LEARNING MODULES

FIRST DAY

01. Overview of Taguchi Method (1 ½ Hours)
02. The 8-steps in Taguchi Method (1/2 Hour)
03. Properties of Orthogonal Arrays (1/2 Hour)
I. Interactive session on Orthogonal Arrays (1/2 Hour)
04. Matrix Experiment and Additive Model (1 ½ Hours)
05. 'Static Problems' – P-Diagram without signal input (1/2 Hour)
06. EDM case-study using 8 steps (1 Hour)

SECOND DAY

07. Summary of Day 1 (1/2 Hour)
08. Full calculations of EDM case-study (1/2 Hour)
II. Interactive session on Excel sheet for EDM case study (1/2 Hour)
09. S/N Ratios for Static Problems (1 Hour)
III. Interactive session on S/N ratios for Static Problems (1/2 Hour)
10. Static case-study #2 : Polysi Deposition using 8-steps (1 ½ Hours)
11. Static case-study #3 : die-bonding or wire bonding (1/2 Hour)
12. 'Dynamic Problems' - P-diagram with signal input (1 Hour)
13. Dynamic Case-study #1 – NC Machine using 8 steps (1 Hour)

THIRD DAY

14. Summary of Day 2 (1/2 Hour)
15. S/N Ratio for Dynamic Problem (1 Hour)
16. Dynamic Case-study #2 – Vulcanite molding (1 Hour)
IV. Interactive session on Excel sheet for Dynamic Problems (1/2 Hour)
V. Case Studies : Static Problems
a. Real problems (by participants) : in breakout groups
b. Problem Formulation using 8-steps (1 Hour)
VI. Case Studies : Dynamic Problems
a. Real problems (by participants) : in breakout groups
b. Problem Formulation using 8-steps (1 Hour)
17. Putting it all together :
a. Use of Different tools of Taguchi Method (1/2 hour)
18. CONCLUDING SESSION (1/2 Hour)

FIRST DAY

	Registration and inauguration	**08:45**	**09:15**
01.	Overview of Taguchi Method	**09.15**	**11:00**
	T e a B r e a k	11.00	11.30
02.	The 8-steps in Taguchi Method	**11:30**	**12:15**
03.	Properties of Orthogonal Arrays	**12:15**	**13:00**
	L u n c h B r e a k	13:00	14:00
(i)	*Interactive session on Orthogonal Arrays*	**14:00**	**14:30**
04.	Matrix Experiment and Additive Model	**14:30**	**15:30**
	T e a B r e a k	15:30	15:45
05.	'Static Problems' – P-Diagram without signal input	**15:45**	**16:15**
06.	EDM case-study using 8 steps	**16:15**	**17:00**

SECOND DAY

07.	Summary of Day 1	**09:00**	**09:15**
08.	Full calculations of EDM case-study Function and Attribute Analysis and Trimming of components	**09:15**	**10:00**
09	S/N Ratios for Static Problems – part 1	**10:00**	**10.30**
(ii)	*Interactive session on Excel sheet for EDM case study*	**10:30**	**11.00**
	T e a B r e a k	11.00	11.30
09.	S/N Ratios for Static Problems – part 2	**11:30**	**12.00**
(iii)	*Interactive session on S/N ratios for Static Problems*	**12:00**	**12:30**
10a.	Static case-study #2 : Polysi Deposition using 8-steps	**12:30**	**13:00**
	L u n c h B r e a k		
10b.	Static case-study #2 : Polysi Deposition using 8-steps	**13:00**	**13:30**
11.	Static case-study #3 : die-bonding or wire bonding	**13:30**	**14.30**
12.	'Dynamic Problems' - P-diagram with signal input	**14:30**	**15.30**
	T e a B r e a k	15:30	16:00
13.	Dynamic Case-study #1 – NC Machine using 8 steps	**16:00**	**17.00**

THIRD DAY

14.	Summary of Day 2	**09:00**	**09:15**
15.	S/N Ratio for Dynamic Problem	**09:15**	**09:45**
16.	Dynamic Case-study #2 – Vulcanite molding	**09:45**	**10.15**
(iv)	*Interactive session on Excel sheet for Dynamic Problems*	**10:15**	**11:00**
	T e a B r e a k	11.00	11.30
17.	Putting it all together : *a. Use of Different tools of Taguchi Method*	**11:30**	**12:00**
(v)	*Case Studies : Static Problems* *a. Real problems (by participants) : in breakout groups* *b. Problem Formulation using 8-steps*	**12:00**	**13:00**
	L u n c h B r e a k	13:00	14:00
(vi)	*Case Studies : Dynamic Problems* *a. Real problems (by participants) : in breakout groups* *b. Problem Formulation using 8-steps*	**14:00**	**15:30**
	T e a B r e a k	15:30	15:45
18.	QUIZ on Taguchi Method	**15:45**	**16:15**
16.	CONCLUDING SESSION *a. Summary by Prof Apte* *b. Feedback by participants*	**16:15**	**17:00**