

# Finolex Academy of Management and Technology, Ratnagiri

## Report on Industry Academia Conclave 2017

**Attended By-** Mr. Vishal S. Kore

**Nominated By-** Dr. Kaushal Prasad

**Organized By-** Confederation of Indian Industry (CII)

**Venue and Date of Conclave-** Hotel Westin Pune, 31/10/2017

### **Theme of Industry Academia Conclave 2017**

***“Gearing up for Industry 4.0 paradigm- Developing robust industry institute collaboration”***

The second edition of the Industry Academia Conclave was focused on how the educational institutions should gear up to the changes in the industry through better industry –institute collaborations.

***The theme – “Gearing up for Industry 4.0 paradigm- Developing robust industry institute collaboration”*** was focused on dynamic changes and aims to initiate a roadmap for the educational institutions through focused deliberations on interventions in resource and curriculum development, promoting innovation and entrepreneurship, employability skill enhancement etc. with a strong thrust on industry and academia partnerships.

### **Focused Areas-**

- 1) Rethinking Curriculum and Domain Capabilities for Employability
- 2) Partnership for Creating an Ecosystem of Innovation and Entrepreneurship
- 3) Leveraging Technology for Excellence in Education
- 4) Rethinking Employment – Role of Industry & Academia / Transformative Relationship way forwards

### **Inaugural Session**

Following dignitaries participated in Inaugural session of Conclave

- 1) **Mr. Viren Joshi** – Vice Chairman CII Pune Zone Council & CEO & president, Sigma Electric Manufacturing Corporation Pvt. Ltd.
- 2) **Dr. Uma Ganesh-** Convener, CII Industry-Institute-Interface (I<sup>3</sup>) Panel and CEO, Global Talent Track.
- 3) **Mr. Ninad Karpe-** Chairman, CII Western Region & Director Aptech Ltd
- 4) **Prof. S G Dhande** – Former Director, IIT Kanpur

# Finolex Academy of Management and Technology, Ratnagiri

- 5) **Dr. S L Patil**- Co-Convener, CII Industry-Institute-Interface (I<sup>3</sup>) Panel and Dean Students Affairs, COEP Pune.

In inaugural Session of Conclave

-**Mr. Viren Joshi** has given welcome speech and opening remarks.

## Key points made by Mr. Viren Joshi in his remarks-

- 1) 7 Colleges have signed MOU with Industry through CII till date
- 2) Institutes should make sure that their students can interact with industry
- 3) Students should do good quality project work
- 4) It is observed that Students have lack of Soft skills.

-**Dr. Uma Ganesh** has given the theme address,

## Key points made by Dr. Uma Ganesh in her address-

- 1) Raised concern about
  - a) **Institutes which are falling to find employment opportunities for their students.**
  - b) **Lack of Complex problem solving ability in students.**
  - c) **Infrastructure at Institutes**
  - d) **Lack of use of technology in Teaching**
  - e) **Lack of latest Hardware and Software in Institutes**
- 2) Institutes should focus on startups/incubation centers for their students.
- 3) Institutes should motivate students to improve
  - a) **Complex problem solving ability in students**
  - b) **Ability to understand system**

- **Mr. Ninad Karpe** has given special address at conclave,

## Key points made by Mr. Ninad Karpe in his special address-

- 1) Most of the Research happens in Academia, ***Collaboration of Industry Academia*** Will Improve Research.
- 2) Suggestions for Companies and Institutes
  - a) Placement should be done at 1<sup>st</sup> year of Engineering by Industries.
  - b) Mentors should grow the selected students in remaining year of Engineering.
  - c) Meanwhile companies can observe grades of Students and give necessary input to students.
- 3) Appealed to all Academicians to sign up MOUs.

# Finolex Academy of Management and Technology, Ratnagiri

-Prof. S G Dhande has given key Note address at conclave.

## Key points made by Prof. S. G. Dhande in his special address-

- 1) Explained 5 phases of growth Revolutions in Indian History.
- 2) Industry doesn't mean only Manufacturing; it also includes Service sector.
- 3) Skill set required in students in Service sector.
- 4) Science based teaching in IITs.
- 5) Explained Change in Technology used in Industry.
- 6) Prediction about Future of Engineering institutions.

## *Session I- Rethinking Curriculum and Domain Capabilities for Employability*

This session was focused on the changes that are happening in the Industry and how industry and academia should work together for developing curriculum that would increase the domain knowledge and employability of the Graduates.

Following dignitaries participated in Rethinking Curriculum session of Conclave

- 1) **Dr. Uma Ganesh**- Convener, CII Industry-Institute-Interface (I<sup>3</sup>) Panel and CEO, Global Talent Track.
- 2) **Mr. Viren Joshi** – Vice Chairman CII Pune Zone Council & CEO & president, Sigma Electric Manufacturing Corporation Pvt. Ltd.
- 3) **Prof. B. N. Chaudhary**- Deputy Director, COEP Pune
- 4) **Dr. A. K. Prakash**- Head of Advanced Engineering, Hella India Automotive Pvt. Ltd.
- 5) **Mr. Aniket Natu** – Business operations Leader, Amazon India.
- 6) **Dr. Rajendra Jalnekar** – Director, VIT Pune.

Growth in Industry is linear whereas growth in Academia is nonlinear.

**Dr. A. K. Prakash** said

- 1) Companies usually hire freshers from Engineering colleges' who become productive after 2 years.
- 2) There are missings in current curriculum (GAP)
- 3) Given Suggestions to make Engineering productive
  - a) **Introduce Course/ Training of Automotive & Embedded System at College (Strictly taught by Industry Experts)**
  - b) **Institutes should help their students to solve problems given during Internships.**

## **Finolex Academy of Management and Technology, Ratnagiri**

- c) Institute should introduce training on 1) Machine Learning 2) Deep Learning
  - d) Institute should focus on Research
  - e) Problem Solving approach should be implanted in students (Force students to participate in different competitions conducted by Industries, make this culture in college)
  - f) Focus on Optimization related problems.
- 4) Future will belong to those who creates Intellectual properties & products.
  - 5) Institutes should Motivate students and faculties for Patents and focus on Commercialization of projects/products. Institutes should do marketing / Selling of the products made by students.
  - 6) The concept of Adjunct faculty should be implemented at institutes.
  - 7) Institutes should motivate students to do Internship.
  - 8) Institutes should use HR Services /Consultancies (paid) to improve Placements.

**-Mr. Viren Joshi** has suggested that

- 1) Industry Managers should spend time in Institutes, they should work at Institute with Professors.
- 2) Professors should spend time in Industry for at least couple of Months in a year.
- 3) To feel the GAP between Industry and Academia, Collaboration is Important.

**-Prof. B N Chaudhari** has suggested

- 1) Institutes should offer courses designed by Industries as an Elective Subject.
- 2) Non Autonomous institutes can introduce it in the form of Training/Workshop.
- 3) Institutes Should keep goal to become Autonomous with the time so they will get liberty to redesign syllabus as per industry requirements.
- 4) Institutes should make 2 Months Industry Internship compulsory to all Faculty Members.

**- Mr. Aniket Natu** has explained the qualities which should be possessed by students to get hire.

- 1) Companies are looking for talent which can become leader in future.
- 2) Talent which can bring new innovative ideas in Business.
- 3) Talent which can Improve the customer service.
- 4) talent which is ready to work in Non-technical fields like Risk Analytics, Data Analytics etc.
- 5) It would be great if institutes will split the students into technical and non-technical categories and give them required training. It will improve the placements in institutes.

# Finolex Academy of Management and Technology, Ratnagiri

-Dr. Rajesh Jalnekar has shared his view on syllabus design and teaching.

Suggestions by **Dr. Rajesh Jalnekar**

- 1) **Flipped classroom** concept should be used during teaching
- 2) **Project based and project Centric learning** should be implemented (**Min. 8 mini Projects** should be done by students in **4 years of Engineering**).
- 3) **60% time** of an engineering student should be spent **on hands on projects**.
- 4) Institutions should force students to go **for industry sponsored projects**.
- 5) A subject which will improve Analytical and problem solving ability of students should be taught in institutions.

## **Conclusion of session-**

Problem solving ability is required in students, they should understand the system. Collaboration with Industry is required, Faculty-Manager exchanges programs required, Industries should stop recruitment based on marks rather they should recruit students based on their ability and projects.

## ***Session II - Partnership for Creating Ecosystem of Innovation and Entrepreneurship***

This session was focused on some existing cases and how both industry and academia can work together.

Following dignitaries participated in Partnership for Creating Ecosystem of Innovation and Entrepreneurship session of Conclave.

- 1) **Mr. Ninad Karpe**- Chairman, CII Western Region & Director Aptech Ltd
- 2) **Mr. Pradeep Bhargava**-Past Chairman CII Western Region & Director, Cummins India Ltd.
- 3) **Mr. Sudhir Mishra**- MD, Pinnacle Industries Ltd.
- 4) **Mr. Sanjay Inamdar**- Co-Founder Bhau Institute of Innovation, COEP Pune.
- 5) **Mr. Dilip Thosar** – CEO Symbiosis Center for Entrepreneurship and Innovation

The dignitaries participated in session of Conclave have discussed current Ecosystem of Innovation and Entrepreneurship. Current Ecosystem is not encouraging students to become Entrepreneur. Institutions and Industry both are responsible to create encouraging Ecosystem of Innovation and Entrepreneurship.

## **Suggestions by dignitaries-**

- 1) Industries should help Institutions to start incubations at institute premises.
- 2) Institutes should focus on interested students which can become Entrepreneurs.
- 3) Young Entrepreneurs should learn to celebrate failure.
- 4) Yes, we Can, just do it, Go and Get it kind of Attitude is required to become Entrepreneur.

# Finolex Academy of Management and Technology, Ratnagiri

## Conclusion of Session-

Innovation and Entrepreneurship culture hugely depends on the academic and industry linkages of the region. Indian Industry and Academia therefore needs to nurture stronger linkages and partnerships to create an eco-system that is conducive to Entrepreneurship and Innovation.

## Special Address by Dr. Ganesh Natarajan

**Dr. Ganesh Natarajan** was given special address on “**Gearing up for Industry 4.0 paradigm**”

Some concepts explained by Dr. Ganesh Natarajan are

- 1) What is Industry 4.0?
- 2) Cyber physical Systems
- 3) 3D printers
- 4) Interoperable systems
- 5) Emerging area like Automation and Deep Learning
- 6) Self-Healing Machines
- 7) Predictive analytics
- 8) Virtual reality
- 9) Some online courses which includes above mentioned Topics

## ***Session III - Leveraging Information Technology for Excellence in Education***

This session was deliberated on how information technology can enhance efficiency of the education sector.

Following dignitaries participated in Leveraging Information Technology for Excellence in Education session of Conclave.

- 1) **Mr. Uday Ghare**- Vice President- Digital Services Tech Mahindra
- 2) **Mr. Jaydeep Kewalaramani**- CEO, Skills Alpha
- 3) **Mr. Rajesh Vartak**- CTO & Director, Seed Infotech Ltd.
- 4) **Mr. Kunal Gijare**-Practice Lead Infosys Ltd.

## **-Suggestions given by Mr. Uday Ghare**

- 1) Find Creative Faculty in college who can make digital
  - a) Students Experiments
  - b) Digital Labs

## **Finolex Academy of Management and Technology, Ratnagiri**

- c) Assessment System
  - d) Question Paper setting
  - e) Business Models for college (Like different commercial Apps and softwares)
- 2) Faculty should use online videos for teaching.
  - 3) Faculty should use different websites for teaching.
  - 4) Students should be engaged in small App developments.

### **-Suggestions given by Mr. Jaydeep Kewalaramani**

- 1) Use of digitization in teaching is necessary.
- 2) Use of Cloud Base Applications in teaching.
- 3) Online courses to upgradation of faculty members.

### **-Suggestions given by Mr. Rajesh Vartak**

- 1) Students should not afraid to learn Programming languages.
- 2) Faculty should develop few apps through which they can engage students for learning.

### **Conclusion-**

Systems and processes in institutes should be digital. Institutes should focus on virtual labs, Use of digitization in teaching is necessary. Faculty should develop few apps through which they can engage students for learning.

### ***Session IV- Rethinking Employment: Role of Industry & Academia: Transformative Relationships- Way Forwards***

The session was aimed to deliberate upon how the institutes, industry and other important stakeholders should work together to address these changes.

Following dignitaries participated in Rethinking Employment session of Conclave

## **Finolex Academy of Management and Technology, Ratnagiri**

- 1) **Dr. Uma Ganesh**- Convener, CII Industry-Institute-Interface (I3) Panel and CEO, Global Talent Track.
- 2) **Mr. K Venugopal**- Director & COO NTTF India Pvt. Ltd.
- 3) **Mr. Nitin Gawhane**- GM, thyssenkrupp Industries India Pvt. Ltd.
- 4) **Mr. Vishwesh Kulkarni**- President, Yashaswi Education Society
- 5) **Mr. Anant Khot**- Hr Leader, IBM India Pvt. Ltd.

- **Mr. K Venugopal** raised concern

- 1) Institutes are not producing candidates with the skill set which are required to work in industry.

### **Suggestions**

- 1) Right kind of training is necessary for students which will grow required skill set.

### **Mr. Nitin Gawhane suggested**

- 1) Institutes should give more focus on teacher's development.
- 2) 360° plan required to develop teacher.

### **Mr. Anant Khot suggested that**

- 1) Institution should focus on Analytics and cognitive Domains both are emerging areas as per job concern.

### **Conclusion-**

Institutes should work on development of teacher; they should arrange right training programs to increase skill set of students. Institutes should focus on emerging technological areas to provide job opportunities to students.