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It exposes the students to various kinds of power transmission devices like belt, rope, chain and gear drives and their working principles and their merits and demerits. UNIT-1 MECHANISMS : Elements or Links – Classification – Rigid Link, flexible and fluid link – Types of kinematic pairs – sliding, turning, rolling, screw and spherical pairs – lower and higher pairs – closed and open pairs – constrained motion – completely, partially or successfully constrained and incompletely constrained. Grashoff's law, Degrees of freedom, Kutzbach criterion for planar mechanisms, Mechanism and machines – classification of machines – kinematic chain – inversion of mechanism – inversions of quadric cycle chain – single and double slider crank chains. Download UNIT-1 Material PDF | Reference-2 UNIT-2 LOWER PAIR MECHANISM: Exact and approximate copiers and generated types – Peaucellier, Hart and Scott Russel – Grasshopper – Watt T. Chebicheff and Robert Mechanisms and straight line motion, Pantograph. Conditions for correct steering – Davis Steering gear, Ackermans steering gear – velocity ratio; Hooke's Joint: Single and double – Universal coupling-application-problems. Download UNIT-2 Material PDF | Reference-2 UNIT-3 KINEMATICS: Velocity and acceleration – Motion of a link in machine – Determination of Velocity and acceleration diagrams – Graphical method – Application of relative velocity method four bar chain. Velocity and acceleration analysis of for a given mechanism, Klein's construction, determination of Coriolis component of acceleration. PLANE MOTION OF BODY: Instantaneous center of rotation, centroids and axodes – relative motion between two bodies – Three centres in line theorem – Graphical determination of instantaneous centre, diagrams for simple mechanisms and determination of angular velocity of points and links. Also Check: Free google play redeem Codes Download UNIT-3 Material PDF | Reference-2 UNIT-4 CAMS: Definitions of cam and followers – their uses – Types of followers and cams – Terminology – Types of follower motion: Uniform velocity, Simple harmonic motion and uniform acceleration and retardation. Maximum velocity and maximum acceleration during outward and return strokes in the above 3 cases. Analysis of motion of followers: Roller follower – circular cam with straight, concave and convex flanks. BELT DRIVES: Introduction, Belt and rope drives, selection of belt drive- types of belt drives, Vbelts, materials used for belt and rope drives, velocity ratio of belt drives, slip of belt, creep of belt, tensions for flat belt drive, angle of contact, centrifugal tension, maximum tension of belt, Chains- length, angular speed ratio, classification of chains. Download UNIT-4 Material PDF | Reference-2 UNIT-5 GEARS Higher pairs, friction wheels and toothed gears-types – law of gearing, condition for constant velocity ratio for transmission of motion, Form of teeth: cycloidal and involute profiles. Velocity of sliding – phenomena of interferences – Methods of interference. Condition for minimum number of teeth to avoid interference, expressions for arc of contact and path of contact – Introduction to Helical, Bevel and worm gearing. GEAR TRAINS: Introduction to gear Trains, Train value, Types – Simple and reverted wheel train – Epicyclic gear Train. Methods of finding train value or velocity ratio – Epicyclic gear trains. Selection of gear box-Differential gear for an automobile. Download UNIT-5 Material PDF | Reference-2 TEXT BOOKS: Theory of Mechanisms & Machines by Jagadeesh lal, Metropolitan Pvt.Ltd. Theory of Machines by Thomas Bevan/ CBS Publishers REFERENCE BOOKS: Theory of Machines – S. S Rattan- TMH Publishers Theory of machines and Machinery-Vickers – Oxford . Theory of Mechanisms and machines – A.Ghosh & A.K.Malik – East West Press Pvt. Ltd. Kinematics and dynamics of Machinery- R.L Norton- TATA McGraw-Hill OUTCOMES: CO1: Conceive a mechanism for a given plane motion with single degree of freedom. CO2: Suggest and analyze a mechanism for a given straight line motion and automobile steering motion. CO3: Analyze the motion (velocity and acceleration) of a plane mechanism. CO4: Suggest and analyze mechanisms for a prescribed intermittent motion like opening and closing of IC engine valves etc. CO5: Select a power transmission system for a given application and analyze motion of different transmission systems The scholars finishing this course square measure expected to grasp the character and role of the mechanics of machinery, the mechanisms and machines. The course includes speed and acceleration diagrams, analysis of mechanisms joints, Cams and their applications. It exposes the scholars to varied forms of power transmission devices like belt, rope, chain and equipment drives and their operating principles and their deserves and demerits. UNIT – I Objective: the target of this unit is to form student perceive the aim of mechanics, Kinematic joint and mechanism and to check the relative motion of elements in a very machine while not taking into thought the forces concerned. MECHANISMS : parts or Links – Classification – Rigid Link, versatile and fluid link – forms of kinematic pairs – slippery, turning, rolling, screw and spherical pairs – lower and better pairs – closed and open pairs – unnatural motion – utterly, part or with success unnatural and incompletely unnatural. Grublers criterion, Grashoff's law, Degrees of freedom, Kutzbach criterion for placoid mechanisms, Mechanism and machines – classification of machines – kinematic chain – inversion of mechanism – inversion of mechanism – inversions of curve cycle, chain – single and double slider crank chains. UNIT – II Objective: the target of this unit is to form student perceive numerous mechanisms for line motion and their applications as well as mechanism. LOWER combine MECHANISM: precise and approximate copiers and generated sorts – Peaucellier, Hart and Scott Russel – Grasshopper – Watt T. Chebicheff and Henry M. Robert Mechanisms and line motion, Pantograph. Conditions for proper steering – Davis gear, Ackermans gear – speed ratio; Hooke's Joint: Single and double – Universal coupling-application-problems. UNIT – III Objective : the target of this unit is to form student perceive the speed and acceleration ideas and therefore the methodology mistreatment graphical strategies and principles and application of 4 bar chain. to grasp the appliance of slider crank mechanism etc. and study of plane motion of the body KINEMATICS: speed and acceleration – Motion of a link in machine – Determination of speed and acceleration diagrams – Graphical methodology – Application of relative speed methodology four bar chain. speed and acceleration analysis of for a given mechanism, Kleins construction, Coriolis acceleration, determination of Coriolis element of acceleration. Plane motion of body: fast centre of rotation, centroids and axodes – relative motion between 2 bodies – 3 centres in line theorem – Graphical determination of fast centre, diagrams for straightforward mechanisms and determination of angular speed of points and links. II Year – II Semester L T P C 4 0 0 3 KINEMATICS OF MACHINERY Please find the attached pdf file of Kinematics of Machinery Important Questions Bank – KM Imp Quists Link – KM Question Bank UNIT-1 MECHANISMS Define link and kinematic pair. Enumerate the inversions of double slider crank chain mechanism. Define machine and mechanism. For more questions please download the above Pdf file UNIT-II KINEMATICS Mention different types of instantaneous centres. Locate the instantaneous centres for crank and slotted lever quick return mechanism? Define Instantaneous centre For more questions please download the above Pdf file UNIT-III STRAIGHT LINE MOTION MECHANISMS What are straight line mechanisms? Describe any one mechanism having all turning pairs that generate an exact straight line? Explain the Peaucellier's straight line mechanism. For more questions please download the above Pdf file UNIT-IV CAMS Define a cam and mention the types? What are the various motions possible with cam and follower? Define a follower and mention the types? For more questions please download the above Pdf file UNIT-V HIGHER PAIR Explain spur, helical and bevel gears? Derive an expression for the length of path of contact. Explain the terms module, pressure angle and addendum in gears. For more questions please download the above Pdf file

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