

A view to remember



- III-I and II-I semester End exams starts from 25-10-2017.
- IV-I semester end exams starts from 31-10-2017.

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*Engineering
is the art of
directing the
great sources
of power in
nature for the
use and
convenience
of man.*

Influence of Admixtures on Behavior of Concrete:

Materials scientists, chemists, engineers, and manufacturers' technical representatives have helped the concrete industry to improve our ability to control work times, workability, strength, and durability of Portland cement concrete by adding some supplementary substances named admixtures. The function of each admixture focuses on a specific need, and each has been developed independently of the others. Some admixtures already have chemistry that affects more than one property of concrete, and some have simply been combined for ease of addition during the batching process. To better understand recommended usage for various application of these chemicals admixture in concrete, the present study is planned to be obtained more specific information in this direction. In this investigation on performance of concrete with GGBS and different PCE based water reducing admixture the tests on compressive strength and Workability of the concrete with

Ordinary Portland cement and Portland pozzolana cement with GGBS and admixture are carried out at different curing periods for M45 grade of concrete to conclude its behavior.

TOP 10 SOFTWARE USEFUL FOR CIVIL ENGINEERS:

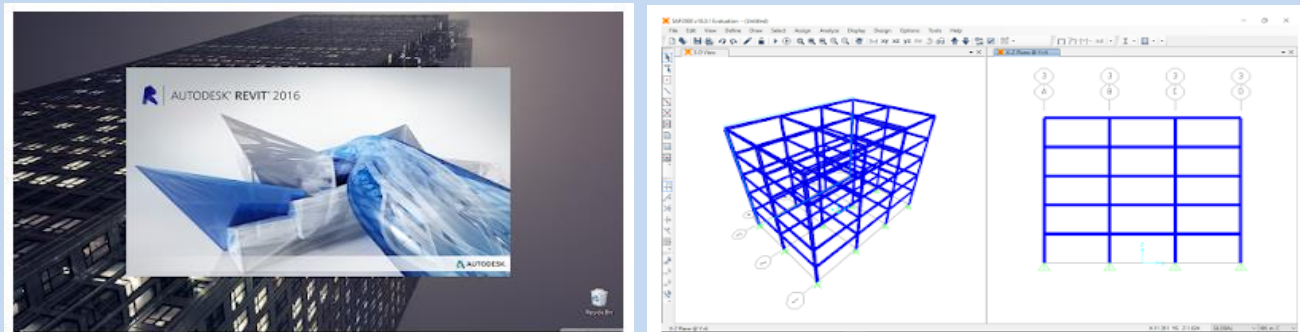
1. AUTOCAD is one of the basic software for drafting and documentation of the construction projects which is developed by Autodesk. One can notice this software usage in almost all structural design consultancies and firms especially in India. AUTOCAD 3D version is also available for 3D Modelling.



2. STAAD.Pro is the structural engineering professional's choice for steel, concrete, timber, aluminum, and cold-formed steel design of virtually any structure including culverts, petrochemical plants, tunnels, bridges, piles, and much more through its flexible modeling environment, advanced features, and fluent data collaboration.

3. Primavera is a construction Planning and Scheduling software. It is opted by almost greater than 70 percent of all Planning and scheduling professionals. MS Office also offering similar software by name MS PROJECT. Primavera offers best-in-class solutions focused on the mission critical PPM requirements of key vertical industries including engineering and construction, public sector, aerospace and defense, utilities, oil and gas, manufacturing and high tech, and IT and services. Primavera PPM products, together with Oracle's project financials, human resources, supply chain management, product lifecycle management, business intelligence, and infrastructure software are expected to provide the first, comprehensive Enterprise Project Portfolio Management solution. This solution is expected to help companies optimize resources and the supply chain, reduce costs, manage changes, meet delivery dates, and ultimately make better decisions, all by using real-time data.

4. REVIT Structure for Building Information Modelling. Building Information Modelling can be termed as one of the 21st century's greatest innovation helping big infrastructure projects. BIM (Building Information Modeling) is an intelligent 3D model-based process that gives architecture, engineering, and construction (AEC) professionals the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure. Revit software is specifically built for Building Information Modeling (BIM), empowering design and construction professionals to bring ideas from concept to construction with a coordinated and consistent model-based approach. It includes the functionality of all of the Revit disciplines (architecture, MEP, and structure) in one unified interface.



5. ETABS is the ultimate integrated software package for the structural analysis and design of buildings. Incorporating 40 years of continuous research and development, this latest ETABS offers unmatched 3D object based modeling and visualization tools, blazingly fast linear and nonlinear analytical power, sophisticated and comprehensive design capabilities for a wide-range of materials, and insightful graphic displays, reports, and schematic drawings that allow users to quickly and easily decipher and understand analysis and design results.

6. SAP2000 is another software available for design and analysis of structures. It is also used in many structural firms. SAP2000 has a wide selection of templates for quickly starting a new model. SAP2000 includes parametric templates for the following types of structures: Simple Beams, 3D Trusses, 3D Frames, Storage Vessels, Staircases, Dam Structures, and Pipes.

7. MS Project is another software developed by Microsoft for Construction Management and Planning.

Microsoft Excel is a spreadsheet developed by Microsoft. It features calculation, graphing tools, pivot tables, and a macro programming language called Visual Basic for Applications. It has been a very widely applied spreadsheet for these platforms, especially since version 5 in 1993. It is widely used in Civil Engineering for Data collection, Surveys, Analysis and Design.

8. Mathcad is greatly useful in mathematical calculations, distributions, flow analysis etc. Mathcad by PTC®, the product development company, is the industry standard software for engineering calculations. It's easy-to-use live mathematical notation, powerful capabilities and open architecture allow engineers and organizations to streamline critical design processes. Mathcad presents calculations, text and images in an understandable format, enabling knowledge capture, reuse and design verification which results in improved product quality with faster time-to-market. Mathcad lets you solve, analyze, document and share your calculations easily.

9. ArcGIS is a software used in Geographical Information System. It is helpful in creating Thematic Maps. ArcGIS for Desktop is the key to realizing the advantage of location awareness. Collect and manage data, create professional maps, perform traditional and advanced spatial analysis, and solve real problems. Make a difference and add tangible value for your organization, your community, and the world.

10. 3DS Max is an animation software which is used to generate visuals. It is modelling and rendering software which is mainly used for interior design and visual graphics. This software is developed by Autodesk.

