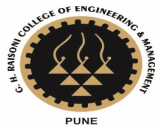


**Course wise Teaching Plan for Session : Summer 2019****Course : KINEMATICS OF MACHINES****Faculty : prashant.ambhore@raisoni.net - PRASHANT JANUJI AMBHORE**

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction	03/12/2018	BMEL204	B
0	1	Syllabus Discussion, Discussion on course objective & course outcome ,Basic concept of mechanism, link, kinematic pairs	04/12/2018	BMEL204	B
0	1	Draw (any 4) configurations of mechanisms and determine types of pairs, links, degree of freedom	04/12/2018	BMEL204	B
0	2	kinematic chain, mechanism, machine	05/12/2018	BMEL204	B
0	3	simple and compound chain, Degree of freedom	10/12/2018	BMEL204	B
0	1	Draw (any 4) configurations of mechanisms and determine types of pairs, links, degree of freedom	11/12/2018	BMEL204	B
0	4	estimation of degree of freedom of mechanism by Grubler's criterion and	11/12/2018	BMEL204	B
0	5	degree of freedom examples other methods	18/12/2018	BMEL204	B
0	6	Harding's notations, classification of four bar chain [class – I & class – II],	20/12/2018	BMEL204	B
0	7	inversion of four-bar-chain	21/12/2018	BMEL204	B
0	2	Two problems on velocity and acceleration analysis using relative velocity and acceleration method	01/01/2019	BMEL204	B
0	8	Quantitative kinematic analysis of mechanism	01/01/2019	BMEL204	B
0	9	Displacement, Velocity and Acceleration analysis of planer mechanism by graphical	03/01/2019	BMEL204	B
0	10	analytical method [complex number method / matrix method]	04/01/2019	BMEL204	B
0	2	Two problems on velocity and acceleration analysis using relative velocity and acceleration method	08/01/2019	BMEL204	B
0	11	Coriolis component of acceleration	08/01/2019	BMEL204	B
0	2	Two problems on velocity and acceleration analysis using relative velocity and acceleration method	15/01/2019	BMEL204	B
0	12	Instantaneous center method	15/01/2019	BMEL204	B



G H RAISONI COLLEGE OF ENGINEERING AND MANAGEMENT WAGHOLI PUNE

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

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Course wise Teaching Plan for Session : Summer 2019

Course : KINEMATICS OF MACHINES

Faculty : prashant.ambhore@raisoni.net - PRASHANT JANUJI AMBHORE

Unit	Topic Code	Topic Covered	Date	Course	Section
0	13	Kennedy's theorem	17/01/2019	BMEL204	B
0	14	Problems	18/01/2019	BMEL204	B
0	3	To draw the cam profiles and study the effect of ,Different follower motions	22/01/2019	BMEL204	B
0	15	Concepts of cam mechanism	22/01/2019	BMEL204	B
0	16	comparison of cam mechanism with linkages	24/01/2019	BMEL204	B
0	17	Types of cams and followers and applications.	25/01/2019	BMEL204	B
0	3	To draw the cam profiles and study the effect of ,Different follower motions	29/01/2019	BMEL204	B
0	18	Synthesis of cam for different types of follower motion like constant velocity	29/01/2019	BMEL204	B
0	19	parabolic, SHM, cycloidal	31/01/2019	BMEL204	B
0	20	Pressure angle in cam, parameters affecting cam performance.	01/02/2019	BMEL204	B
0	3	To draw the cam profiles and study the effect of ,Different follower motions	05/02/2019	BMEL204	B
0	21	Problem velocity	06/02/2019	BMEL204	B
0	22	Problems	07/02/2019	BMEL204	B
0	4	Two problems on velocity and acceleration analysis using relative velocity and acceleration method involving Coriolis component	12/02/2019	BMEL204	B
0	23	Concept of motion transmission by toothed wheels	13/02/2019	BMEL204	B
0	24	gear tooth terminologies, concept of conjugate action, law of conjugate action	14/02/2019	BMEL204	B
0	26	kinematics of involutes gear tooth pairs during the contact duration	15/02/2019	BMEL204	B
0	27	highlighting locus of the point of contact, arc of contact, numbers of pairs of teeth in contact	20/02/2019	BMEL204	B
0	28	path of approach and path of recess	21/02/2019	BMEL204	B

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Unit	Topic Code	Topic Covered	Date	Course	Section
0	29	interference,	21/02/2019	BMEL204	B
0	30	undercutting for involutes profile teeth	22/02/2019	BMEL204	B
0	4	Two problems on velocity and acceleration analysis using relative velocity and acceleration method involving Coriolis component.	26/02/2019	BMEL204	B
0	31	Kinematics of helical	27/02/2019	BMEL204	B
0	32	bevel, spiral, worm gears	28/02/2019	BMEL204	B
0	33	rack and pinion gears, kinematic analysis	01/03/2019	BMEL204	B
0	5	To study various types of gearboxes-constant mesh, sliding mesh, synchromesh gear box, Industrial gearbox, differential gearbox	05/03/2019	BMEL204	B
0	34	torque analysis of simple Epicyclic	06/03/2019	BMEL204	B
0	35	double Epicyclic gear trains	07/03/2019	BMEL204	B
0	36	Problems	08/03/2019	BMEL204	B
0	37	Problems	13/03/2019	BMEL204	B
0	38	Static force Analysis: Free body diagram, condition of equilibrium	14/03/2019	BMEL204	B
0	39	Analysis of all links of given linkage,	15/03/2019	BMEL204	B
0	5	To study various types of gearboxes-constant mesh, sliding mesh, synchromesh gear box, Industrial gearbox, differential gearbox	19/03/2019	BMEL204	B
0	40	cam, gear mechanism and their combinations without friction	20/03/2019	BMEL204	B
0	41	Introduction to coupler curves, Robert's Law of cognate linkages.Frudentein equation	22/03/2019	BMEL204	B
0	42	Synthesis of four bar chain for gross motion Transmission angle	27/03/2019	BMEL204	B