

ASCE EVENTS DATA AY 2021-2022

EVENT	DATE	GUESTS/ PARTICIPATIONS
FIELD TRIP DR KL RAO HEAD WATER WORKS, KUMMARIPALEM, VIJAYAWADA	22.02.2022	Mr.M.Raghava Prasad Mr.Haroon Ali Khan And 3 rd year A Sec Students (40)
FIELD TRIP DR KL RAO HEAD WATER WORKS, KUMMARIPALEM, VIJAYAWADA	24.02.2022	Dr.U.AnujaCharpe Mr.Haroon Ali Khan And 3 rd year C Sec Students (60)
Seminar on Career Opportunities in EMERGING SECTORS & INDUSTRY 4.0	25.02.2022	Dr. BIPLAB KUMAR BISWAL, Director, KIRLOSKAR INSTITUTE OF ADVANCED MANAGEMENT STUDIES (KIAMS)
Field Trip to Polavaram&Pattiseema	27.03.2022	Dr.K.S.R.Prasad Dr.U.AnujaCharpe Mr.Haroon Ali Khan Mr.B.Sriram And 3 rd year Students (80)
What's wrong in it?	06.04.2022	Event for 2 nd year Students (40)
Guest Lecture on Architectural and Structural Requirements for Earthquake Resilient Buildings	14.05.2022	Dr.SriKalyanaRamaJ,AssistantProfessor,DepartmentofCivilEngineering, Mahindra University,Hyderabad.
2nd KoyaSrinivasa Rao Endowment Lecture on "Sustainable Infrastructure: Role of Civil Engineers"	30.06.2022	Dr. Krishna R. Reddy Professor of Civil and Environmental Engineering, University of Illinois, Chicago, USA


DEPARTMENT OF CIVIL ENGINEERING

V R SIDDHARTHA ENGINEERING COLLEGE

Event	FIELD TRIP Dr. KL RAO HEAD WATER WORKS, KUMMARIPALEM, VIJAYAWADA
Date	22.02.2022
Beneficiaries	3 rd year A Sec Students (40)
Highlights	<p>The main objective of visiting the water treatment plant is to study the process of water treatment. Executive Engineer Narayana Murthy, Assistant Executive Engineer Basava Reddy accompanied during the visit. Supervisory Control and Data Acquisition (SCADA) is a system that aims to monitor and control field devices at remote sites. SCADA is a centralized system that monitors and controls the entire water distributor system in an area. This supervisory system gathers data on water drawn and distributed and identifies unaccountable water during distribution. This system is being explained clearly to students. Total Plant capacity (45MGD) and distribution system is explained. Collection intake well of 11MGD capacity and screening procedure is illustrated. Coagulation (treatment with alum), Flash mixing (violent agitation for mixing of alum with water properly) and flocculation process (to remove precipitate formed due to addition of alum), Sedimentation (removal of bacteria and impurities), filtration (collection of filtered water), disinfection process (Chlorine gas is used to disinfect water) are explained. Students visited the plant and observed complete process of water treatment and distribution of water to different areas of Vijayawada City. Around 40 students has attend this field trip, which in turn they got a brief view about how water is being drawn from the river and converted to drinking water which is being supplied for industrial and domestic purposes.</p>
Photos	

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Beneficiaries	3 rd year C Sec Students (60)
Highlights	<p>The main objective of visiting the water treatment plant is to study the process of water treatment. Executive Engineer Narayana Murthy, Assistant Executive Engineer Basava Reddy accompanied during the visit. Supervisory Control and Data Acquisition (SCADA) is a system that aims to monitor and control field devices at remote sites. SCADA is a centralized system that monitors and controls the entire water distributor system in an area. This supervisory system gathers data on water drawn and distributed and identifies unaccountable water during distribution. This is system is being explained clearly to students. Total Plant capacity (45MGD) and distribution system is explained. Collection intake well of 11MGD capacity and screening procedure is illustrated. Coagulation (treatment with alum), Flash mixing (violent agitation for mixing of alum with water properly) and flocculation process (to remove precipitate formed due to addition of alum), Sedimentation (removal of bacteria and impurities), filtration (collection of filtered water), disinfection process (Chlorine gas is used to disinfect water) are explained. Students visited the plant and observed complete process of water treatment and distribution of water to different areas of Vijayawada City. Around 60 students has attend this field trip, which in turn they got a brief view about how water is being drawn from the river and converted to drinking water which is being supplied for industrial and domestic purposes.</p>
Photos	

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DEPARTMENT OF CIVIL ENGINEERING

V R SIDDHARTHA ENGINEERING COLLEGE

Event	Seminar on Career Opportunities in EMERGING SECTORS & INDUSTRY 4.0 by Dr. BIPLAB KUMAR BISWAL, Director, KIRLOSKAR INSTITUTE OF ADVANCED MANAGEMENT STUDIES (KIAMS)
Date	25.02. 2022
Beneficiaries	Final year students (88)
Highlights	<p>A Seminar on Career Opportunities in EMERGING SECTORS & INDUSTRY 4.0 has been organized by Dr. BIPLAB KUMAR BISWAL, Director, KIRLOSKAR INSTITUTE OF ADVANCED MANAGEMENT STUDIES (KIAMS). During session they explained about Digital disruption has already happened in detail by below example:</p> <p>The largest movie house owns no cinemas (Netflix), Largest software vendors don't write the apps (Apple/Google), The world's largest taxi company own no taxis (UBER), The largest accommodation provider owns no real estate (Airbnb) etc.,</p> <p>15 years ago Travel Agents would claim that you cannot book vacations online - It needs a personal touch and experience, 10 years ago you would not dream or banking online - Its not safe" 5Years ago few people would buy groceries online.</p> <p>The levers used for its proliferation is explained, like how its connected to sensors, how big data is stored and how predictive analysis does work. Also explained about career oppurtunities like how to Innovate, within each department and gain competitive advantage in the evolving empowering employees, engaging customers transforming products and services, and optimizing operations.</p> <ol style="list-style-type: none"> 1. Logistics & Supply Chain 2. Analytics

- 5. Consulting
- 3. Budgeting & Finance
- 6. Product & Services
- 7. Marketing & Sales
- 4. HR & Recruitment
- 8. Operations & Manufacturing

Students have been enthusiastically participated in this event and have gained knowledge through this seminar which might in turn lead our students to think innovatively and lead them to be future Entrepreneurs.

Photos

VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE (AUTONOMOUS)

Department of Civil Engineering | In association with **ASCE STUDENT CHAPTER**

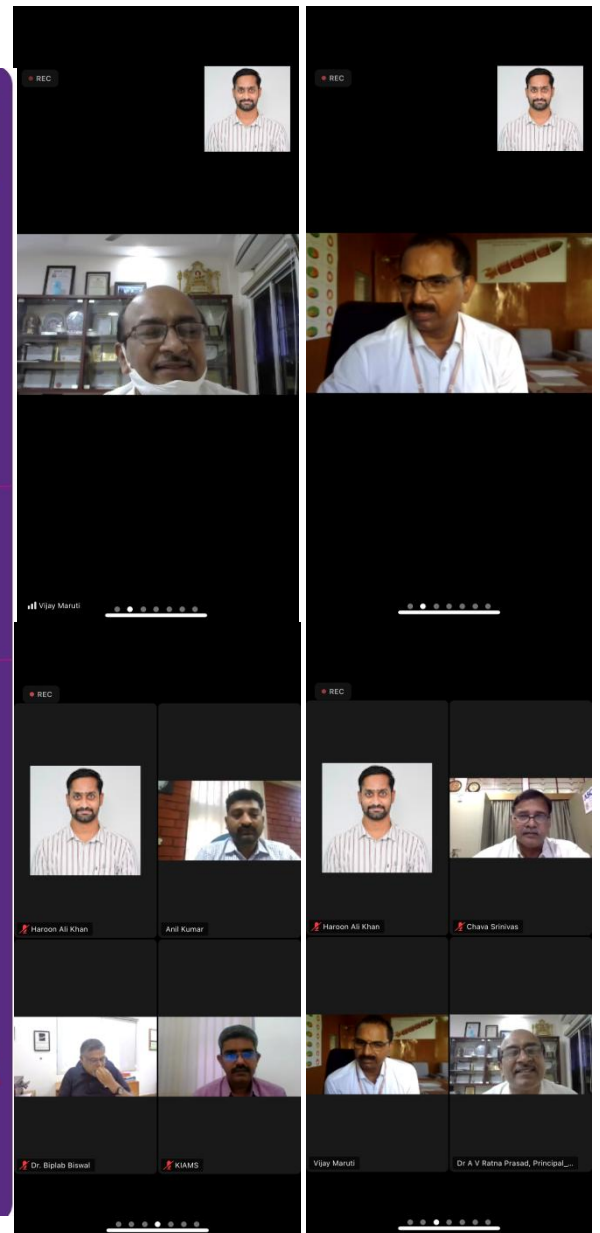
Is inviting Students from Final year **B. Tech Civil, Mechanical, Electrical & instrumentation Engineering** to participate in

Career Opportunities in EMERGING SECTORS & INDUSTRY 4.0

Speaker: Dr. BIPLAB KUMAR BISWAL
Director, **KIRLOSKAR INSTITUTE OF ADVANCED MANAGEMENT STUDIES (KIAMS)**

Session: Friday, 25th February, 2022
Time: 4:00 PM – 5:00 PM

Zoom Link shall be forwarded to STUDENT MAILS

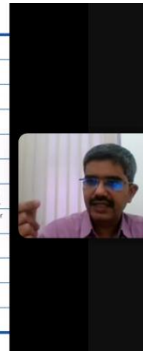


SOME OF THE RELEVANT ROLES

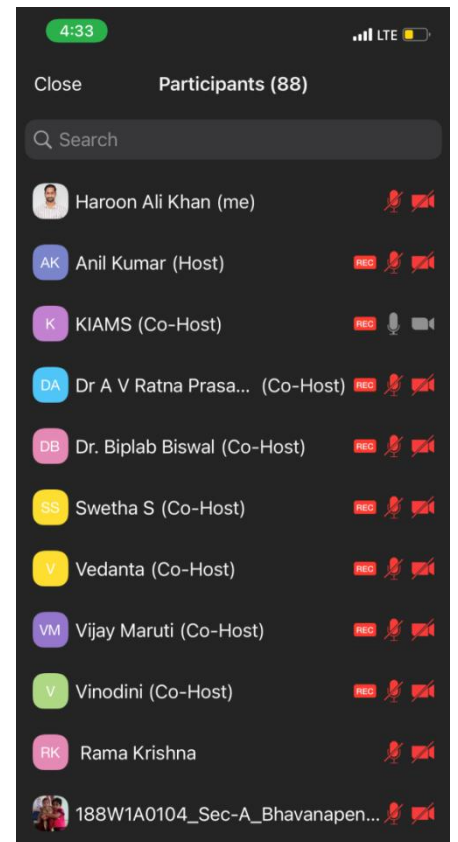
1 Digital Transformation Consultant	8 Digital Asset Maintenance Manager
2 Smart Manufacturing Manager	9 Product Manager- Digital Transformation
3 Factory Automation Manager	10 Digital Supply Chain Manager

Technology	Description
Artificial intelligence and robotics	Development of machines that can substitute for humans, increasingly in tasks associated with thinking, multitasking and fine motor skills.
Ubiquitous linked sensors	Also known as the "Internet of Things." The use of networked sensors to remotely connect, track and manage products, systems and grids.
Virtual and augmented realities	Next-step interfaces between humans and computers involving immersive environments, holographic readouts and digitally produced overlays for mixed-reality experiences.
Additive manufacturing	Advances in additive manufacturing, using a widening range of materials and methods. Innovations include 3D topography of organic tissues.
Blockchain and distributed ledger technology	Distributed ledger technology based on cryptographic systems that manage, verify and publicly record transaction data, the basis of "cryptocurrencies" such as bitcoin.
Advanced materials and nanomaterials	Creation of new materials and nanostructures for the development of beneficial material properties, such as thermoelectric efficiency, shape retention and new functionality.
Energy capture, storage and transmission	Breakthroughs in battery and fuel cell efficiency; renewable energy through solar, wind, and tidal technologies; energy distribution through smart grid systems; wireless energy transfer; and more.
New computing technologies	New architectures for computing hardware, such as quantum computing, biological computing or neural network processing, as well as innovative expansion of current computing technologies.
Biotechnologies	Innovations in genetic engineering, sequencing and therapeutics, as well as biological computational interfaces and synthetic biology.
Geoen지니어ing	Technological intervention in planetary systems, typically to mitigate effects of climate change by removing carbon dioxide or managing solar radiation.
Neurotechnology	Innovations such as smart drugs, neuroimaging and bioelectronic interfaces that allow for reading, communicating and influencing human brain activity.
Space technologies	Developments allowing for greater access to and exploration of space, including microsatellites, advanced telescopes, reusable rockets and integrated rocket jet engines.

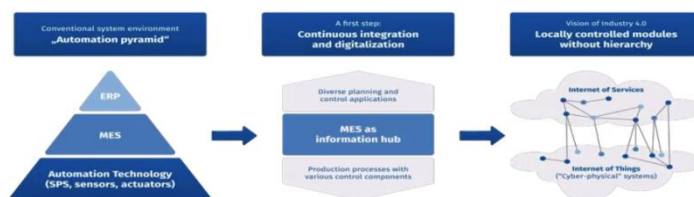
source: World Economic Forum Handbook on the Fourth Industrial Revolution, 2017. WEF Report 2017.



Career Opportunities



TODAY'S FACTORY VS. INDUSTRY 4.0



	Data source	Today's factory	Technologies	Industry 4.0	Technologies
Component	Sensor	Precision	Smart sensors and fault detection	Self-aware Self-predict	Degradation monitoring & remaining useful life prediction
Machine	Controller	Productibility & performance	Condition-based monitoring & diagnostics	Self-aware Self-predict Self-compare	Up time with predictive health monitoring
Production system	Networked system	Productivity & OEE	Lean operations: work and waste reduction	Self-configure Self-maintain Self-organize	Worry-free productivity

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DEPARTMENT OF CIVIL ENGINEERING
V R SIDDHARTHA ENGINEERING COLLEGE

Field Trip To	Polavaram Field Trip
Date	27/03/22
Beneficiaries	3/4 B.Tech (80 Students)
Faculty visited	Dr.K.S.R.Prasad,Dr.Anuja U Charpe, Haroon Ali Khan, B.Sriram
Highlights	Education trip to Polavaram for 3 rd year students has been organized for students such that they can gain knowledge regarding how a spillway is used the gates installed and its functioning, what is lift irrigation, how the lifted water is delivered for irrigation and other purposes and why Polavaram is such a big project at present. Students have witnessed the spillway gates and their control unit at the top of spillway as well as gained practical knowledge of the theoretical subject (Irrigation Structures) which is being taught in this semester from this field trip.

Photos





DEPARTMENT OF CIVIL ENGINEERING
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Event	What's wrong in it?
Date	06/04/2022
Beneficiaries	2 nd year students (40)
Highlights	What's wrong in it? is a unique competition where students are encouraged to learn and revise about their previously completed courses. Also, by conducting it like a quiz by dividing teams at different levels. The students participated actively in this event. They utilized this opportunity very well and impressed the judges and made the event success. E-certificates have been distributed for all participants.

What's Wrong in IT ?



Technical based event

**Date:06th April,2022
(wednesday)**

Venue: CE-II - 105 Seminar Hall





DEPARTMENT OF CIVIL ENGINEERING





V R SIDDHARTHA ENGINEERING COLLEGE

Event	GuestLectureonArchitecturalandStructuralRequirementsforEarthquakeResilientBuildings
Guest Speaker	Dr.SriKalyanaRamaJ,AssistantProfessor,DepartmentofCivilEngineering, Mahindra University,Hyderabad.
Date	14-05-2022
Beneficiaries	Under Graduate & PG Students and faculty (120)
Highlights	<p>Dr. Sri Kalyana Rama J is an Alumni of our college and is presently working as an assistant Professor in Civil Department, Mahindra University, Hyderabad. He has addressed the 2nd & 3rd Year B.Tech Students and 1st Year MTech Students about the Architectural and Structural Requirements for Earthquake Resilient Buildings.</p> <p>He has explained the basic terms related to Earthquake and the reasons for the occurrence of the Earthquake. He has explained how different waves propagate through the layers of the earth during the earthquake and how they affect the structures on different types of surfaces. He later presented the basic configurations for the structures to be followed while planning the structures to withstand during the earthquakes. He also showed how different structures fail during the earthquakes and the importance of the quality of materials and Quality Control during execution to withstand the earthquakes with minimal damages. He later explained the ductile detailing and the concepts during design of the building to withstand the Earthquakes.</p>
Faculty Attended	Mr. B.Sriram, Mr.Sk.Khaja Sameer, Mr. Haroon Ali Khan, Dr. Anuja U Charpe, B.Durga Priyanka.
Outcome	<p>Students have become familiar with the basics related to earthquakes and how earthquakes occur. They are able to understand how different Earthquake waves affect the structures.</p> <p>They have become familiar with the architectural and structural aspects of the structures for earthquake resilience.</p>

VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE
Autonomous Institution Approved by Andhra Pradesh State Council of Higher Education


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**DEPARTMENT OF
CIVIL ENGINEERING**


Welcome to
**Guest Lecture on Architectural
and Structural Requirements for
Earthquake Resilient Buildings**



Dr. Sri Kalyana Rama J,
Assistant Professor,
Department of Civil Engineering,
Mahindra University,
Hyderabad.

On 14th May 2022
From 10:00AM to 12:00 Noon
At Admin Block Seminar hall

Organised by
American Society of
Civil Engineers (ASCE)
VRSEC Student Chapter



ASCE
STUDENT CHAPTER
Velagapudi Ramakrishna Siddhartha
Engineering College

Photos





DEPARTMENT OF CIVIL ENGINEERING
V R SIDDHARTHA ENGINEERING COLLEGE
KOYA SRINIVASARAO ENDOWMENT LECTURE REPORT

Event	Koya Srinivasarao Endowment Lecture
Guest speaker	Dr.Krishna R. Reddy, Professor of Civil and Environmental Engineering, University of Illinois, Chicago, USA.
Date	30-06-2022
Beneficiaries	II/IV & IV/IV UG Students, PG Students (218No's) and Teaching Staff
Faculty Attended	Dr.Chava Srinivas, Dr.Mallikarjuna, Dr.N.R.K.murthy, Dr.Lakshmi Keshav, Dr.V.V.N.Prabhakar Rao, Dr.K.Hanuma, M.R Prasad, B. Sri ram, S.Satish, Y.Suma, T Sujatha.
Highlights	A Koya Srinivasarao Endowment Lecture on “Sustainable Infrastructure: Role of Civil Engineers” was delivered by Dr.Krishna R. Reddy and was organized by IGBC VR Siddhartha student chapter and ASCE VR Siddhartha Students Chapter. He explained about what is sustainability, resilience and sustainable features which are being implemented in the Chicago region and future technologies which are in development and research.

Photos

VRSEC
VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE

DEPARTMENT OF CIVIL ENGINEERING

Welcome you all to join
2nd Koya Srinivasa Rao Endowment Lecture
**on “Sustainable Infrastructure:
 Role of Civil Engineers”**

Dr. Krishna R. Reddy
 Professor
 of Civil and Environmental Engineering,
 University of Illinois, Chicago, USA

Time: 11.00 am, 30 June 2022
Venue: Seminar Hall, Admin Block

Organized by
ASCE VR Siddhartha Student Chapter

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 STUDENT CHAPTER
 Velagapudi Ramakrishna Siddhartha
 Engineering College



