



## Shreeyash Pratishthan's Shreeyash College of Engineering & Technology, Aurangabad.

[An ISO 9001 : 2015, Certified Institute]  
Approved by : AICTE, New Delhi, Recognised by : Govt. of Maharashtra & DTE, Mumbai.  
Affiliated to : Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.  
Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad.



**7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities**



### Shreeyash College of Engineering & Technology

Department of Engineering Science



**Name of the event:** "SUGAR FACTORY VISIT "

**Date of the event:** 10 Feb 2016

**Class:** FE ALL

**Summary of the event:** Students have visited Chatrapati Sambhaji Sugar Factory at Chittepimpalgaon; Aurangabad. The purpose behind the visit to this place is to know the work culture of Sugar Factory. This will built up the awareness and confidence of students about Industries.

**Outcome:**

- Due to this visit, students come to know the work culture of Industries.
- Awareness about Process of Making Sugar.

**Photograph of the event:**





**Name of the event:** Industrial Visit- Syphon & Aqueduct on Left bank canal of Jayakwadi Dam.

**Date of the event:** 30<sup>th</sup> September 2015

**Class:** B.E.-Civil

**Accompanying staff:** Prof. H. S. Kumawat & Prof. A. B. Vawhale

**Summary of the event:** Students have visited **Syphon & Aqueduct on Left bank canal of Jayakwadi Dam, Paithan, Aurangabad**. The structures are a type of cross drainage works. The siphon is provided if the flow of natural stream is above the level of canal & the aqueduct is provided when the canal level is above the level of natural stream.

### Outcome:

- Due to this visit, students come to know about the cross drainage works structures, siphon & aqueduct its necessity, working principle, etc.
- Students understand the working & function of various components, units, & parts.
- Confidence & morale of students become high.

### Photographs of the event:



Explaining the working of Aqueduct



Observing working & component part of Syphon



Group photo of student and staff



Explaining the component parts of Aqueduct

**Name of the event:** Industrial Visit- Jayakwadi Dam-Nathsagar, Paithan, Aurangabad.

**Date of the event:** 30<sup>th</sup> September 2015

**Class:** B.E.-Civil

**Accompanying staff:** Prof. H. S. Kumawat & Prof. A. B. Vawhale

**Summary of the event:** Students have visited **Jayakwadi Dam-Nathsagar, Paithan**. The dam is built across river Godawari for the purpose of storing 2909 M. cum of water. Its total length is 10,210m in which 610m long is masonry dam situated in the river's gorge portion & its continuously extended embankment on both sides by Earth dam. The total earth work of the dam embankment is 12.85m Cum. Max ht. of earth dam & its above GL is 37m while 27m deep below GL. Max. ht. of masonry dam is 37m & have 27 radial gates provided to route a max. flood discharge of 18150Cumec. The reservoir created behind Paithan dam, which is named "Nathsagar" has submerged 35,000Ha of land covering 118 villages. These villages have been shifted & rehabilitated to safe places.

**Outcome:**

- Due to this visit, students came to know about dam's component, parts of dam, its working & the function of each component, etc.
- Students understood the working & function of its various components, units, & parts.
- Confidence & morale of students have increased.

**Photographs of the event:**



Explaining the component of dam body



Thank giving to Er. B. Dabhade



Group photo of Er. Dabhade, faculty & student



**Name of the event:** Industrial Visit- Pharola Water Treatment Plant, Pharola, Aurangabad.

**Date of the event:** 30<sup>th</sup> September 2015

**Class:** B.E.-Civil

**Accompanying staff:** Prof. H. S. Kumawat & Prof. A. B. Vawhale

**Summary of the event:** Students have visited **Pharola Water Treatment Plant, Pharola, Aurangabad.** Pharola water treatment scheme was started in 1976 which was designed for a capacity of 28 MLD. As the years passed the population of Aurangabad city rapidly started to increase due to industrialization of the city. At present the treatment unit supplies Aurangabad with 156MLD. The components of treatment plant are Aeration and Pre chlorination, Flocculation Tank, Filtration Tanks, Post chlorination, Pump house, & Observation Laboratory.

**Outcome:**

- Due to this visit, students came to know about processes like aeration, Pre chlorination, Flocculation, Filtration, Post chlorination and the laboratory tests on water, etc.
- Students understood the working & function of various components, units, & its parts.
- Confidence & morale of students have increased.

**Photographs of the event:**



Working of Filtration unit



Explaining the flow chart of WTP



Explaining the working of aeration unit



Thank giving to Mr. Kulkarni



**Name of the event:** Industrial Visit

**Date of the event:** 06<sup>th</sup> October 2015

**Class:** SE- A & B- Civil

**Summary of the event:** Students have visited **Guru Nanak Pvt. Ltd. RMC plant at Chittegaon, Aurangabad**. GNI Group is a Full Service Supplier of Mix Concrete in Aurangabad. Total cost of plant is Rs.10 crore. This plant has fully automatic mixing process and having 10 RMC trucks.

### Outcome:

- Due to this visit, students came to know about Mix design of concrete.
- Students understood the sub-assembly of various ingredients like Cement, Fly ash, River sand, Crush sand, Coarse aggregate and Admixture.
- Students of S.E. (Civil) are aware about mix design process as the design procedure for the mix design of concrete is included in the syllabus of M.E./M.Tech(1<sup>st</sup> sem)
- The various tests which are included in the syllabus of S.E. are performed on the both RMC plant. (Such as Moisture content test, Water absorption test, Specific gravity test of both fine and coarse aggregate, DLBD test, Sieve Analysis, Slump test, Cube casting, Compression test on the casted cubes at 3days, 7days, 28days)
- Confidence & morale of students become high.

### Photograph of the event:



Performing slump cone test



Giving thanks to Mr. Pathak



Weight batch Mixing process



<b>Name of the event:</b>	<b>Industrial Visit-Sewage Treatment Plant, Saleem Ali Lake, Aurangabad.</b>
<b>Date of the event:</b>	06 <sup>th</sup> October 2015
<b>Class:</b>	B.E.-Civil
<b>Accompanying staff:</b>	Prof. H. S. Kumawat & Prof. A. B. Vawhale

**Summary of the event:** Students have visited **Sewage Treatment Plant, Salim Ali Lake, Aurangabad.** Sewage treatment plant was started in 12<sup>th</sup> January 2010 which was designed for a capacity of 05 MLD. The treatment plant treats sewage near about 2.5km within peripheral area from the location of the plant. The cost of this project is about Rs.06 Crore. The technology used for the plant is C-TECH based and all units are operated computerized. The components of treatment plant are Preliminary treatment i.e. physical treatment such as Screening, Grit chamber, Secondary treatment i.e. biological treatment such as silting chamber, fine screen and grit chamber and C- Tech Basins & Chlorination tank and finally the effluent discharge into the Saleem Ali Lake or the water will be used for the gardening purpose. The solid waste is produced which will be used as manure.

#### Outcome:

- Due to this visit, students came to know about processes like, Preliminary treatment, Secondary treatment, and the laboratory tests on waste water, etc.
- Students understood the working & function of various components, units, & its parts.
- The student are able knows how to determine DO, TDS, etc.
- Confidence & morale of students have increased.

#### Photographs of the event:



Working of silting chamber unit



Explaining the working mechanism of STP



Group Photo with Mr. Satish Adnak & Mrs. Rushika Dhavane



Thank giving to Mr. Mr. Satish Adnak & Mrs. Rushika Dhavane



**Name of the event:** Industrial Visit

**Date of the event:** 09<sup>th</sup> March 2016

**Class:** TE- A & B- Civil

**Accompanying Staff:** H. S. Kumawat, S. N. Khan, M. D. Kumbhar and S. Z. Razavi

**Summary of the event:** Students have visited **Guru Nanak Infrastructure Pvt. Ltd. RMC plant at Chittegaon, Aurangabad**. GNI Group is a full service supplier of Mix Concrete in Aurangabad. The plant has total capacity of  $1\text{m}^3$ . Total cost of plant is Rs.10 crore. This plant has fully automatic mixing process and having 10 RMC trucks each having the capacity of  $7\text{m}^3$  and  $9\text{m}^3$ .

**Outcome:**

- Students understood the sub-assembly of various ingredients like Cement, Fly ash, River sand, Crush sand, Coarse aggregate and Admixture.
- Student are able to know how the entire process of RMC plant, the batching i.e. volumetric & weight, the use of accelerators & retarders as admixtures, the use of plastic fibres to avoid micro cracking, the different proportions of 20 & 10mm coarse aggregates and crush sand & river sand (fine aggregate) etc.
- Students of T.E. (Civil) are aware about mix design process as the design procedure for the mix design of concrete is included in the syllabus of M.E./M. Tech( I<sup>th</sup> sem)
- The various tests which are included in the syllabus of T.E. are performed on the both RMC plant. (Such as Moisture content test, Water absorption test, Specific gravity test of both fine and coarse aggregate, DLBD test, Sieve Analysis, Slump test, Cube casting, Compression test on the casted cubes at 3days, 7days, 28days)
- Confidence & morale of students became high.

**Photographs of the event:**



Observing plant process...



Mixing & filling of RMC in Truck...



Inside of the RMC plant machine...



Giving thanks to Mr. Shirsath Sir.





**Name of the event:** Industrial Visit

**Date of the event:** 9<sup>th</sup> March 2016

**Class:** SE, T.E. & B.E

**Summary of the event:** Students have visited **Air Traffic Control CNS-section (Electronics) A'bad Airport**. Engineers of Airport Authority of India have given the detail about the latest technology emerging in the telecommunication field specially in Airport side. The latest antenna system, radar system and working of the whole system at airport also shown by their staff. The transmitter and receiver along with frequency band also nicely explain by them.

**Outcome:**

- Due to this visit, students come to know about processes like transmission and reception of the signal through antenna and their hardware part.
- Students come to know the work of new GAGAN technology .
- Confidence & morale of students become high.

**Photograph of the event:**





## Visit To Jaykwadi Dam

**Date of Event:**

**19/ 03/2018**

**Venue of Event:**

**Jaykwadi Dam**

**Class:**

**BE & TE**

**Staff Names:**

**Mr. A. D. Lahane, Miss. Ulka Mankare, Mr. S. K Singh, Mr. I. I. Kureshi**

**Summary of Event:**

A visit to different parts of dam like Drainage gallery, concrete section containing spillway and water retaining section, concrete soil interaction face, catchment area of reservoir, etc.



**Outcome of Event :**

Due to this visit student understood the use of drainage gallery in concrete section of dam. Student collected different data of reservoir and construction material used in dam. Student understood the irrigation work regarding dam.



## Shreeyash College of Engineering & Technology

Department of Civil Engineering



**Name of the event:** Industrial Visit- Water Treatment Plant, Pharola, Aurangabad

**Date of the event:** 31<sup>st</sup> August 2016

**Class:** BE-Civil-A & B Div.

**Accompanying Staff:** H. S. Kumawat, S. P. Sharma, U. S. Salunkhe, V. B. Chavan and A. K. Chikyal

**Summary of the event:** Students have visited **Water Treatment Plant, Pharola, Aurangabad**. Pharola water treatment scheme was started in 1976 which was designed for a capacity of 28 MLD. As the years passed the population of Aurangabad city rapidly started to increase due to industrialization of the city. At present the treatment unit supplies Aurangabad with 156MLD of water. The various components of treatment plant are Aeration and Pre chlorination, Flocculation Tank, Filtration Tanks, Post chlorination, Pump house, & Observation Laboratory.

**Outcome:**

- Due to this visit, students came to know about processes like aeration, Pre chlorination, Flocculation, Filtration, Post chlorination and the laboratory tests on water, etc.
- Students understood the working & function of various components, units, & its parts.
- Confidence & morale of students have increased.

**Photographs of the event:**



Students observing working of Inlet Chamber...



Students observing working of Clariflocculator unit...



Students observing working of Rapid Sand Filter...



Students listening to working of plant...