

## FACULTY ORIENTATION LECTURE

- \* Department : Civil Engineering
- \* S.NO. of Lecture : 1
- \* Room number of lecture :M208
- \* Date &Time : 08/07/2017, 4.00 PM to 5.00 PM
- \* Name of the speaker: Mr. R.Rakesh Kumar Reddy
- \* Research Group of speaker : Structural Engineering
- \* Topic selected from: Journal
- \* Title of the topic : Experimental Study on Flyash blended M sand concrete.
- \* Brief description of the topic : To make concrete economical by using flyash as partial replacement of cement and also replacing river sand by M-sand. Presence of fly ash in concrete slightly increases the workability. Water absorption of M-Sand is more than river sand, because of this reason the addition of M-Sand drastically reduces the workability of concrete. Without any super plasticizers, 50% of river sand is replaced with M-sand is sensible, beyond that limit Concrete became very stiff because of high water absorption capacity of M-Sand. With the increase of fly ash percentage, the compressive strength of concrete decreases in early days because pozzolanic reactions are very slow, later on fly ash blended concrete slowly gained strength, and after 56 days fly ash blend concrete had more strength than that of conventional concrete. Compressive strength was increases with increasing the percentage of M-Sand after 56 days. When we use FMC instead of conventional concrete construction cost is reduced up to 20%
- \* Number of faculty attended the lecture :19 out of 37

