

## **FACULTY DEVELOPMENT PROGRAMME:**

### **SIX SIGMA AND ITS APPLICATIONS IN AEROSPACE INDUSTRY**

One day FDP Programme was organized by AIAE on **12<sup>th</sup> Oct 2015** in F-1 MDP Room on the subject of **Six Sigma and its applications in Aerospace industry**. The key speaker in FDP was Mr Rajiv Purkayastha, Principal consultant, Breakthrough consultancy Services and Mr AK Chopra former Jt Director General DGCA.

FDP were attended by 11 Faculties of AIAE and 1 faculty from ASET.

The fundamentals of Six Sigma culture say shifting mean to centre zero effect zero defect and reducing variation were explained by Mr Purkayastha. He explained the process and importance 3.4 defects per million cycles of flight.

Mr AK Chopra, narrated events since beginning of 20<sup>th</sup> century, how airworthiness concepts have progressed and role of regulatory authority has achieved safety of 0.3 failures in one million flights.

He nicely presented two case studies of aircraft accidents and Boeing 737 in Mysore airport and Bell Helicopter between Hyderabad and Kurnool.

#### **WHAT IS SIX SIGMA**

Six Sigma is a statistical concept where a process produces 3.4 defects per million opportunities. Six Sigma is a goal where processes produce least defects and products do not experience high variability. Six Sigma products conform to mean value and with low variability.

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#### **About Rajiv Purkayastha**

He is B.Tech from IIT Gawahati. He is certified Six Sigma Master Black Belt from Indian Statistical Institute. He is certified lean expert from BMG Europe. He has provided consultancy services to large number of companies for enhancing quality standards, improving products and enhancing profit ability in last 15 years of such beneficiary companies are given below:

1. Alcatel lucent
2. Coca Cola
3. Dubai Airport
4. TCS BPO
5. BhartiAirtel
6. Dell

7. Airtel
8. IBM
9. HCL
10. Bank of America

### **About Shri AK Chopra**

Shri Arun Kumar Chopra did his Aero Engineering in 1970 from PA Engineering College, Chandigarh experience on accident investigation, prevention quality control and enhancing flight safety in various capacities on fighter aircrafts and civil aircrafts.

He was team leader of national aviation safety team (NAST). He has trained large number of officers of DGCA on safety audit, accident investigation. He has presented papers in national and international conferences. He retired as Jt DGCA in 2010.

Apart from excellent career he has always upheld honest and high moral values in public life. He has faced all kinds of obstacles due to his honesty.