

Preface

It was a great experience on the part of every team members of Industry Institute Interaction-2015, to initiate the process of bridging the gap between Industry and Academia.

On behalf of the organizing committee, I am extremely grateful and thankful to Dr. S. M. Seth, Hon'ble Chairman, Poornima Foundation for his valuable guidance inspiration and motivation.

I am highly obliged to our distinguished guests and resource persons for their valuable presence and making this interaction a great success through in-depth deliberations and enlightening the participants with their rich experience on different aspects of Industry Institute interface.

I am also thankful to our faculty members for their generous support in materializing the First Industry Institute Interaction-2015.

I am thankful to our students for their active participation in deliberations and for contributing quality projects in Project Exhibition.

On behalf of the organizing team, I express my sincere thanks to the management of Poornima Foundation, all the Head of departments of all the institutions of Poornima Foundation, faculty members and students for their untiring efforts in making the First Industry Institute Interaction-2015 a grand success.

Dr. Puneet Mathur,
Coordinator, Industry Institute Interaction-2015
Assistant Dean, PIET, Jaipur

Introduction

The First Industry Institute Interaction-2015 was organized by the Department of Computer Engineering and Department of Information Technology, Poornima Institute of Engineering & Technology on Saturday, March 21, 2015 at Poornima Institute of Engineering & Technology, Jaipur. The event was on a very pertinent theme "Discussion on bridging the gap between Industry and Academia", which for long have been operating in separate domains, are rapidly inching closer to each other to create synergies. The constantly changing management paradigms, in response to growing complexity of the business environment, today, have necessitated these two to come closer.

Technical Education forms the backbone of development of a nation. Industry is the major consumer of technical institution product. The real requirement of industry will be explored only through effective interaction with them. The industry is poised to face Global competition, Unemployment & underemployment. A good & vibrant Industry institute Interaction is always required by both sides. There is a need for effective intervention to understand employer needs, variable area specific skills, training requirements that improve business performance, articulation of business expectations in education institutions and engagement of industry experts with institutions.

If we look deeper to the specific environments in the institute and in the industry, it can be observed that institutions carry out their goals to facilitate learning, preserve a protected zone for students and nourish individual care to address the needs of the learners. The enterprise, on the other hand, work within the framework of industrial practices and norms with production, efficiency and profitability as the basic premise of day-to-day operations.

Another aspect is Engineering Education which is a major indicator of social change in a society and strives to churn out knowledgeable individuals who will contribute to the society actively, find employment and develop a positive attitude towards life. But now Engineering education is on the crossroads.

Engineering graduates are facing problem of unemployment tremendously and on the other hand industries are complaining about inadequate availability of skilled engineers. There is very little linkage between what is taught in academic institutions and what is required in actual field of employment. We need to build an implicative system to bridge the skill gap and to sustain in the changing scenario; hence there is great need of an effective and efficient Industry Institution Interaction.

The event aimed at bringing together all the stakeholders Delegates from industries, Management of Poornima Foundation, Head of Academics, Faculty members and Students to discuss the dimensions of Industry Institute Interaction today and exchange ideas, practice and experiences on different aspects of Industry-Academia integration.

The Objectives

- (1) To discuss the critical issues in the integration of industry and academia.
- (2) To identify potential areas of mutual participation of industry and academia giving rise to synergies.
- (3) To discuss innovative models and options for facilitating the exchange of perspectives between industry and academia.
- (4) To find possible solutions and benefits to strengthen the industry-academia integration and create the cooperative partnership.

The Proceedings

The First Industry Institute Interaction-2015 organized on Saturday, March 21, 2015. The event was inaugurated by Dr. S. M. Seth, Chairman, Poornima Foundation.

Event#1: Project Exhibition

The event has been started with the Project Exhibition. The exhibition housed display of 55 best projects from all the four institutions of Poornima Foundation. The projects were categorized under five main clusters. These clusters were Web Based Projects (.NET, PHP and Java), Mobile Applications (Android, IOS and windows8), Non-Conventional and Research Oriented Projects (Image Processing, Network Security, Sensor Based and Embedded System), WIPRO UTLP Kit based Projects and Non-Syllabus Projects. These projects were evaluated and reviewed by the industry experts during the exhibition.

It was really healthy discussion between industry experts and students during Project Exhibition and experts were asking some good questions to students. The delegates appreciated the efforts of students and suggested them for implementation and patent filling.

The exhibition was held at Examination Hall, PIET Campus. It began by 10:00 am and concluded by 2:30 pm, with a huge audience of Poornima Foundation. Among the five distinct clusters, best projects were selected based on the reviewers' comments and performance of the project groups during the discussion.

Event#2: Technical Paper Presentation

Research papers contributed by final year students of PIET were presented and discussed in a technical session. The technical sessions was chaired by Dr. Emmanuel Shubhakar Pilli, Malviya National Institute of Technology, Jaipur and Dr. Mahesh Bundele, Poornima University, Jaipur. Total 8 research papers were presented during the session. The queries raised by the session chairs were also addressed by the paper presenters. The session chairs, in their concluding remarks at the close of the sessions, gave their general impressions and provided guidance to the students as to how they could bring about improvements in their research work.

Event#3: Discussion on Bridging the gap between Industry and Institute

Mr. Shashikant Singhi, Director General, Poornima Foundation welcomed the guests. He started his discussion with the brief history of Industry Interaction with Poornima

Foundation. He emphasized on the strong partnership among industry, academic institutions and most important stake holders that are the students. He showed his optimism in the success of the discussion in exploring issues related to the industry partnership in training, projects and employability of students.

Mr. Dr. Puneet Mathur, Assistant Dean, PIET in his introductory address highlighted on the need of the strong and long term association of Industry and Institute. He discussed about the objective of the event and about the expected outcome.

Issues related with students were discussed by Mr. Amol Saxena, Head, Department of Computer Engineering, Poornima College of Engineering and Mr. Deepak Moud, Head, Department of Computer Engineering, Poornima Institute of Engineering & Technology. Delegates from Infosys, Pratham Softwares and Gempluse Infotech Pvt. Ltd. asked to extend the duration of the training after sixth semester. According to the experts, a student has to undergone training for at least 3 months. Several other issues related to expert talk, industrial visit, training and projects were also discussed during the session. Delegate from Planet Web Solutions suggested about the working on live projects during seventh and eighth semester. Mr. Shashikant Singhi, Director General, Poornima Foundation raised the question of the regular academics of the student, if they are working on these projects. He suggested engaging the students in these activities in their eighth semester. Delegates from industry were agreed on joint-mentorship program in which students will work on industry projects under joint guidance of both the industry expert and project guide from institution.

Ms. Pooja Sharma, Head, Department of Information Technology, Poornima Institute of Engineering & Technology and Mr. Ajay Mourya, Head, Department of Computer Engineering, Poornima Group of Institution raised the issues related to faculty members. According to them selected faculty members can work with some of the industrial projects along with the experts from industry. Infosys, Appirio, Pratham Softwares and Appcino were agreed to allow the faculty members to visit their organizations and work together in order to learn new tools and technologies. They emphasized to prepare a bank of innovative ideas for the final year projects.

Exhibitions, Workshops, Symposia and Conferences can be organized in joint participation of industry and institutions. This was discussed by Mr. Shirish Nagar, Head, Department of Information Technology, Poornima College of Engineering and Ms. Shikha Gautam, Head, Department of Computer Engineering, Poornima University. Most of the delegates were agreed to participate in curriculum development of Poornima University. Dr. Manoj Gupta, Provost, Poornima University, suggested the delegates to participate in part time M.Tech and PhD programmes at Poornima University.

Dr. S. M. Seth, Chairman, Poornima Foundation, in his closing remarks asked industry to provide latest information to students. He emphasized on the practice based approach of learning. He also highlighted the weak area of most of the students, communication skills. He discussed on the requirements of the Industry Institute Interaction and his expectations from the interaction.

At the end of the session, Vote of thanks is presented by Mr. Deepak Moud, Head, Department of Computer Engineering, Poornima Institute of Engineering & Technology.

Outcome

The important outcome of the First Industry Institute Interaction was bringing policy makers, academicians, practitioners and main stake holders – Students on a common platform to discuss on issues relating to the theme “Discussion on bridging the gap between Industry and Academia”. Besides deliberations held on diverse related topics by experts, research papers were also presented by students, Projects were also demonstrated on the occasion.

The above discussion has suggested that there are a number of key points:

- (1) Emphasis was made on duration of practical training. It was advised by the industry delegates to extend the time of practical training from 45-days to at least 90-days.
- (2) Academic Institutions should associate themselves with various respective industries by exposing the students to sessions from Industry Experts.
- (3) Students should also be given opportunity to work with industrial or real life projects to have hands on experience.
- (4) A common understanding was made in the process of curriculum development of Poornima University as per professional needs of the industry to make it more dynamic and job oriented.
- (5) Students’ participation in the Research and Developmental Projects of industry under the supervision and guidance of Expert Faculty was considered and discussed.
- (6) Some of the industries are looking for On-site job training for final year students.
- (7) Invitation to the partner industries to attend workshops and conferences.
- (8) Memoranda of Understanding between the Institute and industry for regular interaction for mutual benefit.

Recommendations:

- (1) Establishment of Industry-Institute Interaction Cell.
- (2) Organizing Workshops, conferences and symposia with joint participation of the faculty and the industries.
- (3) Encouraging engineers from industry to visit Engineering Institution to deliver lectures.
- (4) Arranging visits of staff members to various industry
- (5) Professional consultancy by the faculty to industries.
- (6) Visits of faculty to industry for study and discussions or delivering lectures on subjects of mutual interest.

- (7) Visits of industry executives and practising engineers to the Institute for seeing research work and laboratories, discussions and delivering lectures on industrial practices, trends and experiences.
- (8) Memoranda of Understanding between the Institute and industries to bring the two sides emotionally and strategically closer.
- (9) Human resource development programmes by the faculty for practising engineers.
- (10) B.Tech. and M.Tech. projects / dissertation work in industries under joint guidance of the faculty and experts from industry.
- (11) Participation of experts from industry in curriculum development of Poornima University
- (12) Practising engineers taking up part-time M.Tech ./ Ph.D. programme at Poornima University
- (13) Visiting faculty/professors from industries.
- (14) Practical training of students in industries.

Our distinguished Industries:

- (1) INFOSYS
- (2) PRATHAM SOFTWARES
- (3) INTECONS SOFTWARE LAB
- (4) METACUBE
- (5) APPIRIO
- (6) A3LOGICS
- (7) DATA INFOSYS LIMITED
- (8) DECURTIS CORPORATION
- (9) GEMPULSE INFOTECH PVT. LTD.
- (10) ROUNDABOUT TECHNOLOGIES
- (11) APPCINO TECHNOLOGIES PVT. LTD.
- (12) PERICENT TECHNOLOGIES
- (13) SOFTWORLD (INDIA) PVT. LTD.
- (14) PLANET WEB SOLUTIONS
- (15) OCTAL INFO SOLUTION
- (16) NATURAL SOFTWARES PVT. LTD.
- (17) ANKTECH SOFTWARES PVT. LTD
- (18) LOGIC SPICE
- (19) COMMELIUS SOLUTIONS
- (20) THINKB4CLICK.COM
- (21) INFOSCOPE TECHSOLUTIONS PRIVATE LIMITED

Interaction as viewed by media

Dainik Bhaskar	Daily News
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इंडस्ट्री और इंस्टीट्यूशन के प्रतिनिधियों ने किया इंटरैक्शन

सिटी रिपोर्टर • जयपुर
इंडस्ट्री और एकेडमिक्स के बीच के गैप को किस प्रकार कम किया जा सकता है। किस तरह दोनों एक-दूसरे के लिए सहायक बन सकते हैं? इन्हीं मुद्दों पर चर्चा के लिए दोनों क्षेत्रों के प्रतिनिधि शनिवार को एक मंच पर आए। पूर्णिमा इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी की ओर से आयोजित इस प्रोग्राम में विभिन्न संस्थानों के एचओडी के साथ 11 कंपनियों के 25 प्रतिनिधि शामिल हुए। इस दौरान दोनों क्षेत्रों की ओर से एक-दूसरे की उम्मीदों और उन्हें पूरा किए जाने के तरीकों पर चर्चा की गई। इस अवसर पर पूर्णिमा फाउंडेशन के कंप्यूटर साइंस और आईटी डिपार्टमेंट के प्रोजेक्ट्स की एग्जिबिशन भी लगाई गई, जिसमें 60 से अधिक प्रोजेक्ट्स डिस्प्ले किए गए।

डिमांड के मुताबिक तैयार हों स्टूडेंट्स



मेट्रो रिपोर्टर

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इंडस्ट्री और एकेडमिक्स के बीच के गैप को किस प्रकार कम किया जा सकता और किस प्रकार दोनों एक-दूसरे के लिए सहायक साबित हो सकते हैं। इन्हीं सब्जेक्ट्स पर चर्चा के लिए दोनों क्षेत्रों के प्रतिनिधियों ने शनिवार को एक मंच पर इंटरैक्शन किया। पूर्णिमा इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी की ओर से आयोजित इस प्रोग्राम में पूर्णिमा फाउंडेशन के विभिन्न संस्थानों के संचालकों और एचओडी के साथ 11 कंपनियों के 25

प्रतिनिधि शामिल हुए। चर्चा के दौरान एकेडमिक्स की ओर से बताया गया कि प्रैक्टिकल ट्रेनिंग, विजिट, प्रॉजेक्ट, स्पेशल लेक्चर और रिसर्च जैसे विषयों पर एकेडमिक्स को इंडस्ट्री की सर्वाधिक जरूरत होती है। इंडस्ट्री एक्सपर्ट्स की ओर से बताया गया कि स्टडी पीरियड के दौरान ही स्टूडेंट्स को इंडस्ट्री की डिमांड के अनुसार तैयार किया जाए तो काफी लाभदायक साबित हो सकता है। इस अवसर पर पूर्णिमा फाउंडेशन के कंप्यूटर साइंस और आईटी डिपार्टमेंट के प्रोजेक्ट्स की एग्जिबिशन भी लगाई गई। जिसमें 60 से अधिक प्रॉजेक्ट डिस्प्ले किए गए।

Photo Gallery

