



FDP REPORT



**Three Day Faculty Development Programme (FDP) on
Comprehensive Knowledge on ETABS and its
Applications**

**Supported by
APSSDC Vijayawada**

**28th Nov – 30th Nov, 2019
Department of Civil Engineering
K L Deemed to be University**



Venue: CAD Lab, K L Deemed to be University

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Mr. K. J. Brahma Chari, Assoc. Dean (P&D), Asst. Prof., CE
Mr. G. Sri Harsha, Assistant Professor, CE

Organizing Committee

Mr. Siva Kishore Ikkurthi, Assistant Professor, CE
Mr. Lingeshwaran N, Assistant Professor, CE

Acknowledgments

This workshop summary was prepared by Mr. G. Sri Harsha M.Tech(Ph.D), Asst. Prof. and Mr. K. J. Brahma Chari, Assoc. Dean (P&D), Asst. Prof., CE as a factual summary of what occurred at the Faculty Development Programme.

The Faculty Development Programme Planning Committee's role was limited to planning the meeting. The statements made are those of the Speaker and individual meeting participants and do not necessarily represent the views of all Faculty Development Programme participants, the organizing committee, Department of Civil Engineering, K L Deemed to be University.

This report has been reviewed in draft form by individuals chosen for their diverse perspectives and technical expertise. The purpose of this independent review is to provide candid and critical comments that will assist the institution in making the published report as sound as possible and to ensure the report meets institutional standards for objectivity, evidence, and responsiveness.

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About K L Deemed to be University



Koneru Lakshmaiah College of Engineering was established in the year 1980. The College attained autonomous status and has become a deemed to be University with effect from 2009. It is a pioneer in the field of Education and Research. K L Deemed to be University is recognized as one of Asia's best private University with highly qualified faculty. K L is accredited by NAAC of UGC with "A++" Grade and is approved by AICTE, New Delhi. This University is gearing up to emerge as one of the topnotch institutions with world class R & D Infrastructure and Academic ambience.

K L Deemed to be University, officially the Koneru Lakshmaiah Education Foundation, is a deemed university located in the Vaddeswaram Guntur District of Andhra Pradesh, India.

Address: Green Fields, Vaddeswaram, Guntur, Andhra Pradesh 522502, India

Phone: +91 863 239 9999

Founded: 1980

Affiliation: [University Grants Commission](#)

About Civil Engineering Department



The Department of Civil Engineering was established in 1980 with an intake of 60 students and 5 Faculty. The department has been successful in producing excellent and well-trained graduates. Today we have 571 Students (UG & PG) and 34 faculty members drawn from premium institutes throughout India, four are Professors, eleven Associate Professors and thirty are Assistant Professors.

The departmental activities embrace Testing, Planning, Design, Construction and Management. The Department is offering Courses for Undergraduate program in Civil Engineering, Post graduate Program in Structural Engineering, Construction Technology and Management, Environmental Engineering, Geoinformatics and Ph.D.'s in Civil Engineering. The department has well equipped laboratories catering to all major areas of research.

About APSSDC



Andhra Pradesh State Skill Development Corporation (APSSDC) is a unique organization formed as a Public-Private Partnership (PPP) corporation to promote skill-development & entrepreneurship in the state of Andhra Pradesh. The corporation is incorporated as a Section-8 company (not-for-profit) with a private equity component of 51% and 49% by Govt of AP. As per some estimates, Andhra Pradesh will face an incremental Human resources requirement of approximately 10 million skilled workers between 2012 till 2022, across the high-priority and emerging sectors. Thus, the main objective of the corporation is to implement a structured and pragmatic solution to skill & upskill the workforce in the state of A.P. and to increase employability, and promote entrepreneurship in sync with Industrial growth of the state

APSSDC will be staffed with best of talent in this sector & will partner with leading training providers & industry to carry out the training programmes. It aims to develop a best-in-class learning management system and placement and tracking mechanism. Ultimately, it aims to be among the best training provider organizations in the world.

FDP Overview



The FDP on Comprehensive Knowledge on ETABS and its applications aims at providing a common platform for professionals, industrialists, academicians, researchers and students to share their knowledge and ideas for achieving focused developments and advancements in civil structural design & practices in industries, commercial. The theme of this program is knowing about ETABS in a comprehensive, high programming, analysis and design. It is ideal for structural engineers and helps organizations to prepare designs, drawings and detailing of the members. It is very user friendly and one can generate a detailed project report easily to make further practical implementations

The following topics are discussed in the FDP

- About ETABS,
- Modeling overview, Glance on Tools and Workspace by a simple example.
- Loading and Analysis of a Simply supported beam & continuous beam
- 2D and 3D Frame Analysis
- Static Analysis of a Multistoried Structure
- Static Loads & Dynamic Loads
- Linear & Non-Linear Static & Dynamic Analysis of a Multistoried Structure
- Steel Truss Analysis
- Introduction of Shear Walls & Braced Frames
- Earthquake Resistant Design of Structures using Shear Wall

Program Schedule - Day 1- 28th November 2019

S.No	Program	Time
1	Registration	09:00-09:30
2	Inauguration of program	09:30-10:00
3	Introduction to Analysis, design of building and ETABS	10:00 -11:30
4	Break	11:30-11:45
5	Modeling overview, Glance on Tools and Workspace by a simple example	11:45-13:15
6	Lunch Break	13:15-14:00
7	Loading and Analysis of a Simply supported beam & continuous beam	14:00-15:00
8	Break	15:00-15:15
9	2D and 3D Frame Analysis	15:15-16:30

Program Schedule - Day 2- 29th November 2019

S.No	Program	Time
1	Recap of day-1 syllabus	09:30-09:45
2	Static Analysis of a Multistoried Structure	09:45-10:30
3	Static Loads & Dynamic Loads	10:30-11:30
4	Break	11:30-11:45
5	Linear & Non-Linear Static Analysis of a Multistoried Structure	11:45-13:15
6	Lunch Break	13:15-14:00
7	Linear Dynamic Analysis of a Multistoried Structure	14:00-15:00
8	Break	15:00-15:15
9	Non-Linear Dynamic Analysis of a Multistoried Structure	15:15-16:30

Program Schedule - Day 3- 30th November 2019

S.No	Program	Time
1	Steel Truss Analysis	09:30-10:00
2	Introduction of Braced Frames	10:00-11:30
3	Break	11:30-11:45
4	Introduction of Shear Walls	11:45-13:15
5	Lunch Break	13:15-14:00
6	Earthquake Resistant Design of Structures using Shear Wall	14:00-15:30
7	Discussions	15:30-16:00
8	Grading Test / Q&A	16:00-16:25
9	Feedback and Closing Remarks of Program	16:25-16:30

About Resource Persons



Ms.S. Juberia, B.Tech

Trainer Cum Developer, APSSDC

Designation / Department / College: Trainer, AP State Skill Development Centre Vijayawada

Location: Tadepalli Guntur Andhra Pradesh, India – 522006

Email: juberia.s@apssdc.in



Ms.K. Swaroopa, B.Tech

Trainer Cum Developer, APSSDC

Designation / Department / College: Trainer, AP State Skill Development Centre Vijayawada

Location: Tadepalli Guntur Andhra Pradesh, India – 522006

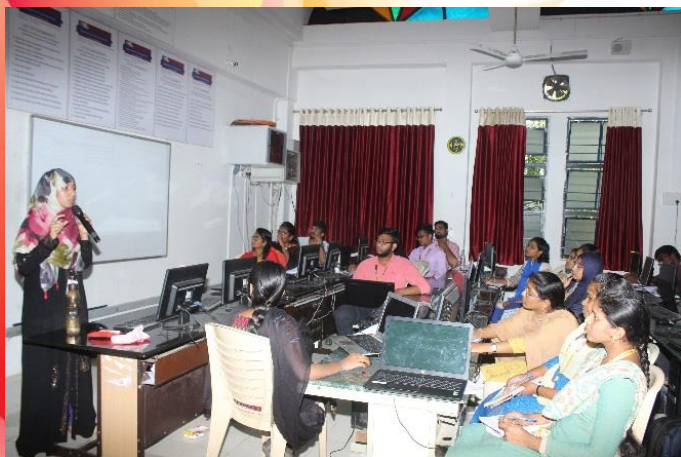
Email: swaroopa.k@apssdc.in



Facilitating Ms. S. Juberia by Dr. K. Subba Rao, Principal - COE



Facilitating Ms. K. Swaroopa by Dr. K. Subba Rao, Principal - COE



Ms. S. Juberia, Resource person
addressing the participants

Dr. K. Subba Rao, Principal - COE, and Dr. Ch.
Hanumantha Rao, Chairman & HOD-CE are distributing
the certificates to the participants



Appreciation to Mr. Naga Sai Neelapu,
APSSDC Program Coordinator



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