

## SNS COLLEGE OF TECHNOLOGY



(An Autonomous Institution) Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai Accredited by NAAC-UGC with 'A++' Grade (Cycle III) & Accredited by NBA (B.E - CSE, EEE, ECE, Mech & B.Tech. IT) COIMBATORE-641 035, TAMIL NADU

## DEPARTMENT OF AEROSPACE ENGINEERING

Dr.A.Arun Negemiya,

Academic Year 2024-2025 (Odd) Faculty Name

AP/ Aero

Year & Branch **II AEROSPACE** III Semester

Course 23AST202 – Fluid Mechanics for Aerospace

## **UNIT IV – PUMPS**

The internal and enternal diameters of the impeller g a centritugal pump are 200mm and 400mm suspectively. The pump is running at 1200 spm, The vane angles of the impeller at injet and Outlet are 20 and 30 respectively. The water the impeller radially and velocity & them Determine the worn done by the per writ weight & waiter. [AU-A/M-13] is constant. impeller Internal diameter & impeller, D1 = 200 mm SOL = 0,50W damer & impeller D2 = ADDMM = 0.40M Vane argee at whet,  $\phi = 30^{\circ}$ External water enters radially means of = 90° and Vw1=0 relocity & from Vf1 = V to2

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