



G H RAISONI COLLEGE OF ENGINEERING AND MANAGEMENT WAGHOLI PUNE

(An Autonomous Institute under UGC Act 1956 & Affiliated to Savitribai Phule Pune University)

Domkhel Road , GAT No.: 1200 Wagholi, Pune – 412207

Course wise Teaching Plan for Session : Summer 2019

Course : **INDUSTRIAL PRODUCT DESIGN AND PRODUCT LIFE**

Faculty : **naresh.kumar@raisoni.net - NARESH KUMAR**

CYCLE MANAGEMENT

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Quality function deployment-quality project approach and the problem solving process.	03/12/2018	MCDL511G	A
1	2	Design creativity-innovations in design alternatives	06/12/2018	MCDL511G	A
1	3	Concurrent engineering, industrial design principles.	08/12/2018	MCDL511G	A
1	4	Product development versus design, types of design and redesign,	10/12/2018	MCDL511G	A
1	5	examples of product development process, scoping product development – S-curve, new product development	13/12/2018	MCDL511G	A
2	6	Gathering customer needs, organizing and prioritizing customer needs	14/12/2018	MCDL511G	A
2	7	establishing product function, FAST method,	17/12/2018	MCDL511G	A
2	8	establishing system functionality.GENERATING CONCEPTS: Information gathering,	20/12/2018	MCDL511G	A
2	9	brain ball, C-sketch/6-3-5 method, morphological analysis, concept selection, technical feasibility,	21/12/2018	MCDL511G	A
2	10	ranking, measurement theory, DFMA, design for robustness	24/12/2018	MCDL511G	A
3	11	Tear down method	27/12/2018	MCDL511G	A
3	12	Tear down method	28/12/2018	MCDL511G	A
3	13	post teardown report	31/12/2018	MCDL511G	A
3	14	post teardown report	03/01/2019	MCDL511G	A
3	15	benchmarking and establishing engineering Specification	04/01/2019	MCDL511G	A
3	16	product portfolios	05/01/2019	MCDL511G	A
4	17	Background, Overview, Need, Benefits, and Concept of Product Life Cycle	07/01/2019	MCDL511G	A
4	18	Components / Elements of PLM, Emergence of PLM	10/01/2019	MCDL511G	A
4	19	Significance of PLM, Customer Involvement,. Threads of PLM-computer aided design (CAD)	12/01/2019	MCDL511G	A



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4	20	engineering data management (EDM), Product data management (PDM),	14/01/2019	MCDL511G	A
4	21	computer integrated manufacturing (CIM, comparison of PLM to Engineering resource planning (ERP).	17/01/2019	MCDL511G	A
4	22	PLM characteristics -singularity, cohesion, traceability, reflectiveness	19/01/2019	MCDL511G	A
5	23	Product Data and Product Workflow	21/01/2019	MCDL511G	A
5	24	The Link between Product Data and Product Workflow	24/01/2019	MCDL511G	A
5	25	Key Management Issues around Product Data	28/01/2019	MCDL511G	A
5	26	Product Workflow, Developing a PLM strategy	31/01/2019	MCDL511G	A
5	27	Strategy identification and selection	02/02/2019	MCDL511G	A
5	28	PLM System Architecture (2tier/3tier/4tier etc)..	04/02/2019	MCDL511G	A