

VOLUME 3, ISSUE 2
DECEMBER 2020



DEPARTMENT OF
CIVIL ENGINEERING
presents
CIVILIZATION

Take the best thing that exist and make them better
- Henry Royce

VISION

- ✚ To be a Department imparting knowledge in Civil Engineering Education, Research, Entrepreneurship and Industry outreach services for creating sustainable infrastructure and enhancing the quality of Life with professional and ethical values.

MISSION

- ✚ To provide an effective learning environment enabling to be a competent Civil Engineer.
- ✚ To motivate Research and Entrepreneurial initiatives in the Field of Civil Engineering.
- ✚ To inculcate ethical values to serve the society with high order Professionalism.

EXOSKELETONS

Exoskeletons are a technology that has been advertised for its potential to make construction more comfortable, convenient, and altogether efficient. Like many other technologies on this list, exoskeletons may sound more like the stuff of science fiction than a credible, real-world machine. **The exoskeleton can help to ease the work and reduce the number of injuries on the construction site.**

The wearable mechanical suit is also known as exosuit. These suits are built in such a way that workers can wear them over the clothing to help them lift heavy equipment, supplies, or machinery. More than 40 companies are now manufacturing this robotic frame worldwide, so there are chances that this year or maybe in future we will see these suits on the construction site.

Exoskeletons are slowly making their way into the construction industry to increase safety and productivity for all workers. These machines aim to reduce accumulated strain gained from repetitive and prolonged tasks throughout the work day. These tasks range from screwing car bolts overhead in a car factory to drilling into walls while holding up heavy equipment.

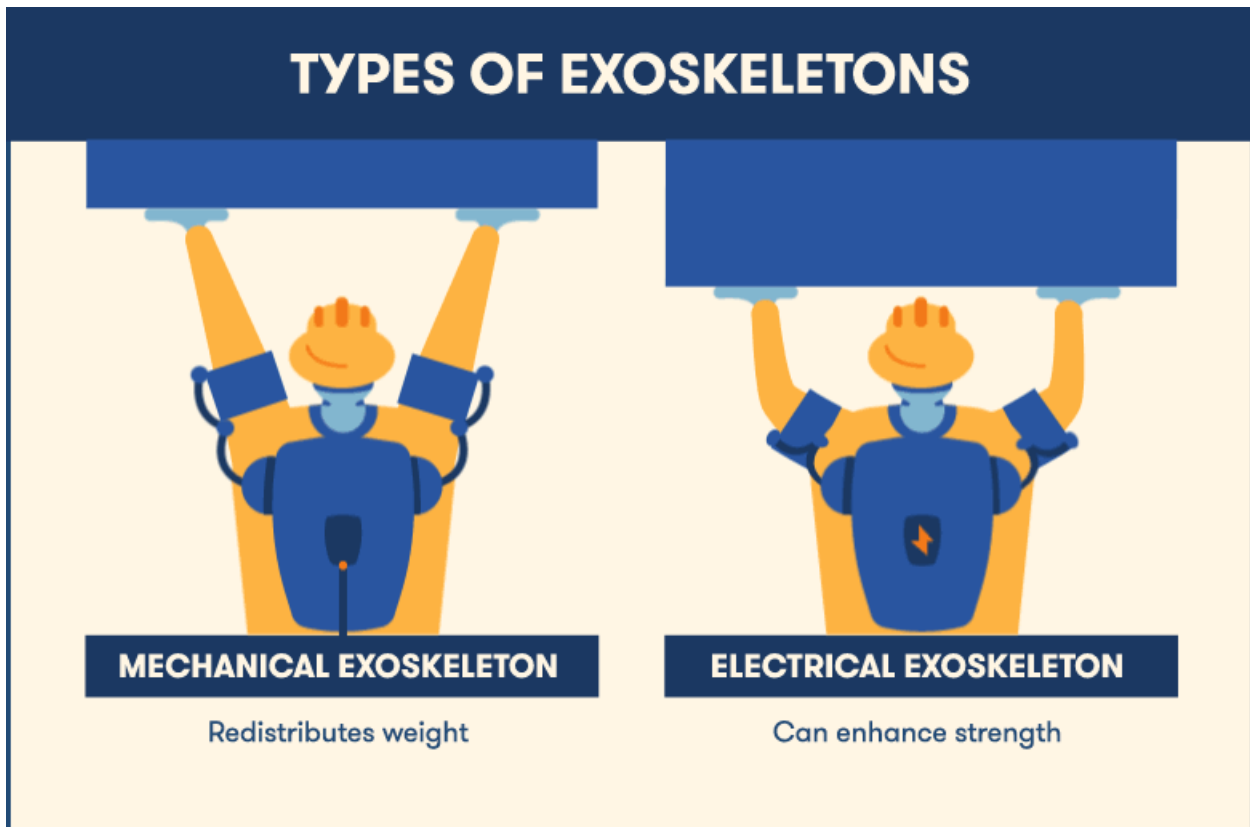
These tools range from supporting a worker's back, legs and hands to supporting the user's entire body. Read on to learn how exoskeletons are improving both safety and productivity in the construction industry.



Exoskeletons are wearable machines suited with motorized joints that aim to minimize strain and injury by providing lift support, weight dispersion, posture

correction and other capabilities. Exoskeletons are sometimes referred to as exosuits. These machines are mainly used for physical rehabilitation, but are increasingly used by workers in construction and manufacturing.

Many contractors are confident that wearable technology, like construction exoskeletons, will improve the construction industry.



Mechanical exoskeletons use no electricity. Users enjoy longevity in the field since they don't need recharging nor does the user need to carry a power source. Most mechanical exoskeletons take weight from a specific area of the body (like the arms and shoulders) and redistribute it to another (like the core and waist) to reduce strain and fatigue.

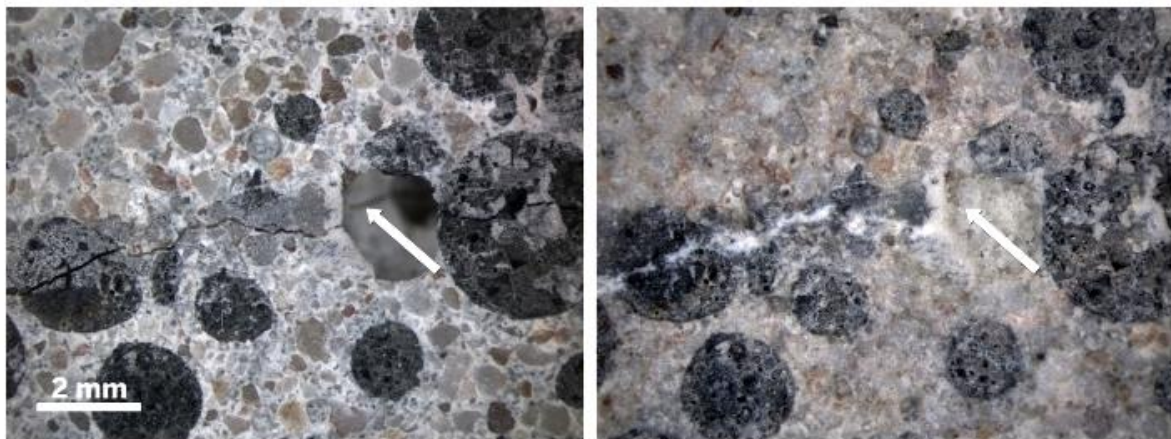
Partial or full electric exoskeletons are typically more powerful than mechanical exoskeletons and handle more weight. They can target more specific areas, like the hand, and increase pressure and strength where needed.

*By Mrs. S. Yugasini / Assistant Professor
Department of Civil Engineering*

SEVEN EMERGING INNOVATIONS IN CIVIL ENGINEERING

1. Self-Healing Concrete

Cement is one of the most widely used materials in construction, but also one of the largest contributors to harmful carbon emissions, said to be responsible for around 7 per cent of annual global emissions. Cracking is a major problem in construction, usually caused by exposure to water and chemicals. Researchers at Bath University are looking to develop a self-healing concrete, using a mix containing bacteria within microcapsules, which will aid building innovation by germinating when water enters a crack in the concrete to produce limestone, plugging the crack before water and oxygen has a chance to corrode the steel reinforcement.



2. THERMAL BRIDGING

Efficient insulation material is becoming increasingly important throughout the construction industry. Heat transmission through walls tends to be passed directly through the building envelope, be it masonry, block or stud frame, to the internal fascia such as drywall. This process is known as “thermal bridging”. Aerogel, a technology developed by NASA for cryogenic insulation, is considered one of the most effective thermal insulation materials and US spin-off Thermablok has adapted it using a proprietary aerogel in a fibreglass matrix. This can be used to insulate studs, which can

reportedly increase overall wall R-value (an industry measure of thermal resistance) by more than 40 per cent.

3. KINETIC FOOTFALL

One of the latest civil engineering technologies under development is kinetic energy. Pavegen provides a technology that enables flooring to harness the energy of footsteps. It can be used indoors or outdoors in high traffic areas, and generates electricity from pedestrian footfall using an electromagnetic induction process and flywheel energy storage. The technology is best suited to transport hubs where a large flow of people will pass over it. The largest deployment the company has done so far is in a football pitch in Rio de Janeiro to help power the floodlights around the pitch. It also currently has a temporary installation outside London's Canary Wharf station powering street lights.



4. KINETIC ROADS

Italian start-up Underground Power is exploring the potential of kinetic energy in roadways. It has developed a technology called Lybra, a tyre-like rubber paving that converts the kinetic energy produced by moving vehicles into electrical energy. Developed in co-operation with the Polytechnic University of Milan, Lybra operates on the principle that a braking car dissipates kinetic energy. The cutting-edge

technology is able to collect and convert this energy into electricity before passing it on to the electricity grid. In addition to improving road safety, the device upgrades and promotes sustainability of road traffic.



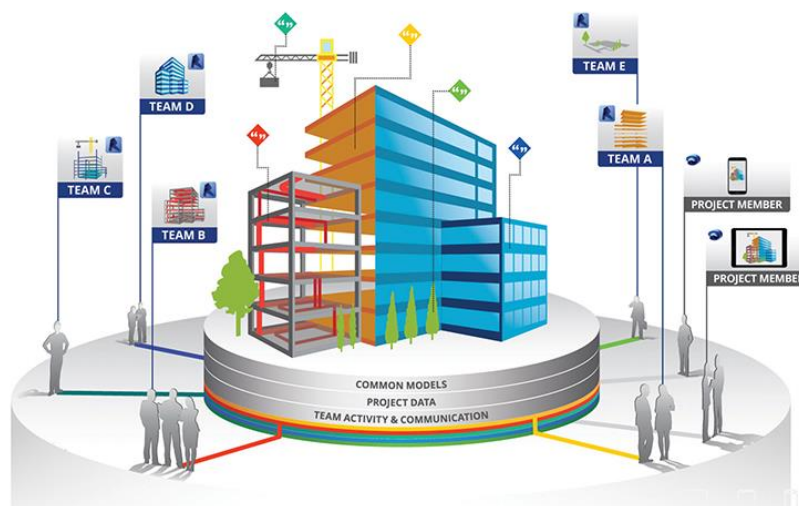
5. PREDICTIVE SOFTWARE

The structural integrity of any building is only as good as its individual parts. The way those parts fit together, along with the choice of materials and its specific site, all contribute to how the building will perform under normal, or extreme, conditions. Civil engineers need to integrate a vast number of pieces into building designs, while complying with increasingly demanding safety and government regulations. Predictive software can help ensure even the most innovative structures in civil engineering are safe and efficient, by simulating how they will behave. An example of this was work on the structural integrity of the arch rotation brackets at Wembley Stadium, undertaken by Bennett Associates, using ANSYS software, which simulated the stresses on the brackets that hold and move the distinctive arches above the stadium.



6. CLOUD COLLABORATION

Another new technology used in civil engineering is a cloud collaboration tool called base-stone. Base-stone is a system allowing the remote sharing of data on a construction site in real time. It is predominantly a review tool for civil engineers and architects which digitises the drawing review process on construction projects, and allows for better collaboration. The cloud-based collaboration tool is focused on the installation of everything from steel beams to light fittings. The system is used to add “snags”, issues that happen during construction, on to pdfs, then users can mark or add notes through base-stone. Trials have revealed possible cost-savings of around 60 per cent compared with traditional paper-based review methods.



7. ASSET MAPPING

Not all of the latest civil engineering developments are new construction materials or flashy technological tools. Asset mapping focuses on operational equipment, including heating and air conditioning, lighting and security systems. The process includes collecting data from serial numbers, firmware, engineering notes of when it was installed and by whom, and combines all the data in one place. This system can show engineers in real time where the equipment needs to be installed on a map and, once the assets are connected to the real-time system using the internet of things, these can be monitored via the web, app, and other remote devices and systems. It helps

customers build databases of asset performance, which can assist in proactive building maintenance, and also reduce building procurement and insurance costs.



*By Mr. M. Manoharan / Assistant Professor
Department of Civil Engineering*

DEPARTMENTAL ACTIVITIES

STUDENT ACHIEVEMENTS

STUDENT PARTICIPATION IN ONLINE WEBINAR

Sl. No.	Name of the Student	Year/Section	Course Title	Organized by	Event	Date
1.	Bhuvan M	III A	KAPILA: Kalam Program for IP Literacy and Awareness	MIC:IIC	Online FDP	19.10.20 to 23.10.20
2.	Shashank N	III A				
3.	Dharunika Vijayakumar	II A				
4.	Amitesh Madhav K.S	II A				
5.	Manish A	II A	Getting yourself published, "An interactive session on how to write research articles"	Wiseup Communication	Webinar	20.10.20

ONLINE COURSE BY STUDENT

Sl. No.	Name of the Student	Year/Section	Course Title	Offered by	Duration	Date	Remarks
1.	Arun Kumar	III A	STAAD Pro.	Internshala Trainings	6 weeks	15.08.20 to 08.09.20	Secured 49%

FACULTY ACCOMPLISHMENTS

JOURNAL PUBLICATION

- ✚ Journal paper titled “**Properties of Aerated Cement Composite Reinforced with Steel Fibres**” by Dr. M. Selvakumar, Dr. S. Geetha & Mrs. S. Muthu Lakshmi has been published online in October, 2020 in Materials Today: Proceedings, Elsevier Publisher (Scopus Indexed with Impact factor-0.97).
- ✚ Journal paper titled “**Characteristics of High Strength Concrete with Basalt Fibre and Glass Powder as Partial Replacement of Fine Aggregate**” by Dr. M. Selvakumar, Dr. S. Geetha, Sneha Kasthuri Rangan, Sithrubi & Sathyasriya has been published online in October, 2020 in Materials Today: Proceedings, Elsevier Publisher (Scopus Indexed with Impact factor-0.97).
- ✚ Journal paper titled “**Unsoaked CBR with UCC Strength for SC and SP Soil**” by Mrs. S. Muthu Lakshmi, M. Arshad Gani, V. Kamalesh, V. Mahalakshmi, P. M. Padmesh has been published online in October, 2020 in Materials Today: Proceedings, Elsevier Publisher (Scopus Indexed with Impact factor-0.97).
- ✚ Journal paper titled “**Performance of Ultra High Performance Concrete Using Steel Fibre**” by Mr. P. Muthaiyan, Dr. M. Uma maguesvari, Mrs. S. Yugasini & Mr. M. Ammaiappan has been published in International Bilingual Peer Reviewed Referred, Vol.7(27), pp. 57-62, November 2020.
- ✚ Journal paper titled “**Self Prestressing Concrete Composite with Shape Memory alloy**” by Dr. S. Geetha & Dr. M. Selvakumar has been accepted for publication in Materials Today: Proceedings, Elsevier Publisher (Scopus Indexed with Impact factor-0.97).
- ✚ Journal paper titled “**Optimization of high strength concrete with construction and demolition waste**” by Dr. S. Geetha, Dr. M. Selvakumar & Mrs. S. Muthu Lakshmi has been published in IOP Conferebce Series: Materials Science and

Engineering, 989 (2020) 012027, IOP Publishing, doi:10.1088/1757-899X/989/1/012027.

- ✚ Journal paper titled “**Application of lime and GGBS to improve the strength of clayey sand**” by Mrs. S. Muthu Lakshmi, Dr. S. Geetha, Dr. M. Selvakumar, N. Sivanesan & K. R. Sreedharan has been published in IOP Conference Series: Materials Science and Engineering, 989 (2020) 012028, IOP Publishing, doi:10.1088/1757-899X/989/1/012028.
- ✚ Journal paper titled “**Self Prestressing Concrete Composite with Shape Memory Alloy**” by Dr. S. Geetha & Dr. M. Selvakumar has been published online in December 2020 in Materials Today: Proceedings, Elsevier Publisher (Scopus Indexed with Impact factor-0.97).
- ✚ Journal paper titled “**Experimental Study on Pervious Geopolymer Concrete**” by Dr. M. Uma Magesvari, Mr. P. Muthaiyan , Mrs. S. Yugasini & Mr. M. Ammaiappan has been published in IOP Conference Series: Materials Science and Engineering, 989 (2020) 012032, IOP Publishing, doi:10.1088/1757-899X/989/1/012032
- ✚ Journal paper titled “**Comparative study of conventional bricks a with padobe**” by Mrs. S. Yugasini, Dr. M. Uma Magesvari Mr. P. Muthaiyan & Mr. M. Ammaiappan has been published in IOP Conference Series: Materials Science and Engineering, 989 (2020) 012031, IOP Publishing, doi:10.1088/1757-899X/989/1/012031.

BOOK CHAPTER PUBLISHED

- ✚ Dr. M. Selvakumar & Dr. S. Geetha have authored a book chapter on “**Predicting Particulate Air Pollution Using Line Source Models**” which is published as Chapter 10 (pg. 137 to 153) in **Springer Transactions in Civil and Environmental Engineering**, published by Springer and is available in print version and e- book.

CONFERENCE PAPER PUBLICATION

- ✚ Dr. M. Selvakumar, Dr. V. Prasannakumari, Dr. S. Geetha & Mrs. S. Muthu Lakshmi presented a conference paper entitled “**Validation of Line source Models for determining Industrial Pollution and Integrating with IoT for Vulnerability Management**” in International Virtual Conference on Robotics, Automation, Intelligent Systems and Energy (IVC-RAISE 2020) held at Kongu Engineering College, Perundurai on 15th Dec’ 2020.
- ✚ Dr. S. Geetha, Dr. M. Selvakumar & Mrs. S. Muthu Lakshmi presented a conference paper entitled “**Characteristics of Polymer Modified Reclaimed Bitumen and Aggregate as Sustainable Pavement Material**” in International Virtual Conference on Robotics, Automation, Intelligent Systems and Energy (IVC-RAISE 2020) held at Kongu Engineering College, Perundurai on 15th Dec’ 2020.
- ✚ Mrs. S. Muthu Lakshmi, Dr. S. Geetha, Dr. M. Selvakumar, S. Revathy & K. M. Shri Varshini presented a conference paper entitled “Utilizing lime for enhancing strength of Clayey Sand subgrade” in the International Virtual Conference on Robotics, Automation, Intelligent Systems and Energy (IVC-RAISE 2020) held at Kongu Engineering College, Perundurai on 15th Dec’ 2020.

OTHER ACHIEVEMENTS

- ✚ Professor Dr. S. Geetha has been recognized as Reviewer for the following Journals:
 - Journal of Sustainable Cement Based Materials – Taylor and Francis Publisher.
 - International Journal of Atomic and Nuclear Physics (Composite), VIBGYOR ePress, England.
 - Smart Structures and Systems, An International Journal, Techno Press Publishers.
- ✚ Mrs. M. Hemavathy has got confirmation for her Ph.D under the division of Transportation Engineering, Anna University Chennai.

- ✚ Mrs. S. Muthu Lakshmi has registered for Ph.D. in Saveetha Institute of Medical and Technical Sciences.
- ✚ Following faculty members attended 5 days ATAL online FDP on “**Design of Earthquake Resistant Structures**” organized by KAPILA - Kalam Program for IP Literacy & Awareness & National IP Literacy Week (NIPLW).
 - Mr. J. Jasper Daniel / AP (SS)
 - Mrs. V. J. Vedhanayaghi / AP
 - Mr. R. MadhavaPerumal / AP
 - Mrs. S. Yugasini / AP
 - Mr. P. Muthaiyan / AP
- ✚ Dr. M. Selvakumar & Dr. S. Geetha received an honorarium of Rs. 25,000/- from the Management of Rajalakshmi Institutions for publishing journal papers in Scopus Indexed Journals for the year 2019.
- ✚ Following Faculty Members brought laurels to the department by successfully completing and securing grade in the NPTEL exam:

S. No.	Name	Score	Grade
1	Dr. M. Selvakumar	69%	Elite
2	Dr. S. Geetha	78%	Elite +Silver +5 % Topper
3	Dr. M. Uma Magesvari	92%	Elite + Gold + 5 % Topper
4	Mr. M. Ammaiappan	85%	Elite + Silver
5	Mr. M. Manoharan	93%	Elite + Gold

FACULTY PARTICIPATION IN ONLINE WEBINAR / FDP / STTP / WORKSHOP

Sl. No.	Name of the Faculty	Course Title	Organized by	Event	Date
<i>OCTOBER 2020</i>					
1.	Dr. M. Selvakumar	Sustainability - Concepts And Practices	SSN College of Engg. & Indian Green Building Council	Webinar	8.9.2020
2.		Structural Health Monitoring for Seismic Protection of Structures and Infrastructural Systems-Phase IV	Bannari Amman Institute of Tech.	AICTE sponsored online STTP	5.10.20 to 10.10.20
3.		Repair, Rehabilitation and Retrofitting of RCC Structures	Dr. S. & S. S. Ghandhy Govt. Engg. College, Surat & Govt. Engg. College, Surat	Webinar	10.10.20
4.		Virtual Refresher Course on Modern Materials and Methods in Building Construction	Kamaraj College of Engineering & Tech.	Virtual Refresher Course	12.10.20 to 16.10.20
5.		Role of PSC & GGBS in sustainable Constructions	Qcrete	Webinar	13.10.2020
6.		Disaster Mitigation - A shift from Disaster Management towards Disaster Preparedness	B.S. Abdur Rahman Crescent Institute of Science & Tech.	AICTE sponsored STTP	19.10.20 to 24.10.20
7.		Influence of Aggregates on properties of Concrete	Qcrete	Webinar	23.10.20
8.	Dr. S. Geetha	Structural Health Monitoring for Seismic Protection of Structures and Infrastructural Systems-Phase IV	Bannari Amman Institute of Technology	AICTE sponsored online STTP	5.10.20 to 10.10.20

9.		Repair, Rehabilitation and Retrofitting of RCC Structures	Dr. S. & S. S. Ghandhy Govt.Engg. College, Surat& Govt Engg.College, Surat	Webinar	10.10.20
10.		Virtual Refresher Course on Modern Materials and Methods in Building Construction	Kamaraj College of Engineering & Technology	Virtual Refresher Course	12.10.2020 to 16.10.2020
11.		Role of PSC & GGBS in sustainable Constructions	Qcrete	Webinar	13.10.20
12.		Disaster Mitigation - A shift from Disaster Management towards Disaster Preparedness	B.S. Abdur Rahman Crescent Institute of Science & Tech.	AICTE sponsored STTP	19.10.20 to 24.10.20
13.		Influence of Aggregates on properties of Concrete	Qcrete	Webinar	23.10.2020
14.		Forum of Nurturing clean water and Green waste	K.S.R College of Engineering	AICTE sponsored STTP	28.10.20 to 4.11.20
15.		Structural Life Assessment and Failure Diagnosis” Phase III	Mepco Schlenk Engineering College	STTP	12.10.2020 to 17.10.2020
16.	Dr. M. Uma Magesvari	“Disaster mitigation - A shift from disaster management towards disaster preparedness” (Phase II)	BSACIST	STTP	19.10.20 to 24.10.20
17.	Mrs. S. Muthu Lakshmi	Writing and publishing high impact research publications and scientific documents"	REC –IT dept.	STTP	19.10.20 to 24.10.20
18.		High Performance and Smart Materials for Structural Application	NPR College of Engineering and Technology, Dindigul	Webinar	09.10.2020
19.	Mrs. V. J. Vedhanayaghi	Concepts of Structural Analysis	Sri Ranganathar Institute of Engineering and Technology, Coimbatore	Webinar	14.10.2020

20.		AICTE Sponsored STTP on “Disaster Mitigation – A shift from Disaster Management towards Disaster Preparedness” – Phase II	B.S. Abdur Rahman Crescent Institute of Science and Technology	STTP (AICTE Sponsored)	19.10.2020 to 24.10.2020
21.	Mrs. S. Yugasini	High performance and smart materials for structural application	NPR College of Engineering & technology	Webinar	09.10.2020

NOVEMBER 2020

1.	Dr. M. Selvakumar	Smart Materials and Systems: Emerging Research Areas	C.V. Raman Global University(CGU); Bhubaneswar	AICTE sponsored online STTP	2.11.2020 to 7.11.2020
2.		Seismic Risk Mitigation and Vibration Control of Structures	R K University, Rajkot	5 days STTP	9.11.2020 to 13.11.2020
3.		Disaster mitigation: A shift from disaster management towards disaster preparedness	B.S. Abdur Rahman Crescent Institute of Science & Technology	AICTE sponsored online STTP	16.11.2020 to 21.11.2020
4.		Responsibilities of stakeholders of Earthquake PART- 2	Qcrete	Webinar	21.11.2020
5.		Sustainable Materials & Resilient Buildings- philosophy, Design, Implementation, and Performance	KITS Warangal	AICTE sponsored one week STTP	23.11.2020 to 28.11.2020
6.		Latest innovations and technological advancements in concrete technology	Kalasalingam academy of research and education, Srivilliputhur	International STTP	23.11.2020 to 28.11.2020
7.		Integrated Waste Management	Angadi Institute of Technology & Management, Belagavi, Karnataka	AICTE ISTE sponsored FDP	24.11.2020 to 30.11.2020
8.		Advanced Pedagogy	Hindusthan College of Engineering and Technology, Coimbatore	Webinar	26.11.2020 to 28.11.2020

9.		Forensic Engineering & Underground Urban	Jain Institute of Technology,	International	27.11.2020 to
10.	Dr. S. Geetha	Smart Materials and Systems: Emerging Research Areas	C.V. Raman Global University (CGU); Bhubaneswar	AICTE sponsored online STTP	2.11.2020 to 7.11.2020
11.		Seismic Risk Mitigation and Vibration Control of Structures	R K University, Rajkot	5 days STTP	9.11.2020 to 13.11.2020
12.		Disaster mitigation: A shift from disaster management towards disaster preparedness	B.S. AbdurRahman Crescent Inst. of Science & Technology	AICTE sponsored online STTP	16.11.2020 to 21.11.2020
13.		Responsibilities of stakeholders of Earthquake PART- 2	Qcrete	Webinar	21.11.2020
14.		Sustainable Materials & Resilient Buildings- philosophy, Design, Implementation, and Performance	KITS Warangal	AICTE sponsored one week STTP	23.11.2020 to 28.11.2020
15.		Integrated Waste Management	Angadi Institute of Technology & Management, Belagavi, Karnataka	AICTE ISTE sponsored FDP	24.11.2020 to 30.11.2020
16.		Forensic Engineering & Underground Urban Rail Infrastructure	Jain Institute of Technology, Davangere	International Webinar	27.11.2020 to 28.11.2020
17.		Environmental Impact Assessment	KCT Coimbatore	Webinar	18.11.2020
18.	Dr. M. Uma Magesvari	Virtual International Summit on Energy Efficient Buildings	VIT, CHENNAI	Webinar	21.11.2020
19.		Latest innovations and technological advancements in concrete technology	Kalasalingam academy of research and education, Srivilliputhur	International STTP	23.11.2020 to 28.11.2020
20.	Mr. M. Manoharan	Latest Innovations and Technological Advancements in Concrete Technology	KARE	One Week International STTP	23.11.2020 to 28.11.2020
21.		PALS Faculty Student Development Program on "PROJECT MANAGEMENT"	PALS Team	FSDP	21.11.2020 & 28.11.2020

22.	Mr. E. S. Karthic	Advanced Concepts in Material and Structural Engineering	SRM Institute of Science and Technology	One Week STTP	16.11.2020 & 21.11.2020
23.	Mrs. V. J. Vedhanayaghi	Disaster Mitigation - A shift from Disaster Management towards Disaster Preparedness - Phase 3	B.S.Abdur Rahman Crescent Institute of Science & Technology	AICTE - STTP	16.11.2020 to 21.11.2020
24.		Structural Audit for Earthquake Safety	Delhi Technological University, Delhi (Jointly organized by National Institute of Disaster Management)	STTP	24.11.2020 to 28.11.2020
25.		Seaweed to biofuel – A novel approach	PET Engineering College	Webinar	30.11.2020

DECEMBER 2020

1.	Dr. M. Selvakumar	Application of Value Engineering in foundation design	Qcrete	Webinar	12.12.2020
2.		Forum for Nurturing Clean-Water and Green-Waste	K.S.R College of Engineering, Tiruchengode	AICTE sponsored STTP	14.12.2020 to 19.12.2020
3.		Design of Experiments & Optimization Techniques	Vemu Institute of Technology, Chittoor, Andhra Pradesh	AICTE sponsored STTP	14.12.2020 to 19.12.2020
4.		Technical Writing and Research Methodology	Chaitanya Bharathi Institute of Technology, Proddatur, Andhra Pradesh	AICTE sponsored STTP	14.12.2020 to 19.12.2020
5.		Civil Engineering.- Virtual Industry Conclave	VIT Chennai	Virtual Conclave	18.12.2020
6.		Advances in Concrete and Construction	R.R Institute of Technology, Bengaluru	National FDP	29.12.2020
7.	Dr. S. Geetha	Application of Value Engineering in foundation	Qcrete	Webinar	12.12.2020

		design			
8.		Forum for Nurturing Clean-Water and Green-Waste	K.S.R College of Engineering, Tiruchengode	AICTE sponsored STTP	14.12.2020 to 19.12.2020
9.		Design of Experiments & Optimization Techniques	Vemu Institute of Technology, Chittoor, Andhra Pradesh	AICTE sponsored STTP	14.12.2020 to 19.12.2020
10.		Civil Engineering.- Virtual Industry Conclave	VIT Chennai	Virtual Conclave	18.12.2020
11.		Advances in Concrete and Construction	R.R Institute of Technology, Bengaluru	National FDP	29.12.2020
12.	Dr. M. Uma Magesvari	Latest Innovations and technological advancements in Concrete Technology	Kalasalingam Academy of Research and Education	STTP	07.12.2020 to 12.12.2020
13.		“Recent Advances in Pavement Material Testing and Design”	MNM JAIN	STTP Phase - II	14.12.2020 to 19.12.2020
14.	Mrs. V J. Vedhanayaghi	STTP on “Guidance and Counselling”	St. Joseph’s College of Engineering and Technology, Palai, Kerala	AICTE - STTP	07.12.2020 to 12.12.2020
15.		STTP Phase II on “Recent Advances in Pavement Material Testing and Design”	MNM Jain Engineering College	AICTE-STTP	14.12.2020 to 19.12.2020

EDITORIAL BOARD MEMBERS

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Mrs. S. Muthu Lakshmi / AP(SG)

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