



**REVA**  
UNIVERSITY

Bengaluru, India

Established as per the section 2(f) of the UGC Act, 1956  
Approved by AICTE, COA and BCI, New Delhi



**REVA**

# INSIGHT

VOLUME

**02**

A QUARTERLY NEWS BULLETIN  
OF REVA UNIVERSITY



**NEWSLETTER**  
**APRIL - JUNE 2020**

## Contents

• From the Chief Editor's Desk .....	03
• Our Vision   Our Mission .....	04
• Leadership Talk Series .....	05
• Webinar on “New Financing Opportunities for SME in today’s challenging situation”	
• REVA Career Development Centre	
• Webinar on “Scope of Medical Laboratory Technology”	
• Expert Lecture on “Indo Saracenic Architecture”	
• Five day Webinar on “Amazon Web Services (AWS)”	
• Technical talk on the occasion of Environment Day	
• Career Opportunities in Data Science for Management Graduates	
• Blood Tests for Staff members of REVA University .....	06
• Interdisciplinary Talk on Data Analytics	
• Technical Talk on Industrial IOT	
• Naamam by Mohiniattam MPA Students .....	07
• Webinar on “Digital Yugadalli Kannada Sahityada Swarupa”	
• Webinar on “Technical specifications of Ventilators for COVID-19”	
• Expert Lecture on “Graphical Representation and HVAC Design” .....	08
• Online Hackathon to fight against COVID-19	
• Workshop on “Bridging the Gap between Academics and Industry”	
• Webinar on “Debugging Techniques”	
• Workshop on “Processing of Advanced Materials and its Applications” .....	09
• Roop-Sajja	
• REVA IIC Webinar Series	
• Five-Day Virtual FDP on “Recent Trends in English Language”	
• Interdisciplinary Talk on “Energy Efficiency in Buildings”	
• Workshop on “Processing of Advanced Materials and its Applications” .....	10
• 5-Day Virtual FDP on “Deep Learning and Neural Networks Using Python”	
• Virtual FDP on “Software Applications in Civil Engineering”	
• SDP on “Star Certification on Python Programming”	
• Webinar on “Prominence of Electric Vehicle (EV) in Smart Grid”	
• Webinar on “Stress Management and Relaxation Techniques”	
• Webinar on “Medical Equipments and Medical Devices in Current Industry”	
• Webinar on “Mathematical Modelling and its applications for prediction of BAY OF BENGAL Tropical Cyclones using NWP Model” .....	11
• Guest Lecture on Construction Management	
• 2nd International Conference on “Advances in Computing and Information Technology” .....	12
• 3-Day FDP on “Effective Usage of ICT Tools and E-content Development”	
• Webinar on Data Analytics	
• Research Talk on “METRIC based Evapotranspiration estimation utilizing satellite data”	

## Contents

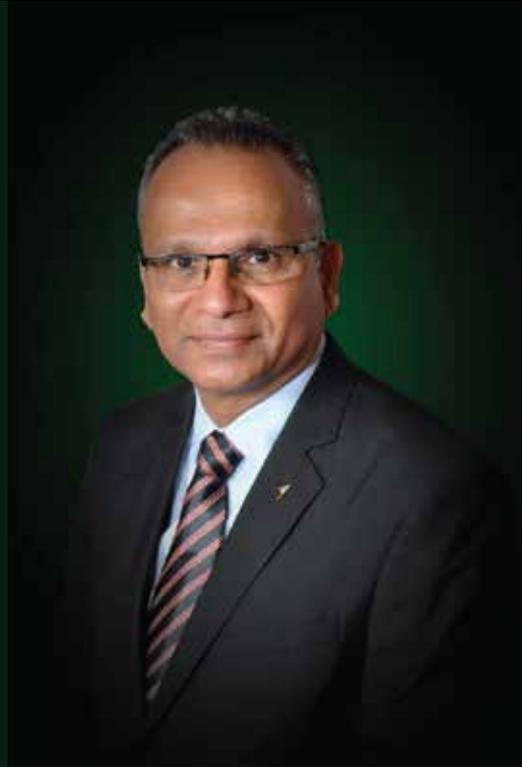
• Webinar on “Switched Capacitor Multilevel Inverters: Topology Synthesis and Modulation”	13
• Webinar on “Introduction to CFD with Practical Insights”	
• Webinar on “Shock Waves in Materials”	
• Alumni Talk on “Technologies incorporated in today’s IT Telecom Industry”	
• Guest Lecture on “Applications of Structural Systems & Building Construction”	
• Webinar on “Research Issues in Development of Sensor Networks for Smart Grid”	
• 7-Day Virtual FDP on “Vehicle Dynamics”	14
• Webinar on “Quality Scientific Writing-Skills for Academicians”	
• Talk on Earthing Practices in Electrical System	
• Webinar on “New Product Development”	
• Webinar on “Future of Jobs and Economy : Post Covid-19”	
• Guest Lecture on “Thinking the Transformation”	15
• Webinar on “Internet of Things Security”	
• Webinar on “Vastu is a Science or Astrology”	16
• Webinar on “Symmetry and Group Theory for CSIR/UGC/NET/SLET”	17
• Skill Development Program	
• 5-Day Virtual FDP on “Solar Energy-The Future is Bright”	
• Webinar on “Career Opportunities in Government Sector”	
• Research Talk	
• Webinar on “Social Entrepreneurship-Need of the hour during COVID-19”	
• Webinar on “Forensic Science in Crime Investigation”	18
• Webinar on “Research Tools”	
• Webinar on “Robotic Simulation for BIW Welding”	
• Orientation Program on “Clinical Trial Management”	
• Research talk on “Magnetic field harvesting system for monitoring devices in smart grids”	
• Webinar on “Nuclear Energy : Myth v/s Reality”	
• Webinar on “Metallic Materials Structure Property Correlations”	19
• Webinar on “Ultimate Truth of Life - Finding Happiness”	
• 1st International Conference on “Recent Trends in Electronics and Communication Engineering”	
• Technical Talk on “Structural Modelling for Area Optimization using Gate Level Implementation of SPI for Microcontroller”	
• Webinar on “Introduction to AI Frameworks”	
• Programmes Offered by REVA University	20

## From the Chief Editor's Desk

*"Our very survival depends on our ability to stay awake, to adjust to new ideas, to remain vigilant and to face the challenge of change." – Martin Luther King Jr.*

During this unprecedented COVID-19 pandemic, the survival of human beings all over the globe has been greatly challenged. It has led to a lot of disruption in education and well-being of human beings. Its impact has caused severe turbulence by the way of uncertainty in terms of economy and existence.

Under these circumstances, the world is undergoing a major transition, resulting into a new normal to overcome the situation with innovative methods of work culture. Work from Home (WFH) and Online Classes are being used as the new normal strategies. Imparting education has emerged as a greater challenge amidst the adversity caused by the pandemic. Inclusion of online platforms and also blended mode for carrying out academic activities and establishing teacher-student connectivity amidst lockdown are praise-worthy initiatives.



REVA University, as always, is ready to take up any challenge and upholding the students' benefit, has taken the initial lead by suitably reacting to the crisis. The University has ensured that the uncertainty will no way affect the lives of its students and faculty members by adopting online mode of education delivery. The University has taken care to sensitize the stakeholders and has procured all the required technological tools required for the transition. While catering to the online requirements, the physical campus has also been made ready as per protocols meeting the global safety and hygiene standards.

The University has been successful in serving to the academic needs of thousands of its students through online platform. However, it is not sufficient to fulfil the academic needs alone. With the world's transition to online platform, there has been a flood of knowledge sharing and the psychological implications of mankind's isolation have gone unnoticed. Depression, Social distancing, Quarantine and New normal, are words that send a chill down the spine as we battle the pandemic. Hence, the pertinent question is, 'How do we contribute to the overall well-being of the emerging student community and the society?'

REVA University's 'Mentoring' initiative has played a vital role in addressing the mental well-being of our student and staff. Our teaching fraternity has reached out to every student, addressing their academic and personal needs. With our students spread across the globe, facing various challenges in the last couple of months, we have stood by them, comforting in the moments of need. Our teachers have also reached out to the parents regularly. We have evolved every day since the major lockdown in our country facing the 'Challenges of Change' and maintained normalcy at the campus with committed efforts of our staff under the leadership of our beloved Chancellor, who has taken personal care in every aspect.

Our regular awareness initiatives to the public about the pandemic, the involvement of our NCC cadets in the forefront of fighting COVID 19, the frequent recognition of the university by various assessment bodies are embodiment of REVA University's commitment towards the society. The educators of REVA University have stood true to our motto 'Knowledge is Power' and are contributing tirelessly to the making of a better world.

As we start the new academic year with a greater hope towards a better tomorrow, I wish a very happy academic engagement to all our staff and students.

**Dr. K. Mallikharjuna Babu**  
Vice Chancellor  
REVA University



**“One ASSOCIATION  
for many GREAT CAREERS”**

## Our Vision

“REVA University aspires to become an innovative University by developing excellent human resources with leadership qualities, ethical and moral values, search culture and innovative skills through higher education of Global Standards”

## Our Mission

- To create excellent infrastructure facilities, state-of-the-art laboratories and incubation centres
- To provide student-centric learning environment through innovative pedagogy and education reforms
- To encourage research and entrepreneurship through collaborations and extension activities
- To promote industry-institute partnership and share knowledge for innovation and development
- To organise society development programs for knowledge enhancement in thrust areas
- To enhance the leadership qualities among the youths and enrich personality traits and promote patriotism and moral values

### Chief Patron :

**Dr. P. Shyama Raju**  
Chancellor

### Chief Editor :

**Dr. K. Mallikharjuna Babu**  
Vice Chancellor

### Patrons :

**Dr. M. Dhanamjaya**, Registrar  
**Dr. N. Ramesh**,  
Dean - Training, Placement & Planning

### Editor :

**Dr. Payel Dutta Chowdhury**,  
Director, School of Arts & Humanities

### Coordinators :

**Anupama B. N** Assistant Professor, School of Arts & Humanities  
**Manjunatha M** Assistant Professor, School of Arts & Humanities  
**Sudeshna Das** Assistant Professor, School of Arts & Humanities

## Leadership Talk Series

REVA IIC in association with MHRD Innovation Cell has conducted a Leadership Talk Series from 7th April to 23rd May 2020. 1424 students and 200 faculty members from REVA University participated in the program.

## Webinar on “New Financing Opportunities for SME in today’s challenging situation”

In collaboration with All India Manufacturing Organisations - (AIMO) and ecosystem partners with SOLUTION BUGGY, REVA NEST TBI & ROTARY 3190; Info wise Startups Catalyst (AIF FUND) has hosted a webinar on “New Financing Opportunities for SME in today’s challenging situation” on 24th June 2020 at a pan India lev

## REVA Career Development Centre

The REVA CDC conducted enrolment process of final year students for placement training. A marathon induction program was conducted on how to prepare for virtual interview and also about upcoming challenges in the new normal.

Various recruiters have shared their virtual on-boarding schedule for already recruited 2020 batch students. Many companies like Capgemini, Mindtree, Hewlett Packard Enterprise, Endurance, TATA Elxsi, DXC Technology and Eurofins have shared their prospective hiring strategy and also acknowledged talents hired from REVA through Corporate - Campus virtual meet.

## Webinar on “Scope of Medical Laboratory Technology”

The REVA CDC conducted enrolment process of final year students for placement training. A marathon induction program was conducted on how to prepare for virtual interview and also about upcoming challenges in the new normal. Various recruiters have shared their virtual on-boarding schedule for already recruited 2020 batch students. Many companies like Capgemini, Mindtree, Hewlett Packard Enterprise, Endurance, TATA Elxsi, DXC Technology and Eurofins have shared their prospective hiring strategy and also acknowledged talents hired from REVA through Corporate - Campus virtual meet.

## Expert Lecture on “Indo Saracenic Architecture”

The School of Architecture organized an expert lecture on “Indo Saracenic Architecture” by Ar. Anup Kumar Prasad on 6th April 2020 for 4th Semester students. He elaborated about the features of Indo Saracenic Architectural features using different examples, and quoted major colonial features in combination with the prevailing architectural feature of the region. The session motivated students to understand and identify major features of the architectural style.

## Five day Webinar on “Amazon Web Services (AWS)”

The School of Computing & information Technology organised a 5-day Virtual Webinar on “Amazon Web Services (AWS)”. The webinar focused on Service Models, Object and Block Storage, AWS shared security model, Monitoring using cloud watch, DevOps concepts and so on.

## Technical talk on the occasion of Environment Day

The School of Civil Engineering under the aegis of Parisara Club organized a technical talk on the occasion of Environment Day on the topic “GIS and Its Applications in Environmental Engineering” on 5th June 2020. The talk was delivered by Dr. M. A. Nagesh, Professor, School of Civil Engineering.

## Career Opportunities in Data Science for Management Graduates

The School of Commerce and the School of Management Studies organized a webinar on 16th May 2020 by Dr. Suresh Kandulapti, Lead Data Scientist, Tek Systems Global Services, Hyderabad. The webinar focused on career opportunities in Data Science for MBA and M.Com- II & IV Sem students. He listed few skill-sets which need to be obtained by the management graduates in order to enter to the job market.

### Blood Tests for Staff members of REVA University

The REVA CDC conducted enrolment process of final year students for placement training. A marathon induction program was conducted on how to prepare for virtual interview and also about upcoming challenges in the new normal. Various recruiters have shared their virtual on-boarding schedule for already recruited 2020 batch students. Many companies like Capgemini, Mindtree, Hewlett Packard Enterprise, Endurance, TATA Elxsi, DXC Technology and Eurofins have shared their prospective hiring strategy and also acknowledged talents hired from REVA through Corporate - Campus virtual meet.



### Interdisciplinary Talk on Data Analytics

The School of ECE organized an interdisciplinary talk on “Data Analytics: Opportunities in spite of Pandemic” on 1st June 2020. The resource person was Prof. Nimrita Koul, Assistant Professor, School of C&IT, REVA University. The talk highlighted on some of the challenges in the area of Data Analytics.

#### Data Analytics Process



Collect Data



Analyse Data



Create Reports

Activate Windows

### Technical Talk on Industrial IOT

The School of Mechanical Engineering had organized a technical talk for faculty members of Mechanical Engineering, REVA University on “Industrial IOT” on 19th April 2020. The talk was delivered by Mr. Arun Raj, Adrio-tec Engineering. The talk was arranged to give an exposure on Internet of Things applicable to Industry.



## Naamam by Mohiniattam MPA Students

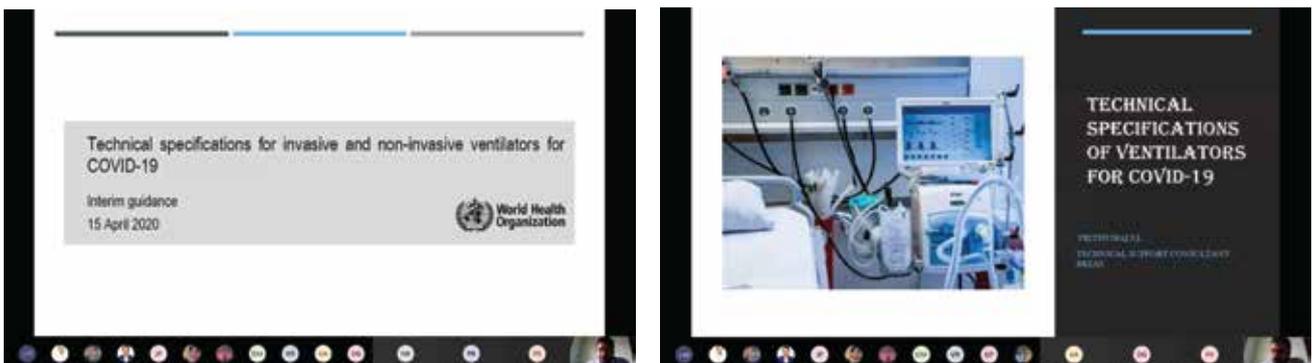
The students of Mohiniyattam, School of Performing Arts, REVA University, choreographed a heart-warming dance, a prayer to the Almighty, for the well being of all the living and non living beings on earth and seeking his help to give us strength during the current crisis. The music was courtesy of Zee Keralam and inspired the dancers to create this soulful piece.

## Webinar on “Digital Yugadalli Kannada Sahityada Swarupa”

The School of Arts and Humanities organized a Kannada webinar on “Digital Yugadalli Kannada Sahityada Swarupa” (Nature of Kannada Literature in the digital world) on 22nd June 2020. The resource person was Dr. Arun Jolada Koodligi from Kannada University, Hampi, Karnataka. Dr. Koodligi enlightened the participants about the challenges and possibilities of Kannada literature in the digital world. In the interest of digitalizing Kannada literature, he also elucidated how some organizations such as Ruthumana, Book Brahma, and Alisiri have contributed immensely. They have started to transmute the regional Kannada literature towards digitalization. Overall, the session helped the participants to appreciate Kannada literature in the digital form. Around 700 participants from all over the state registered online and actively participated in the session.

## Webinar on “Technical specifications of Ventilators for COVID-19”

The Department of Biochemistry, School of Applied Sciences, organized a Webinar on “Technical specifications of Ventilators for COVID-19” on 23rd May 2020. The resource person was Mr. Prithviraj S.J., Technical support consultant, Breas Medical and Founder of P.K. Respiratory Solutions. The talk focused on the basics of mechanical ventilation, WHO guidelines on technical specifications for COVID-19 related patients and COVID-19 management protocol for hospitalized patients. Around 125 participants attended the webinar.



## Expert Lecture on “Graphical Representation and HVAC Design”

The School of Architecture organized an expert lecture on “Graphical representation and HVAC design” for 6th semester students. This online expert lecture was connected using MS Teams platform on 16th and 18th April 2020. The resource person elaborated on the graphical representation, parameters to consider and calculation of HVAC design to draft a plan and section for a Public/Commercial building. Students actively participated and produced a HVAC project based on this lecture.

## Online Hackathon to fight against COVID-19

The School of Computing and Information Technology, with an aim to encourage and provide a platform to students to show case their talents and innovative ideas in developing projects through coding and using latest technologies in this COVID-19 pandemic, took an initiative to organize Online Hackathon to fight against COVID-19 from 6th May to 31st May 2020. This online hackathon was supported by GitHub. 28 Teams comprising of 111 participants (including students and faculty members from REVA University) actively participated in this online Hackathon.

## Workshop on “Bridging the Gap between Academics and Industry”

The School of Commerce and the School of Management Studies organized a workshop on “Bridging the Gap between Academics and Industry” - Management Foundation Workshop Series 2020 – Operations and International Business on 20th May 2020. D. Eregamani, Founder and Director, MAPLE Tech Solution, was the resource person. He focused on the various roles that an MBA – IB specialization student can explore, such as, Import/Export, Translator, Foreign currency investor advisor, Foreign sales representative, International management consultant etc. He mentioned that various companies, such as, Tech Mahindra, IBM, Google and many IT and other sectors hire students with IB specialization.

**REVA UNIVERSITY**  
Bengaluru, India  
Established as per the section 2(f) of the UGC Act, 1956  
Approved by AICTE, COA and PCI, New Delhi

IGWUGE GOLD | NIRF | INSTITUTIONS INNOVATION COUNCIL  
MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA) | KSURF

**School of Management Studies**  
Organises

**Management Foundation Workshop Series 2020**  
**Operations and International Business**

Guest Speaker  
**D. Eregamani**  
Founder & Director - MAPLE Tech Solutions, Hosur & Chennai (Branches)

Date : 20<sup>th</sup> May, 2020  
Time : 10.00 A.M.

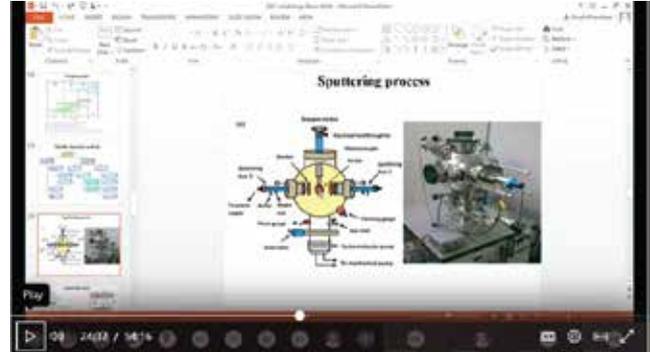
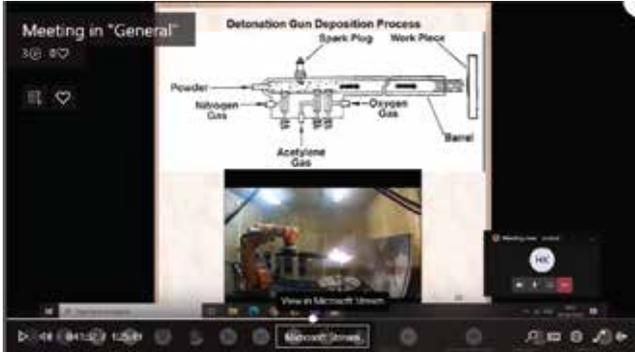
[www.reva.edu.in](http://www.reva.edu.in)

## Webinar on “Debugging Techniques”

The School of CSA organized a webinar on “Debugging Techniques” on 9th May 2020. Mr. Ravindra Kondekar, Software Scientist, Fintech Company, USA, was the resource person. The webinar provided a platform for students to gain understanding on Bug Prevention and Defensive Programming. The session covered spotting and fixing the number of bugs or defects in software. Students were introduced to various types of debugging strategies like debugging by Brute Force, Induction strategy, Deduction strategy, and Backtracking strategy.

## Workshop on “Processing of Advanced Materials and its Applications”

The School of Mechanical Engineering organized a one-day online workshop on “Processing of Advanced Materials and its Applications” sponsored by DST-SERB on 6th June 2020, for faculty members, industry personal and members of various scientific labs. Around 70 participants attended the workshop. This workshop focused on advanced processing of new and emerging materials, and advanced manufacturing systems based on specific applications.



## Roop-Sajja

The School of Performing Arts organized a dance make-up workshop titled “Roop-Sajja” on the 28th and 29th of June 2020 by Sri. Prince T. Narayan, on the Aharya (makeup and costumes) of Indian Classical dance forms and its immense significance to the visual arts arena. The outward appearance of a performer is as significant as the characters portrayed and pieces executed on stage. This workshop was attended by B.A. PaEP and MPA students of the School of Performing Arts and was truly a value addition for them as they learnt all about presentation skills with respect to dance makeup and accessories.

## REVA IIC Webinar Series

REVA IIC organized a host of webinars in the last few months. In order to enable the staff and students of technical institutes to get meaningful contents in Entrepreneurship and Startups, REVA IIC in association with MHRD Innovation Cell, conducted a Webinar Series from 1st May to 22nd May 2020. 1281 students and 421 faculty members participated in this program.

Aspire Media in association with REVA NEST hosted a Webinar on 6th June 2020 on “Market your Business with Zero Budget”.

Aspire Media in association with REVA NEST hosted another Webinar on 20th June 2020 on “Digital Education & New opportunities for Indian SME”.

## Five-Day Virtual FDP on “Recent Trends in English Language”

The School of Arts and Humanities organized a five-day Faculty Development Programme on “Recent Trends in English Language Teaching” from 22nd June to 26th June 2020 through Microsoft Teams. Faculty members from many universities and colleges throughout India and the in-house faculty members of the school attended the FDP. There were around 350 participants. The speakers delineated on the multi-dimensional perspectives related to the recent trends in English Language Teaching. They focused on the importance and future of English Language Teaching and suggested various strategies to make virtual learning enjoyable. They focused on the application of Bloom’s Taxonomy in the domain of evaluation and the strategic use of the blended approach - ELT and Soft Skills in the domain of teaching.

## Interdisciplinary Talk on “Energy Efficiency in Buildings”

The School of Architecture organized a lecture on “Energy Efficiency in Buildings” by Prof. Rajesh Malik for interdisciplinary lecture series for the faculty members of the School of Electrical and Electronics Engineering and Mechanical Engineering on 23rd April 2020. The lecture focused on introduction to energy efficiency in buildings and calculation of energy audits, operational and embodied energy.

### Workshop on “Processing of Advanced Materials and its Applications”

The Department of Mathematics, School of Applied Sciences, had organized a webinar on “Facts for publishing research journal and applications of partial differentiation” on 24th June 2020. The resource person for the webinar was Dr. K. Venkateswarlu, Principal Scientist, CSIR-NAL Bangalore. The webinar touched upon aspects such as publication ethics, citation index, presentation techniques, H-Index, etc.

### 5-Day Virtual FDP on “Deep Learning and Neural Networks Using Python”

The School of C&IT conducted a 5-day Virtual FDP on “Deep Learning and Neural Networks Using Python” from 1st to 5th June 2020. The FDP was intended to bridge the skill gap and provide a practical experience in Deep learning using Python to faculty members.

### Virtual FDP on “Software Applications in Civil Engineering”

The School of Civil Engineering had organized a virtual FDP on “Software Applications in Civil Engineering” from 24th to 26th June 2020. The FDP focused on Google Sketch up and introduced the participants to modelling terminology and concepts. The resource persons for the FDP were Mr. Manjunath Reddy Proprietor, SAI CADD, Bengaluru; Ms. Tejaswi S, Centre Head, EDUCADD, Bengaluru; Mr. Koushik K. A., Associate Executive Director – Structures Chetana Engineering Pvt Ltd., and Dr. Nirajan Hiremath Associate Professor, REVA University, Bengaluru.

### SDP on “Star Certification on Python Programming”

A five day SDP on “Star Certification - Python Programming” was organized by the School of CSA from 29th April to 5th May 2020. The Resource Person was Dr. Bhushan Ashok Jadav, Professor, Thadomal Shahani Engineering College, Mumbai. The SDP was a comprehensive training program to upgrade students’ programming skills in Python as nowadays it is one of the preferred programming languages in the Corporate Domain. The training program provided a platform for the students to update right from the basics of writing and running Python scripts to more advanced features such as File Operations, Regular Expressions, working with binary data, and using the extensive functionality of Python modules.

### Webinar on “Prominence of Electric Vehicle (EV) in Smart Grid”

On 25th May 2020, the School of Electrical and Electronics Engineering in association with IEEE Bangalore section, IEEE PES Bangalore Chapter & REVA University IEEE PES Student Branch Chapter conducted a webinar on “Prominence of Electric Vehicle (EV) in Smart Grid”. The lecture was carried out online on Cisco webex platform and delivered by Dr. Santoshkumar Hampannavar, Professor, School of Electrical and Electronics Engineering, REVA University. The basic objective of the session was to provide an introduction to electric vehicles and smart grids, challenges in integration of electric vehicles and smart grids, V2G concept and grid system frequency control.

### Webinar on “Stress Management and Relaxation Techniques”

The Department of Psychology, School of Arts and Humanities, organized an experiential webinar on 22nd June 2020 on the topic “Stress Management and Relaxation Techniques.” Ms. Jaishree. K, Child and Rehabilitation Psychologist, Sand Grains Child Psychological Services, Hyderabad was the resource person for the webinar. During this time of global pandemic of COVID-19, people are faced with stressful situation. Ms. Jaishree. K discussed about the nature of stressors, need for an optimal level of stress to keep humans beings motivated and different coping strategies. In the experiential session, the participants could learn how to do power breathing exercises to relax in stressful situations. She also shed light on how our perceptions influence our stress levels and emphasized the need to reframe one’s thought process and thereby handle the stressful situations.

### Webinar on “Medical Equipments and Medical Devices in Current Industry”

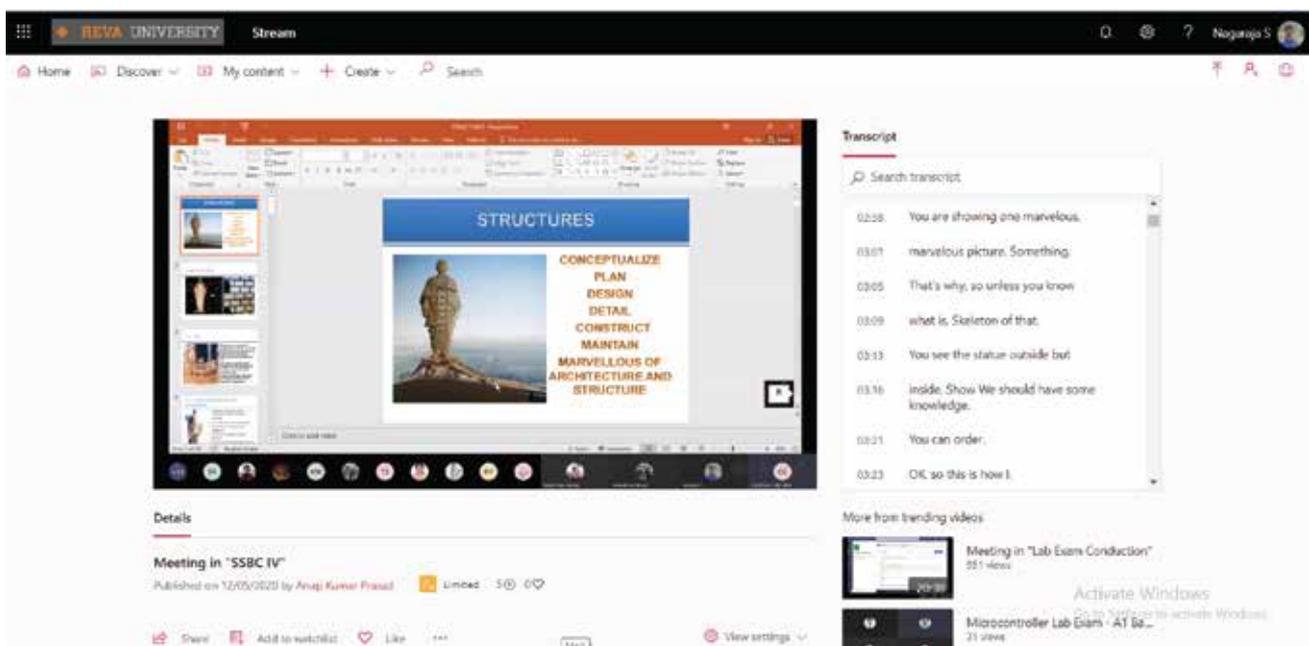
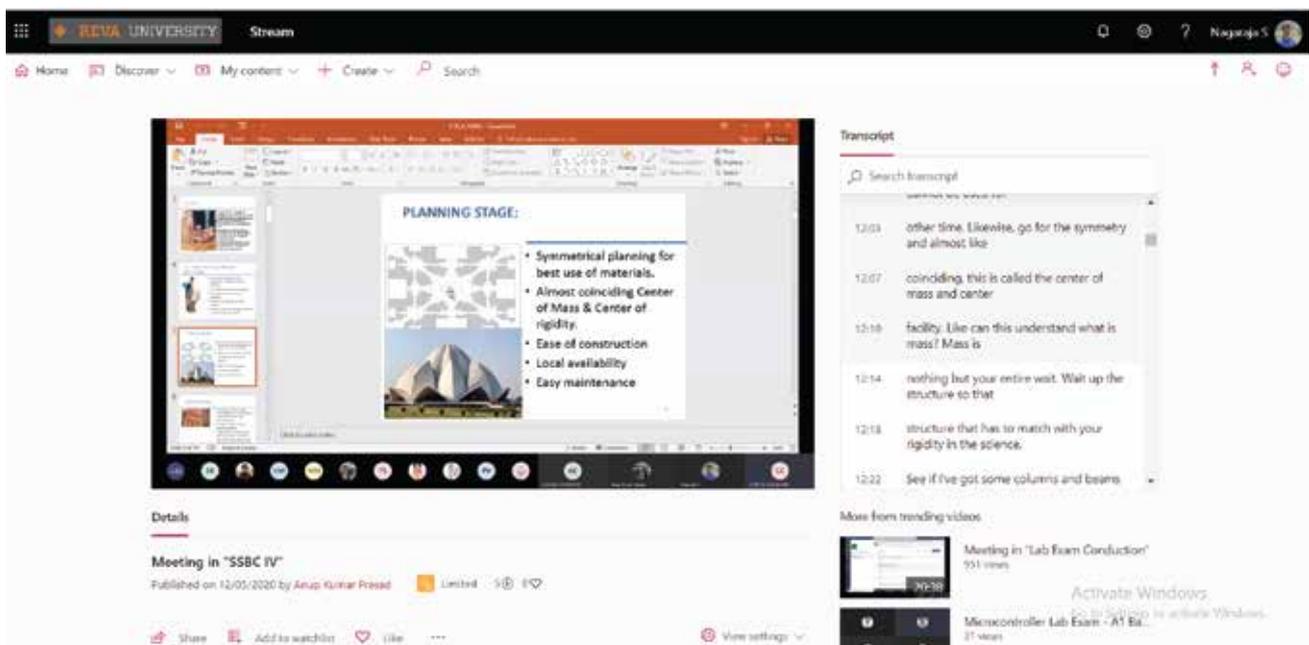
The School of Mechanical Engineering in association with Thermetics Engineering Solutions had organized a Webinar on “Medical Equipments and Medical Devices in Current Industry” on 13th June 2020. The resource person was Mr. Venkat Reddy.

## Webinar on “Mathematical Modelling and its applications for prediction of BAY OF BENGAL Tropical Cyclones using NWP Model”

The Department of Mathematics, School of Applied Sciences, had organized a webinar on “Facts for publishing research journal and applications of partial differentiation” on 24th June 2020. The resource person for the webinar was Dr. K. Venkateswarlu, Principal Scientist, CSIR-NAL Bangalore. The webinar touched upon aspects such as publication ethics, citation index, presentation techniques, H-Index, etc.

## Guest Lecture on Construction Management

The School of Architecture organized a guest lecture by Ar. Gaurav for 10th semester students on 4th May 2020. The session started with the introduction of various software used for the construction management and then dealt with MS Project. The details about the usage of the software, its interface and working were explained with a live project for better understanding. Students were able to appreciate the importance of Construction management in building industry, different software used, Project Scheduling in MS Project, interdependence of time and cost in project management.



## 2nd International Conference on “Advances in Computing and Information Technology”

The School of C&IT conducted its second international conference on 29th and 30th April 2020 on “Advances in Computing and Information Technology”. Around 500 papers were submitted by authors from various universities across the nation among which 290 papers were selected for presentation out of which 216 papers were published in a Scopus indexed journal and 74 papers were published in a Google scholar journal.

Participants were given in depth knowledge on various topics like Artificial intelligence, Robotics & automation, IOT-Concepts -- Performance Modelling and Applications -- a Perspective View, Neural Natural Language Generation. Highly reputed speakers like Dr. Prahlad Vadakkepat from National University Singapore, Dr. Shirshu Varma from IIIT Allahabad, Dr. Yaji Sripada from University of Aberdeen, Scotland addressed during the keynote sessions.

## 3-Day FDP on “Effective Usage of ICT Tools and E-content Development”

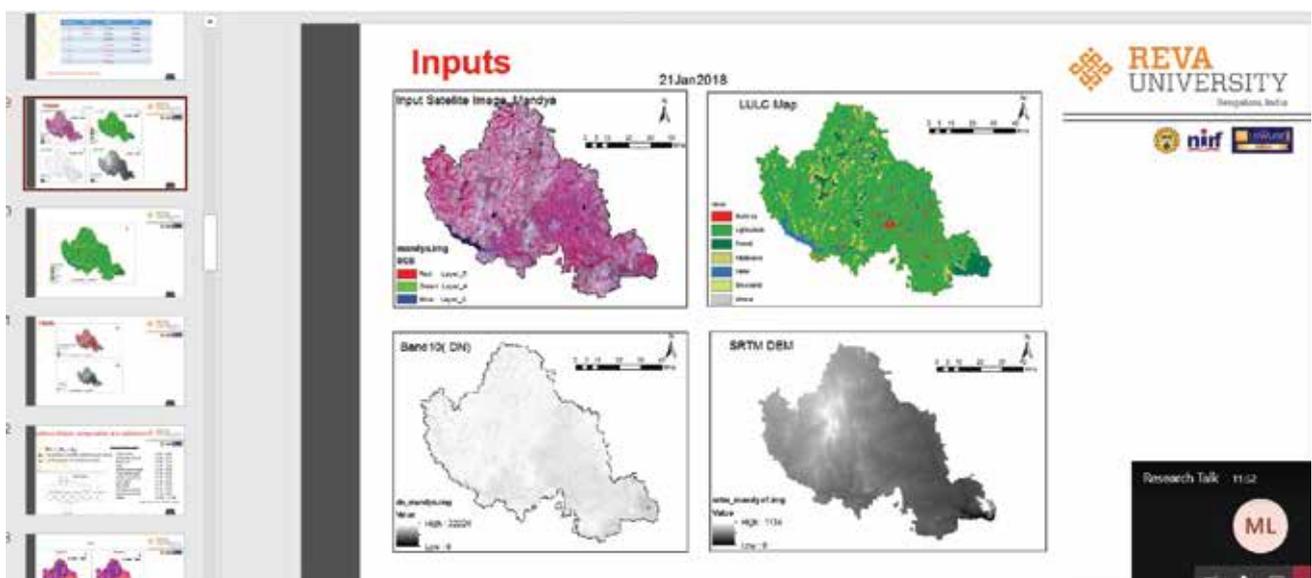
The School of Commerce and the School of Management Studies had organized a 3-day FDP on “Effective Usage of ICT Tools and E-content development” from 15th to 17th June 2020. The resource person was Mr. Nitesh Bhatia, who gave an overview on the different ICT Tools and developing high quality e-content to make teaching-learning process better. The resource person enlightened on the available online software and OERs through which the appropriate content for the e-content development could be extracted. He also highlighted the importance of OERs and software like Menti-meter, Presentation tube, Screen Casting and many others for effective engagement of students in teaching-learning process.

## Webinar on Data Analytics

The School of CSA organized a webinar on Data Analytics on 29th of June 2020. The resource person was Mr. Suprit Tumkur, Big Data architect, Parrot analytics, Auckland, New Zealand. The session focused on how Data Analytics is used in many of the online media streaming services. He discussed about the importance of real-time analytics and the analysis of data usages by the consumers. Emphasis was provided on how the visualization of the real time customer behavior gives useful insights.

## Research Talk on “METRIC based Evapotranspiration estimation utilizing satellite data”

The School of Electronics and Communication Engineering organized a research Talk on “METRIC based Evapotranspiration estimation utilizing satellite data” by Prof. Aryalekshmi B. N. The research talk was conducted online on Microsoft Teams platform for M.Tech DCN students. The session was interactive and students of school of ECE benefited in understanding the application of engineering concepts in satellite images for agricultural applications.

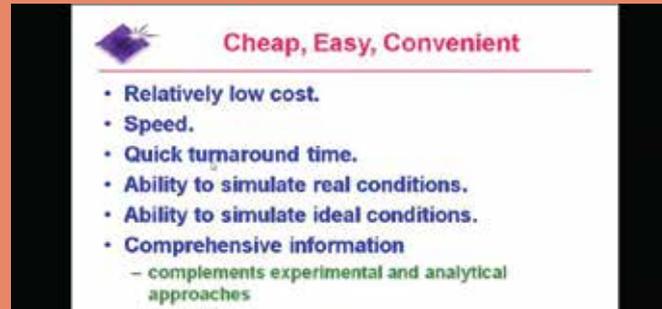


## Webinar on “Switched Capacitor Multilevel Inverters: Topology Synthesis and Modulation”

The School of Electrical and Electronics Engineering organized a webinar on “Switched Capacitors Multilevel Inverters: Topology Synthesis and Modulation” on 27th May 2020. The lecture was delivered by Dr. Sandeep N, Assistant Professor, Department of Electrical Engineering, MNIT, Jaipur, India. The objectives of the session were to present an introduction to multilevel inverters and topologies, and Sensor less voltage balancing of FC.

## Webinar on “Introduction to CFD with Practical Insights”

The School of Mechanical Engineering had organized a Webinar on “Introduction to CFD with Practical Insights” on 13th June 2020. Mr. Chakrapani Addaguduri, Operations Manager at ACRi, was the resource person. Computational fluid dynamics or CFD analysis is one of the key analysis methods used in engineering applications. The origins of CFD lies in the mankind's efforts to better understand the power of natural elements like wind, storms, floods, or sea waves.



## Webinar on “Shock Waves in Materials”

The Department of Physics, School of Applied Sciences, organised a webinar on “Shock Waves in Materials” on 16th May 2020. The talk was delivered by Venkata Ramudu, DMRL, DRDO Scientist, Hyderabad. The session covered various techniques used for blast protection and armour protection using shock waves.

## Guest Lecture on “Applications of Structural Systems & Building Construction”

The School of Architecture organized a guest lecture by Er. Sangeeta Chachadi on 12th May 2020 on “Applications of Structural System & Building Construction”. The session elaborated on the introduction of conceptualizing of plan, design, detailing, construction, maintenance, marvels of architecture and structure and facts in construction. She also emphasized on the need for the architect to learn structures. Through the lecture students were exposed to various topics like importance of soil, types of foundations, ground improvement techniques, foundation failures, loads and forces on structure, process of structural design, design stages, calculation of quantities of steel, cement and aggregates, structural design and drafting softwares.

## Alumni Talk on “Technologies incorporated in today’s IT Telecom Industry”

The School of Electronics and Communication of Engineering organized a webinar on “Technologies incorporated in today's IT Telecom Industry” on 25th May 2020. The resource person was Mr. Pradeep Kumar G N, Test Environment Lead, NTT DATA from London, United Kingdom. The webinar was on the current technology in the IT Telecom Industry. The resource person enlightened the attendees on DevOps deployment Methodology, Telecom Architecture, CRM Integration, Adapters & Interfaces and career path for the students.

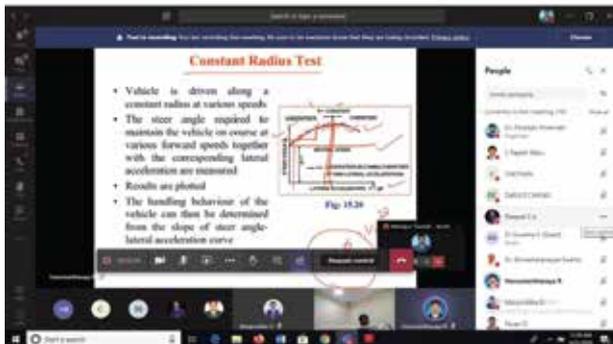
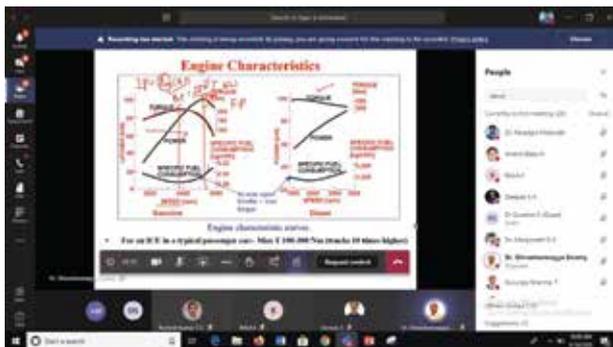
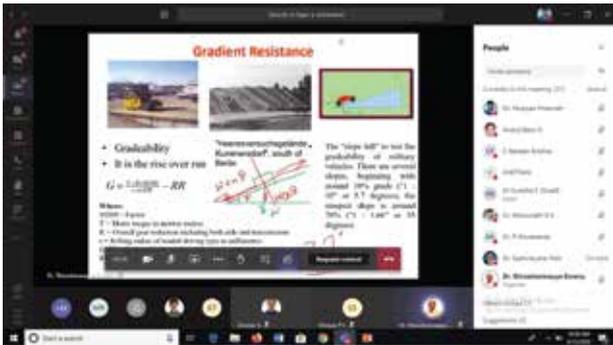


## Webinar on “Research Issues in Development of Sensor Networks for Smart Grid”

The School of Electrical and Electronics Engineering organized a webinar on “Research Issues in Development of Sensor Networks for Smart Grid” on 15th June 2020. The lecture was delivered by Dr. Venkat Lakshmi Narayana, Associate Professor, SELECT, VIT Vellore. The objective of the session was to focus on Smart grid and Wireless sensor network.

### 7-Day Virtual FDP on “Vehicle Dynamics”

The School of Electrical and Electronics Engineering organized a webinar on “Switched Capacitors Multilevel Inverters: Topology Synthesis and Modulation” on 27th May 2020. The lecture was delivered by Dr. Sandeep N, Assistant Professor, Department of Electrical Engineering, MNIT, Jaipur, India. The objectives of the session were to present an introduction to multilevel inverters and topologies, and Sensor less voltage balancing of FC.



### Webinar on “Quality Scientific Writing-Skills for Academicians”

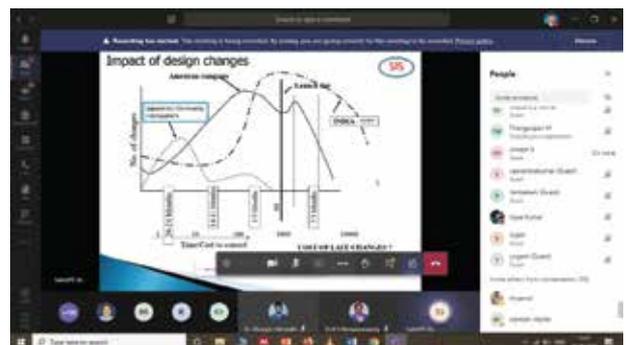
The Department of Physics, School of Applied Sciences, organized a webinar on “Quality Scientific Writing-Skills for Academicians” on 25th May 2020. The resource person was Dr. W. Madhuri, Associate Professor, Centre for Crystal Growth, School of Advanced Sciences, Vellore Institute of Technology, Vellore. The session was a great learning experience for the final year M.Sc. students who are preparing their final year project reports and also for the research scholars which would help them to go-through the peer review process of the journals.

### Talk on Earthing Practices in Electrical System

The School of EEE organized an expert talk on 19th June 2020 on “Earthing Practices in Electrical System” for the technical staff of the school. The expert training was delivered by Dr. Rajashekar P Mandi, Director, School of Electrical and Electronics Engineering. The lecture focused on earthing in residential areas, importance of earthing, difference between earthing and neutral, earthing in substation.

### Webinar on “New Product Development”

The School of Mechanical Engineering in association with SIS Pvt Ltd. organized a webinar on “New Product Development” on 20th June 2020. The resource person was Mr. P. S. Satish, Director SIS Pvt Ltd. New Product Development (NPD) is a comprehensive set of multi-disciplinary processes that transform a market opportunity into a marketable new product to satisfy customer requirements.

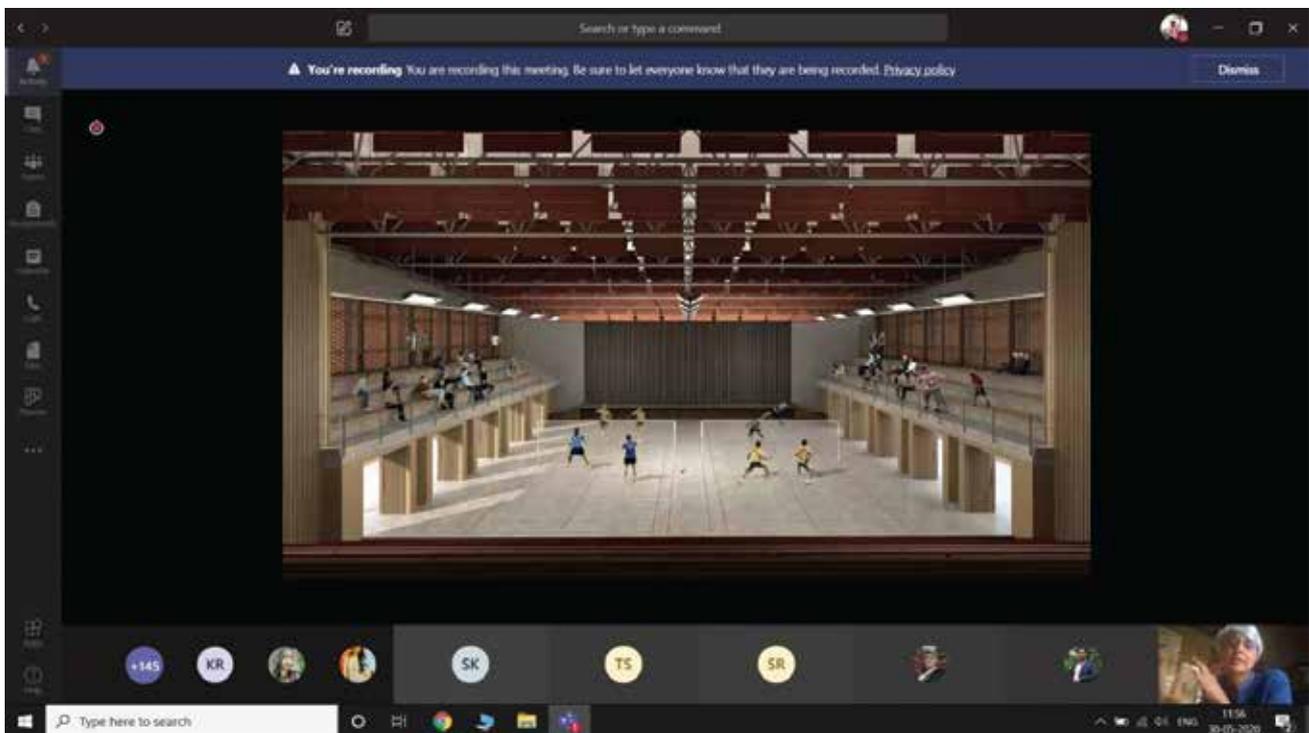
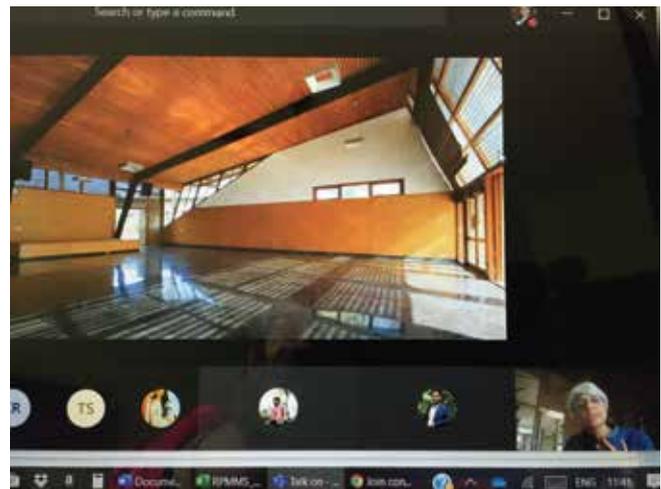


### Webinar on “Future of Jobs and Economy: Post Covid-19”

The Department of Chemistry, School of Applied Sciences, under the aegis of the Nature Club conducted a webinar on “Future of Jobs and Economy: Post Covid-19” on 6th June 2020. C. N. Murthy, Charter President of Vidyananyapura Rotary club, Bengaluru was the resource person. The topics discussed in the session included impact of Covid-19 on personal, social and professional fronts. Changes in habits and lifestyle to be followed during lock down were discussed.

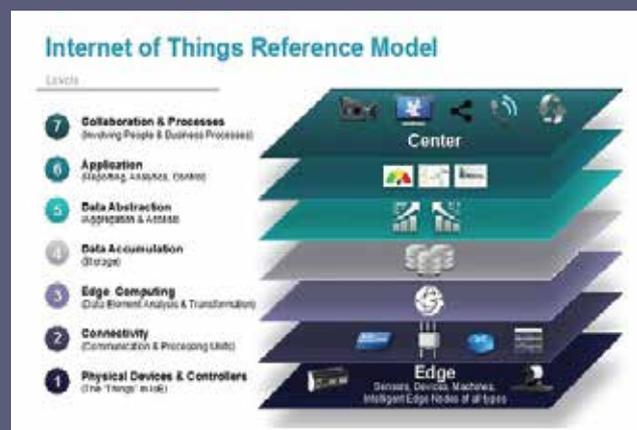
## Guest Lecture on “Thinking the Transformation”

The School of architecture marked the end of the even semester 2019-20 on 30th May 2020, with a webinar by Ar. Dimple Mittal, partner and director of MayaPraxis who delivered a talk on “Thinking the Transformation”. Architect Dimple opened her talk by touching upon the evolution of mankind and stressed upon the disconnect that happened between Nature and Humans right from the time the agrarian society came into being. She then moved on to the theme of transformation that must happen in a larger context, beyond the architecture of the built envelope. The talk then focused on the sensitive, sustainable approach adopted in the projects done by the firm MayaPraxis, the design process from conception to realization was explained with example of her live projects.



## Webinar on “Internet of Things Security”

The School of ECE had organized a webinar on “IoT Security” on 30th May 2020. The resource person was Mr. Manoj Kashyap R from M/s. Ethicalbyte Pvt. Ltd. He is an IoT specialist. The webinar focused on IoT Architectural layers, Case Studies of few IoT enabled devices, such as, Syska LED Bulbs, IoT enabled cars, and so on.

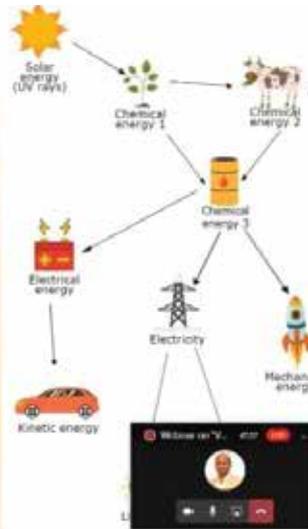


## Webinar on "Vastu is a Science or Astrology"

The School of Mechanical Engineering in association with Deekshit Wellness Center had organized a webinar on "Vastu is a Science or Astrology" on 24th June 2020. The resource person was Mr. Acharya Shekar Deekshit. The talk focused on various aspects of 'Vastu' from the perspective of modern science.

### LAW OF CONSERVATION OF ENERGY

- First Law of Conservation of energy states that energy can never be created or destroyed, but it can be transformed from one type to another form
- Adding or removing energy changes the forms of matter by changing the molecule\atomic structure.
- Different shapes and materials of the substance are some of the main factors causing changes.

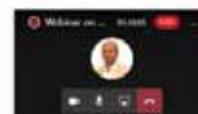
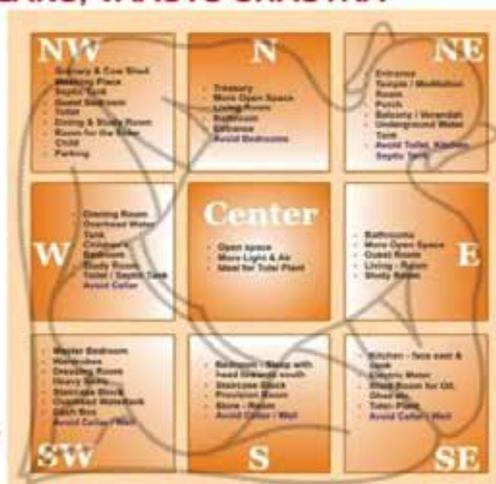


### SCIENCE BEHIND VAASTU

- Understanding the types of energies surrounding us, our living space and geographical location and how energies move, Architecting\Designing the buildings, airports, ports, railway stations, microwave towers, machineries, vehicles, water dams, temples, cities etc. to enhance our life and building life is the **Vaastu Science**.
- **Vaastu is a science of managing** (removing or adding energy) different type of energies present\surrounded in any given geographic location with or without any building (dwelling units) or structure or any shapes of geometry where any living beings live in order to obtain good health and long life.



### VAASTU TIPS FOR HOME | VAASTU HOUSE, INDIAN HOUSE PLANS, VAASTU SHASTRA



## Webinar on “Symmetry and Group Theory for CSIR/UGC/NET/SLET”

The Department of Chemistry, School of Applied Sciences, organized a webinar on “Symmetry and Group Theory for CSIR/UGC/NET/SLET” on 21st June 2020. The resource person was Dr. Venkatesha M A, Postdoctoral fellow NCBS Bangalore, Founder and instructor of CSIR/ NET/ SET/GATE. The session gave a deep insight to symmetry and group theory, elements of symmetry and symbols, two fold and n-fold axis rotation, mirror planes and so on.

## Skill Development Program

From 18th April to 10th May 2020, the School of ECE had organized a 8-day Online Skill Development Program through MS Teams for up-skilling the students of ECE II semester in the areas of Smart Embedded System Design using Arduino and Android App Development and Desktop Software Development for IoT Applications using SQL and Cloud DB. The program was conducted by industrial experts from M/S. Indian Techkeys, Bangalore. Around 360 students of ECE II Semester took active part in the online skill development training.

## 5-Day Virtual FDP on “Solar Energy-The Future is Bright”

The School of Mechanical Engineering in association with Solar Energy Society of India (SESI) organized a 5-day FDP on “Solar Energy - The Future is Bright” from 25th June to 29th June 2020 for faculty members, industry personal and members of solar energy society. Around 210 participants attended the FDP. The FDP mainly focused to provide the data on renewable energy and challenges faced in its implementation.

**Solar Thermal System: Introduction**

- Solar thermal technologies capture the heat energy from the sun and use it for **heating** and/or the production of **electricity**.
- Solar collectors are heat exchangers that use solar radiation to heat a working fluid, usually **liquid or air**. They can be classified in three groups:
  - Flat-plate collectors,
  - Evacuated-tube collectors
  - Concentrated/Focusing collectors.
- Solar collectors observe solar radiations to convert sunlight to heat.
  - Then transfer to the medium to domain through heat exchanger.

Low Temperature Solar Collectors: Flat Plate, Evacuated Tube  
High Temperature Solar Collectors: Concentrated Solar, Concentrated Parabolic, Concentrated Dish

NIT-Rajapur DEPARTMENT OF MECHANICAL ENGINEERING www.nitrrajapur.in

### PV MODULES

- Batteries are used for off grid or requires a backup in the case of electrical failure
- Various PV financial models are using now which are Net metering, remote metering feed in tariffs etc.,



## Webinar on “Career Opportunities in Government Sector”

The Department of Chemistry, School of Applied Sciences, organized a webinar on “Career opportunities in Government Sector” for UG and PG students on 5th July 2020. The resource person was Mr. Gulab Singh, Chemical and Metallurgical Superintendent, Rail Wheel Factory, Bangalore. Mr. Gulab Singh is a mentor and trainer for all competitive exams related to Government sector. The resource person gave a broad insight of techniques and methods to solve the questions in competitive exams.

## Research Talk

The School of Electronics and Communication Engineering organized a research talk on “A Novel Complementary Slotted Split Ring Resonator Loaded Truncated Arc Patch Antenna with Enhanced Performance” on 30th June 2020. The resource person was Mr. M. Shailesh Rao, research scholar, REVA University.

## Webinar on “Social Entrepreneurship-Need of the hour during COVID-19”

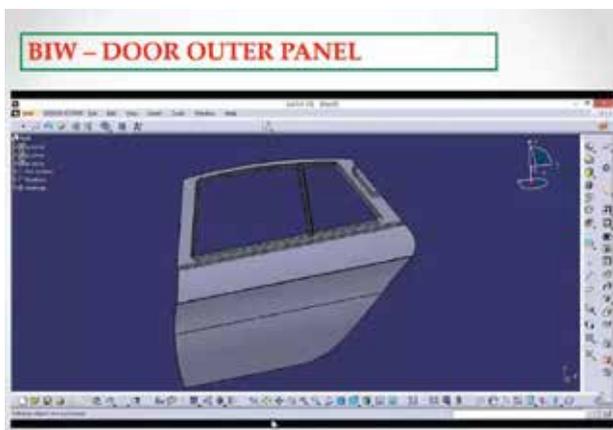
The School of Mechanical Engineering organized a webinar on “Social Entrepreneurship-Need of the hour during COVID-19” on 25th June 2020. The resource persons were Mr. Venkatesh Murthy and Mr. Rajesh from Youth for Seva. Social entrepreneurship is an approach by individuals, groups, start-up companies or entrepreneurs, in which they develop, fund and implement solutions to social, cultural or environmental issues. The popularity of social entrepreneurship has grown even further in light of the ongoing pandemic, which has threatened the livelihoods of half of the world’s workforce and existence of some businesses.

**Webinar on “Forensic Science in Crime Investigation”**

The Department of Biotechnology, School of Applied Sciences, had organized a webinar on “Forensic Science in Crime Investigation” on 29th May 2020. The resource person for the webinar was Mr. Phaneendar. B. N, Court Commissioned Legal Expert, Managing Director, Clue4evidence Forensic Labs, Bengaluru. The webinar highlighted the amalgamation of sciences in the investigation of the criminal offenses like physics, biology, chemistry, toxicology, anthropology, dermatoglyphics, entomology, ballistics and digital sciences. Brief insight was given on the utilization of the technology in the different fields for the analysis of the evidence from crime scene.

**Webinar on “Robotic Simulation for BIW Welding”**

The School of Mechanical Engineering had organized a Webinar on “Robotic Simulation for BIW Welding” on 28th June 2020. Mr. Ashok S. Ammanagi, Project Manager (BIW Robotic Simulation) Onward Technology Ltd. (U.K. & India) was the resource person. BIW is a stage in automotive design and manufacturing. BIW refers to the body shell design of an automotive product such as cars.

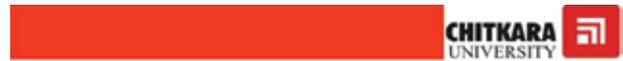


**Webinar on “Nuclear Energy: Myth v/s Reality”**

The School of Mechanical Engineering organized a Webinar on “Nuclear Energy: Myth v/s Reality” on 29th June 2020. The resource person was Mr. Rakesh Tiwary, Scientific Officer-F, NPCIL, Mumbai. The main focus of this webinar was to highlight the basics of nuclear energy, Indian Atomic Energy Program, safety in nuclear power plant, and the impact of radiation from NPP on the public.

**Webinar on “Research Tools”**

The School of ECE organized a webinar on “Research Tools” on 30th June 2020. The resource person was Dr. Manish Sharma, Professor, Chitkara University, Punjab. The webinar focused on End Note, a commercial reference management software package, used to manage bibliographies and references when writing essays and articles. It is produced by Clarivate Analytics.



**WEBINAR ON RESEARCH TOOLS**

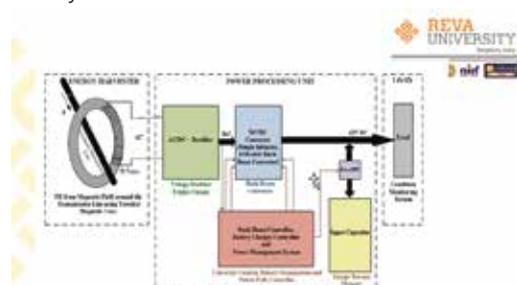
Dr. Manish Sharma  
 PROFESSOR RESEARCH  
 Chitkara University Research & Innovation Network  
 Chitkara University, Punjab, India

**Orientation Program on “Clinical Trial Management”**

The Department of Biotechnology, School of Applied Sciences, gave an opportunity to students of M.Sc. Biotechnology to interact with the instructors of BCRI (Bangalore Clinical Research Institute) on 29th April 2020. The main speaker for the day was Padmapriya Roa, Tech Lead from IQVIA. The speaker explained the importance of clinical trials and the different phases involved during the trials. She gave a clear picture of data management procedures and ways to rectify errors done while entering the data.

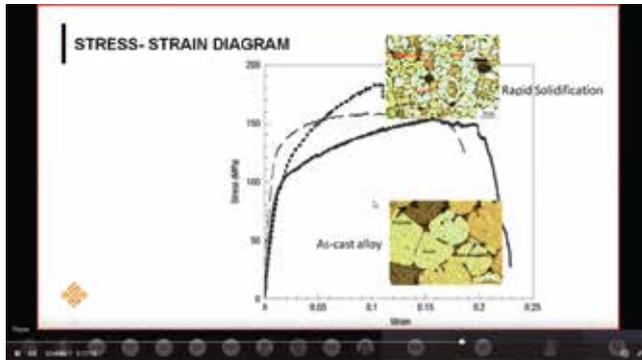
**Research talk on “Magnetic field harvesting system for monitoring devices in smart grids”**

The School of Electronics and Communication Engineering organized a research talk on “Magnetic field harvesting system for monitoring devices in smart grids” on 26th June 2020. The resource person was Mrs. Pavana H, research scholar, REVA University.



## Webinar on “Metallic Materials Structure Property Correlations”

The School of Mechanical Engineering organized a webinar on “Metallic Materials Structure Property Correlations” on 29th June 2020. The resource person was Dr. S. Devaraj, Professor and R&D Co-ordinator-School of Mechanical Engineering, REVA University. The main focus of the webinar was to study material processing methods, characterization techniques, and strengthening mechanisms.



## Webinar on “Ultimate Truth of Life - Finding Happiness”

The School of Electronics and Communication Engineering organized a Webinar on “Ultimate Truth of Life - Finding Happiness” on 26th June 2020. The resource person was Ms. Devi D., an 2012 alumna of the School of ECE. Along with her technical skills, Ms. Devi she is also a creative writer, and an avid public speaker at Toastmasters International.

## 1st International Conference on “Recent Trends in Electronics and Communication Engineering”

The School of ECE organized its First International Conference on “Recent Trends in Electronics and Communication Engineering” on 11th and 12th June 2020.

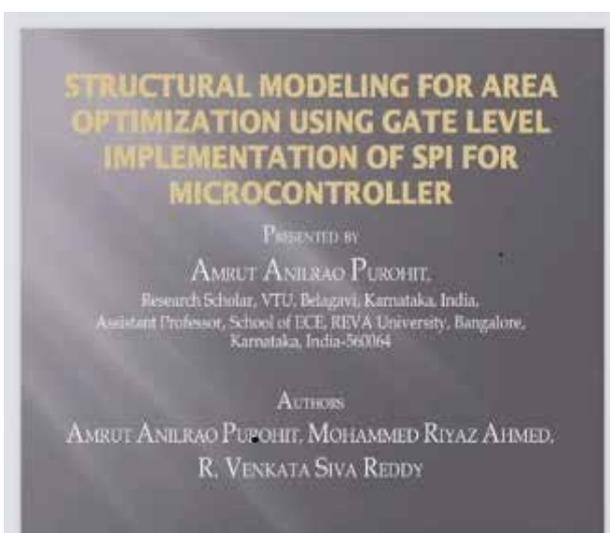
The knowledge of the state of art techniques in the fields was discussed by experts at IC RTECE 2020 which provided a professional and useful opportunity for scholars to extend their knowledge of various innovative and trending methodologies. Many of the industry professionals and university professors participated in the conference and shared their knowledge and experience.

## Technical Talk on “Structural Modelling for Area Optimization using Gate Level Implementation of SPI for Microcontroller”

The School of ECE had organized a technical talk on “Structural Modelling for Area Optimization using Gate Level Implementation of SPI for Microcontroller” on 29th May 2020. The resource person was Mr. Amrut Anilrao Purohit, Assistant Professor, School of Electronics and Communication Engineering.

## Webinar on “Introduction to AI Frameworks”

The School of ECE had organized a webinar on “Introduction to AI frameworks” on 27th May 2020. The resource person of the webinar was Dr. Ramaprasad, Professor in Electronics Engineering, Manipal University, and Dubai. The focus of the lecture was on various applications of AI, AI-ML-DL-CNN, well known AI frameworks, and so on.



# Programmes Offered by REVA University

## Undergraduate Programmes

### • B. Tech.

Civil Engineering | Mechanical Engineering  
Electrical and Electronics Engineering  
Electronics and Communication Engineering  
Electronics and Computer Engineering  
Computer Science Engineering  
Computer Science and Systems Engineering  
Computer Engineering (Artificial Intelligence & Data Science)  
Information Science and Engineering  
Computer Science and Information Technology  
Mechatronics Engineering | Bioelectronics Engineering  
Electrical and Computer Engineering

### • B. Arch.

### • B.A. - LL.B. (Hons.)

### • B.B.A. - LL.B. (Hons.)

### • B.B.A.

Industry Integrated | Honours  
Entrepreneurship

### • B.Com.

Industry Integrated | Honours

### • B.C.A.

### • B.Sc.

Mathematics, Statistics, Computer Science  
Physics, Mathematics, Chemistry  
Physics, Mathematics, Computer Science  
Biotechnology, Biochemistry, Genetics  
Medical Laboratory Technology (MTL)  
Bioinformatics | Honours

### • B.A.

Journalism, English, Psychology  
Political Science, Economics, Journalism  
Performing Arts, English, Psychology  
Tourism, History & Journalism

## Research Programmes

### • Ph.D.

Engineering | Management Studies  
Commerce | Science and Technology  
Arts and Humanities

## Postgraduate Programmes

### • M. Tech.

Power Energy Systems (PS)  
Computer Aided Structural Engineering (CASE)  
Transportation Engineering and Management (TEM)  
Construction Technology and Management (CTM)  
Computer Science Engineering (Full-Time)  
Data Science (DS)  
Machine Design (MD)  
Digital Communication & Networking (DCN)  
VLSI & Embedded Systems (Full-Time)  
Computer Science Engineering (Part-Time)  
VLSI & Embedded Systems (Part-Time)

### • M.B.A.

Marketing | Finance | Human Resource  
Entrepreneurship | Media & Mass Communication  
Banking and Insurance | International Business  
Operation Management | Rural Management

### • M.C.A • M.Com • LL.M.

### • MS in Computer Science

### • M.Sc.

Biochemistry | Biotechnology | Chemistry  
Mathematics | Physics | Psychology

### • M.A.

English | Journalism & Communication

### • MPA

Bharatanatyam | Kuchipudi | Kathak  
Mohiniyattam | Odissi

## Diploma / PG Diploma Programmes

- Certificate / Diploma in Kuchipudi  
Bharatanatyam | Mohiniyattam | Kathak | Odissi  
Theatre Arts | Carnatic Music | Hindustani Music
- Diploma in Plumbing & Irrigation Systems
- Diploma in Medical Laboratory Technology (DMLT)
- PG Diploma in Clinical Research Management in association with Clini India
- PG Diploma in Functional Genomics and Bioinformatics
- PG Programme in Entrepreneurship & Construction Management



**REVA**  
UNIVERSITY

Bengaluru, India

Rukmini Knowledge Park, Kattigenahalli  
Yelahanka, Bengaluru - 560 064  
Karnataka, India.

Ph: +91- 90211 90211, +91 80 4696 6966

E-mail: [admissions@reva.edu.in](mailto:admissions@reva.edu.in)

Follow us on



/REVAUniversity

[www.reva.edu.in](http://www.reva.edu.in)