Chapter 6

Conclusion

The present chapter gives a system perspective to industry-academia-interface. The chapter provides the summary of the work done in this direction through ten different industry-academia interaction modes considered in this study. It also highlights the outcomes of the study and the model developed to strengthen industry academia interface with its implementation strategies. It also explores the scope of the future research in the area.

6.1 Introduction

The primary objective which motivated the present work is to develop a system based model for improving industry-academia-interface to enhance educational quality, transform students to make them more mentally lithe with better traits, more productive with better interpersonal skills and more flexible with greater degree of foresight. This chapter also covers:

- Introspection to current industry academia interface status, reasons of low industry-academia interface and critical success factors pertaining to three major stake holder’s viz. industry, academia and student, of an education system was done to augment student quality and to strengthen industry-academia bond for mutual benefits.

- A survey tool (questionnaire) was developed which was used an instrument for getting industrial feedback on 10 different industry academia interface domains to understand industrial views on various issues related to academic quality and importance of industry-academia-interface in bringing qualitative change in academic performance.

- Survey results were analyzed analytically and pictographically and conclusions were drawn based on the responses obtained through survey.

- A model based on the work was developed with its implementation techniques and included different techniques of strengthening

6.2 Outcome of Study

Based on literature survey and analysis of industrial feedback received through industrial training, student placement, curriculum development, student evaluation, resource sharing,
seminars, research and development, adjunct faculty, collaboration and personality development programs, the following conclusion are drawn.

❖ The partnership between knowledge provider and knowledge user is of dire need to sustain in this globalize world.

❖ Industry-academia interaction is essential for progress of self, society and nation at large.

❖ Govt. regulations may be enforced in all industries to essentially provide structured industrial training to students. Decision on minimum number of training seats may be taken through regulatory body.

❖ A National and State level policy may be framed to revise syllabus after every 03 year in core engineering fields and after every 02 years in computer and information technology fields.

❖ Industrial participation in student evaluation may be made compulsory and the necessary provision may be made through regulatory body.

❖ A policy may be formed to create a central hub of sophisticated laboratories for better training. This facility may be extended to all local institutes for benefit of their students and to support better resource utilization. These laboratories must be managed by professionals to enhance its efficacy.

❖ Concept of seminars through e-learning may be enforced where by more and more number of institutes at the same time can interact with each other and with the speaker to enhance their learning potential.

❖ Govt. regulation may be imposed to ensure certain percentage of M. Tech and PhD projects to be based on live industrial problems, which are to be completed under joint supervision of industry and academia.

❖ Industry-academia collaborations may be enforced through certain government policies.

❖ Personality development course may be made mandatory as a part of academic curricula in every technical institute.

❖ UGC and AICTE instructions of offering a seat to industry in Board of Governors may be strictly enforced.
Academia and industry has to make major changes in their functions and governance to strengthen their bond. A model has been developed with its implementation strategies through thirty one modus operandi techniques which have been categorized in to 05 major groups, namely academia to industry, industry to academia, joint industry academia based, academia based and government based policies to reinforce industry academia interface.

6.3 Scope for Future Work

Every study is accompanied with certain limitations and scope for future work to be done. In the domain of Industry – Academia interface, there is a lot of scope of work as compared to core engineering areas. The reasons may be attributed to the fact that it is to be carried out jointly with industry. Also, more interest may be of academia in this area as industry is the potential employer for their students. The present work can also be extended further in the following way:

1. To conduct such study in association with the regulatory bodies of Academia/Industry
2. To conduct such surveys based on the type, size and geographical locations
3. To conduct online survey involving all stakeholders