

UNDERTAKING FROM THE CANDIDATE

I, **Ashish Kumar Pandey**, research scholar under the Supervision of **Prof. K K Srivastava** and the co-supervision of **Prof. P K Mishra**, Professors, Department of Chemical Engineering & Technology, IIT (BHU), Varanasi, India give undertaking that the thesis entitled “**Experimental Studies on Fluid Flow and Heat Transfer in Helical Coils of Micro-Diameter Tubes for Laminar Flow**” submitted by me for the degree of Doctor of Philosophy is a record of first hand research work done by me during the period of study.

I avail myself to responsibility such as an act will be taken on behalf of me, mistakes, errors of facts and misinterpretations, if any of course entirely of my own.

Date:

Place: Varanasi

(Ashish Kumar Pandey)

**COURSE WORK/COMPREHENSIVE EXAMINATION
COMPLETION CERTIFICATE**

This is to certify that **Mr. Ashish Kumar Pandey**, a bonafide research scholar of this department, has satisfactorily completed the course work examination which is a part of his Ph. D. programme.

Date:

Place: Varanasi

(Head of the Department)

**PRE-SUBMISSION SEMINAR COMPLETION
CERTIFICATE**

This is to certify that **Mr. Ashish Kumar Pandey**, a bonafide research scholar of this department, has satisfactorily completed the Pre-submission seminar held on 20th May 2016 which is a part of his Ph. D. programme.

Date:

Place: Varanasi

(Head of the Department)

COPYRIGHT TRANSFER CERTIFICATE

Title of Thesis: “Experimental Studies on Fluid Flow and Heat Transfer in Helical Coils of Micro-Diameter Tubes for Laminar Flow”

Candidate’s Name: Ashish Kumar Pandey

Copyright Transfer

The undersigned hereby assigns to the Indian Institute of Technology (Banaras Hindu University) all rights under copyright that may exist in and for the above thesis submitted for the award of the Ph. D. degree.

(Ashish Kumar Pandey)