**CERTIFICATE** 

It is certified that the work contained in the thesis titled "Influence of Bimodulus Polarity and Thermo-elastic Anisotropy on Interface Mixed-mode Fracture in Laminated Structures" by "Saumya Shah" has been carried out under our supervision and that this work has not been submitted elsewhere for a degree.

It is further certified that the student has fulfilled all the requirements of Comprehensive Examination, Candidacy and SOTA for the award of Ph.D. Degree.

## **Signature:**

Dr. S.K. Panda Supervisor (I.I.T. (B.H.U.), Varanasi) Dr. D. Khan Co-Supervisor (I.I.T. (B.H.U.), Varanasi)

## **COPYRIGHT TRANSFER CERTIFICATE**

<b>Title of the Thesis</b> :Influence of Bimoduli Interface Mixed-mode Fracture in Laminated	us Polarity and Thermo-elastic Anisotropy on Structures
Name of the Student:Saumya Shah	
Copyright Transfer	
• •	Institute of Technology (Banaras Hindu yright that may exist in and for the above DEGREE".
Date : Place: Varanasi	Signature of the Student ("Saumya Shah")

Note: However, the author may reproduce or authorize others to reproduce material extracted verbatim from the thesis or derivative of the thesis for author's personal use provided that the source and the Institute's copyright notice are indicated.