

VEL TECH TECHNOLOGY INCUBATOR

PROGRAMME
COMPLETION REPORT

*TEDP ON 3D PRINTING &
3D SCANNING*

[11th Sep to 21st Oct, 2017]



Prof. Dr. E. Kannan
Registrar

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Est. u/s 3 of UGC Act, 1956)

DST – NIMAT PROJECT

PROFORMA FOR POST PROGRAMME REPORT (PPR) OF EDP / WEDP / TEDP

(Effective from 01.04.2012)

1	Name & Address of Programme : Implementing Agency <i>(with Tel/ Fax /E-mail)</i>	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology 400 feet Outer Ring Road, Avadi, Chennai-600 062, Tamil Nadu, India. Toll Free : 1800 3070 6949 Email : admission@veltechuniv.edu.in
2	Programme Trade (applicable to TEDP only)	TEDP Yes
3	Programme Location	Chennai
4	Programme Date	11.09.2017 to 21.10.2017
5	Name of the Coordinator	P.Chandrakumar, Manager, Vel Tech TBI
6	Methods adopted to promote the Programme	Pamphlets/Broacher
7	Date of interview	21.08.2017
8	No. of application received	42
9	No. of candidates attended the interview	30
10	No. of candidate selected	25
11	No. of candidate completed the Programme successfully	Male: 25 Female: 0
12	List of participants	<i>ANNEXURE – I</i>
13	Program schedule	<i>ANNEXURE – I I</i>
14	List of resource persons	<i>ANNEXURE – III</i>
15	List of industries visited	<i>ANNEXURE – IV</i>
16	Participant's feedback	<i>ANNEXURE – V</i>
17	Photographs of Programme	<i>Attach one group photo, one classroom photo and one industry/institute visit photo</i>

ANNEXURE – I

LIST OF PARTICIPANT

S.No	Name, Address and Contact details of Participant	Age	Male / Female	Education	Category: Gen/ SC/ST/OBC/Minority	Project/Product Selected
1	Mr. Abdul Nayeem 7-158, 7 th block, Thotlavalluru, Krishna District, Vijayavada – 521163	21	Male	B.Tech	Minority	3D Printing
2	Mr. T.Murali 84, 27 th cross street, Nolambur Phase – 1, Mogappair west, Chennai – 600037	24	Male	M.E	OBC	3D Printing
3	Mr. S.Sudhagar 18, 3 rd street, Gayathri Nagar, Irumbuliyur, Tambaram East, Chennai – 600059	23	Male	M.Tech	OBC	Design & Analysis
4	Mr. R.Nagarajan 5, Koolaiyapuram, 2 nd Street, Tirumangalam, Madurai - 625706	24	Male	M.Tech	OBC	Product Development
5	Mr. Sunil Patel LQ-13, Science college colony, Raipur – 492001	24	Male	B.Tech	OBC	Smart Education / Class
6	Mr. G.Ashwin 327, 1 st street, Thiruneelagandar Nagar, Kavanagarai, Chennai - 600066	22	Male	M.Tech	OBC	3D Printing
7	Mr. Shadab Alam. A 28/29 a, Kausar Manzil, 2 nd cross street, Mint modern city, Old Washermenpet, Chennai - 600021	23	Male	B.Tech	OBC	3D Printing
8	Mr. Sunil Kumar Maurya SMQ: 115/4, DC-1, AFS Avadi, Chennai - 600055	22	Male	B.Tech	OBC	UAVs, CAD Builder, 3D Printer
9	Mr. Shamu Prasad Gupta 3, Nehru Nagar, Vellalur post, Avadi, Chennai - 600055	22	Male	B.Tech	OBC	3D Printing

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S.No	Name, Address and Contact details of Participant	Age	Male / Female	Education	Category: Gen/ SC/ST/OBC/Minority	Project/Product Selected
10	Mr. R.Pankaj Choudhary 6, Ahmed Moidhen Street, Sriperumbudur, Chennai - 602105	21	Male	B.E	OBC	3D Printing
11	Mr. Jerome Kingston 5/266, RMTN Nagar, Natham Road, Dindigul - 624003	21	Male	B.E	General	3D Printing Technology
12	Mr. Janakiraman. K 167, Anna Nagar Street, Walajapet, Vellore - 632501	21	Male	B.E	OBC	3D Printing
13	Mr. S.Jegadesh 2, 2 nd Street, Sakthi Nagar, Ayapakkam, Chennai – 600077	21	Male	B.E	OBC	3D Printing
14	Mr. Kumar Sumit Harouli Village, Satighat, Kasthan, Dabhanga, Bihar - 848213	23	Male	B.Tech	General	3D Printing
15	Mr. V.Rahul Varma 11-2/b, Shantinagar Colony, Patancheru, Sangareddy, Hyderabad - 502319	26	Male	M.Tech	OBC	Design and Manufacturing of Camshaft used in V6 Engine
16	Mr. B.K.Shailesh 8, Vanjinathan Street, Senthilnagar, Thirumullaivoyal, Chennai – 600062	22	Male	B.E	General	Industrial Project
17	Mr. Suvodip Das Railpar, ward-14, Kabi-Chandi Das Road, Rampurhat, Birubhum, Westbengal - 731224	25	Male	M.Tech	General	Design and Analysis of Side Impact Protection system
18	Mr. Varadharajan. S 8/48, Srinivasan street, Tindivanam, Villupuram - 604001	26	Male	Diploma	OBC	Ultrasonic based distance Measurement
19	Mr. Sivaganesh 8/48, Srinivasan street, Tindivanam, Villupuram – 604001	25	Male	M.Tech	OBC	Design of Thin Cylinder

S.No	Name, Address and Contact details of Participant	Age	Male / Female	Education	Category: Gen/ SC/ST/OBC/Minority	Project/Product Selected
20	Mr. Bhuvanesh	23	Male	B.E	OBC	UAV, Image Processing
21	Mr. Arunkumar	25	Male	B.E	OBC	3D printing
22	Mr. Stalin	27	Male	M.Tech	OBC	Materials
23	Mr. Gowtham	24	Male	B.E	OBC	3D Printing, CFD
24	Mr. L.Lingeshwaran 70A, Bajanai Kovil street, Pallipattu, Chennai - 600113	21	Male	B.E	OBC	3D Printing
25	Mr. Mathan Krishna 2/58, Alpha ellora flat s2, Vanniyar Mettu Street, Iyyappanthangal, Chennai - 600056	21	Male	B.E	OBC	3D Printing



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ANNEXURE-II

PROGRAMME SCHEDULE

Module – 1: ENTREPRENEURSHIP & SCHEMES OF ASSISTANCE			
Date and Day	Session	Subject / Topic	Faculty
Day 1 11/09/2017	I	Inauguration & Programme objectives: Expectations from trainees, final goal,programmes strategy	Mr.Chandrakumar Manager, Vel Tech Technology Business Incubator.
	II	Who is an entrepreneur charms of being an entrepreneur	Mr.M.S.Subramaniam Ex. DGM NSIC, Chennai
	III	Schemes of assistance for MSMEs: Financial agencies/institutions	Mr.M.S.Subramaniam Ex. DGM NSIC, Chennai
	IV		
Day 2 12/09/2017	I	Schemes of assistance for MSMEs: Financial agencies/institutions	Mr.K Balaji, Asst.Director - MSME(EI), Chennai
	II		
	III	Schemes of assistance for MSMEs; NSIC,SIDBI,DIC, and other support Agencies	Mr.K Balaji, Asst.Director - MSME(EI), Chennai
	IV		
MODULE-2: PROJECT SELECTION & IT'S PRE FEASIBILITY			
Day 3 13/09/2017	I	How to Identify Business Opportunities	Mr Balaraju K, CEO & Co-founder, BodhBridge Educational Services Private
	II	Opportunities Identification: Criteria of selection source of information	
	III	How to conduct Market Survey: Tools ,Techniques and Guidelines	Dr.B.Jaya Prabha, Associate Professor, Veltech Business School
	IV		
Day 4 14/09/2017	I	How to find out pre –feasibility of a project: Preparing Pre-feasibility Report: Preliminary Project Report(PPR)	Dr.K. Kala, Professor, Veltech Business School.
	II		
	III	Factory Visit and Experience Sharing with Innovative Entrepreneurs	3Ding – Chennai Industry Involved in Additive manufacturing
	IV		
MODULE-3:CONSOLIDATION OF BUSINEES IDEA			
Day 5 15/09/2017	I	Soft skill development: Communication	Mr.K.Ravishankar, Associate Professor, Veltech Business School
	II	Soft skill development: Information Seeking	
	III	Briefing and Planning for the Market Survey; Questionnaires Preparation	Mr.J.S.Prabu, Consultant-NSIC
	IV		
Day 6 16/09/2017	I	Field Work: Conducting Market Survey and Data Collection for the identified business opportunities	Dr.N.AkbarJan,Vel Tech High Tech
	II		

	III		Engineering college, MBA
	IV		
Day 7 18/09/2017	I	Field Work: Conducting Market Survey and Data Collection for the identified business opportunities	Mr. Prabhakaran .M Assit. Prof Veltech Business School
	II		
	III		
	IV		
Day 8 19/09/2017	I	Feedback and Discussion on Market Survey & Evaluating the PPRs	Mr.K.Ravishankar, Associate Professor, Veltech Business School
	II		
	III	Interaction with Technical Experts for finalizing projects	Mr.K Balaji, Asst.Director(EI), Chennai
	IV		
MODULE-4:MOTIVATIONAL INPUT			
Day 9 20/09/2017	I	Developing Entrepreneurial Competencies (Achievement Motivation Training)	Mr.J.S.Prabu, Consultant-NSIC
	II		
	III		
	IV		
Day 10 21/09/2017	I	Developing Entrepreneurial Competencies (Achievement Motivation Training)	Mr.K.Ravishankar, Associate Professor, Veltech Business School
	II		
	III		
	IV		
Day 11 22/09/2017	I	Developing Entrepreneurial Competencies (Achievement Motivation Training)	Mr.M.S.Subramaniyam Ex. DGM NSIC, Chennai
	II		
	III		
	IV		
MODULE-5: PROJECT REPORT PREPARATION			
Day 12 23/09/2017	I	How to Prepare Detail Project Report	Mr. Jayachandran - Dy, Director - MSME, DI, Chennai
	II	Production Planning in MSME	
	III		Purchase Technique
	IV	Dr.B.Jaya Prabha, Associate Professor, VTBS	
Day 13 25/09/2017	I	Working Capital Assessment & Management in SSI	District Industries Center, Thiruvallur
	II		
	III	Break Event Point	Dr.R.Kumudhini Associate Professor Veltech Business School.
	IV		
Day 14 26/09/2017	I	Product Costing and Cost Consciousness	Mrs. Sridevi. J Assistant Professor Veltech Business School.
	II		
	III	Profitability & Balance Sheet	Mr.Ramesh Shankar Amfi Consultant
	IV		
Day 15 27/09/2017	I	Cash flow	Mrs. Sridevi. J Assistant Professor Veltech Business School.
	II	Production Planning	
	III	Preparation of Detail Project Report	Mr.J.S.Prabu, Consultant-NSIC
	IV		

MODULE-6: MANAGERMENTS INPUTS			
Day 16 28/09/2017	I	Marketing Management: Product Promotion, Sales and Advertisement	Dr.B. Jeya Prabha Associate Professor Veltech Business School.
	II		
	III	Financial Management	Mrs. Sridevi. J Assistant Professor Veltech Business School.
	IV		
Day 17 29/09/2017	I	Human Resource Management	Dr. K.Kala Assistant Professor Veltech Business School.
	II	Time Management	Mr. M. Prabhakaran Assistant Professor Veltech Business School.
	III	IPR and its Management	Mr. Ram Jawahar - Officer – IPR, Chennai
	IV	Pattern, Copy Right, Trade Mark and Industrial Management	
Day 18 30/09/2017	I	Negotiation and Networking	Mrs. Sridevi. J Assistant Professor Veltech Business School.
	II	Delegation of Authority and work effort	
	III	Leadership Modes	Mr.K.Ravishankar, Associate Professor, Veltech Business School
	IV	Efficiency Orientation and Systematic Planning	
Day 19 03/10/2017	I	Legal Formalities in an Enterprise : (Factory Act, PF, Labour Laws etc.)	Mr. M. Prabhakaran Assistant Professor Veltech Business School.
	II		
	III	Taxation: Various Taxes Applicable to MSME	Dr. K.Kala Assistant Professor Veltech Business School.
	IV		
Day 20 04/10/2017	I	Legal Formalities for Loan Disbursement	Mrs. Sridevi. J Assistant Professor Veltech Business School.
	II		
	III	Interfacing with Leading Institutions for Business Plan Appraisal	Dr.B. Jeya Prabha Associate Professor Veltech Business School.
	IV	Interfacing with R&D Institutions for Technology Sourcing	
MODULE-7:TECHNICAL TRAINING / EXPOSURE			
Day 21 05/10/2017	I	Introduction to Rapid Prototyping & Popular Rapid Prototyping Technologies	Mr. Vinodth Kumar CEO, Protomake (3D Printing Company),Coimbatore
	II		
	III	Stereolithography(SLA) method, Working Principle and its application	
	IV		

Day 22 06/10/2017	I	Digital Light Processing(DLP) method, Working Principle and its application	Mr.M. Shri Harish Assistant Professor Veltech Dr.RR & Dr.SR University
	II		
	III	Fused deposition modeling (FDM) method, Working Principle and its application - Working training on FORTUS 250 MC machine	
	IV	Design and making components training	
Day 23 07/10/2017	I	Selective Laser Sintering (SLS) method, Working Principle and its application)	Mr. Aravind Assistant Professor Veltech Dr.RR & Dr.SR University
	II		
	III	Medical Applications of RP	
	IV		
Day 24 09/10/2017	I	Digital Manufacturing Technology Overview and its Applications	Mr. S.Viswesh CEO - SVP laser Technologies Pvt Ltd
	II		
	III		
	IV		
Day 25 10/10/2017	I	Selective laser melting (SLM) method, Working Principle and its application	Mr. Arun Raj CEO - Foblu Technology
	II	Applications of Rapid Prototyping to Aerospace Industries	
	III	Selection of Rapid Prototyping Machine	Mr. Sekar Professor Veltech Dr.RR & Dr.SR University
	IV	Automotive Applications of RP	
Day 26 11/10/2017	I	3D Model creation, Slicing, optimizing and Evaluating a Prototype	Mr. Jeyaraman Assistant Professor Veltech Dr.RR & Dr.SR University
	II		
	III	Design and hands on training - 3D Print Demo on Knuckle Joint by FDM	Mr. K. Arunkumar Assistant Professor Veltech Dr.RR & Dr.SR University
	IV		
Day 27 12/10/2017	I	3D Printing Impact in Teaching Learning Practice	Mr. Syed Riyaz Ahammed Assistant Professor Veltech Dr.RR & Dr.SR University
	II		
	III		
	IV		
Day 28 13/10/2017	I	Medical Application in 3D Printing	Mr.M. Shri Harish Assistant Professor Veltech Dr.RR & Dr.SR University
	II		
	III	3D Scanning Live Demo and Working Procedure	Mr. Shaju Incharge, Tinkering Lab Vel Tech TBI
	IV		
Day 29 14/10/2017	I	Bio-material application in 3D Printing	Mr. Aravind Assistant Professor Veltech Dr.RR & Dr.SR University
	II		

	III	Hands on Training on FDM Desktop Printers	Mr. K. Arunkumar Assistant Professor Veltech Dr.RR & Dr.SR University
	IV		
Day 30 16/10/2017	I	Unmanned Aerial Vehicle and its Applications	Dr. Balasubramanian Associate Professor Veltech Dr.RR & Dr.SR University
	II		
	III	Innovations in Rapid Prototyping	Mr. Syed Riyaz Ahammed Assistant Professor Veltech Dr.RR & Dr.SR University
	IV		
Day 31 17/10/2017	I	How to Design a 3D object by using 123D Autodesk	Mr. Jeyaraman Assistant Professor Veltech Dr.RR & Dr.SR University
	II		
	III		
	IV		
Day 32 18/10/2017	I	How to Construct a 3D Printer from Electronic Waste	Mr.M. Shri Harish Assistant Professor Veltech Dr.RR & Dr.SR University
	II		
	III		
	IV		
Day 33 19/10/2017	I	Working Principle of Stratasys Fortus 250mc	Mr. Shaju Incharge, Tinkering Lab Vel Tech TBI
	II		
	III		
	IV		
Day 34 20/10/2017	I	Make Prototype of Their own project or Design by using Flashforge Finder	Mr. Jeyaraman Assistant Professor Veltech Dr.RR & Dr.SR University
	II		
	III		
	IV		
Day 35 21/10/2017	I	Feedback and Evaluation of the Programme	Team of Vel Tech TBI
	II		
	III	Action plan preparation	
	IV	Valedictory	

* = Each session is one hour fifteen minutes

ANNEXURE – III

LIST OF FACULTY / RESOURCE PERSON

S.No	Name	Designation	Organization
1	Mr.M.S.Subramanian	Ex, Deputy General Manager	NSIC(National Small Scale Industries Corporation Ltd)
2	Mr.J.S. Prabu	Certified Master Practitioner- Neuro Linguistic Programming & Psychology.Corporate Trainer	NLP& Soft Skills. Consultant – NSIC(National Small Scale Industries Corporation Ltd)
3	Mr.K Balaji	Asst.Director(EI)	MSME, DI, Chennai
4	Mr. Ram Jawahar	Technical Officer	Intellectual Property Rights
5	Mr. Balaraju K	CEO & Co-Founder	BodhBridge Educational Services Private Ltd
6	Mr. S.Viswesh	CEO	SVP laser Technologies Pvt Ltd
7	Mr. Arun Raj	CEO	Foblu Technology
8	Mr. Vinod	CEO	Protomake
9	Dr. Balasubramanian	Associate Professor	Veltech Dr.RR & Dr.SR University
10	Mr. Aravind	Assistant Professor	Veltech Dr.RR & Dr.SR University
11	Mr. K. Arunkumar	Assistant Professor	Veltech Dr.RR & Dr.SR University
12	Mr.M. Shri Harish	Assistant Professor	Veltech Dr.RR & Dr.SR University
13	Mr. Jeyaraman	Assistant Professor	Veltech Dr.RR & Dr.SR University
14	Mr. Syed Riyaz Ahammed	Assistant Professor	Veltech Dr.RR & Dr.SR University
15	Mr. Sekar	Assistant Professor	Veltech Dr.RR & Dr.SR University
16	Dr. B. Jeya Prabha	Associate Professor	Veltech Business School
17	Mr. K.Ravishankar	Assistant Professor	Veltech Business School
18	Mrs. Sridevi	Assistant Professor	Veltech Business School

S.No	Name	Designation	Organization
19	Dr.R.Kumudhini	Associate Professor	Veltech Business School
20	Mr. Prabhakaran .M	Assistant Professor	Veltech Business School
21	Mr. Shaju. N.S	Technical Assistant	Vel Tech TBI

ANNEXURE – IV

LIST OF INDUSTRIES VISITED

S. No.	Name & Address	Products / Service
1	M/S. 3Ding 12th Main Road, L Block, AL Block, Anna Nagar, Chennai, Tamil Nadu 600040	3D Printers & 3D Printing Services
2	M/S. Precious3D No 10/7, Damodaran Street Chetpet, Chennai - 600031	3D Print Manufacturers and Design
3	M/S. Vel Tech TBI Tinkering Laboratory 400 feet outer ring road, Avadi, Chennai-600062	Design and Prototype center

ANNEXURE – V

FEED BACK ANALYSIS OF PARTICIPANT-TEDP

Programme Location : Chennai
Date : From 11.09.2017 to 21.10.2017
Total no. of Participants : 25

Q.1) From where you got the information about this programme?

- | | |
|----------------------------|-----------------|
| a) Pamphlets / Broacher | : 85 Nos. (77%) |
| b) Newspaper Advertisement | : 00 Nos. |
| c) Posters/ Hand Bills | : 25 Nos. (23%) |
| d) Other | : 00 Nos. |

Q.2) What is your opinion about the duration of Programme?

- | | |
|-------------|-----------------|
| a) Short | : 30 Nos. (27%) |
| b) Adequate | : 80 Nos. (73%) |
| c) Long | : 00 Nos. |

Q.3) Did you find the Programme useful?

- | | |
|-------------------|-----------------|
| a) Very much | : 45 Nos. (41%) |
| b) To some extent | : 40 Nos. (36%) |
| c) Not useful | : 25 Nos. (23%) |

Q.4) Did it fulfill your expectations?

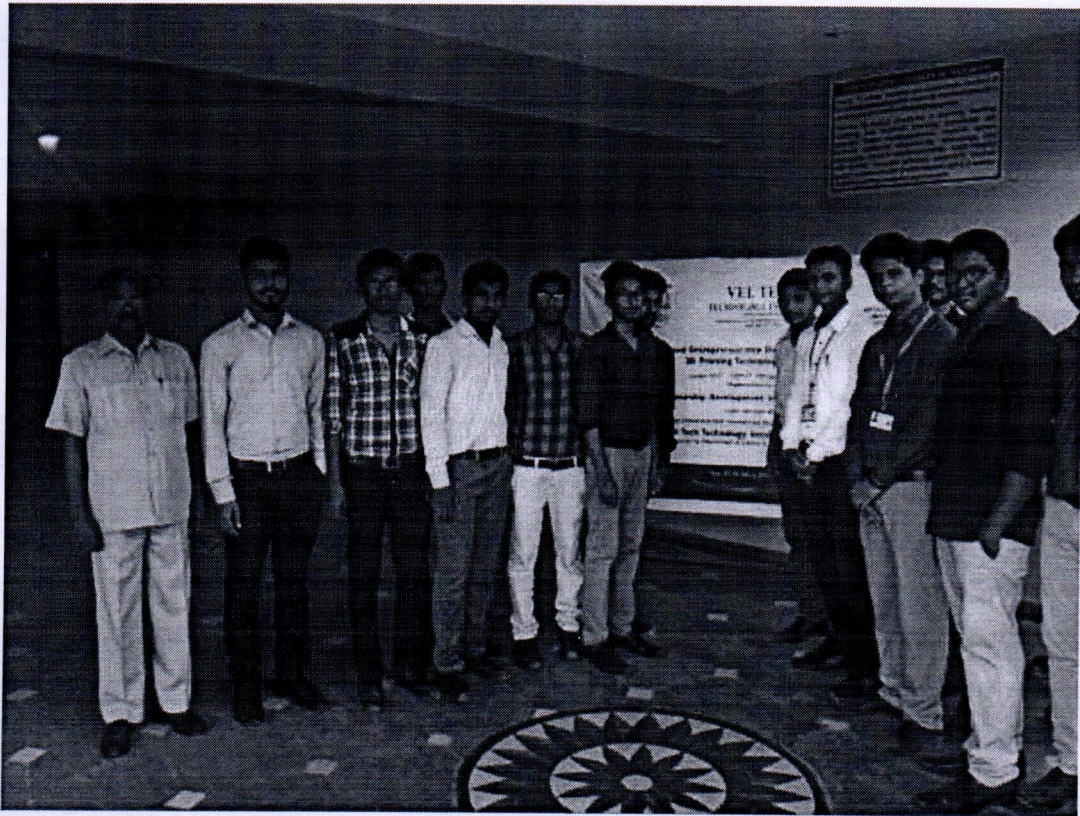
- | | |
|-------------------|-----------------|
| a) Yes | : 85 Nos. (77%) |
| b) To some extent | : 25 Nos. (23%) |
| c) No | : 00 Nos. |

Q.5) Planning of the Programme

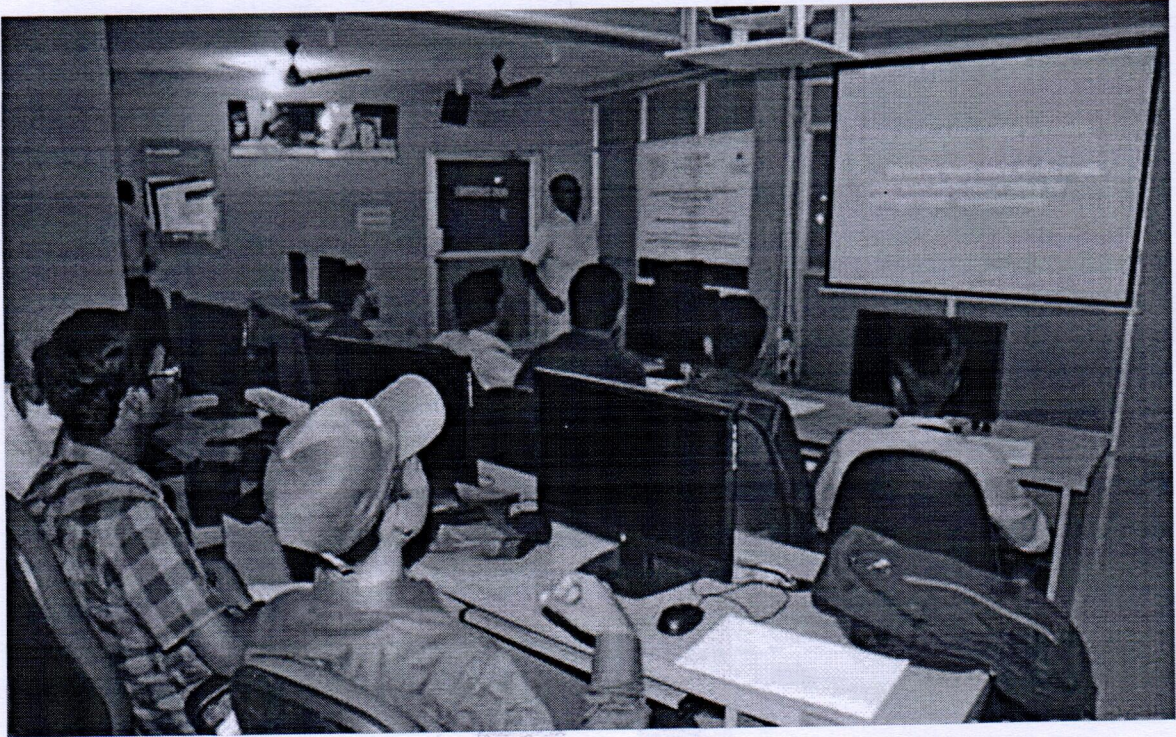
- | | |
|-----------------|-----------------|
| a) Excellent | : 65 Nos. (59%) |
| b) Very good | : 30 Nos. (27%) |
| c) Good | : 15 Nos. (14%) |
| d) Satisfactory | : 00 Nos. |
| e) Poor | : 00 Nos. |

PHOTOGRAPHS

Group Photo:



Classroom Photo:



Mr. M.S. Subramanian – Ex. DGM – NSIC, delivered about Entrepreneurship



Mr. K. Balaji – Asst. Director, MSME Development Institute Chennai, delivered about Schemes of assistance for MSMEs

Industrial Visit Photo:

