

# DRONACHARYA

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code: Operations Research(MATHE-302-F)

Name of Faculty with designation :Dr. Jyoti Anand (Assistant Professor)

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
January	08.01.2018 Monday	VI-IT	1	Need of Operation Research in Engineering, and Teaching methodology of Dronacharya	.....	Assignment of 02 Ques. given
	09.01.2018 Tuesday	VI-IT	1	Introduction: role of operation research in decision making and their application in industries.		
	11.01.2018 Thursday	VI-IT	1	Concept of OR. Model building type and their method.		
	15.01.2018 Monday	VI-IT	1	Introduction about linear programming: programming definition and their formulation.		
	16.01.2018 Tuesday	VI-IT	1	Graphical solution of linear programming. Solution of L.P. by gauss Jordan (Simplex method)		
	18.01.2018 Thursday	VI-IT	1	Production process in simplex method- Artificial Variable Techniques.		
	23.01.2018 Tuesday	VI-IT	1	Simplex Method-Two-Phase Method Method		
	25.01.2018 Thursday	VI-IT	1	Production process in simplex: Big M method and Duality Principle		
	29.01.2018 Monday	VI-IT	2	Introduction about Deterministic model: transportation model and Formulation by North west corner rule,		
	30.01.2018 Tuesday	VI-IT	2	Introduction about Deterministic model: transportation model byVogal Approximation Method rule.		
	01.02.2018 Thursday	VI-IT	2	Stepping stone method, least cost method, modi method and Degeneracy method.		
	05.02.2018 Monday	VI-IT	2	Introduction about the Assignment Problem and Formulation. Find the Optimal Solution		

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February	06.02.2018 Tuesday	VI-IT	2	Introduction about the unbalanced transportation Problem and Degeneracy		
	08.02.2018 Thursday	VI-IT	2	Variants of Assignment Problem- Traveling sales man problem method.		
	19.02.2018 Monday	VI-IT	2	Introduction about the Replacement of the item & Deteriorate item with time		
	20.02.2018 Tuesday	VI-IT	2	Replacement of item Completely, Group Replacement and Staffing Problems		
	22.02.2018 Thursday	VI-IT	2	Parallel arrangement methods of assuring reliability		
	26.02.2018 Monday	VI-IT	3	Introduction about the Reliability and System Reliability		
	27.02.2018 Tuesday	VI-IT	3	Bath-tub shaped rate(Hazard Rate)		
March	05.03.2018 Monday	VI-IT	3	Reliability of the system by Series and Parallel System		
	06.03.2018 Tuesday	VI-IT	3	Parallel Arrangement-Methods of assuring reliability		
	08.03.2018 Thursday	VI-IT	3	Introduction about the Software & Hardware Reliability.		
	12.03.2018 Monday	VI-IT	3	Development of s/w reliability models		
	13.03.2018 Tuesday	VI-IT	3	Reliability Models- Parameter Estimation model		
	15.03.2018 Thursday	VI-IT	3	Reliability Models- Prediction Model		
	26.03.2018 Monday	VI-IT	4	Waiting line model: Introduction about Queue parameter M/M/1 queue.		
	27.03.2018 Tuesday	VI-IT	4	Concept on the exponential service and poisson arrival rate		
	02.04.2018 Monday	VI-IT	4	Performance of Queuing system finite and infinite arrival and single service time model		

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April	03.04.2018 Tuesday	VI-IT	4	Performance of Queening system finite and infinite arrival and multiple serve time model		
	05.04.2018 Thursday	VI-IT	4	Introduction about the information Theory, Entropy Properties of average measure of entropy		
	09.04.2018 Monday	VI-IT	4	Variants of Assignment Problem- Traveling sales man problem method.		
	10.04.2018 Tuesday	VI-IT	4	Important relations for various entropies, entropy Function, Uniqueness theorem		
	12.04.2018 Thursday	VI-IT	4	Introduction about the noiseless channel, Cannel Capacity, efficiency and redundance, encoding		
	24.04.2018 Tuesday	VI-IT		Revision Classes		
	26.04.2018 Thursday	VI-IT		Revision Classes		