Tools	1,40,000
Dec-15	1	OOSE for software development	1,40,000
	2	Ethical Hacking	1,40,000
Jan-16	1	Preparation for Industrial Careers	1,40,000
May -16	1	Team Building	1,40,000
July-16	1	Entrepreneurship Development Workshop	1,40,000
Aug-16	1	Applications of Computer in Bio Tech Industry	1,40,000
Sep-16	1	Guidance on developing business and industry connections and partnerships	1,40,000
	2	Exposure to mathematical and statistical problems that arise in industry	1,40,000
		16 Targets	22.4

Justification

Short term workshops with industry

- Academic networking with industry/research institutions including industry-exposure to teachers and students
- Campus placements of graduates (UG & PG)
- Students internship at industry

- Joint activities with industry
- Higher learning initiatives and Core competency training – Technical skills

EEE

SI No	Programme Name	Industry	Year/DEPT	Rs. (Lakhs)
1	One Day Seminar on Software Applied to Power systems In July 15	Vi Micro Systems, Chennai	3rd year, Final year 130 students	1.2
2	3 Day Workshop on ARM 7 Processor in Aug 15	PanTech Solutions, Chennai	III year EEE	0.7
3	DSP based Speed Control of Special Electrical Drives in Sep15	Vi Micro Systems	IV year EEE	0.7
4	Campus Placement Cracker(EEE) in Oct15	Focus Academy Career Enhancement,Coimbatore	III Year EEE	0.7
5	Empower in Jan 16	Focus Academy Career Enhancement,Coimbatore	IV Year EEE	0.7
6	PCB design and fabrication Jan16	Alpha Beta Solutions, Madura	II EEE	0.7
7	PLC , SCADA and automation in Feb 16	PanTech Solutions, Chennai	III year EEE	0.7
8	Gate Coaching Feb16 and Mar16	Alpha Beta Solutions, Madura	III, IV EEE	2.4
9	W ebinar from CII	CII	II,III,IV EEE	2
10	Industrial Projects from Jan 16	Any Industry	IV EEE	0.4
11	Embedded Design in Feb 16	Industry Alumonii	III,IV EEE	1.4
TOTAL				11.6

Justification: Trainings are conducted with industrial experts to bridge the gap between curricula and the industry

ECE

List of Industry Institute Interaction Activities

SI No	Programme Name	Industry	Year/DEPT	Amount in Lakhs
1	One Day Expert Guidance on Designing Embedded System Aug-15	STEPS, Coimbatore	III, IV Year ECE 130 students	1.20
2	2 Day Robotic Design and Applications Sep 15	Frontline Electronics Pvt. Ltd., Salem	III year ECE	1.50
3	TMS320CX based DSP application Oct 15	Texas Instruments	III year ECE	1.50
4	Campus Placement Cracker Nov 15	Focus Academy Career Enhancement,Coimbatore	II Year ECE	0.75
5	PCB Design and fabrication techniques Jan 16	PanTech Solutions, Chennai	IV Year ECE	1.0
6	OsCAD Electronic Circuit Simulation	Spoken Tutorial by IIT Mumbai	II & III Year ECE	0.5

	Feb 16			
7	Webinar from CII Mar 16	CII, Chennai	II, III & IV year ECE	1.0
8	PLC , SCADA and automation Mar 16	PanTech Solutions, Chennai	III year ECE	0.70
	Total			8.15

Mechanical Engg.

Sl. No	Item	Month & Year	Approximate Cost in Rs.Lakhs
1	Short term workshops with industry	June 15-Dec16	2.5
2	Academic networking with industry/research institutions including industry-exposure to teachers and students	June 15-Dec16	2.5
3	Campus placements of graduates (UG & PG)	March 16	3.0
4	Students internship at industry	June 15	2.0
5	Joint activities with industry	July 2016	2.0
TOTAL			12.0

Justification: Trainings are conducted with industrial experts to bridge the gap between curricula and the industry

5. Detailed List of III Activities - Chemistry

Month/Year	Sl No	Activity	Budget(Lakhs)
Dec'-15	1	Workshop/Training with industry	1.5
	2	Sludge treatment –TITAN, Hosur	
Total:			1.50

- Short term workshops with industry
- Joint activities with industry

Justification

Since Dept. of Chemistry has planned to establish R&D in Environmental Engg., workshop/training with industry will enhance the quality of R& D lab by updating their current practices and needs and also will increase IRG.

Industrial Interaction will create an opportunity in finding the problems faced by the industry like waste disposal, water treatment methods, etc. and that can be given to the UG students as mini projects and solutions may be suggested to solve the industrial problems.

Industry Institute Interaction – Physics

S.No.	Title of the STP	Name of the industry	Duration	Tentative month	Approx. Budget (in lakhs)
1.	STP on Patent Registration(First year all branches)	Intellectual Property of India, Chennai	One Day	Apr' 2015	1.50
2.	Solar Photovoltaic Design and Energy Audit: Theory and Practices(first year all branches)	GPOWER SOLUTIONS, CHENNAI	Two days	Sep' 2015	2.50
Total (in lakhs)					4.00

6. Action Plan for Capacity Enhancement -CSE

S.No.	Capacity Enhancement Training	Conducted By	Tentative Month / Year	Expected Budget Expenditure in Lakhs
1	Good Governance	IIM,Kozhikode	Nov 15	.5
2	Engg Education Initiatives for betterment	IIM,Banglore	Nov 16	.5
Total				1.00

EEE

Detailed List of Capacity Enhancement Training

S.No.	Capacity Enhancement Training	Conducted By	Tentative Month / Year	Expected Budget Expenditure in Lakhs
1	Capacity Enhancement Training	IIM Trichy	Jun 15	0.5
2	Capacity Enhancement Training	IIM,kozhibcode	Aug 15	0.5
3.	Capacity Enhancement Training	IIM, Ahamadabad	Dec 15	0.5
4.	Capacity Enhancement Training	IIM Trichy	Apr16	0.5
5.	Capacity Enhancement Training	IIM,kozhibcode	May 16	0.5
Total				2.50

ECE

Detailed List of Capacity Enhancement Training

S.No.	Capacity Enhancement Training	Conducted By	Tentative Month / Year	Expected Budget Expenditure in Lakhs
1	Organizational Leadership for the 21st Century	IIM, Ahamadabad	July 15	0.5

2	Enhancing Leadership Capacities and Potential Among Professional Women	IIM,kozhicode	Nov 15	0.5
3.	Capacity Enhancement Training	IIM, Ahamadabad	Dec 15	0.5
4.	Leadership and Change Management	IIM Trichy	Apr16	0.5
5.	The Winning Edge: Communication Strategies for Leaders	IIM,kozhicode	May 16	0.5
Total	5			2.50

Mechanical Engg.

Sl. No	Item	Month & Year	Approximate Cost in Rs.Lakhs
1	Exposure/Training of senior teaching/non-teaching members in management capacity development	As arise (Called by IIMs)	20
TOTAL			20

Detailed List of Capacity Enhancement Training -Chemistry

S.No.	Capacity Enhancement Training	Conducted By	Tentative Month / Year	Expected Budget Expenditure in Lakhs
1	Need based	IIMs		2

7. Action Plan for Institution Reforms:

EEE

Sl.No	Academic Year	Activities	Month & Year	Amount in Lakhs
1	2015-16	Innovations aiming at improvement in quality of education	Jul 2015	2
2	2016-17	Innovations aiming at improvement in quality of education	July 2016	2
Total				4

Mechanical Engg

Sl. No	Item	Month & Year	Approximate Cost in Rs.Lakhs
1	Fee for NBA accreditation	April 2015	2.0
2	Activities / Innovations aiming at improvement in quality of education	July 15 – Dec 16	5.0
TOTAL			7.0

8.Action Plan for Academic Support for Weak Students- CSE

SI No	Student Training Programme	Coordinators	Tentative Month/Year	Target Audience	Budget(Lakhs)
1	Spoken Communication	J.Nafeesa begum	Jul-15	IV Year	1,40,000
2	Written communication	C.SatheeshPandian	Aug-15	IV Year	1,40,000
3	Red Hat Linux Administration	B.Sivaranjani	Sep-15	IV Year	1,40,000
4	Web Development	C.M.T.Karthikeyan	Oct-15	III Year	1,40,000
5	Communication and Personality Development	S.Selvi	Nov-15	III Year	1,40,000
6	Fast Mathematics	N.Jagadeeshwari	Dec-15	III Year	1,40,000
7	Time Management	J.Nafeesa begum	Jan-16	II Year	1,40,000
8	Problem Solving Skills	C.SatheeshPandian	Feb-16	II Year	1,40,000
9	Preparing for GRE	B.Sivaranjani	March-16	I/II/III/IV (Interested)	1,40,000
10	Training on how to develop skills in students that are valued by employers	C.M.T.Karthikeyan	April-16	II year	1,40,000
11	Simple German	S.Selvi	May-16	I/II/III/IV (Interested)	1,40,000
12	Critical Thinking	N.Jagadeeshwari	June 16	I year	1,40,000
13	Grammar Confidence	J.Nafeesa begum	July -16	I year	1,40,000
14	Advanced Java	C.SatheeshPandian	Aug -16	III Year	1,40,000
15	Networking Skills	B.Sivaranjani	September-16	II Year	1,40,000
16	C Skill Set	C.M.T.Karthikeyan	October-16	I Year	1,40,000
17	Android Application Development	S.Selvi	November-16	II Year	1,40,000
18	Developing Data Structures	N.Jagadeeshwari	December-16	III Year	1,40,000
	Total : 18				25.2

Academic Support:

DEC 2015

SI No	Subject Name	Year/Sem	Budget
1	Analog & Digital Communication	II/3	RS:10,000/-
2	Programming & Data Structures	II/3	RS:10,000/-
3	Principles of Communication	III/5	RS:10,000/-
4	Computer Graphics	III/5	RS:10,000/-
	Total		RS: 40,000

July 2016

Sl No	Subject Name	Year/Sem	Budget
1	Digital Principles and System Design	1/2	Rs: 10,000/-
2	Design & Analysis of Algorithm	II/4	RS:10,000/-
3	Microprocessor and microcontroller	II/4	RS:10,000/-
4	Artificial Intelligence	III/6	RS:10,000/-
5	Compiler design	III/6	RS:10,000/-
6	Digital Signal processing	III/6	RS:10,000/-

December 2016

Sl No	Subject Name	Year/Sem	Budget
1	Analog & Digital Communication	II/3	RS:10,000/-
2	Programming & Data Structures	II/3	RS:10,000/-
3	Principles of Communication	III/5	RS:10,000/-
4	Computer Graphics	III/5	RS:10,000/-
5	Cryptography & Network Security	IV/7	RS:10,000/-

EEE**Detailed List of Academic Support for Weak Students**

Sl No	Subject Name	Year	Sem	Budget
1.	Discrete Time Systems and Signal Processing	Apr 2015	II Yr	0.10
2.	Microprocessor and Microcontrollers	Apr 2015	III Yr	0.10
3.	Design of Electrical Machines	Apr 2015	III Yr	0.10
4.	Object Oriented Programming	Apr 2015	IV Yr	0.10
5.	Digital Logic Circuits	Oct 2015	II Yr	0.10
6.	Electro Magnetic Theory	Oct 2015	II Yr	0.10
7.	Power System Analysis	Oct 2015	III Yr	0.10
8.	Control System	Oct 2015	IV Yr	0.10
9.	Electronic Devices and Circuits	Oct 2015	II Yr	0.10
10.	Microprocessor and Microcontrollers	Oct 2015	III Yr	0.10
11	Electrical Machines-II	Oct 2015	III Yr	0.10

SI No	Subject Name	Year	Sem	Budget
12	Power System Operation and Control	Oct 2015	IV Yr	0.10
13	Electrical Machines-I	Mar 2016	II Yr	0.10
14	Transmission & Distribution	Mar 2016	II Yr	0.10
15	Discrete Time Systems and Signal Processing	Mar 2016	II Yr	0.10
16	Power System Operation and Control	Mar 2016	III Yr	0.10
17	Design of Electrical Machines	Mar 2016	III Yr	0.10
18	Object Oriented Programming	Mar 2016	II Yr	0.10
19	Power System Operation and Control	Mar 2016	IV Yr	0.10
20	Protection & Switchgear	Mar 2016	IV Yr	0.10
21.	Digital Logic Circuits	Oct 2016	II Yr	0.10
22	Electro Magnetic Theory	Oct 2016	II Yr	0.10
23	Power System Analysis	Oct 2016	III Yr	0.10
24	Control System	Oct 2016	III Yr	0.10
25	Electronic Devices and Circuits	Oct 2016	II Yr	0.10
26	Microprocessor and Microcontrollers	Oct 2016	III Yr	0.10
27.	Electrical Machines-II	Oct 2016	III Yr	0.10
28	Protection & Switchgear	Oct 2016	IV Yr	0.10
Total				2.8

ECE

Detailed List of Academic Support for Weak Students

SI No	Subject Name	Year/Sem	Month / year	Budget
1	Electronic Circuits-I	II/3	July 2015 to Dec 2015	RS:10,000/-
2	Object Oriented Programming	II/3		RS:10,000/-
3	Signals & Systems	II/3		RS:10,000/-
4	Digital Communication	III/5		RS:10,000/-
5	Transmission Lines and Waveguides	III/5		RS:10,000/-
6	Communication Theory	II/4	Jan 2016 to June	RS:10,000/-
7	Electromagnetic fields	II/4		RS:10,000/-
8	Linear Integrated Circuits	II/4		RS:10,000/-
9	Control Systems	II/4		RS:10,000/-

10	VLSI Design	III/6	2016	RS:10,000/-
11	Antenna and Wave Propagation	III/6		RS:10,000/-
12	Electronic Circuits-I	II/3	July 2016 to Dec 2016	RS:10,000/-
13	Object Oriented Programming	II/3		RS:10,000/-
14	Signals & Systems	II/3		RS:10,000/-
15	Digital Communication	III/5		RS:10,000/-
16	Transmission Lines and Waveguides	III/5		RS:10,000/-
Total	16			Rs.1.6 lakhs

Mechanical Engineering

1. Action Plan for Academic Support for Weak Students

SI No	Subject Name	Year	Sem	Budget Rs.Lakhs
1	Engineering Graphics	July 15,16	I	0.20
2	Strength of Materials	July 15,16	III	0.20
3	Engineering Thermodynamics	July 15,16	III	0.20
4	Fluid mechanics	July 15,16	III	0.20
5	Heat and Mass Transfer	July 15,16	V	0.20
6	Design of Machine elements	July 15,16	V	0.20
7	Meteorology and Measurements	July 15,16	V	0.20
8	Dynamics of Machines	July 15,16	V	0.20
9	Engineering Mechanics	April 15, 16	II	0.20
10	Kinematics of Machinery	April 15, 16	IV	0.20
11	Thermal Engineering	April 15, 16	IV	0.20
12	Design of Transmission Systems	April 15, 16	VI	0.20
13	Finite Element Analysis	April 15, 16	VI	0.20
Total				2.6

Detailed List of Academic Support for Weak Students -Chemistry

S.No	Student Programme	Training	Tentative Date/ Month	Target Audience	Expected Budget Expenditure in Lakhs
1	Engg. Materials and its applications		Oct'15	I yr/I sem ECE/EEE/CSE/MECH; students/branch	0.4
2	Corrosion studies and its control methods		Apr'16	Iyr/IIsem ECE/EEE/CSE/MECH; students/branch	0.4
3	Nanochemistry and its applications		Oct'16	I yr/I sem ECE/EEE/CSE/MECH; students/branch	0.4
4	Environmental Science and Engg.		Sep'15	IIyr / IIIsem EEE / CSE & IIIyr / Vsem ECE; 70 students/branch	0.3
5	Environmental Science and Engg.		Sep'16	IIyr / IIIsem EEE / CSE & IIIyr / Vsem ECE ; 70 students/branch	0.3
Total					1.8

Student Training/Workshop/ Seminar Programme Details: - Physics

S.No.	Title of the training programme	Duration	Tentative month	Approx. Budget (in lakhs)
1	Advanced Engineering Materials(ECE & CSE Students)	2 Days	Mar'2015	1.30
2	Advanced Engineering Materials(MECH & EEE Students)	2 Days	Apr'2015	1.30
3	Basic Fire Safety and First Aid Techniques(ECE & CSE)	2 Days	Apr'2015	1.30
4	Basic Fire Safety and First Aid Techniques(ECE ,CSE, EEE & MECH)	2 Days	May'2015	2.50
5	Orientation Programme for fresher's(all branches)	1 Day	Aug'2015	1.50
6	Modern Engineering Role of Laser Photonics & Fiber Optics(ECE & CSE Students)	2 Days	Sep'2015	1.30
7	Modern Engineering Role of Laser Photonics & Fiber Optics(EEE & Mech Students)	2 Days	Sep'2015	1.30
8	Recent Advances in Quantum Mechanics and its Engineering Applications(ECE & CSE Students)	2 Days	Oct'2015	1.30
9	Recent Advances in Quantum Mechanics and its Engineering Applications (MECH & EEE Students)	2 Days	Oct'2015	1.30
10	Recent Advances in Science and Technologies	2 Days	Feb'2016	1.30
11	Student Project Estimation, Design and Testing: Theory and Practices	2 Days	Mar'2016	1.30
12	Magnetic materials and its Engineering Applications	2 Days	Mar' 2016	1.30
13	Superconducting materials and its Applications	2 Days	Apr'2016	1.30
14	Orientation Programme for fresher's(all branches)	1 Day	Aug'2016	1.50
15	Recent Advances in Science and Technologies(All branches)	2 Days	Sep'2016	2.50
16	Modern Engineering Role of Laser Photonics & Fiber Optics(ECE & CSE Students)	2 Days	Oct' 2016	2.50
Total Budget(in lakhs)				24.80

9. Action Plan for IOC :

Detailed List of IOC Activities -EEE

Sl No	Activity	Month/Year	Budget
1.	Expenses for training programme including training / course fee, consumables, Consultants (experts) fee related to R&D.	Apr 15 to June 15	1.0
2.	Expenses for training programme including training / course fee, consumables, Consultants (experts) fee related to R&D.	July 15 to Sep 15	1.0
3.	Expenses for training programme including training / course fee, consumables, Consultants (experts) fee related to R&D.	Oct 15 to Dec 15	1.0
4.	Expenses for training programme including training / course fee, consumables, Consultants (experts) fee related to R&D.	Jan 16 to Mar 16	1.0
5	Expenses for training programme including training / course fee, consumables, Consultants (experts) fee related to R&D.	Apr 16 to June 16	1.0
6	Expenses for training programme including training / course fee, consumables, Consultants (experts) fee related to R&D.	July 16 to Sep 16	1.0
7.	Expenses for training programme including training / course fee, consumables, Consultants (experts) fee related to R&D.	Oct 16 to Dec 16	1.0
Total			7.0

ECE

Detailed List of IOC Activities

S.No.	Student Programme	Training	Coordinators	Tentative Date/ Month	Target Audience	Expected Budget Expenditure in Lakhs
1	C & C++ Programming		Dr.V.Thirunavukkarasu Mr.M.Arul Kumar	July 15	II	3.0
2	Computer Network Simulation		Dr.M.Chandrasekaran Mr.K.Manogaran		III Yr	1.5
3	PCB Design Soldering Practice		Dr.V.Thirunavukkarasu Mrs.P.E.Irin Dorathy		III	1.5
4	PCB Design Soldering Practice		Dr.V.Thirunavukkarasu Mr.M.Elangovan		IV yr	3.0
5	Soldering Practice		Dr.V.Thirunavukkarasu Dr.G.Suchitra	Aug 15	II Yr	1.5
6	Electronic Circuit Design using OrCAD / OsCAD		Dr.V.Thirunavukkarasu Mr.M.Arul Kumar		III Yr	1.5
7	MATLAB and Xilinx programming		Dr.V.Thirunavukkarasu Mrs.P.E.Irin Dorathy		IV Yr	1.5
8	C and C++ Programming		Dr.V.Thirunavukkarasu Mr.M.Arul Kumar	Sept 15	II Yr	2.0
9	MATLAB programming		Dr.V.Thirunavukkarasu Dr.G.Suchitra		III Yr	1.5
10	DSP Architectures		Mr.M.Arul Kumar	Oct 15	III Yr	1
11	Training for GATE		Mr.M.Elangovan		IV Yr	1
12	Embedded System and Robotics		Dr.M.Chandrasekaran	Nov 15	II Yr	1
13	Embedded System Design		Mr.K.Manogaran		III Yr	1
14	RF Circuit Design		Dr.G.Suchitra		IV Yr	1
15	Digital systems		Mr.M.Kavitha	Dec 15	II	1
16	Mocroprocessor and Microcontroller		Dr.V.Thirunavukkarasu		III	0.75
17	Mobile Communication		Mr.M.Elangovan		IV yr	0.75
18	PCB Design Soldering Practice		Mrs.Kavitha	Jan 16	II yr	1.5
19	Robotics		Mr.K.Manogaran		III yr	3.0
20	Image Processing & Matlab Simulation		Dr.V.Thirunavukkarasu		IV	1.5
21	PSpice Simulation		Dr.G.Suchitra	Feb 16	II yr	1.5
22	Embedded System Design		Dr.V.Thirunavukkarasu		III yr	3.0
23	VLSI Design		Mr.M.Arul Kumar		IV	1.5
24	Equipment Testing and Calibration		P.E.Irin Dorathy	Mar 16	III	1.5
25	Computer Network Simulation		Mr.K.Manogaran		IVYr	1.5
26	C & C++ Programming		Mr.M.Arul Kumar	July 16	II	3.0
27	Computer Network Simulation		Mr.K.Manogaran		III Yr	1.5
28	VLSI Design using		Mr.M.Arul Kumar		III	1.5

	Cadence				
29	PCB Design Soldering Practice	Mr.M.Elangovan	Aug 16	IV yr	3.0
30	Equipment Testing and Calibration	Dr.G.Suchitra		II Yr	1.5
31	Electronic Circuit Design using OrCAD / OsCAD	Mr.M.Arul Kumar		III Yr	1.5
32	MATLAB and Xilinx programming	Mrs.P.E.Irin Dorathy	Sept 16	IV Yr	1.5
33	Innovative Project Design	Mr.K.Manogaran		II Yr	2.0
34	MATLAB programming	Dr.V.Thirunavukkarasu		III Yr	1.5
35	DSP Architectures	Mr.M.Arul Kumar	Oct 16	III Yr	1
36	Training for GATE	Mr.M.Elangovan		IV Yr	1
37	Embedded System and Robotics	Dr.M.Chandrasekaran	Nov 16	II Yr	1
38	Test and Measuring Equipment Calibration standards	Mrs.Kavitha		III Yr	1
39	Micro Robots	Mr.K.Manogaran		IV Yr	1
40	Circuit design	Mr.M Arul Kumar	Dec 16	II	1
41	Digital signal processing	Dr.V.Thirunavukkarasu		III	0.75
42	Microwave communication	Mr.M.Elangovan		IV	0.75
Total	42				64

Mechanical Engg.

Sl. No	Student Training Programme	Month & Year	Approximate Cost in Rs.Lakhs
1	Intensive Training on Engineering Graphics	July 15	0.75
2	Advanced Training Programme in CAE (NAFEMS)	July 15	0.75
3	Workshop RC aircraft modelling	July 15	0.75
4	Quality Systems training	Aug 15	0.75
5	Training on ABAQUS	Aug 15	0.75
6	Advanced Modelling Techniques using CATIA	Aug 15	0.75
7	Kinematic Simulation using ADMS	Sep 15	0.75
8	Communication Skills	Sep 15	0.75
9	Machining simulation using ABAQUS	Sep 15	0.75
10	Flow simulation using ABAQUS	Oct 15	0.75
11	State level project competition	Oct 15	0.75
12	Workshop on surface engineering	Oct 15	0.75
13	Workshop on Entrepreneurship	Jan 16	0.75
14	Workshop on Nuclear energy	Jan 16	0.75
15	Training on Renewable energy	Jan 16	0.75
16	Robotics - Practical Training	Feb 16	0.75
17	Workshop on Nano materials and applications	Feb 16	0.75
18	Workshop on application of Engineering Mechanics concepts	March 16	0.75
19	Surface Modelling Techniques	March 16	0.75
20	Time & Stress Management	March 16	0.75
21	Nonlinear analysis of Engineering Materials	July 16	0.75
22	Workshop on Newer and Smart Materials	July 16	0.75

23	Workshop on Noise, Vibration and Harness	July 16	0.75
24	Workshop on DFMA	Aug 16	0.75
25	Workshop on Geometric Design & Tolerance	Aug 16	0.75
TOTAL			18.75

Other Expenses in IOC (Mechanical Engg)

1. AMC for smoke meter, exhaust gas analyzer is required every year.
2. Calibration of UTM, spring testing machine and torsion testing machine will be carried out using incremental operating.
3. Extension of warranty period for the software purchased under TEQIP-II, upgradation of the software purchased will be carried using IOC.