

**Course wise Teaching Plan for Session : Summer 2019****Course : INDUSTRIAL ENGINEERING & MANAGEMENT Faculty : pragat.kulat@raisoni.net - PRAGAT SHRIKRISHNA KULAT**

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Definition and Role of Industrial Engineering, Contribution of Taylor and Gilbreth	05/12/2018	BMEL312	C
1	2	Organisation : Concept of organisation, characteristics of organisation, elements of organisation, organisational structure, organisation charts	06/12/2018	BMEL312	C
1	3	Types of organisation- formal line, military organisation, functional organization, line & staff organisation	07/12/2018	BMEL312	C
1	4	Introduction to management principles, authority and responsibility, span of control, delegation of authority	12/12/2018	BMEL312	C
1	5	Productivity : Definition of productivity, Productivity of materials, land, building, machine and power	13/12/2018	BMEL312	C
1	6	Measurement of productivity: factors affecting the productivity	14/12/2018	BMEL312	C
1	7	Productivity Models and Index (Numerical), productivity improvement programmers	19/12/2018	BMEL312	C
2	8	Work Study: Definition, objective and scope of work-study. Human factors in work-study.	20/12/2018	BMEL312	C
2	9	Method Study-Definition, objective and scope of method study, activity recording and exam aids,	21/12/2018	BMEL312	C
2	10	Charts to record moments in shop - operation process charts, flow process charts, travel chart, two handed chart and multiple activity charts.	02/01/2019	BMEL312	C
2	11	Charts to record movement at work place - principles of motion economy, classification of moments, SIMO chart, and micro motion study.	03/01/2019	BMEL312	C
2	12	Definition and installation of the improved method, brief concept about synthetic motion studies	04/01/2019	BMEL312	C
2	13	Introduction to Value Engineering and Value Analysis	09/01/2019	BMEL312	C
2	14	Numerical	16/01/2019	BMEL312	C

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3	15	Work Measurements Definition, objectives and uses Work measurement techniques	17/01/2019	BMEL312	C
3	16	Work sampling - need, confidence levels, sample size determinations, random observation, conducting study with the simple problems.	18/01/2019	BMEL312	C
3	17	Problems	23/01/2019	BMEL312	C
3	18	Time study: Definition, time study equipment, selection of job, steps in time study.	24/01/2019	BMEL312	C
3	19	Breaking jobs into elements, recording information. Rating and standard rating, standard performance, scales of rating,	25/01/2019	BMEL312	C
3	20	factors affecting rate of working, allowances and standard time determination; Introduction to PMTS and MTM. (Numerical),	30/01/2019	BMEL312	C
3	21	Introduction to MOST	31/01/2019	BMEL312	C
4	22	Introduction: Types of production systems, Need and functions of PPC, Aggregate production planning, Capacity Planning,	01/02/2019	BMEL312	C
4	23	ERP: Modules, Master Production Schedule; MRP and MRP-II; Forecasting techniques:	06/02/2019	BMEL312	C
4	24	Causal and time series models, moving average, exponential smoothing, trend and seasonality;	07/02/2019	BMEL312	C
4	25	Numerical	08/02/2019	BMEL312	C
4	26	Supply Chain Management: Concept, Strategies,	13/02/2019	BMEL312	C
4	27	Supply Chain Network, Push and Pull Systems,	14/02/2019	BMEL312	C
4	28	Logistics, Distribution; Order Control strategies: MTO, MTA, MTS	15/02/2019	BMEL312	C
5	29	Facility Location Factors and Evaluation of Alternate Locations	22/02/2019	BMEL312	C
5	30	Types of Plant Layout	27/02/2019	BMEL312	C



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5	31	Computer Aided Layout Design Techniques; Assembly Line Balancing	28/02/2019	BMEL312	C
5	32	Numerical	01/03/2019	BMEL312	C
5	33	Material Handling: Principles, Types of Material Handling Devices; Stores Management Inventory Control:	06/03/2019	BMEL312	C
5	34	Functions, costs, classifications- deterministic and probabilistic inventory models,	07/03/2019	BMEL312	C
5	35	Concept of EOQ, purchase model without shortages, Numerical	08/03/2019	BMEL312	C
5	36	ABC and VED Analysis	08/03/2019	BMEL312	C
6	37	Engineering Economy and Costing: Elementary Cost Accounting and Methods of Depreciation	14/03/2019	BMEL312	C
6	38	Break Even Analysis (Numerical); Introduction to Debit and Credit Note	15/03/2019	BMEL312	C
6	39	Financial Statements Profit and Loss Account and Balance Sheet	20/03/2019	BMEL312	C
6	40	Techniques for Evaluation of Capital Investments. Human Resource Development: Functions: Manpower	20/03/2019	BMEL312	C
6	41	Planning, Recruitment, Selection, Training; Concept of KRA (Key Result Areas	22/03/2019	BMEL312	C
6	42	Performance Appraisal (Self, Superior, Peer, 3600).	28/03/2019	BMEL312	C
6	43	Industrial Safety: Safety Organisation,	28/03/2019	BMEL312	C
6	44	Safety Programme, General Safety Rules.	29/03/2019	BMEL312	C