

DST – NIMAT PROJECT

PROFORMA FOR POST PROGRAMME REPORT (PPR) OF ~~EDP~~ / ~~WEDP~~ / TEDP (Effective from 01.04.2017)

(To be submitted within a month after completion of each programme)

1. Name & Address of Programme : **Vel Tech Rangarajan Dr.Sagunthala R&D
Institute of Science and Technology,**
Implementing Agency : 400 feet Outer Ring Road, Avadi, Chennai-600 062,
(with Tel/ Fax /E-mail) : Tamil Nadu, India. Tel/Fax : 044 6171 0244
Email : veltechthi@veltech.edu.in
2. Programme : **EDP/WEDP/ TEDP**
Trade (applicable to TEDP only) : 3D Printing & 3D Scanning
3. Programme Location : Chennai
4. Programme Date : From 14.10.2019 to 22.11.2019
5. Name of the Coordinator : Dr. P.Chandrakumar, Manager, Vel Tech TBI
6. Methods adopted to promote the programme: **(Please Tick)**
(Provide Documented Evidence)
Pamphlets / Broacher ☒ Newspaper Advertisement ☐
Posters/ Hand Bills ☐ Other (Please Specify) ☐
7. Date of interview : 12.10.2019
8. No. of application received : 37
9. No. of candidates attended the interview: 33
10. No. of candidate selected : 25
11. No. of candidate completed the programme successfully: Male: 22 Female: 3
12. List of participants : **ANNEXURE – I**
13. Program schedule : **ANNEXURE – II**
14. List of resource persons : **ANNEXURE – III**
15. List of industries visited : **ANNEXURE – IV**
16. Participant's feedback : **ANNEXURE – V**
17. Photographs of programme : Attach one group photo, one classroom
photo and one industry/institute visit photo

Prof. Dr. E. Kannan
Registrar

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



Vel Tech
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Technology based Entrepreneurship Development Programme (TEDP) in 3D Printing Technology

Under DST - NIMAT PROJECT 2019-20

Implemented by:
Entrepreneurship Development Institute of India (EDII)
Under the aegis of:
National Science & Technology
Entrepreneurship Development Board
Dept. of Science & Technology, Govt. of India

Objective:

- General Introduction & various Techniques of 3D Printing & 3D Scanning
- Exposure to the participants on the key steps in start-up venturing process and equip them with adequate knowledge to initiate venture in additive manufacturing technologies
- Equip the participants with requisite skills, knowledge and competencies to convert their start-up idea into viable business entity.
- Computer Aided Design/3D Scanning / 3D Slicing/Post processing techniques
- Applications of 3D Printing /Trends and Future of 3D Printing
- Hands on training / Business opportunities / Funding support from Vel Tech TBI

Duration: 6 Weeks (14th October – 22nd November 2019)

Who can attend: Possessing degree in any branch of Science / Engineering / Technology or diploma of any branch from recognized institution

Trade: 3D Printing Technology
Age: Between 18 to 40 Years
Intake: 25-30 Nos

**Venue: Vel Tech Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology,
Avadi, Chennai**

Program Coverage:

Entrepreneurship
& Schemes of
Assistance

Project
Selection
and its
Pre-Feasibility

Consolidation
of
Business Idea

Motivational
Input

Project Report
Preparation

Management
Inputs

Technical Training /
Exposure

Last date for registration: 12th October, 2019

**For Registration, Please Contact
Manager**

Vel Tech Technology Incubator (Vel Tech TBI)
No.42, Avadi-Vel Tech Road, Vel Nagar, Avadi, Chennai – 600 062, Tamil Nadu, India.
Phone: 044-26840605, 9600040254, 9600040252, 7904848516, 8754484208
E-mail: veltechtbi@veltech.edu.in, dindoffice@veltech.edu.in,
Website: www.veltechtbi.com

Resource:
Entrepreneurs / Industry
experts / Consultants /
Representatives from
Govt. Agencies / faculty
from Vel Tech

No Participation Fee
Selection: First Come
First Serve Basis

**CERTIFICATE WILL
BE AWARDED**

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ANNEXURE - I

LIST OF PARTICIPANTS

Sr. No.	Name, Address and Contact details of Participant	Age	Male / Female	Education	Category: Gen / SC / ST / OBC / Minority	Project/ Product Selected	Aadhaar Number
1	Mohamed Nafees	34	Male	B.E, MBA	Minority	Customized 3D food	784242147484
2	Dinesh Kumar J	21	Male	B.Sc	SC/ST	Graphic Design	350537538952
3	R Guru Vignesh	22	Male	B.Tech	OBC	Metal Printing	502859717534
4	N Thamotharakannan	32	Male	B.E	OBC	3D Print service	726679030079
5	Anbin Raja Benson	24	Male	B.Tech	General	Designing	410362635886
6	Gowri Shankar	20	Male	BE	OBC	3D Print service	873839878783
7	Manju shree priya	23	Female	B.Tech	General	Designing	662534648084
8	Ashutosh Gupta	23	Male	B.Tech	OBC	Designing	589368320456
9	Kalaiselvan K	23	Male	B.E	SC/ST	Product Prototype	235628277865
10	Jeya Krishnan J	25	Male	B.E	General	Customized 3D Gifts	781468532310
11	Pathan Saif Suleman Khan	24	Male	B. Tech	General	Prototyping	597348795182
12	Kalaiselvan K	23	Male	BE	SC/ST	3D Print service	235628277865
13	Rudresh Karn	20	Male	B.Tech	General	3D modeling	214303357178
14	Dhineshkumar	29	Male	I.T.I	OBC	Injection Molding	524757642984
15	Singaravelan	34	Male	Diploma	OBC	Welding technology	240200397510

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16	Jagadeeswaran	38	Male	ITI	OBC	CNC milling	557295536064
17	Manikandan	25	Male	B.TECH	OBC	Coding	410013476369
18	Lokesh M	21	Male	B.Tech	General	Designing	893565532537
19	Anand	35	Male	BCA	General	Developing filaments from plastic waste	751404755608
20	Aneesh Kumar Iyyappan	23	Male	B.E	OBC	3D Designing	377448029682
21	Abhi manyu	23	Male	B.TECH	General	3D Printer service	801107204924
22	Jayaraj Pandian R	34	Male	M.Tech	OBC	FDM products	257546558038
23	N.Sandhiya	20	Female	B.Tech	General	Custom models	748473937624
24	Vijayakumar	31	Male	Ph.D	OBC	Study on Chemical reaction on SLS/SLM	723900767600
25	Shalini	23	Female	B.Sc	General	3D print medical application	390178854996

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ANNEXURE – II

PROGRAMME SCHEDULE

Module – 1: ENTREPRENEURSHIP & SCHEMES OF ASSISTANCE			
Date and Day	Session	Subject / Topic	Faculty
Day 1 14/10/2019	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. Rajaram Venkataraman CEO-Vel Tech TBI
	III	Schemes of assistance for MSMEs: Financial agencies/institutions	Mr. Rajaram Venkataraman CEO-Vel Tech TBI
	IV		
Day 2 15/10/2019	I	Schemes of assistance for MSMEs: Financial agencies/institutions	Mr. Suresh Incubation Manager Vel Tech TBI
	II		
	III	Schemes of assistance for MSMEs; NSIC,SIDBI,DIC, and other support Agencies	Mr. Suresh Incubation Manager Vel Tech TBI
	IV		
MODULE-2: PROJECT SELECTION & IT'S PRE FEASIBILITY			
Day 3 16/10/2019	I	How to Identify Business Opportunities	Mr. Barath Surendran Director Techemate Leadership Academy
	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 17/10/2019	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	Protovelly – Chennai Industry Involved in Additive manufacturing
	IV		
MODULE-3:CONSOLIDATION OF BUSINEES IDEA			
Day 5 18/10/2019	I	Soft skill development: Communication	Dr. Bindu. M.R Associate Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	II	Soft skill development: Information Seeking	Dr.Ramesh Kumar. S Assistant Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology


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	III	Briefing and Planning for the Market Survey; Questionnaires Preparation	Mr. Chandrakumar Manager, Vel Tech Technology Business Incubator.
	IV		
Day 6 19/10/2019	I	Field Work: Conducting Market Survey and Data Collection for the identified business opportunities	Dr. S R Pandian Dean (Planning) IIITDM
	II		
	III		
	IV		
Day 7 21/10/2019	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 22/10/2019	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. Naveen Director Protovelly
	IV		
MODULE-4:MOTIVATIONAL INPUT			
Day 9 23/10/2019	I	Developing Entrepreneurial Competencies (Achievement Motivation Training)	Mr. Suresh Incubation Manager Vel Tech TBI
	II		
	III		
	IV		
Day 10 24/10/2019	I	Developing Entrepreneurial Competencies (Achievement Motivation Training)	Mr.K.Ravishankar, Associate Professor, Veltech Business School
	II		
	III		
	IV		
Day 11 25/10/2019	I	Developing Entrepreneurial Competencies (Achievement Motivation Training)	Dr.R.Kumudhini Associate Professor Veltech Business School.
	II		
	III		
	IV		
MODULE-5: PROJECT REPORT PREPARATION			
Day 12 26/10/2019	I	How to Prepare Detail Project Report	Dr.Ramesh Kumar. S Assistant Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	II	Production Planning in MSME	
	III		
	IV	Purchase Technique	
Day 13 28/10/2019	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 29/10/2019	I	Product Costing and Cost Consciousness	Mrs. Sridevi. J Assistant Professor Veltech Business School.
	II		
	III	Profitability & Balance Sheet	Dr. K.Kala Assistant Professor
	IV		

			Veltech Business School.
Day 15 30/10/2019	I	Cash flow	Mrs. Sridevi. J Assistant Professor Veltech Business School.
	II	Production Planning	
	III	Preparation of Detail Project Report	Mr. Suresh Incubation Manager Vel Tech TBI
	IV		
MODULE-6: MANagements INPUTS			
Day 16 31/10/2019	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 01/11/2019	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	Dr.B. Jeya Prabha Associate Professor Veltech Business School.
	IV	Pattern, Copy Right, Trade Mark and Industrial Management	
Day 18 02/11/2019	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 04/11/2019	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 05/11/2019	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	I		Mr. Premkumar M

06/11/2019	II	Introduction to Rapid Prototyping & Popular Rapid Prototyping Technologies	Director Botzlab Innovations and Services Pvt.Ltd
	III	Stereolithography(SLA) method, Working Principle and its application	
	IV		
Day 22 07/11/2019	I	Digital Light Processing(DLP) method, Working Principle and its application	Mr. Naveen Director Protovelly
	II		
	III	Fused deposition modeling (FDM) method, Working Principle and its application	
	IV	Design and making components training	
Day 23 08/11/2019	I	Selective Laser Sintering (SLS) method, Working Principle and its application)	Mr. Aravind Assistant Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	II		
	III	Digital Manufacturing Technology	
	IV		
Day 24 09/11/2019	I	3D Printing & 3D Scanning in Medical Applications	Dr. A. Emmanuel Associate Professor, Sri Ramachandra University
	II		
	III		
	IV		
Day 25 11/11/2019	I	Selective laser melting (SLM) method, Working Principle and its application	Mr. Syed Riyaz Ahammed Assistant Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	II	Applications of Rapid Prototyping to Aerospace Industries	
	III	Selection of Rapid Prototyping Machine	Mr. Shaju Incharge, Tinkering Lab Vel Tech TBI
	IV	Automotive Applications of RP	
Day 26 12/11/2019	I	3D Model creation, Slicing, optimizing and Evaluating a Prototype	Mr. Jeyaraman Assistant Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	II		
	III	Design and hands on training - 3D Print Demo on Knuckle Joint by FDM	Mr. K. Arunkumar Assistant Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	IV		
Day 27 13/11/2019	I	3D Printing Impact in Teaching Learning Practice	Mr. Syed Riyaz Ahammed Assistant Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	II		
	III		
	IV		
Day 28 14/11/2019	I	Recent developments in 3D Printing & Entrepreneurship Opportunity	Mr. Premkumar M Director Botzlab Innovations and Services Pvt.Ltd
	II		

	III	3D Scanning Live Demo and Working Procedure	Mr. Shaju Incharge, Tinkering Lab Vel Tech TBI
	IV		
Day 29 15/11/2019	I	Bio-material application in 3D Printing	Mr. Aravind Assistant Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	II		
	III	Hands on Training on FDM Desktop Printers	Mr. K. Arunkumar Assistant Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	IV		
Day 30 16/11/2019	I	Unmanned Arial Vehicle and its Applications	Dr. Balasubramanian Associate Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	II		
	III	Innovations in Rapid Prototyping	Mr. Syed Riyaz Ahammed Assistant Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	IV		
Day 31 18/11/2019	I	How to Design a 3D object by using 123D Autodesk	Mr. Jeyaraman Assistant Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	II		
	III		
	IV		
Day 32 19/11/2019	I	Sculpture 3D Modeling and customized designs	Mr. Shaju Incharge, Tinkering Lab Vel Tech TBI
	II		
	III		
	IV		
Day 33 20/11/2019	I	Make Prototype of Their own project or Design by using Flashforge Finder	Mr. Jeyaraman Assistant Professor Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
	II		
	III		
	IV		
Day 34 21/11/2019	I	Working Principle of Stratasys Fortus 250mc	Mr. Shaju Incharge, Tinkering Lab Vel Tech TBI
	II		
	III		
	IV		
Day 35 22/11/2019	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 of Faculty/ Resource Person	Designation	Organization
1	Mr. Rajaram Venkataraman	Chief Executive Officer	Vel Tech Technology Incubator
2	Dr. P. Chandrakumar	Manager	Vel Tech Technology Incubator
3	Mr. Barath Surendran	Director	Techemate Leadership Academy
4	Mr. Suresh	Incubation Manager	Vel Tech Technology Incubator
5	Dr. S R Pandian	Dean (Planning) & Coordinator, Teaching Learning Centre	Indian Institute of Information Technology, Design, and Manufacturing (IIITD&M)
6	Mr. Naveen	Director	Protovelly
7	Mr. Premkumar M	Director & Product Development Consultant	Botzlab Innovations and Services Pvt.Ltd
8	Dr. A. Emmanuel	Associate Professor, Oral & Maxillofacial Surgery	Sri Ramachandra Institute of Higher Education and Research
9	Dr. Balasubramanian	Associate Professor	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
10	Mr. Aravind	Assistant Professor	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
11	Mr. K. Arunkumar	Assistant Professor	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
12	Mr. Jeyaraman	Assistant Professor	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
13	Mr. Syed Riyaz Ahammed	Assistant Professor	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
14	Dr. Bindu. M.R	Associate Professor	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
15	Dr.Ramesh Kumar. S	Assistant Professor	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
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
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

Sr. No.	Name, Address and contact details	Products / Service
1	M/s. Protovalley CPDE 1st floor, CEG campus, Anna University, Chennai, Tamil Nadu 600025	Leading Manufacturer, Service Provider of 3d printing
2	M/S. 3Ding 12th Main Road, L Block, AL Block, Anna Nagar, Chennai, Tamil Nadu 600040	3D Printers & 3D Printing Services
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 14.10.2019 to 22.11.2019
Total no. of Participants : 25

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

- a) Pamphlets / Broacher : 19 Nos. (76%)
- b) Newspaper Advertisement : 00 Nos.
- c) Posters/ Hand Bills : 00 Nos.
- d) Other : 06 Nos. (24%)

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

- a) Short : 08 Nos. (32%)
- b) Adequate : 07 Nos. (28%)
- c) Long : 10 Nos. (40%)

Q.3) Did you find the Programme useful?

- a) Very much : 18 Nos. (72%)
- b) To some extent : 07 Nos. (28%)
- c) Not useful : 00 Nos.

Q.4) Did it fulfill your expectations?

- a) Yes : 19 Nos. (76%)
- b) To some extent : 06 Nos. (24%)
- c) No : 00 Nos.

Q.5) Planning of the Programme

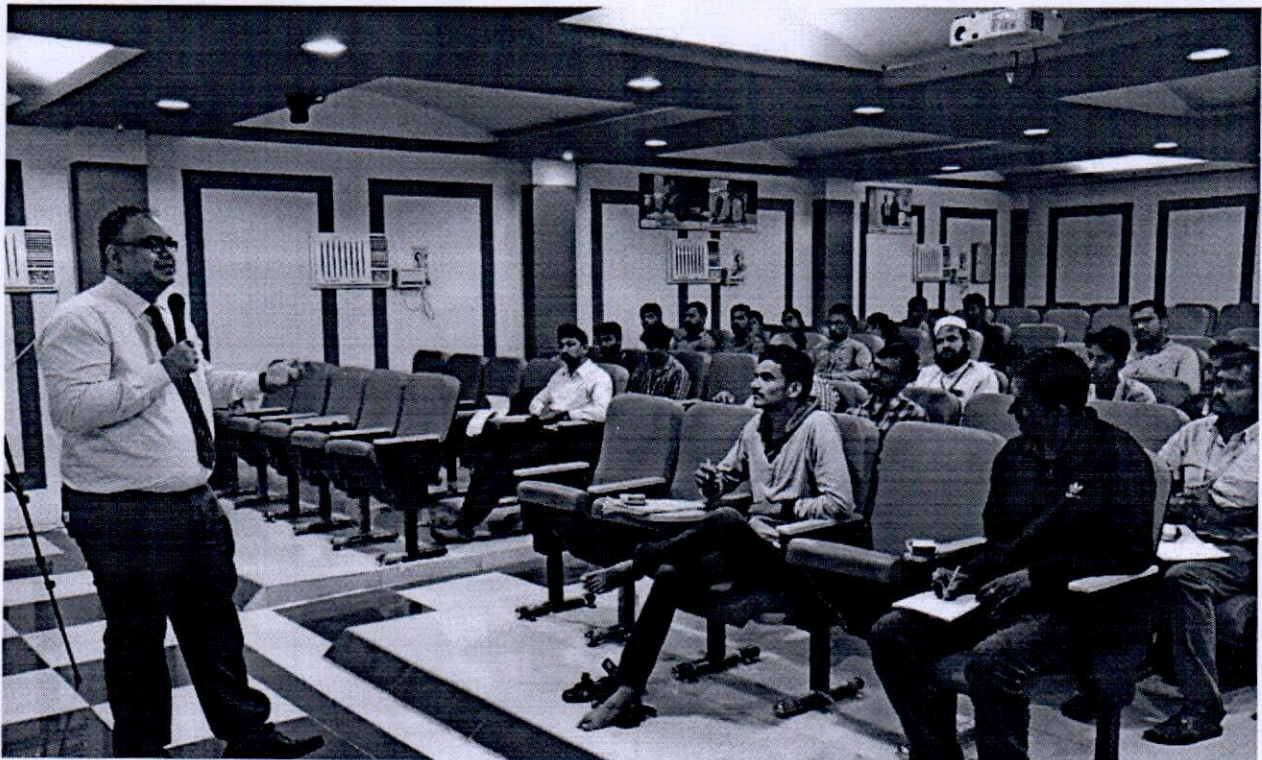
- a) Excellent : 12 Nos. (48%)
- b) Very good : 10 Nos. (40%)
- c) Good : 03 Nos. (12 %)
- d) Satisfactory : 00 Nos.
- e) Poor : 00 Nos.

Photographs of Programme

Group Photo



Class Room Photo



Industry/Institute visit photo

