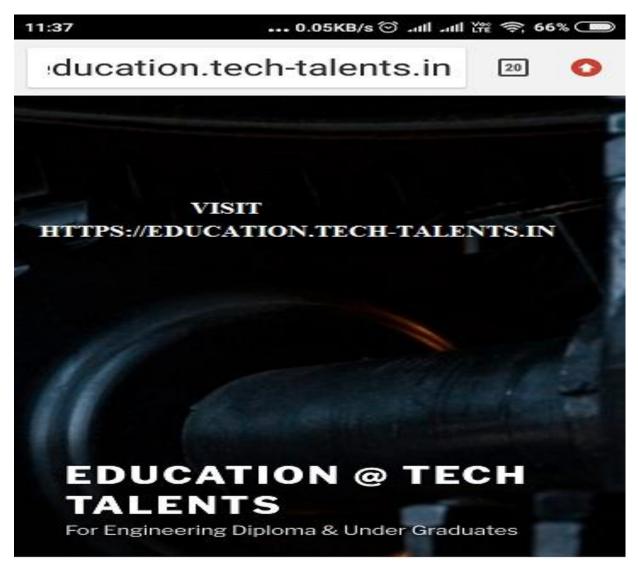
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Objective UNIT-I Air Enditioning systems: Clarsification of equipment, cooling, heating himidification and de humidification. Air Conditioning Filter, Graille & Rephiters Deodorants, fans and Blowers, Heat Pimp Heat Sources - different heat pump Circuits Applications. Depending on the nature of the dust, Type of dust and required cleanlines. AIR FILTERS :in the air-Conditioned space, The filters are broadly classified into five groups. as given below 1. Dry-Filters 2. Viscous Filters 3 Wet Filters 4. Electric Filters 5. Centrifugal dust collectors. Performance & Air-Filters  $\mathcal{Q} = \left(\frac{m_1 - m_2}{m_1}\right) \times 100.$ 

Fans and Blowess s 1. Axial Flows Farry 2. Centry ugal Farre Fan Hosse Pomor and Efficiency Uf = fan output in BP = CovHL [BP] Import in B.P = 1000 (BP) Farry from Different Manufactures:-1) Vame-Arial Farms Dual flow Fars Uslity Blover portable Air Cooler Duct fans 6) Aria/Fand 7) Fibreglans Fame. Grills and Registers:-Graill's A decorative covering bran outlet or intake is known as grill. The Grill provided with damper Damper:is known as Register. Proper air supply to an air- condition of hear is made through grills or registers. The gold or register can be located in the floor, high side of the wall or in the certing. The essential requirement of the Kappely point is that the air stream Convy out should not strike the occupants

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Air Conditioning of Multi Storied buildings. 1) They use highly centralized air conditioning equipment 2) Either soof and basement are The usual choice for these contral station 3) The basement has the the adrautag systems of easy utility connections, noise isolation sot low lost neutral area 4) The roof is the ideal location for freshor Entakes and hear rejection to the atmosphere 5) Cooling tower are hoisy produce very hot and humid enhaust air, so the best location for cooling nonver is placed on the roof. 1 a - the states of the state A Start A 2 Constant Restances E Sector IV. and the second second

DAll Air System Arrhoughtup (cooling) Toner  $\Rightarrow$ Reep Seeperation Atto on the maheshi sheekin 233 Fiz Gmentional In all Air System, Single Central Air Conditioning System on the reof

UNIT-VHEAT RUMP CIRCUITS Different type of Heat Proup Circuits are 3-3 a) Fixed Air-Cercuit Heat Pimp B) Fixed Refrigerant circuit. 1) Aiz-to-Aiz 2) hater to Air Design 3) Aizi to Water Design 4) Water to Water. Design. 5) Airs to Liquid Debign. Industrial Applications & Heat Pump 1. Iwritication & water 2. Concentration & Juices, Milk, & Sugar Syrup 3. Avrification of Satty water-from sea 4. Concentration of dyes & chemicals 5 11001-hand a dyes & chemicals 5. We for preparing powdered hidt & Table bit 6. Recovery of Solvents from different nonufacturing process 7. For year round air Conditioning

30°C Sint room 30°C Q. Eval path - F( Corder Amoradue - +SC feat QKoe Roomto Source Atmosphere 5 r V-E Heat Pump & Circuit

Heart Kimp Heating is a major part of the energy Consumption in the colder countries Shortage of Forsil Fuels. Heat Pimp's suggested answer unit Basically heat pump's a reprigeration unit capable of extracting heat from any source of las grade heat such as stmosphere, sea ground and upgrading the heat to a useful temperature. It is useful not only for heating homies, factories but for many Industrial Kurpses The energy from practically in exhaustible Sources may be explored at without Gost material and elevated to higher temp as reported per the requirement of applications In the heat pump system the medium charges from liquid to Vapour and back during the cycle. Thus in the process much more energy is exchanged than is needed to doine the pennip

30°C 30'0 Sink room d Conce Ser eat Inosper +SC Kocom Roomto Source Amosphere DE.V. Heat timp & Circuit The heat Pump is a primarily a refrigerent cycle Using heat sources as atmosphere, sea and ground This absorbed heat from the unusable sources is upgraded with the help of compressor and the Kuid Grozying The heat dissipates at required places Through The Condenser of the reprigeration system Othe Sufrigerant Cominy out of expansion Value doorby heat for 9, from Anisophere as its tenperature (-SC) is lower thom the atmosphere temperature (+SC) in the every stores the in the everphators OThis absorbed heat by refrigerant & is upgraded by adding the work Through Grupressor another total heat becomes 92= 91+W Drug heat is dissipated in the room Through Condenser. This hefregerant cycle is used for heating purpose only when the atmospheric temperature is below the required temperature for comfort stuck is known as "Itratiling"

UNIT-V HEAT ROMP CIPCUITS Different type of Heat Romp Could are s-D Aiz-to-Aiz (A) Fixed Air-Circuit Heat Rimp b) Fixed Refrigerant circuit. 2) Water to Air Design 3) Air to Water Defign 4) Water to Water Design. 5) Air to Liguid Design. Industrial Applications & Heat Rup 1. Purification & water 2. Concentration & Juices, Milk & Sugar Sepret 3. Purification of Satty water from sea 3. Purification of Satty water from sea 4. Concentration of dyes & chantal 5. We for preparing pondered hake Takent 5. We for preparing pondered hake Takent 6. Recovery of Solvents from different 7. For year roud air Conditioning

## THANK YOU

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