

TEQIP SUMMER INTERNSHIP 2018



भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

SUBMITTED BY :
RAJAT AGRAWAL
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NAME : RAJAT AGRAWAL

BRANCH : MECHANICAL ENGINEERING

YEAR : 3rd YEAR

COLLEGE : GOVERNMENT ENGINEERING COLLEGE OF BIKANER (RAJASTHAN)

FACULTY ADVISOR AT IITH : Dr. HARISH DIXIT

RESEARCH SUBJECT : DYNAMIC RISE IN CAPILLARY TUBES

CORE SUBJECT RELATED TO THE RESEARCH : FLUID MECHANICS AND COMPUTATIONAL FLUID DYNAMICS

DURATION OF INTERNSHIP : 1 MONTH

FINAL OUTCOME: 1) MEASURE THE MAXIMUM HEIGHT OF WATER IN CAPILLARY TUBES

DYNAMIC RISE IN CAPILLARY TUBES

- ▶ This study represent the rise in capillary tube. A small tube is put in a Contact With a liquid of low viscosity.it is found that :-
 1. the early stage of the rise Is described by Linear law for the position of the meniscus vs. Time.
 2. Oscillation around the Equilibrium occur if the liquid viscosity is low enough.



- ▶ Setup used in the lab



- ▶ Rise in capillary tube