THE BEACON RAY

A quarterly newsletter from **NIT Warangal**

Vol. No. 1, Issue No. 2, October 2020

This news letter brings you the latest achievements and updates happening at NIT Warangal

Director's Message



Prof. N V Ramana Rao

Dear colleagues,

Hope all of you and your family are doing well and are safe during the COVID-19.

The Institute has been making good progress on all the fronts. Even though CORONA has brought changes in our lifestyle, it couldn't deter our spirits and innovations. The last academic year 2019-20 was successfully completed in all aspects and the new academic year 2020-21 has started smoothly with the classwork in "Online Mode". I congratulate all the Faculty Colleagues for this smooth transition from the "Chalk and Talk" system to this "Online Teaching-Learning-Evaluation" mode. The Institute LMS Committee has to be appreciated for its continuous and untiring efforts in giving the required training to all the faculty for adapting this transition smoothly. But, we have a long way to go before a foolproof system is evolved for the "Online Evaluation". It is also learnt that the Dean (P&D) and his team are making their best efforts to equip all the faculty with the required digital tools including Laptops soon.

A JoSAA awareness program was conducted on 4th October 2020 for the benefit of JoSAA aspirants. This program was conducted "on live" through "YouTube" for more than three hours. This program received good appreciation from all quarters. All the credit goes to the Dean (Academic) and his team for this success.

Research, Publications and Patents have become a part of our Institute Work Culture. I am very happy that a large number of our faculty colleagues were recently sanctioned prestigious externally sponsored R&D Projects. I congratulate all of them. My special congratulations to all the faculty colleagues whose patents were granted. I am confident that this work culture of "Academics blended with Projects, Publications and Patents" will take the Institute to greater heights.

Recently, the Institute has started two Lecture Series, viz., (1) NITW Institute Popular Lecture Series, wherein some of the accomplished and eminent personalities from different walks of life share their experiences on different aspects of life and philosophy; (2) NITW Institution Building Lecture Series, wherein some of the best Academic administrators and Technocrats share their experiences about Academics, Research and Institute development. These two lecture series have become very popular among the campus community.

The Eighteenth Convocation of the Institute was successfully conducted on 22.10.2020 in Virtual mode, wherein the Hon'ble Education Minister, Government of India, Shri Ramesh Pokhriyal 'Nishank' was the Chief Guest, and Dr. N.R. Narayana Murthy, Founder of Infosys was the Guest of Honor. This virtual Convocation was conducted with technical Assistance from A-Theorem, a new start-up company. Among the NITs, our NIT Warangal is the first to conduct the Convocation in the Virtual mode. This being the first time that the Institute conducted its Convocation in Virtual mode and added to that it was conducted in a situation of racing against time, it is observed that there is a lot of scope for improvement.

I congratulate the Editorial Board for compiling all the details and bringing out in the form of this Newsletter. Let us all resolve to work hard and keep the flag of NIT Warangal high.

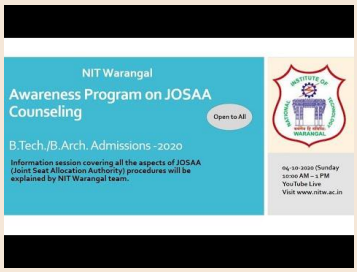
Prof. N. V. Ramana Rao

Director

NIT Warangal in the News



Governor's address at Webinar on New Education Policy" Inaugural:
https://www.youtube.com/watch?v=wFr2Ps5tjnU



JOSA Awareness Programme
https://www.youtube.com/watch?v=xoS1Wq24dC0



https://www.youtube.com/watch?v=Pw3YBNK_0-w



Invention: All-in-One OzoNIT

Prestigious Bharat Ratna sir Mokshagundam Visvesvaraya Award-2020 to Prof. N V Ramana Rao, Director NIT Warangal by Telangana State Centre Hyderabad

Telangana State Centre, Hyderabad
and
GOVERNMENT OF TELANGANA
Present
BHARAT RATNA SIR MOKSHAGUNDAM VISVESVARAYA AWARD-2020
to
Prof. N V RAMANA RAO, FIE
CITATION





Tree Plantation inside institute
https://www.youtube.com/watch?v=d0JbOIqxOfY



Fit India initiative
https://www.youtube.com/watch?v=1UQpSqaX5UE

18th Convocation

The 18th convocation of the National Institute of Technology (NIT), Warangal, was held in a virtual mode on 22-10-2020. Union Education Minister Shri. Ramesh Pokhriyal Nishank inaugurated the ceremony and addressed the students. Dr. N. R. Narayana Murthy, founder of Infosys, attended the ceremony as the guest of honour.



Shri. Ramesh Pokhrival Nishank Prof. N V Ramana Rao Shri. R Narayana Murthy

You tube Link:
https://www.youtube.com/watch?v=vV8uXiCH9XA&feature=youtu.be&fbclid=IwAR20tr_kUlsSLaGACQlGp5jh0YCwO76JTveA5_-BOQ85TFH5Vr8A9WI6AS4





Hon'ble Education Minister Shri. Ramesh Pokrhriyal Nishank laid foundation stone to 1500 seater Rudrama Devi ladies hostel complex and inaugurated various buildings which include the Teaching Learning Centre, Visvesvaraya Skill Development Centre and the Sardar Valla Bhai Patel Guest House

ఆన్‌లైన్ బోధన అనివార్యం: నిట్ డైరెక్టర్ ఎన్.వి.రమణారావు

● మెషిన్ లెర్నింగ్‌పై ఎఫ్‌డీపీ ప్రారంభం

నిట్‌క్యాంపస్, న్యూస్‌టుడే: ప్రస్తుత పరిస్థితుల్లో విద్యారంగంలో ఆన్‌లైన్ విద్యా బోధన అనివార్యమని వరంగల్ ఎన్‌ఐటీ సంచాలకులు ఆచార్య ఎన్.వి.రమణారావు అధ్యాపకులకు ఉద్బోధించారు. సోమవారం వరంగల్ నిట్ ఆధ్వర్యంలో 'మెషిన్ లెర్నింగ్ ఫర్ ఏపీటీ అండ్ వేస్ట్ వాటర్ ట్రీట్‌మెంట్' అనే అంశంపై ఐదు రోజుల అధ్యాపక అభివృద్ధి ప్రోగ్రాం(ఎఫ్‌డీపీ)ను గూగుల్ మీట్‌లో నిట్ డైరెక్టర్ ప్రారంభించారు. కొవిడ్ మహమ్మారి విద్యారంగాన్ని ఆన్‌లైన్ మోడ్‌లోకి తీసుకువెళ్లిందని, అధ్యాపకులు సరికొత్త సాంకేతిక బోధనోపకరణాలను ఉపయోగించి వినూత్నంగా బోధించాల్సి ఉందన్నారు. ఆన్‌లైన్ బోధన అందరికీ చేరడం కోసం నిట్ నిరంతరం ప్రయత్నిస్తోందని చెప్పారు. ఎన్ఐటీ నిరంతర విద్యా కేంద్రం ఇన్‌చార్జి డాక్టర్ రాజుకూర్మ మాట్లాడుతూ వృత్తిగతమైన అభివృద్ధికి అవసరమైన సాంకేతిక పరిజ్ఞానాన్ని నవీకరించడానికి అధ్యాపకులకు నిరంతర బోధనాధ్యసన అవసరమని తెలిపారు. నిట్ బోధన్యాభసనకేంద్రం ఇన్‌చార్జి ప్రొఫెసర్ రామచంద్రయ్య, నిట్ ప్రొఫెసర్లు రాధాకృష్ణ, అంజనీయులు, డాక్టర్ సతీష్‌బాబు, డాక్టర్ సురేశ్‌బాబు, డాక్టర్ శ్రీనివాస్, డాక్టర్ సూరజ్ తదితరులు పాల్గొన్నారు.



ఆన్‌లైన్ ఎఫ్‌డీపీని ఉద్దేశించి మాట్లాడుతున్న ఎన్.వి.రమణారావు

Mega plantation drive organised at NITW



Warangal Rural Collector M Haritha planting a sapling on the premises of NIT Warar

STATE BUREAU
Warangal Urban

Mega plantation drive was conducted at National Institute of Technology (NIT), Warangal, here on Saturday. Warangal Rural District Collector M Haritha, GWMC Commissioner Pamela Satpathy, Chief Conservator of Forests (CCF), Warangal, MJ Akbar and NIT Director Prof NV Ramana Rao including the teaching, non-teaching staff and their family members participated in the event.

Warangal Rural Collector Haritha said that she was very happy to see the lush green NIT campus. "It is worth appreciating the administration about their commitment to make the campus much greener," she added. She also appreciated the Forest Department for their support

campus greene

GWMC Co

Pamela Satpathy said, "It good to see NIT Waran fraternity is conducting series of plantation driv which shows their comm ment towards enviro ment." Later, they walk through the Miyawaki for that had started growi from August 15, 2019 on t campus.

Warangal: NITW 18th convocation held

Hans News Service | 22 Oct 2020 11:48 PM IST



Students receiving degrees through -avatar

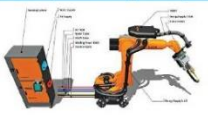
HIGHLIGHTS

Convocation is a significant occasion when students embark on the expedition of taking the fruits of education to the outside world, Union Education Minister Dr Ramesh Pokhriyal Nishank said, addressing as the chief guest at the 18th NITW convocation 2020 through a video-conferencing on Thursday

నిట్.. నైపుణ్యం హిట్!

● వరంగల్ నిట్‌లో రోబోటిక్స్ పరిజ్ఞానంపై శిక్షణ ● రూ.172 కోట్లతో సీమెన్స్ సెంటర్ ఆఫ్ ఎక్స్‌లెన్స్ ఒప్పందం

ఈనాడు, వరంగల్: రోబోటిక్స్ పరిజ్ఞానంతో పాటు పలు రకాల సాంకేతికతలపై పరిశోధన, శిక్షణ తరగతులు నిర్వహించేందుకు వరంగల్ జాతీయ సాంకేతిక సంస్థ (ఎన్‌ఐటీ) ఆధ్వర్యంలో ప్రయోగశాలలను ఏర్పాటు కానున్నాయి. రోబోటిక్స్‌లో పాటు, ఫ్రీడ్ మ్యానుఫ్ (ఆడిటివ్ మ్యానుఫ్యాక్చరింగ్), ఆటోమేటివ్ ఇండస్ట్రీ తరితర అంశాల్లో అధ్యాపనపై పరిశోధనలో సీమెన్స్ సంస్థ ఎన్ఐటీతో కలిసి క్వాంపస్‌లో త్వరలో ఈ ప్రయోగశాలలను ఏర్పాటు చేయనుంది. రూ.172 కోట్లతో ఈ ప్రాజెక్టుకు సంబంధించి బుధవారం ఎంఓయూ కుదిరింది. ఎన్ఐటీ విద్యార్థులతో పాటు వరంగల్ పరిసర ప్రాంతాల్లోని ఇంజినీరింగ్ కళాశాల విద్యార్థులకు అధ్యాపనపై శిక్షణ సహకారం కానుంది. సీమెన్స్ సెంటర్ ఆఫ్ ఎక్సిలెన్స్ పేరిట ప్రారంభమైన ఈ ప్రాజెక్టుకు సంబంధించి పరికరాలు తొందర్లో రానున్నాయి. ప్రాజెక్టులో భాగంగా మెట్రాన్ టెక్నో ప్లాస్టిక్ట్రానిక్స్, బాలీ (ఇంటర్నెట్ ఆఫ్ థింగ్స్), ఆల్‌మేవర్, ప్రాసెస్ ఇన్‌స్ట్రుమేషన్ తదితర అంశాల్లో ప్రయోగశాలలు ఏర్పాటుతో పాటు వాటిపై విద్యార్థులకు శిక్షణ ఇస్తారు.



సీమెన్స్, సెంటర్ ఆఫ్ ఎక్స్‌లెన్స్‌లో భాగంగా ఏర్పాటు కానున్న ప్రయోగశాలకు రామమూర్తి రోబోటిక్స్ నమూనా చిత్రం



తొలుత అధ్యాపకులకు...

ఇంజినీరింగ్ కళాశాలల్లో పరిశ్రమల అవసరాలు తగ్గట్టు విద్యార్థులను సిద్ధం చేసి, అధ్యాపకుల సామర్థ్యాలను పెంచేందుకు అనుగుణంగా వారికి శిక్షణ ఇవ్వాలనే ఈ కేంద్రాన్ని సీమెన్స్ ఏర్పాటు చేసింది. అనంతరం తమకు తగుచూరిని నియమించుకోనుంది. తొలుత ఈ కేంద్రంలో ఎన్ఐటీ అధ్యాపకులు శిక్షణ ఇవ్వనున్నారు. వారు విద్యార్థులకు విషయాన్ని ప్రయోగాత్మకంగా వివరిస్తారు. ప్రస్తుతం పరిశ్రమల్లో ట్రీడీ ముద్రణ ఒక ప్రాధాన్యం పెరిగింది. ఈ క్రమంలో ఇటువంటి ట్రీడీ ముద్రణపై ప్రత్యేక శిక్షణ ఉంటుంది. విసుగుల్లో మనుషులు వెళ్లలేని ప్రాంతాలకు రాయి ఆపరేషన్ నిమిత్తం రోబో యంత్రాల తయారీ, రోబోటిక్ ప్రోగ్రామ్, ఐయిర్మింగ్ రోబోటిక్స్ తదితర అంశాలపై శిక్షణ ఉంటుంది.

16 వేల మందికి శిక్షణ

గత పదేళ్లుగా ఎన్ఐటీ వరంగల్‌లో ఈఆండ్ టీఅండ్ (ఎలక్ట్రానిక్స్ అండ్ కమ్యూనికేషన్ టెక్నాలజీ)అనుమతి ద్వారా దేశంలోని వివిధ ఇంజినీరింగ్ కళాశాలలకు చెందిన 16 వేల మంది విద్యార్థులు, అధ్యాపకులకు శిక్షణ ఇచ్చారు. ఇందులోనూ రూ.20 కోట్ల వరకు వెచ్చించారు. ఇ పదిలిట్ మదన్‌మోహన్ మాలవ్య టీచింగ్ లెర్నింగ్ కార్యక్రమం ద్వారా రూ.10 కోట్లకు పైగా వెచ్చించి 3 వేల మంది అధ్యాపకులకు ఎన్ఐటీలో శిక్షణ ఇచ్చారు. అలాగా సీమెన్స్ సెంటర్ ఆఫ్ ఎక్స్‌లెన్స్ కేంద్రం కూడా పాఠాల కావడంతో వైవిధ్య శిక్షణకు ఎన్ఐటీ కేంద్ర బిందువుగా మారుతోంది.

నిట్ క్యాంపస్‌లో 'రన్ ఫర్ ఫిట్ ఇండియా'

కాజీపేట అర్బన్: కాజీపేటలోని నేషనల్ ఇన్‌స్టిట్యూట్ ఆఫ్ టెక్నాలజీ(నిట్) క్యాంపస్‌లో బుధవారం 'రన్ ఫర్ ఫిట్ ఇండియా' పేరిట రెండు కిలోమీటర్ల పరుగు నిర్వహించారు. కార్యక్రమాన్ని నిట్ డైరెక్టర్ ఎన్వీ రమణారావు ప్రారంభించగా.. నిట్ యాజమాన్యం, సిబ్బంది పాల్గొన్నారు. అనంతరం డైరెక్టర్ మాట్లాడుతూ.. కరోనా నేపథ్యంలో వైరస్‌ను ఎదుర్కొనేందుకు మానసిక ధైర్యంతో పాటు శారీరక దృఢత్వం అవసరమన్నారు. నిట్ వరంగల్ క్యాంపస్‌లో ప్రభుత్వ ఆదేశాల మేరకు ఫిట్ ఇండియా కార్యక్రమాన్ని నిట్ ఫిజికల్ ఎడ్యుకేషన్ విభాగం ఆధ్వర్యంలో రెండు వారాల పాటు నిర్వహిస్తున్నామని పేర్కొన్నారు. ప్రతి ఒక్కరూ వాకింగ్, యోగా, ధ్యానం నిత్యజీవితంలో ఓ భాగం చేసుకుని సంపూర్ణ ఆరోగ్య సమాజ నిర్మాణానికి శ్రీకారం చుదడామన్నారు. కార్యక్రమంలో అథ్లెటిక్ కోచ్ రాజ్‌కుమార్, ఫిజికల్ డైరెక్టర్ డాక్టర్ రాజ్‌కుమార్, ఫిజికల్ ఎడ్యుకేషన్ డైరెక్టర్ డాక్టర్ రాజ్‌కుమార్, ఫిజికల్ ఎడ్యుకేషన్ డైరెక్టర్ డాక్టర్ రాజ్‌కుమార్, ఫిజికల్ ఎడ్యుకేషన్ డైరెక్టర్ డాక్టర్ రాజ్‌కుమార్ పాల్గొన్నారు.



కార్యక్రమాన్ని ప్రారంభిస్తున్న నిట్ డైరెక్టర్ రమణారావు

Researchers at NIT chemical-free sterilisa

TIMES NEWS NETWORK

Hyderabad: Researchers at the National Institute of Technology, Warangal, have developed a multi-purpose, chemical-free and safe sterilization system 'Ozo-NIT'.

Resembling a household refrigerator, this system can easily disinfect vegetables, fruits, packed food, clothes, wallet, shoes, among others, all in one ago. With a click of a button, the device produces 500 milligrams of ozone gas in an hour from ambient air.

"Exposure of these articles under ozone gas for about 20-25 minutes will kill all types of viruses, fungi, and bacteria up to 99.99% without the use of any sterilizing chemicals. Once the articles are sanitized for about half an-hour, the ozone will be vented out automatically," said **D Haranath**, associate professor in physics, who developed the system along with his research scholar P Chandar Rao.

The chamber has been designed in such a way that no leakage of the ozone gas ta-



The device produces 500mg of ozone gas in an hour

ప్రపంచ దేశాలపై కొవిడ్ ప్రభావం

● డిజిటల్ విప్లవంతో సంక్షోభం దూరం

● యూఎస్‌లో భారత శాశ్వత ప్రతినిధి అక్బరుద్దీన్

నిట్‌క్యాంపస్, న్యూస్‌టుడే: భారత విదేశాంగ విధానంలో డిప్లమసీ ఒక భాగమని టెక్నాలజీ వినియోగంతో పాటు ఆసేక సమస్యల పరిష్కారానికి ఇతర మార్గాలు అన్వేషించి వాటిని అనుసరించాలని యు.ఎస్‌లో భారత శాశ్వత ప్రతినిధి సయ్యద్ అక్బరుద్దీన్ ఉద్బోధించారు. వరంగల్ ఎన్ఐటీ డైరెక్టర్ ఆచార్య ఎన్.వి.రమణారావు అధ్యక్షతన శుక్రవారం ఆన్‌లైన్‌లో 'టెక్నాలజీ అండ్ డిప్లమసీ: ఛాలెంజెస్ ఫర్ ఇండియా' అనే అంశంపై ఉపన్యాస కార్యక్రమం నిర్వహించారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ కొవిడ్-19 మహమ్మారి ప్రభావం ప్రపంచంలోని అన్ని రంగాలపై వివిధ రంగాలపై ప్రభావం చూపుతోందన్నారు. సమాచార, సాంకేతిక రంగంలో వర్ధిల్ల డిజిటల్ విప్లవం కొవిడ్ సంక్షోభం నుంచి బయటపడేందుకు తోడ్పడుతుందన్నారు. వివిధ దేశాల మధ్య జరిగే దైపాక్షిక ఒప్పందాలపై సాంకేతిక, ఇతర అంశాలపై డిప్లమసీగా వ్యవహరించాల్సి ఉంటుందన్నారు. ఇది భారత విదేశాంగ విధానానికి లోబడి ఉంటుందన్నారు. అనంతరం కొవిడ్ వ్యాక్సిన్ పరిశోధన, అది ఒప్పందాలు, పాక్, చైనాలతో సరిహద్దు ఉద్రిక్తతలు, సామాజిక మాధ్యమాల్లో వైరల్ అవుతున్న బాహ్యేస్సాగాలు, టిక్-టాక్, పబ్జీ, చైనా యాప్‌ల నిషేధం తదితర అంశాలపై అడిగిన ప్రశ్నలకు సయ్యద్ సందేహాలను నివృత్తి చేశారు. వరంగల్ నిట్ విద్యార్థి రంగాలలో నిష్ణాతులైన ప్రముఖులతో ఉపన్యాస కార్యక్రమం నిర్వహిస్తున్నామని దాశ్వత విభాగంలో విశేష అనుభవం ఉన్న సయ్యద్ అక్బరుద్దీన్ ప్రసంగం ఏర్పాటు చేయడం ఆనందంగా ఉందని నిట్ డైరెక్టర్ ఎన్.వి.రమణారావు తెలిపారు. కార్యక్రమంలో నిట్ ప్రొఫెసర్ కె.వి.జయకుమార్, డీన్ ప్రొఫెసర్ కె.వీరస్వామితో పాటు దేశవ్యాప్తంగా పలుచోట్ల నుంచి ఈ కార్యక్రమంలో పాల్గొన్నారు.



మాట్లాడుతున్న యూఎస్‌లో భారత శాశ్వత ప్రతినిధి సయ్యద్ అక్బరుద్దీన్, నిట్ డైరెక్టర్ ఎన్.వి.రమణారావు



Telangana Governor Tamilisai Soundararajan delivers the inaugural address at a national webinar on online education organised by NIT, Warangal, on Tuesday

Guv lauds TS govt for its decision to start online classes

EXPRESS NEW SERVICE
@ Warang

WITH the issuance of a memo according permission to all schools in the State to conduct online classes from September 1, Telangana has become the first State in the country to take a step to this regard, said Governor Dr Tamilisai Soundararajan here on Tuesday.

She was delivering the inaugural address at the national webinar on 'Online Education - The Opportunities and Challenges' organised by National Institute of Technology, Warangal (NIT-W), on Tuesday.

Speaking on the occasion, she appreciated the TRS government for taking steps to resume classes in the State.

"Digital Education and Online Education (OLE) has become the lifeline for education in these dire times as it helps minimise the chances of students contracting the Coronavirus," the Governor said during the inaugural speech at the webinar in which as many as 1,000 participants from various educational institutions took part. She also urged the educational institutions to develop purposeful and well-defined online courses and mitigate and compensate for the impediments posed due to Covid pandemic.

Speaking on the occasion, Prof NV Ramana Rao, Director of NIT-W said: "The institute is leaving no stone unturned to prepare the students for the workforce system with knowledge, skills, and abilities by leveraging on technology and ensuring safety." He also mentioned that the Covid has triggered a digital revolution and that NIT-W is utilising this as an opportunity to transform the system.

బహుముఖ విజ్ఞానవంతులుగా తీర్చిదిద్దాలి





వెబినార్‌లో మాట్లాడుతున్న గీతండీమ్డ్ వైస్ ఛాన్సలర్ ఎం.ఎస్.శ్రీనివాస్‌రావు, ఐఐటీ వైస్ ఛాన్సలర్ డాక్టర్ ఎం.వి.రమణారెడ్డి, చిత్రంలో నిట్ సంచాలకులు ఎన్.వి.రమణారావు

నిట్‌క్యాంపస్, న్యూస్‌టుడే: విద్యార్థులను బహుముఖ జ్ఞానవంతులుగా తీర్చిదిద్దే విధంగా మాతృ విద్యా విధాన అమలు చేయాలని జాతీయ విద్యా విధానం-2020పై వెబినార్ నిర్వహించారు. వరంగల్ జాతీయ సాంకేతిక విద్యా సంస్థ(ఎన్ఐటీ) ఆధ్వర్యంలో 'సాంకేతిక విద్యలో ఆంగ్ల విద్యా విధానం అమలు పూర్వాపరాలు' అనే అంశంపై బుధవారం ఆన్‌లైన్‌లో జాతీయ విద్యా సంస్థల పరిశీలకులతో వీక్షణాన్ని ఇచ్చారు. ఎన్ఐటీలతో పాటు పారిశ్రామిక సంస్థల ప్రముఖులు పాల్గొన్నారు. నిట్ సంచాలకులు ఆచార్య ఎన్.వి. రమణారావు మాట్లాడుతూ వేగంగా మారుతున్న వరంగల్ నిట్ ప్రతిష్ఠాత్మక బిటెక్ కోర్సులలో ఎన్ఈపీ అమలుపై సాంకేతిక విద్యలో ఎన్ఈపీ అమలుపై నిర్వహించిన వెబినార్ మార్గదర్శకాలు గొప్పవని, విధివిధానాలు గొప్పవని, విధివిధానాలు మార్గాలు గొప్ప అతిథిగా పాల్గొన్న బీఆర్‌ఏయూ ప్రొవీసీ డాక్టర్ కె.సుధీర్‌కిషన్ మాట్లాడుతూ శ్లేష్ఠంగా వ్యవహరించారు.



Research Achievements



Dr. Anand Kishore Kola, Professor, Department of Chemical Engineering was sanctioned a project titled "Low-cost Biodegradable Polymer for Application in Food Packaging" of worth Rs. 30 lakh from Science and Engineering Research Board (SERB), GoI



Dr. T Vinay Kumar, Assistant Professor, Department of Electrical Engineering was sanctioned a project titled "Investigation and Implementation of Model Predictive Control Strategies to a Multi- Phase Permanent Magnet Synchronous Motor for Photo-Voltaic based Hybrid Electric Vehicle Applications with Reduced Torque Ripple", approved by DST- Science and Engineering Research Board (SERB), INDIA, of worth Rs. 22 Lakhs Project Number: EEQ/2020/000072, Oct. 2020



Dr. Palash Mishra Assistant Professor from Department of Electrical Engineering was sanctioned a project titled "Design and development of silicone rubber nano micro composites for outdoor insulation structure in harsh environments", DST-Science and Engineering Research Board (SERB), INDIA, of worth Rs. 24.3 lakhs, Project Number: SRG/2020/000826, Oct. 2020



Dr. Deepak Reddy P Assistant Professor, Department of Electrical Engineering was sanctioned a project titled "Convex optimization based economic and stable operation of micro-grid system", DST- Science and Engineering Research Board (SERB), INDIA, of worth Rs. 30 Lakhs, Project Number: SRG/2020/002557, Oct. 2020



Dr. Thyageshwar Chandran (PI) Assistant Professor Department of Biotechnology and **Dr. Surya Kanta Ghosh (Co-PI)** Assistant Professor, Department of Physics were sanctioned a project titled "Computational structure-based drug design: Identifying antivirals from natural products targeting SARS-CoV-2", XSEDE and Microsoft Azure, USA and Fluid Numerics, USA. (Equivalent to US $50,000 or ~Rs 37 lakhs).





Dr. B. Spoorthi, Assistant professor, Department of Humanities & Social Sciences was sanctioned a Major Project Grant titled 'Building an Artificially Intelligent Virtual Laboratory to develop Employability Skills of Engineering students 'AIVLES' to bridge the Gap between College and the Corporate' from Indian Council of Social Science Research (ICSSR) under the scheme Novel and Path Breaking Research Proposals (Areas Unexplored), Sanctioned amount: Rs. 2.00 Lakhs



Dr. SHIVRAMAN (PI) Assistant Professor **and Dr. ADEPU KUMAR (CO-PI**) Professor from Department of Mechanical Engineering were sanctioned a project titled "Mechanical And Tribological Characterization of Al-Si product developed by wire arc additive manufacturing" worth of Rs. 23.7 Lakhs (3 years), ARDB (ARDB/01/2031958/M/I) SANCTIONED ON 05-08-2020.



Dr. B K N Srinivasa Rao Assistant Professor Department of Electronics and communications engineering was sanctioned a project titled "Programmable Electronic Jacquard Machine for complex designs in Handloom sector", of worth Rs. 22.5 Lakhs



Dr. Chayan Bhar Assistant Professor, Department of of Electronics and communications engineering was sanctioned a project titled "Design of a Multi-operator Telecommunication Network to support Heterogeneous Services using Network Slicing" SERB SRG, The project will be aimed at designing a telecommunication network. Employing network slicing. This proposal can work as a pilot project for designing a network to roll out 5G services, in collaboration with telecommunication companies in India may be invited to collaborate in the project. Sanctioned amount: Rs. 11.6 Lakhs



Dr. V Rajesh Kumar, Assistant Professor Department of Chemistry was sanctioned a project titled "Strategy for the synthesis of indole fused benzothiazepines and benzothiazines and explore their biological activity" SERB SRG, Approved budget: Rs. 25 Lakhs, Funding agency: DST-SERB Start-up Research Grant (SRG)

Dr. Surya K. Ghosh Assistant Professor Department of Physics was sanctioned a project titled "Dynamics in complex environments: From single particle to giant polymers", of Budget Rs. 17 Lakh, SRG (DST-SERB)



Dr. S Venkateswara Rao Associate Professor, Department of Civil Engineering was sanctioned a project titled Evaluating the performance of Pavement Quality Geopolymer Concrete using Digital Image Correlation Technique" worth approx. Rs. 40.0 Lakhs. (DST-SERB)



Dr. Ramesh Naik, Assistant Professor Department of Civil Engineering was sanctioned a project titled "Innovative Development of White Clay and Graphene Composite Ventilation Wall Cladding Tiles to Curtail Heat Ingress", for an amount of Rs. 45 Lakh, SRG (DST-SERB)



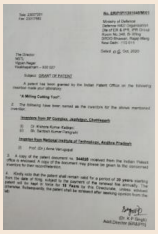
Dr. Kishant Kumar Assistant Professor Department of Chemical engineering was sanctioned a project titled, "Green solvents for recycling cathodes of spent Li-ion batteries" of worth Rs. 25.16 lakh from Science and Engineering Research board (SERB), GOI



Patents:

Granted:

Prof. A Venugopal, Dr. Kishore Kumar K, Sh. Satish Kumar P, A Milling Cutting Tool, 344528 (Awarded)





Prof. R Venkatachalam, A Mechanism to provide perfect steering condition in four wheel vehicle, 349323 (Awarded)





Dr. Achanta Ramakrishna Rao and **Dr. Ajey Kumar Patel**, Hybrid Tank Aerator, No. 318880 (Awarded).





Suresh Periyannan, and Krishnan Balasubramaniam, Ultrasonic waveguide technique for distributed sensing and measurements of physical and chemical properties of surrounding media, Granted, *US Patent no*: US 10,520,370 B2, 31 December 2019.



Suresh Periyannan, and Krishnan Balasubramaniam, Waveguide Technique for the Simultaneous Measurement of Temperatures Dependent Properties of Materials. (Under US patent granting process, Granted, *US Patent no*: US 10,794,870 B2, 6 Oct 2020.



Patents Filed:

C.B. Kameswara Rao, D. RamaSeshu and T.P.Tezeswi. Helical Interlock System for Rapid Erection of Pre-Cast Members. No. 201841039017 A (Filed).

C.B. Kameswara Rao, D. RamaSeshu and T.D.Gunneswara Rao, Mesh as Transverse Reinforcement In Reinforced Concrete. No. 201941038059 A (Filed).

C.B. Kameswara Rao, D. RamaSeshu, T.D.Gunneswara Rao and Ch.Manjula, Prefabricated Mesh as Longitudinal Core Reinforcement in RC Members, No. 202041003566 A (Filed).

C.B. Kameswara Rao, D. RamaSeshu, D.Karthik and A.Saraswathi, A Novel Means of Anchorage for Reinforcing Bars in Reinforced Concrete Members, No. 202041005177 A (Filed).

R. Ramesh Nayaka, U. Johnson Alengaram, MohdZamin Jumaat and Sumiani Yusoff, A process of Producing A Lightweight Eco-Friendly Hollow Masonry Block Devices, No. PI2020002945 (Filed).

Rahul V. Ralegaonkar and **Shashi Ram**, Application of co-fired blended ash for the development of bricks, No. 201721017816 (Filed).

K. Hariprasad and his team has filed a US patent on "Toll-like receptor 8 agonists" US Patent Number, 10654807, published on 2020-05-19 (Filed).

V.T. Somasekhar, Suresh Lakhimsetty, A Dual DC- Power Supply Based Four - Level Open - End Winding Induction Motor Drive with A Flying Rectifier-Inverter Combination, 201741032892, (Filed)

Sachin Jain, K. Ramsha and **V. T. Somasekhar**, Minimization of Leakage Current in Transformer-less Standalone Solar PV Powered Induction Motor Drive Systems, 201841004256 (Filed)

Faculty Development Programs and Webinars

Faculty Development Programs conducted by the *Center for Continuing Education*

Topic	Month	No. of Participants	Coordinators	Department
Internet of things-Block chain & Cyber Security	June 2020	123	Dr. E. Suresh Babu Dr. Raju Bhukya	CSE
Domination in graphs- Algorithms, complexity and applications	June 2020	99	Dr.P.V. Subba Reddy Dr.K.V. Kadambari	CSE
Internet of things for Intelligent Systems	20-24 July 2020	82	Dr. Raju Bhukya	CSE
Operation & control of various sources in Micro grid	20-24 July 2020	77	Bhookya Nagu	EED
Big Image data processing using deep learning techniques	27-31 July 2020	108	Dr. U.S.N. Raju Dr. Sushil Kumar	CSE
Machine learning with business Applications	24-28 August 2020	82	Dr. K. Lakshminarayana Dr. T. Rahul	MBA
Internet of Things and Machine Learning	24-28 August 2020	55	Dr. Raju Bhukya	CSE
Advances and Applications of Bioprocess Engineering Techniques	24-28 August 2020	46	Dr. K. Narasimhulu Dr. P. Shyam	Biotechnology
Emerging Techniques in Smart Power System: Challenges and Solutions	24-28 August 2020	63	Dr. Ram Krishan Dr. Palash Mishra	EED
Webinar On Case Teaching And Writing (A Special Focus on Finance Discipline)	24-28 August 2020	70	Dr. G. Sunitha	SOM
Machine Learning Methods in Real Time Applications	24-28 August 2020	70	Dr. M Srinivas	CSE
Computational Geomechanics - Theory and Applications to Earthquake Engineering	24-28 August 2020	40	Dr. G. Kalyan Kumar	CIVIL
Current trends in Data Analytics through hands on Experience	August 31st to September 4th,2020	106	Dr. M. Sandhya Dr. P. Shyam	CSE & Biotechnology
Machine learning for IoT Applications	7-11 September 2020	59	Dr. B. K. N. Srinivasarao Dr. E. Suresh Babu	ECE & CSE
Deep learning Applications	14-18 September 2020	70	Dr. K. Venkateshwarrao Dr. Balaprakasa Rao Killi	CSE
Internet of Things with Machine Learning/Artificial Intelligent	14-18 September 2020	180	Dr. Raju Bhukya Prof. Gautam D. Makwana	CSE & EC
Design, Modeling and Control of Renewable Energy Resources	21-25 September 2020	50	Dr. P Deepak Reddy Dr. Bhookya Nagu	EED
Soft Computing Techniques for Emerging Applications	05 - 09 october 2020	96	Dr. Manjubala Bisi Dr. Sanjaya Kumar Panda	CSE

FDPs/Workshops conducted by *various departments*

- **Dr. Soumya Lipsa Rath and Dr. R. Satish Babu** have conducted a Five day Faculty Development Programme on "**Recent Trends in Computer Simulations: Teaching and Learning strategies"** during August 17-21, 2020 organized by the Department of Biotechnology In Association with the Teaching Learning Centre, NIT Warangal under PMMMNMTT TLC Scheme, Ministry of Education, Govt. of India.
- **Dr. S. Chockalingam and Dr. Prakash Saudagar** conducted a five-day online FDP on "**Emerging Trends in Biotechnological Advancements: Challenges and Prospects in Tackling Human Diseases"**, during 13-17 July 2020, organized by the Department of Biotechnology in association with Teaching Learning Centre (TLC), NIT Warangal.
- **Dr. K. Narasimhulu and Dr.Shyam Perugu** organized an online FDP "**Advances and Applications of Bioprocess Engineering Techniques"** (24-08-2020 to 28-08-2020), by the Department of Biotechnology, National Institute of Technology Warangal
- **Dr. Surajbhan Sevda and Dr. R. Satish Babu** have conducted a Five day Faculty Development Programme on "**Advances in biological wastewater treatment methods: teaching and learning strategies**" during 7th - 11th September, 2020 Organized by the Department of Biotechnology In Association with the Teaching Learning Centre, NIT Warangal under PMMMNMTT Scheme, Ministry of Education, Govt. of India
- Department of Chemical Engineering Organized "**Indo-UK Symposium on Green Energy for Sustainable Development**' On the occasion of 150 Years Birth Anniversary of Mahatma Gandhi Sponsored by SPARC MHRD on August 28th 2020 coordinated by **Dr. S. Murali Mohan, Dr. K. S. Rajmohan and Dr. Musthafa Muhammed** (IISER Pune).

Online education only solution in Pandemic times: Warangal NIT Director

Director Prof. NV Ramana Rao inaugurated a five-day online FDP in Machine Learning for IoT and Waste Water Treatment through a Google meeting **Warangal Urban**: Prof NV Ramana Rao, Director, National Institute of Technology (NIT), Warangal, said faculty members need to use latest tools and techniques to reach students in the pandemic situation. "NIT Warangal is making efforts to turn online teaching accessible to every student. Online teaching and learning is the only solution in the current education scenario," he added. He inaugurated a five-day online Faculty Development Programme (FDP) in Machine Learning for IoT and Waste Water Treatment through a Google meeting here on Monday. Addressing the participants, Prof NV Ramana Rao said it was a critical time for the education sector to reach students. Covid-19 pandemic made the education sector move to online mode and it needs to be continued further. Interactive and innovative methods need to be established through online education," he added.



Teaching Learning Centre (TLC) in-charge Prof A Ramachandraiah said participants needed to update knowledge continuously through online mode of teaching and learning. Prof Radha Krishna, Prof Anjaneyelu, Dr Satish Babu, Dr Suresh Babu, Dr Srinivas and Dr Suraj were present.

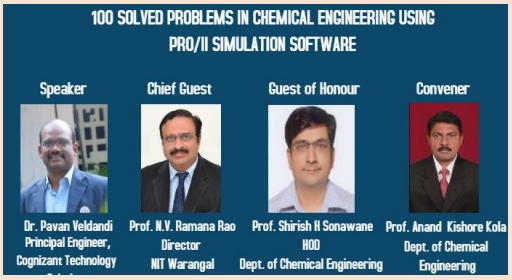
https://telanganatoday.com/online-education-only-solution-in-pandemic-times-warangal-nit-director?fbclid=IwAR3km8uv5JYHC_4bvpm5o625Yuej2xGJ3r0PeO4V88IrLKD9TZLGe7YJvPw

Department of Chemical Engineering, Organized a webinar entitled **"Opportunities for Chemical and Biotechnology Students in pursuing Higher Studies"** by **Dr. Harish Vashisth**, Associate Professor of Chemical Engineering at the University of New Hampshire (Durham, NH, USA), an alumnus of NITW, on July 10th, 2020, coordinated by Dr. A. Venu Vinod.

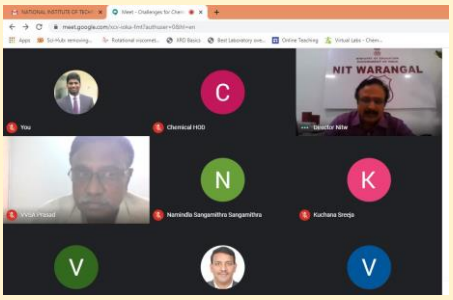


- **Centre for Educational Technology** in association **with Mechanical Engineering Department** organized a One-week online STTP on "Learning Management System: MOODLE" during 10th-14th August, 2020. This program was coordinated by **Dr. M. J. Davidson and Dr. G. Venkatesh.** This program was conducted for the faculty of technical institutes to enable them handling the online educational requirement arising out of Covid-19 pandemic. More than 120 participants attended the course. The exhibit of Moodle sites developed by the participants on the final day of the course proved the effectiveness of the course in meeting the course objectives.

Department of Chemical Engineering, organized a webinar on **"100 Solved Problems in Chemical Engineering using Pro/II Simulation Software**" by Dr. Pavna Veldandi Principal Engineer, Cognizant Technology Solutions on July 11th 2020, coordinated by **Dr. Anand Kishore Kola.**

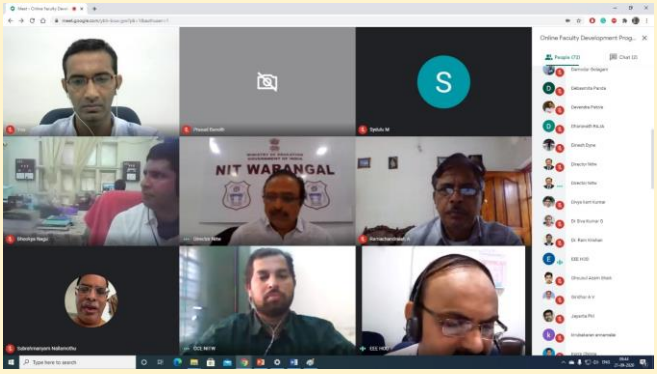


Department of Chemical Engineering, Organized a webinar on "**Challenges for Chemical Engineers in Operating Heavy Water Plants**" by Shri. V.V.S.A. Prasad, Dy. General Manger, HWPM, Department of Atomic Energy, Government of India on Sep 3rd 2020, coordinated by **Dr.P. Sampath Kumar**

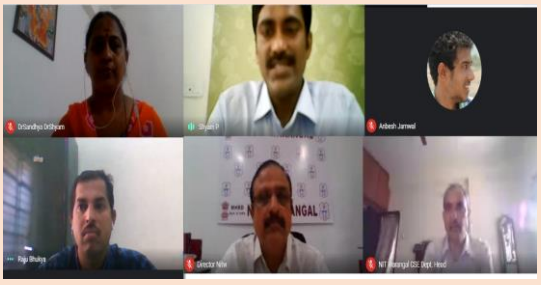


Dr. P. Madhumathi, Assistant Professor, Department of Humanities has conducted a Five weeks online course on "**Communicative English and Learning Strategies**" for the rural students from various districts of Telangana during 3rd August to 5th September, 2020 as part of IMPRESS project.

A 6-day Online Faculty development programme on "***Design, Modeling and Control of Renewable Energy Resources***" *was organized by* ***EED*** *from*21-26September, 2020 with an aim to provide insight in modelling of renewable sources such as PV, Wind and Fuel cell technologies, along with proper converter and control design required for this source. It was coordinated by Dr. P. Deepak Reddy and **Dr. Bhookya Nagu, Assistant Professor Electrical Engineering Department.**



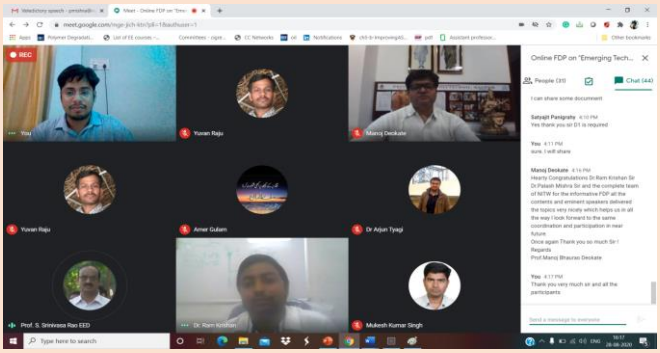
Online Continuing Education Program on "**Currents trends in Data Analytics through Hands-on Experience**", was conducted from from Aug 31st to Sep 4th, 2020 in association with Centre for Continuing Education, NIT Warangal. More than 10o Faculty participated.



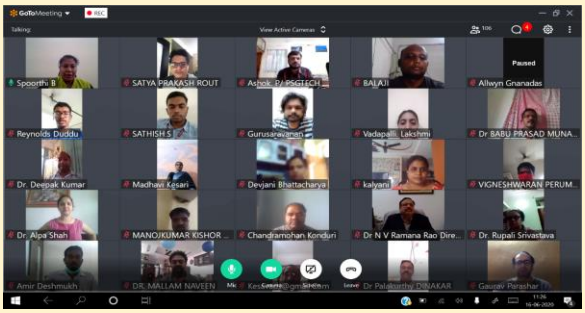
An Online Faculty Development Programme on **Security in distributed machine learning** (18th – 28th August, 2020) was organized by E & ICT Academy, National Institute of Technology, Warangal.

- An FDP on **"Case Teaching and Writing (In Finance and Financial Management)"** in association with Centre for Continuing Education was organized from August 24-28, 2020. FDP Coordinator: **Dr. G. Sunitha**
- FDP on **"Machine Learning with Business Applications"** in association with Centre for Continuing Education was organized from August 24-28, 2020. FDP coordinators: **Dr. K. Lakshminarayana and Dr. T. Rahul**
- National Webinar on "**Dr. BR AMBEDKAR AND HIS VISION FOR DALIT EDUCATION**" on 17-07-2020, Chief Guest – **Sri. B. Vinod Kumar**, Vice-Chairman, Telangana Planning Board, coordinated by **Dr. Anand Kishore Kola**.
- National Webinar on "**RESEVATIONS AND ROSTETRS**" on 01-08-2020, **Sri. T. Krishna Prasad**, former DGP, RSA, Hyderabad, Telangana was the Chief Guest, coordinated by **Dr. Anand Kishore Kola.**
- National Webinar on **"Online Education – the opportunities and Challenges**" on 25th August, 2020, Chief Guest – Her Excellency, **Dr. (Smt.) Tamilisai Soundararajan**, Hon'ble Governor of Telangana, coordinated by **Dr. Anand Kishore Kola.**

Department of Electrical Engineering Conducted a 5 Day FDP on ***"Emerging Techniques in Smart Power System: Challenges and Solutions",*** during 24th Aug- 28th Aug 2020. Coordinators: **Dr. Palash Mishra and Dr. Ram Krishan**



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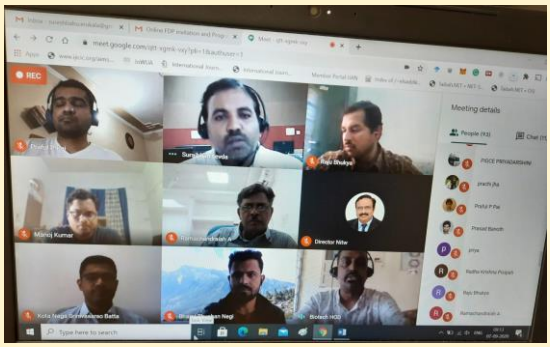


A Five-Day AICTE sponsored AICTE Training and Learning Academy Programme (ATAL) on ***"Virtual Reality in Education (VRE -2020)"*** was organized from 16-20 June 2020 on an online platform by the Department of Humanities and Social Science (H&SS) of National Institute of Technology (NITW). **Coordinator: Dr. B. Spoorthi.**

All the faculty of NITW were trained in three batches on **Learning Management System (LMS) with MOODLE organized in association with the Teaching Learning Centre (TLC),** NIT Warangal, during 14th – 17th, July (Batch–I), 21st - 24th, July (Batch-II), and 28th – 31st, July, 2020 (Batch-III).



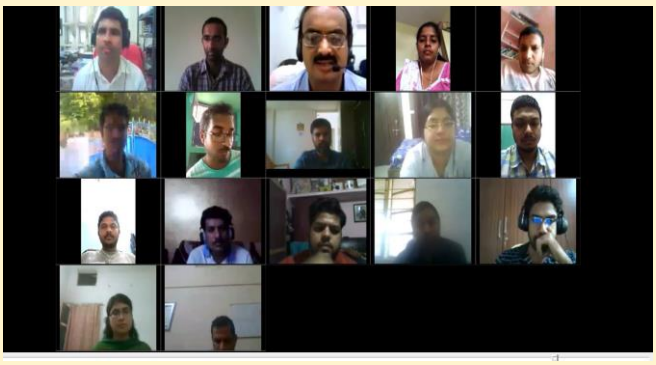
A Five-day Online Faculty development programme was conducted on "**Machine learning for IoT applications"** in association with Center for Continuing Education, NITW from 7th – 11th September, 2020. The workshop was coordinated by **Dr. B. K. N. Srinivasarao and Dr. E. Suresh Babu**.



Department of Chemical Engineering Organized **"Indo-UK Symposium on Green Energy for Sustainable Development**' On the occasion of 150 Years Birth Anniversary of Mahatma Gandhi Sponsored by SPARC MHRD on August 28th 2020 coordinated by **Dr. S. Murali Mohan, Dr. K. S. Rajmohan** , Dr. Musthafa Muhammed (IISER Pune).



A 5-day Online Faculty development programme on ***Operation and control of various sources in Microgrid*** *was organized* ***by EED*** *from*20-24 July, 2020 with an aim to provide insight on microgrid controlling along with the hands-on session on simulating the microgrids. It was coordinated by **Dr. Bhookya Nagu** and **Dr. P. Deepak Reddy, Assistant Professors Electrical Engineering Department**.



Faculty Achievements

Prof. Shirish Sonwanhe was awarded a fellowship from The Polish National Agency for Academic Exchange (NAWA), Poland for the International Visiting fellowship under the Ulm Program 2020. He will do research and stays at Polish universities and research institutes from January 2021.



Dr. Anand Kishore Kola, Professor, Department of Chemical Engineering was awarded with *Best Researcher Award* by VDGOOD Professional Association, Chennai at 10th International Scientist Awards on Engineering, Science and Medicine during 26-27, Sep'2020, Hyderabad, India. **Dr. Anand Kishore Kola** was also awarded with **Upadhyaaya Ratna Award'2020** by Sarvejana Sukhino Bhavanthu Organization, Hyderabad and **Dr. Anand Kishore Kola** is a Director's Nominee in the State Level Committee (SLC) for finalization of Best Teacher Awards '2020- Technical Education, GoT.



Dr. P Rathish Kumar , Professor, Department of Civil Engineering was the recipient of i) Earth Leader for Sustainable Development award by KPR Foundation and Council for Green Resolution (CGR) 2020, ii) Selected for the DUO-INDIA Fellowship for Collaborative Research and Teaching with University of Dundee, Scotland iii) Convener and member of BIS and is serving as committee member for CED-4 of Lime and Gypsum and iv) Board of Studies Member of Civil Engineering Department of Kakatiya University v) Member of the selection committee of the Japanese Government Monbusho and JSPS Scholarships for 2020.



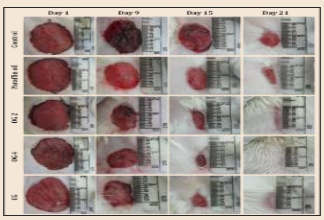
Dr. V. P. Chandra Mohan, Associate Professor, Department of Mechanical Engineering was nominated as Assistant Editor for the Journal ***Renewables: Wind, Water, and Solar*** from 10th May 2020. Publisher: Springer, Australia. The journal serves as a forum for specialists from academic institutions, research laboratories and industries involved in R&D projects on Renewable energy and its allied areas.



Dr K. Hari Prasad, Assistant Professor, Department of Chemistry, research work that covers the development of novel rongalite-promoted metal-free aerobic ipso-hydroxylation of arylboronic acids has been selected as cover page image of the Journal ***"Tetrahedron Letters"***.

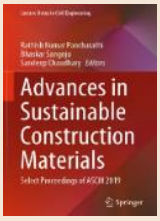


For the first time in the literature, **Dr. S. Nagarajan and co-workers have developed an injectable and self-healing self-assembled anesthetic oleogel derived from glycolipid, which exhibits anti-biofilm and wound closure performance in diabetic rat.** More interestingly, glycolipid in its native form demoed potential in disassembling methicillin-resistant Staphylococcus aureus, methicillin-susceptible Staphylococcus aureus, and Pseudomonas aeruginosa biofilms. Both oleogel and composite gel enhanced the wound skin repair in diabetic induced Wistar rats by promoting collagen synthesis, controlling free radical generation and further regulating tissue



Books/Book Chapters Published

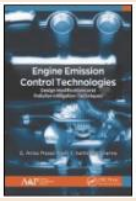
- **Prof P.Rathish Kumar,** Department of Civil Engineering has published a book on *"Advances in Sustainable Construction Materials*" by Springer Publications co-authored by Prof Sandip Chaudhary of IIT Indore and Dr S.Bhaskar Scientist SERC Chennai.



- **Dr. M. Jerold**, Department of Biotechnology has published a book on "*Bioprocess Engineering for Bioremediation Valorization and Management Techniques*", Springer Nature Switzerland, 2020 along with A. Santhiagu and V. Sivasubramanian,. ISBN No: 978-3-030-57910-4.



- **Dr. G. Amba Prasad Rao,** Professor, Department of Mechanical Engineering and T. Karthikeya Sharma published a book on "*Engine Emission Control Technologies- Design Modifications and Pollution Mitigation Techniques*", Apple Academic Press - CRC/ Taylor & Francis.



- Beesu, M., **Kokatla, H. P.**, David, S. A., Syntheses of human TLR8-Specific small-molecule agonists, Vaccine Adjuvants. Methods in Molecular Biology, vol 1494, ISBN: 978-1-4939-6445-1.

- Vara Prasad R, Arun Kumar R, Srishti B, and **Nagarajan S** "State of the Art and New Perspectives in Oleogels and Applications, In Sustainable Green Chemical Processes and their Allied Applications, Nanotechnology in the Life Sciences, Inamuddin, A. M. Asiri (eds.), Springer Nature Switzerland AG (2020) https://doi.org/10.1007/978-3-030-42284-4_6

- Lalitha K., Siva Prasad, Y., and **Nagarajan S**., State of art and perspectives of green solvents in biocatalysis In green sustainable process for chemical and environmental engineering and science, Innamudhin (Ed), Elsevier (2020)

- Siva Prasad Y., Lalitha K., Thamizhanban A., Atul S., Muskan B., and **Nagarajan S**., Application of Metal and Metal Oxides in Sustainable Synthesis and Biology S. Rajendran et al. (eds.), in Metal, Metal Oxides and Metal Sulphides for Biomedical Applications, Environmental Chemistry for a Sustainable World 58, Chapter 9. Springer, Cham (2020)

- Siva Prasad Y., Lalitha K., Aenugu S.C., Jugun P.C., and **Nagarajan S.**, Application of Metal and Metal Complexes for Medicinal Chemistry S. Rajendran et al. (eds.), in Metal, Metal Oxides and Metal Sulphides for Biomedical Applications, Environmental Chemistry for a Sustainable World 58, Chapter 3. Springer, Cham (2020)

Invited Talks

- **Prof. N.V.Ramana Rao**, National Webinar on "Online Education – the Opportunities and Challenges", Dr.(Smt.) Tamilisai Soundrarajan, Hon'ble Governor of Telangana as Chief Guest, Prof.N.V. Ramana Rao, Director was the Guest of Honour for Webinar held at NIT Warangal on 25th August 2020.
- **Prof. N.V.Ramana Rao**, National Webinar on "National Education Policy-2020 (NEPCON-2020)" organized by KIIT Deemed to be University, Bhubaneswar on 29th & 30th August, 2020 over Zoom Virtual Platform. Prof. N.V. Ramana Rao, Director, NIT Warangal act as a Panel Speaker for the Webinar.
- **Prof. N.V.Ramana Rao**, A webinar on "Challenges for Chemical Engineers in Operating Heavy Water Plants" organised by the Department of Chemical Engineering on 1st September 2020. Prof. N.V. Ramana Rao, Director, NIT Warangal as Chief Guest for the webinar.
- **Prof. N.V.Ramana Rao,** National Webinar on "Strategies for Implementation of National Education Policy-2020 for the Technical Education" organised by NIT Warangal on 2nd September 2020. Prof. N.V. Ramana Rao, Director & Chief Patron and Eminent Speaker for the webinar.
- **Prof. N.V.Ramana Rao**, Elsevier in collaboration with Central Library, NIT Warangal organised a Webinar on "Research Simplified with Elsevier: Plan Effectively, Read Quality, Publish Quality" held on 8th September 2020. Prof. N.V. Ramana Rao, Director, NIT Warangal as Chief Guest for the webinar.
- **Prof. N.V.Ramana Rao,** International continuous Professional Development (CPD) webinar series on "Sustainable Practices and Advancements in Civil Engineering (SPACE 2020)", organised by Chaitanya Bharathi Institute of Technology, Hyderabad in association with Contractors Development Institute (CDI-NAC) during 9-9-2020 to 13-9-2020.
- **Prof. N.V.Ramana Rao,** Webinar series organised by TASK Telangana 'Civil Tech Talks' Prof. N.V. Ramana Rao, Director, NIT Warangal as Chief Guest and delivered Inaugural address speaker on 15th September 2020.
- **Prof. N.V.Ramana Rao,** A Webinar organised held by FICCI Telangana State Council in Association with Telangana State for Higher Education on 'National Education Policy 2020' A Game Changer for Telangana, on 19th September, 2020, as Speaker during the Valedictory Session.
- **Prof P. Rathish Kumar,** Expert Lectures on Condition Assessment and ND Evaluation of Structures on 29th April 2020, Repair Methodology- Materials, Strategies and Method on 30th April 2020 and Rehabilitation and Strengthening of Concrete Structures on 1st May 2020 in the webinar series organised on Repair and Rehabilitation of Concrete Structures at Department of Civil Engineering, Sree Chaitanya College of Engineering, Karimnagar in Association with ACCE(I)
- **Prof P. Rathish Kumar**- Lecture session on Durability and Sustainability-Confluence and Juxtaposition at the Five Day Online FDP on Recent Trends and Research Scope in Civil Engineering during 6-10, July 2020
- **Prof P. Rathish Kumar**- Lecture on Condition Assessment and Rehabilitation of Concrete Structures in the One Week Online FDP on Advances in Concrete Science and Technology for Sustainability (ACSTS) during 13-18 July 2020
- **Prof P. Rathish Kumar**- Special lecture on Materials and Techniques for Repair, Rehabilitation, and Retrofitting of Structures in the One Week Online Faculty Development Programme on Advances in Structural and Construction Engineering (ASCE) towards Sustainable Built Environment during 13- 18 July 2020 at Kakatiya Institute of Technology and Science, Warangal
- **Prof P. Rathish Kumar**- Keynote Lecture on Performance and Assessment of Sustainable Concrete Making Materials at the Six Day Online FDP on Modern Materials & Structural Systems for Resilient and Sustainable Infrastructure, 21-26 September 2020 at T.K.M. College of Engineering, Kollam, Kerala
- **Prof P. Rathish Kumar**, expert lecture on Key Sustainable Indicators in the One-week online QIP, Short Term Course on Sustainable Construction Practices by the Department of Civil Engineering, Indian Institute of Technology Indore on 16th October 2020
- **Prof P. Rathish Kumar** Keynote lecture on Condition Assessment and Non-Destructive Evaluation of Concrete in the One Week online STTP on "Earthquake Analysis of Tall Buildings", 6-12 August 2020 at Srinivasa Ramanujan Institute of Technology.
- **Prof P. Rathish Kumar**-Keynote Lecture on Sustainable Concrete Making Materials at the Five Day Online FDP on Sustainable Materials for Smart Cities: Challenges and Recent Trends 21-25 September 2020 at S.R.University, Warangal
- **Dr. P. Venkateswara Rao**, Planning, Designing, Monitoring and inspection of wastewater treatment systems, AP HRDI - Bapatla -Residential Training Programme for engineers.
- **Dr. P. Venkateswara Rao**, Global climate change and its Impacts, Kakatiya University, Warangal.
- **Dr. P. Venkateswara Rao**, Introduction to Environmental Impact Assessment, L&T Engineers, Khammam.
- **Dr. Arif Ali BaigMoghal**, Geotechnical Challenges and Stability Requirements in the Design of Landfills, AMS College of Engineering, Avadi, Chennai, 27 April 2020.
- **Dr. Arif Ali BaigMoghal**, Prospective Research Thrust Areas in Geotechnical and Geo-environmental Engineering, Gudlavalleru College of Engineering, Krishna District, Andhra Pradesh, 27 May 2020.

- **Dr. G. V. Ramana**, Construction Materials for Concrete and Masonry Structures, at NITW for three-day National Workshop on Technical Skills from 28th -30th May-2019.
- **Dr. G. V. Ramana,** Geo technical Investigations; Slope Stability for Approaches of Major bridges and flyovers, AP HRDI - Bapatla for Four Day Residential Training Programme on "Design of Bridges.
- **Dr. G. V. Ramana,** Statistical Approach of In-Situ Shear Strength Parameters of Rock Mass, Indo-China research webinar series is jointly initiated by faculties from Shantou University, China, SVNIT, Surat & Indian Geotechnical Society Surat Chapter on Date: 8th -19th May 2020.
- **Dr. P. Sridhar,** Sustainable building materials, FDP program at KITS Warangal, 27-31 August 2018.
- **Dr. P. Sridhar**, Energy economics of the AD process & design parameters/criteria for anaerobic digesters and commercial models for biogas production, FDP program at NIT Warangal, 27-31 August 2018.
- **Dr. B. Raghuram K**, Crash data versus Surrogate safety data for traffic safety analysis, Invited talk, Department of Civil Engineering, Terna Engineering College, 04 April 2020.
- **Dr. B. Raghuram K,** Role of Consumer Behaviour on Travel Behaviour Analysis, A 3-day on-line FDP on Advances in Civil Engineering, Department of Civil Engineering, Swarnandhra College of Engineering and Technology, 21-23 May 2020.
- **Dr. B. Raghuram K**, Evaluation of Urban Commuter Travel Behaviour and its impact on traffic emissions, One Week Short Term Training Program at Department of Civil Engineering, Shri Vishnu Engineering College for Women, 25th May 2020 to 30th May, 2020.
- **Dr. B. Raghuram K,** Urban Travel Commuters Behaviour and its Impact on Environment, E-Convention at Department of Civil Engineering, J D College of Engineering and Management, 30th May 2020.
- **Dr. P. Ravi Prakash,** Fire Safety in Structures, FDP, KPRIT Coimbatore, 15 May 2020.
- **Dr. Anand Kishore** had given an invited lecture on the topic "Nanofiltration Integrated with Photocatalysis for Environmental Applications" at the "ATAL" Faculty Development Program on "Nanotechnology for Green Processes and Sustainable Development" organized by Dept. of Chemical Engineering, VNIT Nagpur during 24-28 August 2020
- **Dr. Anand Kishore Kola** had given an invited lecture on the topic "Photocatalysis Integrated With Nanofiltration And Biofilms For Wastewater Treatment Applications" at TEQIP-III Sponsored Five day On-Line Faculty Development Program (FDP) on Recent Advances in Nanotechnology, Catalysis and Biochemical Engineering (RANCBE- 2020) organized by Department of Chemical Engineering, Veer Surendra Sai University of Technology, Burla, Odisha during 16-20'Sept, 2020.
- **Dr. Kishant Kumar** had given an invited lecture on the topic "Application of computer simulation in adsorption and diffusion of small gaseous molecule inside the porous matrix" in the North Eastern Regional Institute of Science and Technology, Arunachal Pradesh (Fully funded by MHRD, INDIA).
- **Dr. Anjana PA** had given an invited lecture on the topic "Heterogeneous catalytic reaction mechanism: From bulk to surface" for Webinar at department of Chemical Engineering, Amal Jyothi Institute, Kerala on 19th August, 2020.
- **Dr. Anjana PA** had given an invited lecture on the topic "Critical descriptors for heterogeneous catalysis" for FDP on Nano Science and Technology (Energy, Environment and healthcare) organised by Sathyabama Institute of Science and Technology in association with Indian Institute of Information Technology, Design and manufacturing (IIITDM) Kancheepuram on 4th July, 2020
- **Dr. Anjana PA** had given an invited lecture on the topic "Role of catalyst and electrocatalyst in Energy applications", 2020 for FDP on Challenges and opportunities of energy and sensor applications organized by JNTUA College of Engineering, Ananthapur on 25th September.
- **Dr. P. Sampath Kumar** had given an invited lecture on the topic "Super capacitors based on binary and ternary nano composites of polyaniline, graphene and metal oxide electrode materials" for PG Students of Nanotechnology, organized by Centre for Nano Science and Technology, IST, JNTUH, Hyderabad on 17th Sep 2020.
- **Dr. P. Sampath Kumar** had given an invited lecture on the topic "Supercapacitors based on binary and ternary nano composites: Some approaches, Challenges and Opportunities" for the 4 Day FDP on " Challenges and Opportunities of Energy and Sensor Application" Organized by Department of Electrical and Electronics Engineering, JNTUA , Anantapur on 23rd Sep 2020.
- Guest Lecture by **Prof. Neti Vishwanathan** at College of Engineering, Pune on " High Gain Converters" (24.09.2020).
- Guest Lecture by Prof. Neti Vishwanathan at Vasavi College of Engineering on "Electrical Power Control" (16.09.2020).
- Guest lecture delivered by **Prof. M. Sailaja Kumari**, in A Five day Online Faculty Development Programme on " Recent Challenges and Emerging Techniques in Microgrid " organized by department of Electrical and Electronics Engineering, G. Narayanamma Institute of Technology and Science (for women), Hyderabad, Telangana during 16-20th June 2020. Title of the lecture 'Wind forecasting studies'.
- **Dr. Y Chandrasekhar,** Expert talk on "DG and EV Charging Stations in a Deregulated system" at Jayamukhi Institute of Technological Sciences under AICTE online STTP (rddpf-2020) Date: 25th August-2020.
- **Dr. Y Chandrasekhar ,** Expert talk on "Optimal Dispatch of Electric Vehicle Battery in EV Charging Stations and Its Impact on Distribution System" at CBIT, Hyd in AICTE sponsored Short Term Training Program on "Trends &Amp; Challenges Of Hybrid Electric Drive Utilities In Transport Sector". Date: 4th August-2020

- **Dr. Y Chandrasekhar,** Expert talk on "Optimal Planning of EV Charging stations and impact on distribution systems" at Sridevi Women's Engineering College in One Week National level Faculty Development Program on Electrical Vehicles – Design, Development and Challenges. Date: 18th July-2020.
- **Dr. A. V. Giridhar,** expert session on "Condition Monitoring & Testing of Electrical Equipment" organized by Electrical Engineering Department ,G H Raisoni Institute of Engineering & Technology, Pune in association with IETE & ISTE chapter on 27/08/2020.
- Expert Lecture Delivered by **Dr. Palash Mishra** Composite insulators: Recent trends and technologies, FDP Name: Emerging Techniques in Smart Power System: Challenges and Solutions, NIT Warangal Telangana
- **Dr. I Satish Kumar,** ROEETEC2020, Tirumala Engineering College, Andhra Pradesh, on 24th and 26th May 2020.
- **Dr. I Satish Kumar** ,Applications of Optimization Techniques to Electrical Engineering, 22nd– 26th June 2020 Gayathri Vidya Parishad College of Engineering for Women, Visakhapatnam, Andhra Pradesh.
- **Dr. Ram Krishan**, Electrical Vehicles impacts on distribution System, 28 August, NIT Warangal
- **S. Nagarajan** has delivered invited webinar talk on Soft materials by self-assembly in Faculty Development Programme on Materials Science & Nanotechnology" organized by Department of Chemistry, B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai-48, on 16/08/2020 and one week Online Faculty Development Programme on "Recent Avenues in Chemical Sciences" organized by the Department of Chemistry, Saranathan College of Engineering, Trichy from 22.06.2020 to 28.06.2020.
- **Dr. S. Nagarajan** has delivered invited webinar talk on assembled advanced organic materials, Webinar on Advanced organic materials organized by PG and Research Department of Chemistry, National College, Trichy, Tamil Nadu, India on 03/06/2020
- **Dr. S. Nagarajan** has delivered invited webinar talk on Molecular Self-Assembly: An Elegant Strategy to Construct Advanced Organic Materials, Webinar on Molecular Self-Assembly: An Elegant Strategy to Construct Advanced Organic Materials organized by Department of Chemistry, Easwari Engineering College, Chennai, Tamil Nadu, India on 02/06/2020
- **Dr. Raghu Chitta** has delivered invited webinar talk on 'Atomic Spectroscopy" at A National Webinar on Lecture Series on Spectral Techniques on 4th July, 2020 at Palamuru University
- **Dr. I Satish Kumar,** AICTE sponsored Short Time Training Programm (STTP), Integration, Storage and Control 0f Hybrid Energy Systems 2020, at Geetanjali College of Engineering, Hyd, on 4th August 2020.
- **Dr. Ram Krishan**, Demand Response in Micro Grids, 22nd july 2020, NIT Warangal
- **Dr. Brahma Raju Golla** Delivered an invited talk (on 21st September 2020) entitled, "High Temperature Materials" for Faculty Development Program on Novel Materials sponsored by AICTE Training and Learning (ATAL) Academy at Rajkiya Engineering College Banda, India (Sept. 18-22, 2020).
- **Dr. K. Madhavi,** Associate Professor, HSS, delivered expert lecture on 'Professional Ethics' on 22 Sept, 2020, in the AICTE Sponsored One-Week Online Faculty Development Programme on Life Skills - Emotional Intelligence, on 22 nd Sept, 2020, organized by Department of Science & Humanities, St. Martin's Engineering College (UGC Autonomous)NBA & NAAC A+ Accredited, Dhulapally, from 21-25 September 2020.
- **Dr. K. Madhavi,** Associate Professor, HSS, Invited as Guest of Honour during the Inaugural of the Online 'Techy Kidz A Virtual Dissemination Event, organized by the English Language Teachers Association ELTA, Warangal Urban Telangana on September 18th 2020
- **Dr. K. Madhavi,** Associate Professor, HSS, "Writing Successful Research Proposals" in a three days online FDP on "Scientific Communication for Research Paper and Proposal Writing" conducted during 1-07-2020 to 3-07-2020 by the Department of Information Technology, PSG College of Technology, Coimbatore.
- **Dr. K .Madhavi,** Associate Professor, HSS, Delivered expert lecture online through Google meet on Curriculum-based Educational Applications on 18-06-2020 in a Five Day AICTE Training & Learning (ATAL) Academy online Faculty Development programme on 'Virtual Reality in Education' , " organized by National Institute of Technology, Warangal from 16-06-2020 to 20-06-2020.
- **Dr. K. Madhavi,** Associate Professor, HSS, Delivered expert lecture online on "Areas of use - VR in Education: Training to Acquire Certain Skills" on 19-06-2020, in a Five-Day AICTE Training and Learning Academy (ATAL) online Faculty Development programme on 'Virtual Reality in Education' (VRE) organized by National Institute of Technology,
- **K.Madhavi,** Associate Professor, HSS, Delivered expert lecture online on 'Making Classroom Learning and Teaching Effective' in a "One week Faculty Development Program on Research Methodology and Teaching Pedagogy" in association with Institute of Engineers (India) and Indian Society of Technical Education (ISTE) organised by Tulsiramji Gaikwad-Patil College of Engineering and Technology, Mohgaon, Wardha Road, Nagpur on 11- 06-2020.
- **Dr. R. Vennela,** Asst.Professor, HSS, Resource person for a session on 'Source Use in Academic Writing', at the One-week Online Short-term Workshop on Academic Writing for Faculty, Organised by UGC-HRDC, University of Hyderabad, Hyderabad, 17th to 22nd August 2020.
- **Dr. R. Vennela,** Asst.Professor, HSS, Expert for a session for govt. school teachers on 'How to write a research paper?', Organised by ELTA - Telangana, 10th June 2020.
- **Prof. P. Ravi Kumar** delivered an Expert Lecture on "Fitness as Immunity Booster" – during online FDP on Cyber-Physical Production Systems sponsored by AICTE – ATAL Academy Program at NIT, A.P., on 25-09-2020.
- **Prof. P. Ravi Kumar** delivered an Expert Lecture on "Fitness – A Way of Life" in Webinar for the Engineering Students of A.P. in Association with APSSDC, IEEE Vizag Chapter on 06-10-2020.

Guest Talks by Foreign Experts

Dr. Fan Yin, Assistant Research Professor, National Center for Asphalt Technology, Auburn, USA, 'Balanced mix design', Sept 4, 2020

Dr. Raymond (Buzz) Powell, Assistant Director, Senior Research Engineer, National Center for Asphalt Technology, Auburn, USA, 'Accelerated Pavement Testing at NCAT Pavement Test Track', Sept 11, 2020

Prof Ray Brown, Director Emeritus, National Center for Asphalt Technology, Auburn, USA, Investigation of Asphalt Pavement Performance Problems, Sept 18, 2020

Prof Nick Thom, Professor, University of Nottingham, UK, Design of Cement Grouted Macadams, Sept 26, 2020

Dr. Jonanthan D Hall, Assistant Professor, University of Toronto, Canada, Pareto Improvements from Lexus Lanes: The Effects of Pricing a Portion of the Lanes on Congested Highways, Oct 3, 2020

Dr Rajesh Paleti, Assistant Professor, Pennsylvania State University, USA, Count Data Modelling: Recent Advances and Transportation Applications, Oct 10. 2020

School of Management Alumni Relations Team has been very active in maintaining good bond with the Alumnus of the School. They have actively arranged many webinars with the support of the Alumni.

Alumni Talk series (Webinar series 1.0):

- Mr. N Raghuram, Manager/HR, (at a PSU) -Basics of disciplinary actions in an Industry and general Interaction with a career opportunity at PSU. On 8th August 2020
- Deepak Cyril, People Resource Specialist, Sembcorp Energy India Limited – Career Opportunities on 23rd August 2020
- Mr.Sandeep Chowdary K V, AM, New Projects, Krishnapatnam Port Company Limited - Scope of marketing in different domains (with more views on the telecom sector) and experience sharing on 11th September 2020
- Ms.Harshita J, HR, How to crack Interviews(Exclusively for campus placements) on 15th September 2020

Leadership Talk series (webinar Series 2.0):

- Dr. Lakshmi Prasad (MD & CEO, Sujay Biotech Pvt Ltd) - Successful Entrepreneurship on 2nd July 2020
- Mr. Gary Seaton (Founder and chairman G&G group of companies) – Transition of Economy on 8th July 2020
- Mr. Balasubramanian (MD & CEO Aditya Birla life AMC Ltd.) – Crisis as an opportunity: Impact of COVID-19 in Indian economy, market and governance on 16th July, 2020



Corporate Talk series (webinar Series 2.0):

- Ankit Choudary (Sr. product manager, Microsoft) – Data driven product management on 19th July 2020
- Debashish Gosh – (VP & Country HR Head, Berkadia commercial Mortgage LLC) – Impact of COVID – 19 on the HR function and skills on 26th July, 2020
- Mr. Deepak Goel, CEO, Digitally Next -Pivot your career towards Digital in CoVID times on 7th August 2020
- Ms.Harini Sreenivasan, Partner, Semcostyle Institute India- Reboot and Reinvent skills to shape your future on 16th August 2020
- Mr.Srujan Chada, Founder,Royal Mail – Agility of Life on 29th August 2020
- Mr.Koppoli Krupanand, Vice President, VPR Infrastructutre Pvt.Ltd. – People Management on 6th September 2020
- Mr.Gautam Nimmagadda, Founder and CEO, Quixy – Big vs Fast on 19th September 2020
- Mr.Rajiv Mangal, President and CEO, Tata Steel Thailand - Leadership in turbulent times on 27th September 2020



New initiatives by the Central Library

Prof. N.V. Raman Rao, Director, NITW has inaugurated the following new services initiated by the Central Library on 23-10-2020 for the benefit of Faculty and Students:

- **Web Online Public Access Catalogue (OPAC)**: The Central Library has implemented KOHA - Integrated Library Management Software for automation of library functions. The Online Public Access Catalogue (OPAC) was available only over the Intranet, through which users can browse the catalogue of print resources available in the Central Library at NIT Campus, Warangal. An open source link of e-books was also provided in this OPAC. During the prevailing Covid-19 situation, students and faculty were not able to access open e-resource links provided through the OPAC. Hence, Web-OPAC is implemented using cloud computing to overcome the access problem. Henceforth, the faculty and students can access the open source link of e-books from anywhere and anytime by using the following link. http://nitwopac.in:7071/
- **NITW - FACULTY INFORMATION SYSTEM**: A Central Library Initiative: The Central Library has implemented a new "Faculty Information System" under the Indian Research Information Network System (IRINS) to showcase the academic and research activities of the institute faculty members and provide an opportunity to create a scholarly research network. The NITW- Indian Research Information Network System (IRINS) will support the integration of the existing research management system such as HR system, course management, grant management system, institutional repository, Open and commercial citation databases, scholarly publishers, etc. This will be integrated with the academic identities such as ORCID ID, Scopus ID, Research ID, Microsoft Academic ID, and Google Scholar ID for ingesting the scholarly publication from various sources. This Faculty Information System can become the source for the NIRF, NAC and other international raking systems. The Faculty Information System can be accessed by everyone through the following link: https://nitw.irins.org/
- **State-of-the-Art Digital Library**: The Central Library has acquired and installed 48 new computers with higher configuration (32 RAM and 1 TB HDD) for the Digital Library for the benefit of faculty and students

Physical Education Department

Department of Physical Education, NITW organized *Fit India Movement* from 18-09-2020 to 02-10-2020 where 2KM Run/Walk, Cycling, Yoga and Tree Plantation activities were conducted.

In connection with Fit India Movement "**New India, Fit India, Young India through Yoga**" book was released by P**rof. N.V. Ramana Rao**, Director, which was compiled by **Dr. P. Ravi Kumar**, Professor Department of Physical Education.







Obituary:

One of our beloved colleagues, **Dr. E. Venkatarathnam,** Professor, Department of Civil Engineering passed away due to complications from CoVID, on Aug 21, 2020. His soft spoken, humble demeanour and hardworking contributions to the department and Institute shall be severely missed by all. He is survived by his wife, daughter and son.



Late Prof. E. Venkatarathnam

Institute Information Advisory Committee (IIAC)

Sl. No.	Department	Name of in charge of Department Information	Designation	Mobile number	E-mail
1	ADVISOR(QA&AA)	Dr. S. Srinivasa Rao	Professor	8332969313	advisor_qaaa@nitw.ac.in
2	ASSOCIATE DEAN (ACADEMIC AUDIT)	Dr. K. Srikanth	Associate Professor	8332969720	asd_aa@nitw.ac.in
3	CIVIL	Dr. T. P. Tezeswi	Assistant Professor	8332969423	tezeswi@nitw.ac.in
4	ELECTRICAL	Dr. G. Siva Kumar	Assistant Professor	8332969 295 7702716890	gsivakumar@nitw.ac.in
5	MECHANICAL	Dr. P Vamsi Krishna	Associate Professor	8332969371	vamsikrishna@nitw.ac.in
6	ECE	Dr. G. Arun Kumar	Assistant Professor	9491065971	g.arun@nitw.ac.in
7	M&M	Dr. G. Brahma Raju	Assistant Professor	8332969389	gbraju@nitw.ac.in
8	CHEMICAL	Dr. P. Sampath Kumar	Assistant Professor	8497968889	pskr@nitw.ac.in
9	CSE	Dr. R. Padmavathy	Associate Professor	9440173819	rpadma@nitw.ac.in
10	BIOTECH	Dr. Priya	Assistant Professor	9167474235	priyap@nitw.ac.in
11	MATHEMATICS	Dr. Y. Srinivasa Rao	Assistant Professor	9494776866	ysr@nitw.ac.in
12	PHYSICS	Dr. Jayalakshmi	Assistant Professor	8332969477	jayalakshmiv@nitw.ac.in
13	CHEMISTRY	Dr. S. Nagarajan	Assistant Professor	9940430715	snagarajan@nitw.ac.in
14	SOM	Dr.P.R.C.Gopal	Assistant Professor	9843716992	prcgopal@nitw.ac.in
15	HUMANITIES&SOCIAL SCIENCES	Dr. Madhumathi P.	Assistant Professor	9943401929	madhumathi.p@nitw.ac.in
16	CENTER FOR CAREER PLANNING & DEVELOPMENT (CCPD)	Dr. S. Vidyasagar	Associate Professor& Faculty Coordinator (CCPD)	9490164976 8332969463	vidyasagars@nitw.ac.in

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Email: editor_newsletter@nitw.ac.in