

# **ATTITUDE TOWARDS TECHNOLOGY TRANSFER AND RELATED FACTORS**

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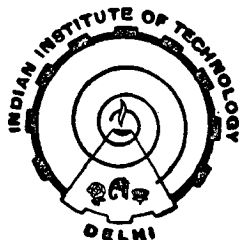
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*Thesis submitted*

*in fulfillment of the requirements of the degree*

*of*

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CERTIFICATE

This is to certify that the thesis entitled " Attitude Towards Technology Transfer And Related Factors" being submitted by Asim Kumar Guha to the Indian Institute of Technology, Delhi for the award of the degree of Doctor of Philosophy, is a record of bonafide research work carried out by him.

Asim Kumar Guha has worked under my guidance and supervision and has fulfilled the requirement for the submission of this thesis, which to my knowledge, has reached the requisite standard.

The results contained in this thesis have not been submitted in part or in full, to any other University or Institute for the award of any degree or diploma.

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All opinions expressed regarding findings in this thesis are, however, mine and I alone must take responsibility for them. In particular, they do not in any way reflect the views of the Organisation to which I belong.



ASIM KUMAR GUHA

21 Aug, 1987

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## ABSTRACT

The multifaceted phenomena of technology transfer has been an interesting field of study for the past two decades. Studies conducted so far primarily concentrate on techno-economic issues and related policy instruments. In this thesis, attempt has been made to explore the attitude of the policy and decision makers which play a definite role in the socio-psychological and management aspect of technology transfer.

The sample consisted of 200 respondents from Government, public and private sector industries, academic & R&D institutions. Four main hypotheses were developed for identifying structural relationships of attitudinal variables ( or dependent variables such as concept of self-reliance; preference for foreign collaboration, risk taking; customer preference; level of development; R&D, university and industry linkage; technology import policy; role of in-house R&D units ) with that of the technological orientation values ( which reflect materialistic or interactive approach to a problem) of the individuals and their background variables ( independent variables). Hypotheses and findings are grouped as under:

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- (A) Attitude of the respondents towards dependent variables will be intercorrelated with independent variables.

Findings reveal that direction of intercorrelations indicate their role towards achieving technological self-reliance.

- (B) Dependent and independent variables of the respondents will give rise to a major factor which will identify factors for achieving self-reliance.

Findings reveal Organisational factor comprising nature and type of organisation and nature of work variables (independent) contribute to maximum variance.

- (c) Background variables of the respondents will be valid predictors of the attitudinal variables.

Results show that technological orientation, field of specialisation and nature of organisation emerge as major predictors.

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- (D) There will be no difference in perception among the four groups of respondents in respect of technological orientation values, background and attitudinal variables.

Findings show that generally there is a difference among the groups which is contingent upon their nature of work.

The thesis elaborates the interpretation and the implications of the study to identify structural relationships of variables. Finally, recommendations for further research have been made.

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