# Industry Expectations From Academia



Presented at WOSA 2016 Conference by Mr. Yogi Sriram (Sr. VP - L&T LTD) ,20th March'16

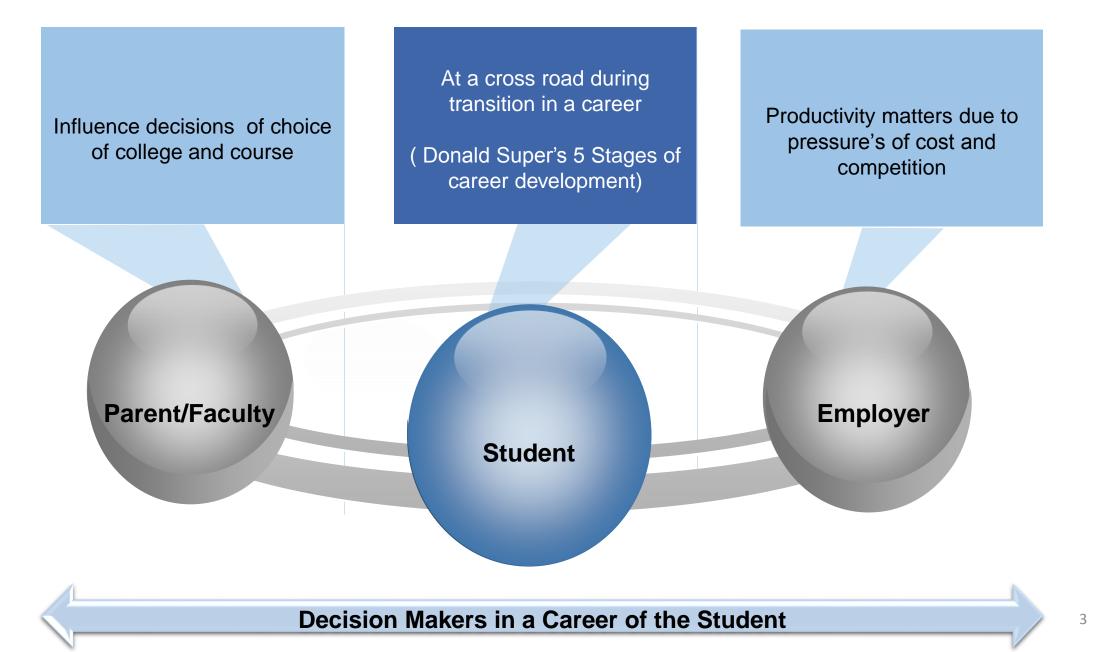
## **Presentation Flow**



#### 1 Introduction

- <sup>2</sup> Impact of Macro-Economic Parameters
- <sup>3</sup> Challenges for Academia in current scenario
- 4 Challenges for Industry in current scenario

<sup>5</sup> Industry Expectations from Academia



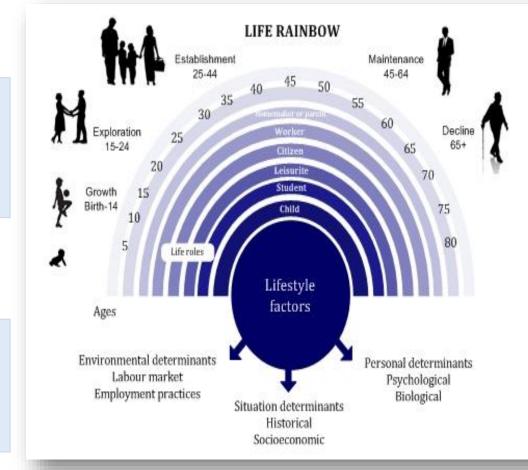
### Introduction: Donald Super's 5 Stages of Career Development

#### Stage 1

**Growth**- Learning about the world of work as you increase your awareness of your personality, interests, abilities, experiences, and values

#### Stage 2

**Exploration**- Crystallizing, specifying, and implementing a career choice



#### Stage 3

**Establishment**- Gaining work experiences and evaluating your experiences in occupations associated with your career choice

#### Stage 5

**Decline-** Exploring new ways to spend your time away from your current work environment; might include a career change or retirement

#### Stage 4

Maintenance-Developing stability within a chosen career field as you seek ways to improve working conditions and increase skills.

Introduction : Details of Survey

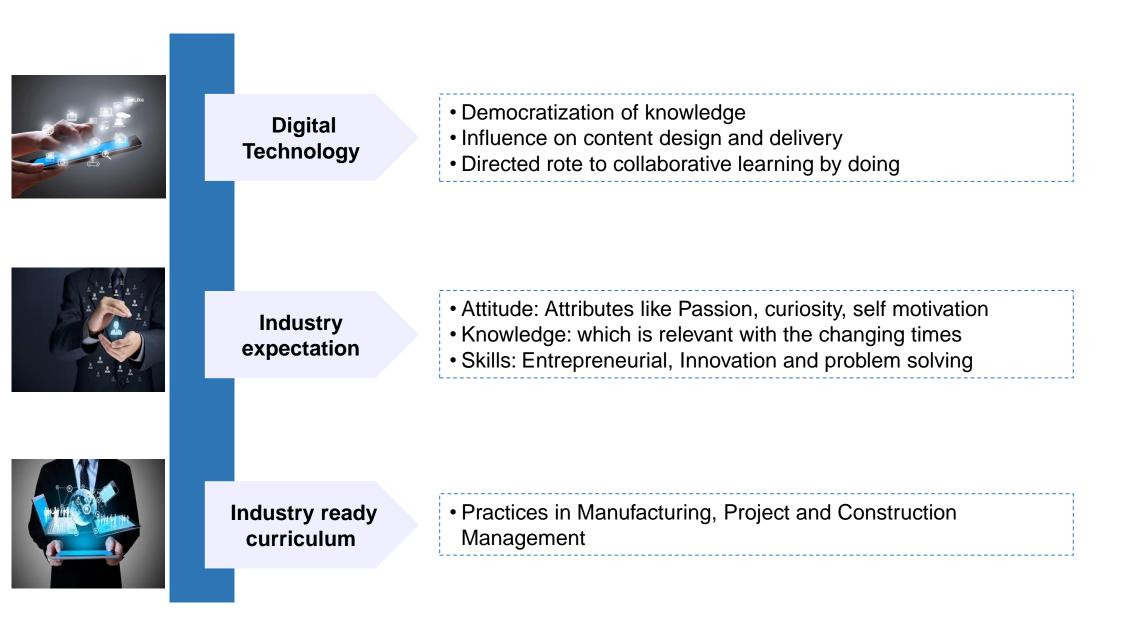
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\* Details of survey will be provided in the final presentation

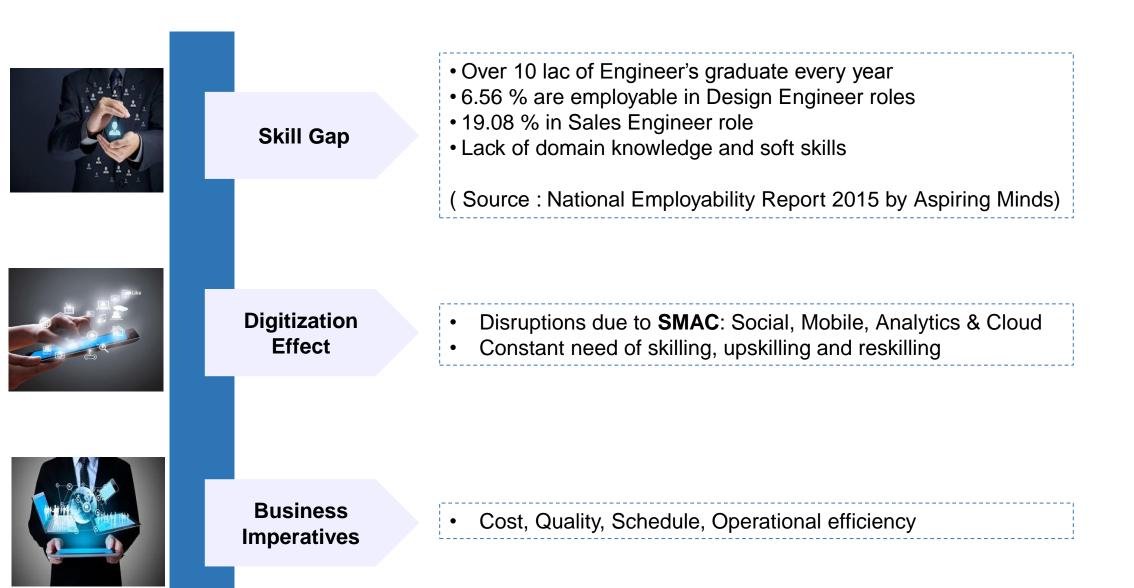
### Effect Of Macroeconomic Parameters



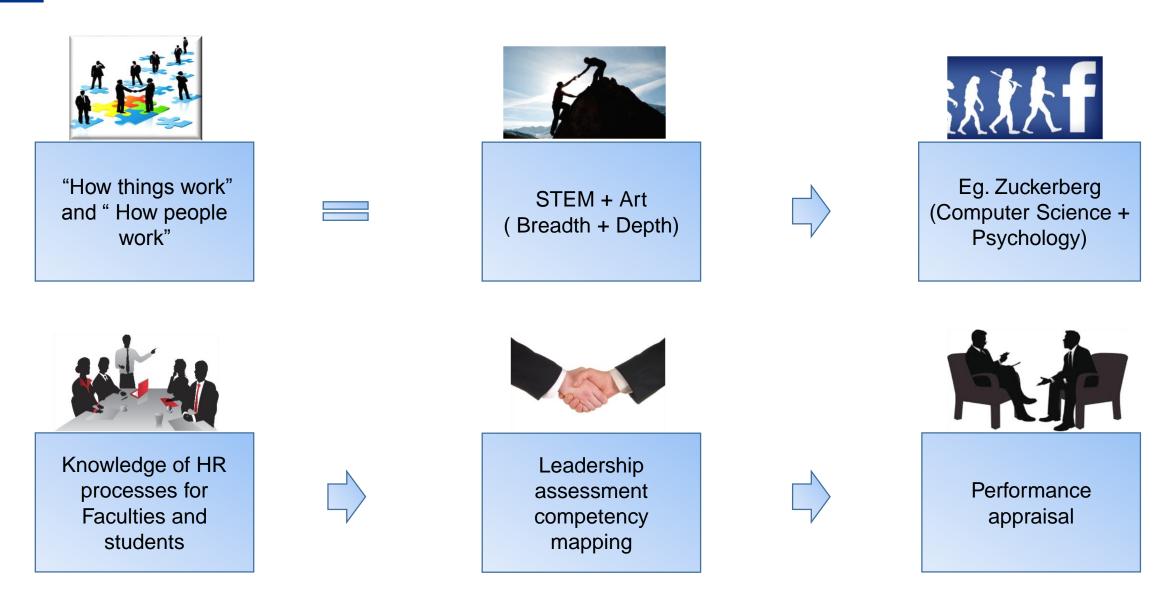
### Challenges for Academia in Current Scenario



### Challenges for Industry in current scenario



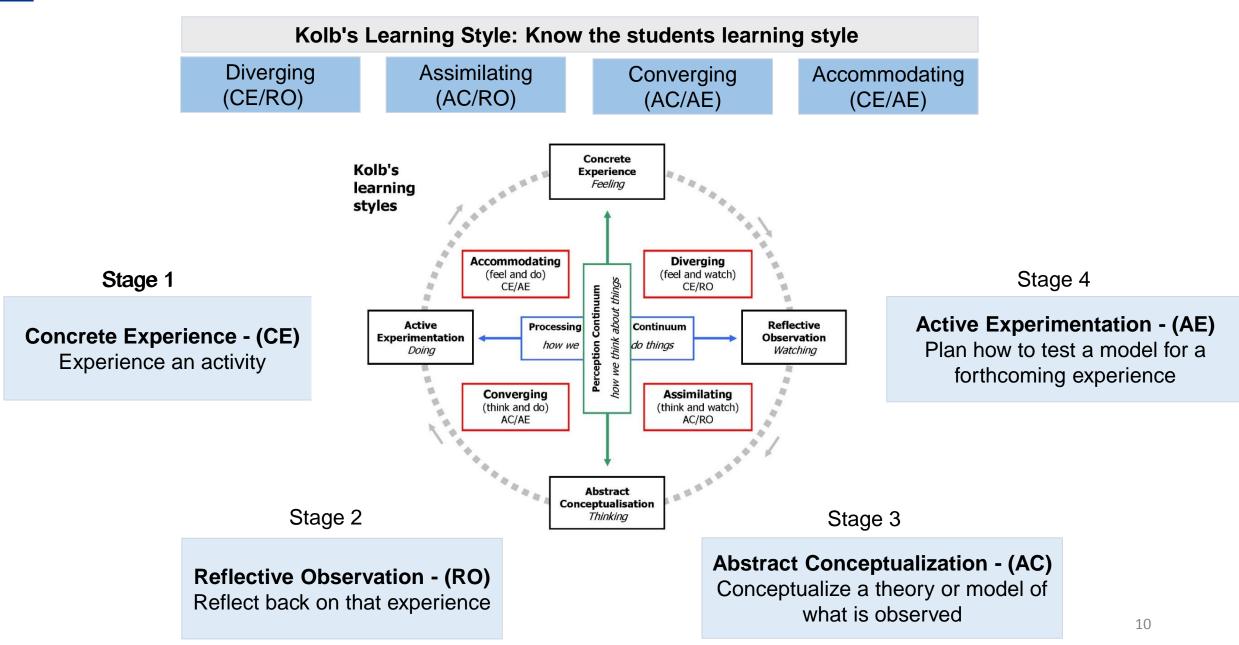
### Industry Expectations from Academia: Curriculum



"Curriculum which Combines Technology Know How with Human insight"

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### Industry Expectations from Academia: Pedagogy



### Industry Expectations from Academia: Pedagogy

"We need to bring Universities to device and devices to Universities"





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Judicious mix of Industry Professionals and Academicians as Faculties

Theory to be followed by demonstration and experimentation

Latest and adequate equipment's in the lab

Projects with industry: Making preliminary design/cost estimation for a task

### Industry Expectations from Academia: Practical Action points

#### L&T- IIT Jodhpur MOU

#### Blended B.Tech Program

Develop an industry immersed program

Internships: 8 weeks for 6 Students and 1 Faculty for 3 consecutive summers

- L&T Adjunct Faculties
- Course Development
- Introduction to shop floor activities/projects
- Joint research on projects of Mutual interest

#### L&T EAIC-VJTI MOU

Centre for excellence in Complex and Nonlinear Dynamical Systems

Create an Innovation Centre and joint research facilities

Internships & L&T Project Guide: MTECH Students

- L&T has setup a Lab
- Support for design concept and equipment finalization
- PHD students working on real R&D projects of EAIC

#### **Outcome**

Exposure to Industry practices

Understanding of shop floor

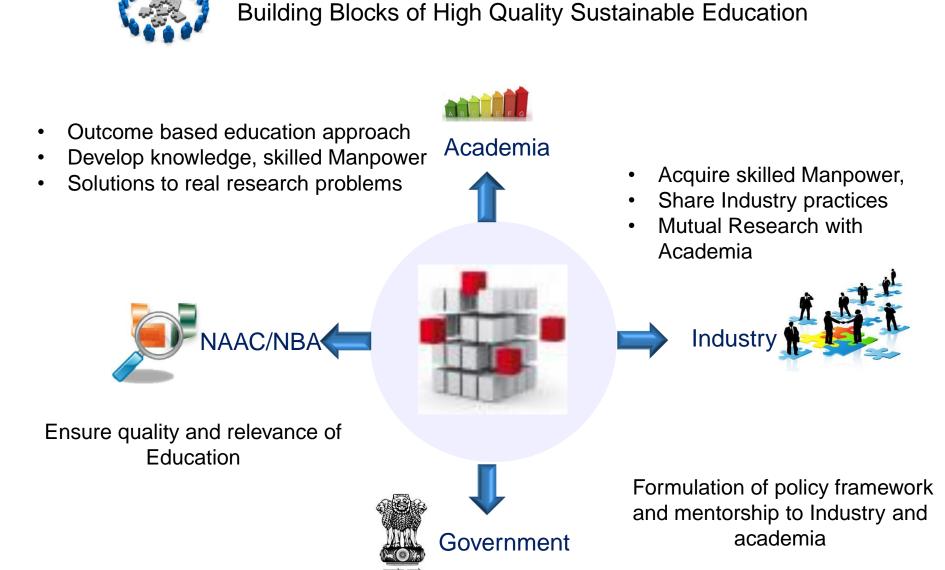
Participation in real tasks

Industry specific research

### Industry Expectations from Academia: Practical Action points



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**THANK YOU**