



KKR&KSR Institute of Technology and Sciences

Vinjanampadu, Guntur, Andhra Pradesh-522017
Approved by AICTE, New Delhi and Permanent Affiliation from JNTUK, Kakinada
Accredited with "A" Grade by NAAC & NBA.

STTP on "Advance Construction Technics In Low Cost Civil Structures For Modern Living" from 7 December 2020 To 12 December 2020(Phase-2).

Objectives of the Event: Short Term Training Program (STTP)

1. Enhance the knowledge of the participants in various Construction Technics which are prevalent in the industry for building low cost structures
2. Enhance the knowledge of the participants from Industry background in various construction materials for building low cost structures through interaction with Eminent persons from Academia and Industry
3. Enhance the Research capability of the participants from Academic background in various construction materials for building low cost structures through interaction with Eminent persons from Academia and Industry
4. Enhance the knowledge of the participants in Low carbon materials which are used for constructing Low Cost structures

DATE: 7 -12- 2020 to 12 -12-2020 (Phase-II)

TIME: 10.30 AM to 12:00, 02.00 PM to 03.30PM, IST.

VENUE: ZOOM, GOOGLE MEET (ONLINE)

TITLE: "Advance Construction Technics In Low Cost Civil Structures For Modern Living"

ORGANISED BY: Civil Engineering Department.KKR&KSR Institute of Technology&Sciences.

CONVENOR:

Dr. M. Ravindra Krishna, Professor & HOD

CO CONVENORS:

Mrs. R. Santhi kala, Assistant Professor

Mr. A.Suri Babu,Assistant Professor

DETAILS OF RESOURCE PERSONS:

STTP PHASE II SPEAKERS

1. Dr. J. Karthikeyan
Associate Professor . - N.I.T, Trichy
2. Dr. RomanbabuOinam
Assistant Professor - I.I.T, Tirupathi
3. Dr. A.R. Santhakumar
Formerly Dean- Anna university, Formerly Emeritus Professor - I.I.T Madras
4. Dr. A. Sreenivasulu
Professor, G.E.C, Gudlavalleru
5. Mr. P. Padmarao
Assistant Professor ,Vignan University
6. Dr. V. Sairam
Associate Professor, V.I.T, Vellore

7. Mr. K. Raj Kumar
Dy. General Manager- Bridges- L&T
8. Dr. K. Raja Sekhar
Assistant Professor, Andhra University
9. Dr. M. Ravindra Krishna
Professor & HOD, KKR & KSR Institute of
Technology and Sciences
10. Dr. M. Ravindra Krishna
Professor & HOD, KKR & KSR Institute of
Technology and Sciences

Event Poster:



KKR & KSR Institute Of Technology & Sciences
Vinjasampadu, Vatticherukuru Mandal, Guntur,
Andhra Pradesh 522017.
(Approved by AICTE, New Delhi, Permanently
Affiliated to JNTUK, Accredited by NAAC 'A' Grade &
NBA Accreditation for all UG Departments)

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AICTE SPONSORED

ONE WEEK SHORT TERM TRAINING PROGRAM (STTP-Phase 2) ON

ADVANCE CONSTRUCTION TECHNICIANS IN LOW COST CIVIL STRUCTURES FOR MODERN LIVING

Organized by
DEPARTMENT OF CIVIL ENGINEERING

07th-12th December, 2020

NO REGISTRATION FEE



SCAN ME

<https://forms.gle/tftTqymxzWMYD3BLU6>
OR
REGISTER HERE

FEATURED SPEAKERS

	<p>07-12-20 DAY-1 Dr. J. Karthikeyan Associate Professor - N.I.T, Trichy</p>
	<p>08-12-20 DAY-2 Dr. Romanbabu Oinam Associate Professor - I.I.T, Tirupathi</p>
	<p>09-12-20 DAY-3 Dr. A.R. Santhakumar Formerly Dean- Anna University, Formerly Emeritus Professor - I.I.T Madras</p>
	<p>09-12-20 DAY-3 Dr. A. Sreenivasulu Professor, G.E.C. Gudivada</p>
	<p>Mr. P. Padmarao Assistant Professor, Vignana University</p>
	<p>10-12-20 DAY-4 Dr. V. Sairam Associate Professor, V.I.T, Vallur</p>
	<p>Mr. K. Raj Kumar Dy. General Manager- Bridges- L&T</p>
	<p>11-12-20 DAY-5 Dr. M.R.K</p>
	<p>11-12-20 DAY-5 Dr. K. Raja Sekhar Assistant Professor, Andhra University</p>
	<p>Dr. M. Ravindra Krishna Professor & HOD, KKR & KSR Institute of Technology and Sciences</p>
	<p>12-12-20 DAY-6 Dr. M. Ravindra Krishna Professor & HOD, KKR & KSR Institute of Technology and Sciences</p>

Platform
Day 1: Google meet
Day 2-6 : Zoom

CHIEF PATRONS
Sri. Koye Subba Rao, Chairman
Sri Koyi Sekhar, Secretary

PATRONS
Dr. P. BABU, Principal
Dr. K. Hari Babu, Director

Co-ordinator
Dr. Ravindra Krishna Maganti
Professor & HOD, Dept of Civil Engineering
Ph no: 94401 22374
Email: mrkmtm@gmail.com

Co-ordinators
A. Suri Babu
P. Veerendra
M.V.N Maruthi
K. Deepak

Event Description:

RESOURCE PERSONS OF STTP PHASE-II:

1. **Name of the Person:** Dr. J. Karthikeyan,
Associate Professor. - N.I.T, Trichy

Topic Delivered:

Semi-Light Weight
Concrete for Low Cost
Housing

Day of STTP Phase-II: Day-1; 07-12-2020.





The resource person has delivered lecture about various materials which are locally available. The materials when added to concrete will reduce the weight and ultimately results in low cost.

2. **Name of the Person:** Dr. Roman babuOinam
Assistant Professor - I.I.T, Tirupathi



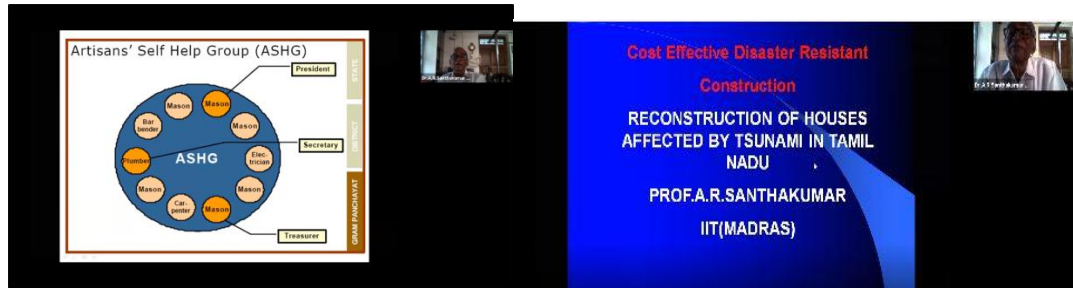
Topic Delivered: “Resilient and Sustainable low-cost housing construction”

Day of STTP Phase-II: Day-2/Morning session; 08-12-2020.

3. **Name of the Person:** Dr. A.R. Santhakumar,
Formerly Dean- Anna university,
Formerly Emeritus Professor- I.I.T
Madras.

Topic Delivered: “Cost effective construction and disaster resistance”

Day of STTP Phase-II: Day-2/Afternoon session; 08-12-2020.

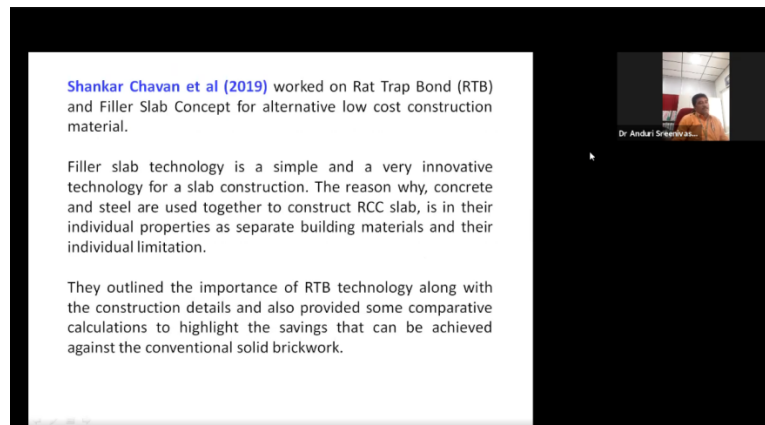


4 **Name of the Person:** Dr. A. Srinivasulu,
 Professor, G.E.C, Gudlavalleru.



Topic Delivered:

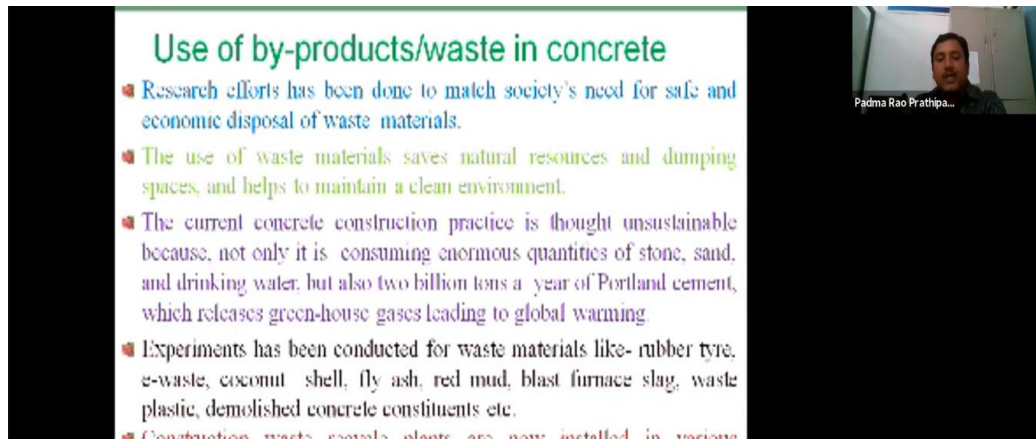
Day of STTP Phase-II: Day-3/Morning session; 09-12-2020.



A study on the impact of reinforced natural fibers on mud bricks while coating of sulphur improves the water resistant of the above all other types of fiber bricks are made with cereal straw construct and rises which are combined with cement to make them corrosion resistant and strong

Discussed about straw reinforced mud bricks, baggas rainforest mud bricks cornstarch rainforest mud bricks mixture designations low cost building materials example bamboo compressor red bricks, fly ash hollow bricks.


5. **Name of the Person:** Mr. P. Padma Rao,
Assistant Professor, Vignan University.
- Topic Delivered:** “Sustainable utilization of industrial by-products in the development of infrastructure needs”
- Day of STTP Phase-II:** Day-3/Afternoon session; 09-12-2020.



Sustainable utilization of industrial by products in the development of infrastructure needs and also explained about use of by products in concrete what are the materials used in concrete explain about fly ash red mud silica fuma rice husk Ash principles conclusion and about sustainable development

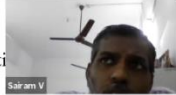
6. **Name of the Person:** Dr. V. Sai Ram,
Associate Professor, V.I.T, Vellore.
- Topic Delivered:** “Construction techniques for low-income housing”
- Day of STTP Phase-II:** Day-4/Morning session; 10-12-2020.



Lenovo 

Factors which influences

- **Thermal conductivity** – Modern materials such as metal or asbestos sheets - Have high thermal conductivity – Excessive heat in summers and cold in winters.
- **Environmental Concerns and Human Health and Safety**
 - Depletion of non-renewable natural resources due to extraction of raw materials
 - Disposal of the wastes generated,
 - Transportation of materials
 - Volatile Organic Compounds (VOCs) released during manufacture or processing of certain materials
- **Minimizing Green House Gas (GHG) Emission**
- **Life Cycle Assessment (LCA) of Building Materials involving**
 - Embodied energy
 - Resource reuse and upgradation
 - Recycled content
 - Materials compliant with clean air and clean water, etc
- **Cost Effectiveness**
- **Workmanship and Materials**
- **Maintenance Requirement**

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7. **Name of the Person:** Mr. K. Raj Kumar,
Dy. General Manager- Bridges- L&T.

Topic Delivered: “Recent trends in infrastructure, iconic bridges-lean principles”

Day of STTP Phase-II: Day-4/Afternoon session; 10-12-2020.



SDG – (The 17 sustainable development goals to transform our world) – United Nations



GOAL 1: No Poverty
GOAL 2: Zero Hunger
GOAL 3: Good Health and Well-being
GOAL 4: Quality Education
GOAL 5: Gender Equality
GOAL 6: Clean Water and Sanitation
GOAL 7: Affordable and Clean Energy
GOAL 8: Decent Work and Economic Growth
GOAL 9: Industry, Innovation and Infrastructure
GOAL 10: Reduced Inequality
GOAL 11: Sustainable Cities and Communities
GOAL 12: Responsible Consumption and Production
GOAL 13: Climate Action
GOAL 14: Life Below Water
GOAL 15: Life on Land
GOAL 16: Peace and Justice Strong Institutions
GOAL 17: Partnerships to achieve the Goal

8. **Name of the Person:** Dr. K. Raja Sekhar
Assistant Professor, Andhra University

Topic Delivered: “Low Cost construction with industrial waste”

Day of STTP Phase-II: Day-5/Morning session; 11-12-2020.



Pre-Engineered Buildings

- It is a combination of precast and prefabricated structures.
- PEBs are generally **low-rise** buildings meant **for** offices, houses, showrooms, shop fronts etc.
- PEBs reduce total construction time of the project by about 40%. This allows faster occupancy and earlier realization of revenue.

9. **Name of the Person:** Dr. M. Ravindra Krishna
Professor & HOD KKR & KSR Institute of Technology and Sciences.
- Topic Delivered:** “Advance construction techniques in low-cost civil structures”
- Day of STTP Phase-II:** Day-5/Afternoon session; 11-12-2020.

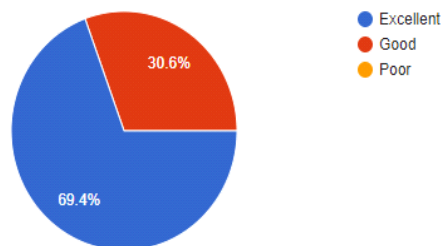


10. **Name of the Person:** Dr. M. Ravindra Krishna
Professor & HOD KKR & KSR Institute of Technology and Sciences.
- Topic Delivered:**
- Day of STTP Phase-II:** Day-6; 11-12-2020.



Event Registrations:Phase-II 265.Including faculty and students from different places.

Overall Rating of the S.T.T.P
147 responses



Social Media

<https://www.facebook.com/photo?fbid=490663179001698&set=a.490662969001719>

<https://www.facebook.com/photo?fbid=490661635668519&set=a.490662969001719>

Benefits of the event: After completion of the six days STTP participants can attain knowledge on all aspects related to low cost housing. Eminent resource persons give detail information about advanced low cost materials suitable for construction and about different tests for materials, different updated and advanced technologies for construction were explained in detail in STTP. As for any nation developed this is mandatory to make the rural areas a major priority for concern with the advancement in technology and development in the construction sector this is now possible to build speedy and low cost housing for rural safety of low cost houses depend up on the interest of the builder. The adoption of advanced construction technology requires an appropriate design, commitment from the whole project team, suitable procurement strategies, good quality control, appropriate training and careful commissioning. Many building systems operate independently, and many are inherently inefficient as they lack the monitoring capability that would enable them to adapt effectively to different conditions or modes of operation. Smart technologies can facilitate better decision making and automation of responses Faculty and students participated will attain knowledge which is useful for their future research studies, to apply in field of construction.