

# ASET EVENT REPORT-MAY 2016

## Event Name: Water- Waste water – New Challenges

**Date:** 17<sup>th</sup> May 2016

**Venue:** C-214, Block- C, AUH

**Organized By:** MAE, ASET

**Faculty Coordinator(s):** Dr. A. K. Raghav

### **Participation:**

1. No. of Faculty Members: 20
2. No. of Students: 20

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## Introduction

The idea behind the FDP is to develop an interest among the upcoming engineers by giving them knowledge of various water treatment types and the methods to re-use it. A FDP was organised on 'Waste water treatment-new challenges' on 17th May 2016 in Block-C, C-214 at 12 pm in Amity University, Haryana.

The FDP was chaired by HOD Mechanical Dr. A. K. Raghav and the resource person was Prof. Atul Kumar Mittal.

## Aim of the Event

The treatment of wastewater and its reuse has two advantages: it not only avoids drawing on natural resources, but also enables a significant reduction in the amount of wastewater discharged into the natural environment. In fact, given the population explosion and ever-increasing water requirements, these new techniques, which are known as **Reuse**, offer genuine solutions. Once it has been treated, wastewater can also be used for various purposes where drinking water quality is not mandatory, including agricultural irrigation, the cleaning of industrial equipment, the watering of green spaces, and street maintenance, etc. In fact, Reuse has become essential in all areas in the world that suffer from water shortages, like in the United States (especially California), Mexico, Australia, and Asia, as well as in the Persian Gulf countries.

## Highlights of the Event

1. FDP was attended by faculty and students of Mechanical engineering department along with other department faculties like, Civil, Environment, Electronics etc.
2. FDP started with the introductory speech by Dr. A.K.Raghav wherein he highlighted the importance water and the new challenges that we are facing now a days with the waste water.
3. After the welcome speech the stage was taken by inviting the resource person Prof. Atul k Mittal from IIT Delhi to broaden up on the said topic with his knowledge and insight.
4. Various figures and data were shown which made it easier for comparative studies and for clear understanding. He further added, Wastewater can also be **reused as part of industrial activities**. According to the French Development Agency (AFD), these activities account for 22% of the 3.8 trillion cubic meters consumed world-wide every year. This means that water is a key factor for



industrial output. In an environment where water resources are becoming scarcer and legislation is becoming more stringent, this business sector is increasingly resorting to recycling wastewater. The water can be used in boilers and cooling towers, or as water for washing, cleaning and processes. Lastly, recycled water is also earmarked for **urban non-food uses**, including the irrigation of green spaces (parks, golf courses, and sports fields), landscaping (waterfalls, fountains and water features), street or vehicle cleaning, and fire prevention.

## Outcomes of the Event

1. Students got to explore more and understood the various shortcomings and how to work upon it.
2. Faculty got more knowledge about the various treatments followed for cleaning the water and re-using it.
3. There was a clear understanding on how the system works in India and what all can be done to reduce the wastage of water and use it in an optimum manner.
4. The water in question must come with **genuine health guarantees**. The criteria selected are mainly based on the type of irrigation (aspersion, or micro-irrigation, etc.), and on the quality of the water used. Regulations in other countries around the world usually rely on the **recommendations of the World Health Organisation (WHO)**

## Conclusion

Overall, it was an overwhelming experience where the expert, faculties and students shared their insights and gave new perspectives which can lead to further sustainable action and fruitful interactions.

## Glimpses of the event





**List of Participants**

Amity School of Engineering and Technology  
 FDP on Water- Waste Water New Challenges  
 17<sup>th</sup> May 2016

- Dr. A.K. Raghav *A.K. Raghav*  
 Mr Manish Kumar Bharti *Manish Kumar Bharti*  
 Ms Sonia Chalia *Sonia Chalia*  
 Ms Sakshi Sethi *Sakshi Sethi*  
 Mr. Sanjeev Sharma *Sanjeev Sharma*  
 Mr. Lalit Mohan Gupta *Lalit Mohan Gupta*  
 Dr. Shiv Sharma *Shiv Sharma*  
 Mr. Kuldeep Kumar *Kuldeep Kumar*  
 Mr. Om Parkash *Om Parkash*  
 Mr. Ravi Kant *Ravi Kant*  
 Mr. Hardial Singh *Hardial Singh*  
 Mr. Narender Kumar *Narender Kumar*  
 Mr. Deepak Kumar *Deepak Kumar*  
 Mr. Rajesh Arora *Rajesh Arora*  
 Mr. Nitin Shyam *Nitin Shyam*  
 Mr Vineet Jain *Vineet Jain*  
 Mr Sandeep Phogat *Sandeep Phogat*  
 Mr Avinash Dholiwal *Avinash Dholiwal*  
 Mr Pawan Kumar Taneja *Pawan Kumar Taneja*  
 Ms Rashi Koul *Rashi Koul*



