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HYDRAULICS & HYDRAULIC MACHINES LAB 10 IV SEMESTER (15CVL47) Experiment No. 02 1. INTRODUCTION A Venturi Meter is a device that is used for measuring the rate of flow of fluid through a pipeline. The basic principle on which a Venturi Meter works

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1.Insert the given notch into the hydraulic bench and fit tightly by using bolts in order to prevent leakage. 2.Open the water supply and allow water till over flows over the notch. Stop water supply, let excess water drain through notch and note the initial reading of the water level „h o’ the hook and point gauge.

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$R=A/P$ Where, 3 QCET SAHIWAL Hydraulics Engineering R = hydraulic radius A = cross-sectional area P =wetted perimeter Manning's Co-efficient:- $n= 1/v * R^{2/3} * S^{1/2}$ chezy's Formula:- $V=C\sqrt{RS}$ V =mean velocity C = chazy's co-efficient R =hydraulic radius S = slope We can also write this as $C=a/n*R^{1/6}$ Steady uniform flow:- The type of flow in which flow properties (discharge,velocity etc) remain ...

cycles. This manual will be made available in the department pages of the college intranet in near future. ACKNOWLEDGEMENT This manual is prepared during odd semester, 2008-2009 by Dr. G. Jaisankar, Associate Professor and Mr. K. Balakrishnan, Lecturer under the guidance of Dr. R. Palaniswamy, HoD/CIVIL. MCET_CIVIL_Hydraulic Engg_LAB_MANUALVer3 ...

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