

# Capacity Building in the areas of Electronic Product Design and Production Technology

( Through NIELIT Aurangabad, Chennai and C-DAC Hyderabad)

## Preamble

'Mapping of human resources skills for the electronics manufacturing industry in India' report prepared by Manufacturers' Association for Information Technology (MAIT) as entrusted by Department of Information Technology, specifies the following recommendations:

- **National/Regional Centres of Excellence** for Design and Development skills
- Creating appropriate **Infrastructure to train** people
- Opening **Engineering Finishing Schools** for technical graduates
- Imparting **Specialized training for Emerging High Technology** manufacturing
- **Capacity Creation** and curriculum updation in Technical Education
- Introducing **Short Term Courses**
- Improve skills for contract manufacturing and assembly operations
- Inculcate simple assembly/related skills and shop floor ethics at grass root level

## Key Objectives

The major objective of the project is to undertake the following activities jointly by NIELIT Aurangabad, NIELIT Chennai and C-DAC Hyderabad for upgrading the competence in Electronics Design and Production Technologies:

- ✚ **Develop human Resource at various levels** including Certificate, Diploma, Post Graduate, and Research Professionals with adequate competence levels
- ✚ To **launch short term / long term modular non formal courses** in selected areas of specialization
- ✚ **Upgrade the competence of working professional** in Indian Industries
- ✚ **Upgrade the knowledge and skills of faculty** of technical institutions necessitating from high obsolescence of this area

The project also envisages to promote affordable Electronics Design & Technology, Design Consultancy, Product Development & Technical support services, Entrepreneurial development etc.

**Corinator:**

Mr. Yashpal Gogia

**Funding Agency**

Human Resource Division, Miety, New Delhi

**Date & Year of Start:** May, 2012**Deliverables – Year wise**

<b>Deliverables - In terms of Academic outcomes</b>							- Intake capacity
	Deliverables					Total	
	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year		
<b>Educational Programmes</b>							
Long Term Programmes							
Certificate course	80	120	120	120	120	560	
PG Diploma	20	60	60	60	60	260	
M Tech	-	18	54	54	54	180	
Research Professionals (MS/PhD/PDF)	5	15	15	15	15	65	
Short Term Programmes	700	1200	1500	1500	1800	6700	
Skill development programmes in association with ITIs / Polytechnics	600	600	600	600	600	3000	
Faculty Updation Programme	150	150	150	150	150	750	
<b>Total</b>	<b>1555</b>	<b>2163</b>	<b>2499</b>	<b>2499</b>	<b>2799</b>	<b>11515</b>	

## Achievements ( Till May, 2018)

<b>Candidates Trained - Annual Target vs Actuals</b>					
S. No	Courses/Programmes	<b>NIELIT AWB (Actual/Target)</b>	<b>CDAC HYD (Actual/Target)</b>	<b>NIELIT CHE (Actual/Target)</b>	<b>Overall* (Actual/Target)</b>
1	Certificate course (6 Months)	8/200	198/180	135/180	341/560
2	PG Diploma (1Year)	0/100	45/80	0/80	45/260
3	M. Tech	131/72	11/54	4/54	146/180
4	B. Tech	282/0	0/0	0/0	282/0
5	Research Professionals (MS/PhD/PDF)	91/25	2/20	3/20	96/65
6	Short Term Program	400/2300	1725/2200	1964/2200	4089/6700
7	Skill Development Program	450/1000	1272/1000	1351/1000	3073/3000
8	Faculty Up-dation Program	185/250	397/250	480/250	1062/750
<b>Total Target Achieved</b>			<b>1546/ 3947</b>	<b>3937/3784</b>	<b>9134/ 11515</b>

## Laboratories Upgraded

- PCB Design and Prototyping
- Industrial Automation
- Industrial Design/CAD
- Embedded System Design
- Opto-Electronics
- Electronics/Test & Measurement
- VLSI Design

## Financial Status NIELIT, Aurangabad

Sr. No	Particulars	Approved Budget	Grant	Expenditure Up to 31 March, 2018	Expenditure 1April, - 31 May, 2018	Total Expenditure Till 31May, 2018
1	Capital equipments	670.00	716.65 (Received)	396.95(22.96 books)	10.00	406.33
2	Manpower Expenses	267.00		277.09	--	277.09
3	Expert Consultancy	103.00		34.70	23.00	57.00
4	Consumable	35.00		15.38	--	15.38
5	Internet Bandwidth	13.00		5.06	--	5.06
6	Travel & Training	27.00		9.44	--	9.44
7	Contingencies	13.00		12.28	--	12.28
8	Overhead	69.00		68.37	--	68.37
	Interest earned	--	<b>139.89</b>	--	--	--
	<b>Total</b>	<b>1197.00</b>	<b>856.54</b>	<b>819.27</b>	<b>33.50</b>	<b>852.77</b>



- **MoU with CMIA**



- **Industrial Tie-Ups**



- **Support for Incubation**



