

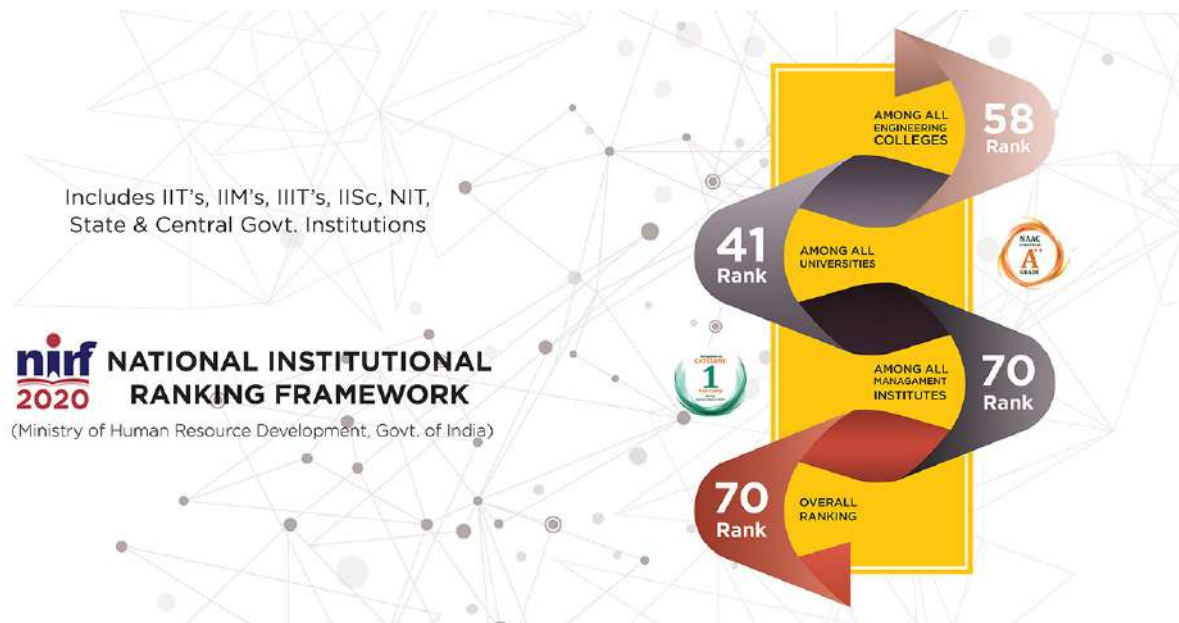


PANORAMA

VOLUME 13 | ISSUE 1 | JULY 2021

**BUILDING FUTURE
READY LEADERS**





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KL PANORAMA

VOLUME 13

ISSUE 1

July 2021

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The Newsletter is published by publishing division of KL University on behalf of Management of KL University.

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PRESIDENT'S MESSAGE



President
Er. Koneru Satyanarayana

Dear Reader,

KL is well known for its academic excellence and dedicated approach towards dissemination of knowledge in the academic world. We are happy to announce that the institute was ranked 7th (All India) by TIMES ENGINEERING INSTITUTE RANKING SURVEY 2021. Our university maintained the Rank 1 in Placement, Research and Infrastructure in Entire AP/TS. K L University, Research Block has been awarded GRIHA Five Star Provisional Rating from GRIHA Council.

K L University is taking giant strides in building future ready leaders in engineering. Our programs update the courses frequently to match the current and future requirements of the world. We even train our students to be prepared for jobs that probably don't exist today but which will have a demand in the foreseeable future. However, what we do offer students is an opportunity to excel in not just education, but also try their hand at entrepreneurship, sports, extra-curricular activities, and encourage them to participate in competitions around the world. We see our students return with several accolades, learn in a conducive environment that we provide for them - all in all, become what we aimed for them to be - future ready leaders.

At KLU, we educate the students and impart adequate practical knowledge, quality of education, exposure on social skills/soft-skills required for jobs. For us, education doesn't start or stop with basic coursework. We believe our students have to be prepared for almost anything outside the gates of the campus - and for that, training begins much before their day one. Our primary goal is to provide quality education to every student that walks through our doors.

K L offers several academic flexibilities to students to pursue an education of their choice and interest like fully flexible choice based credit system, degree with specialization, B.Tech with Honors, minor degree, branch change, online-based MOOCs, outcome-based education, self learning, blended learning, project-based learning, flipped classrooms, peer learning and labs taken to class. We have specialized labs and setups by leading software giant's who train our students in their latest technology. With KLU's specialized training programs that students undertake simultaneously with their academics, we make it easier for companies to pick our students. Further, we even encourage some companies to set up their specific training programs for our students so they can choose from this group of students themselves to match their requirements. At the end of the day, a student pursues higher education to qualify for a job - we just make the journey a lot better for them.

This issue of newsletter covers the events organized by departments, Academic Staff College, Activities of CIIE, Series of guest lectures, workshops, training programs and sports related activities. Experts from academic and corporate sectors shared their experiences with the students and faculty members via online mode. The achievement by our faculty members and students are also recorded in this issue. We look forward to your comments and suggestions. The Graphics Design team made efforts to present this issue in aesthetic and appealing way. The Editorial Team hopes that the issue will meet the expectations of the web readers.

Happy Reading!

- **Er. Koneru Satyanarayana**
President - KLEF



#WeAreFutureReady

PROUD TO BE NO.1

Times of India Rankings - In AP/TS we are in **Top 1**
 Top Private Universities - we are in **Top 2**
 Including govt IITs - we are in **Top 7**



By 


#WeAreFutureReady

UNPARALLELED EDUCATION INNOVATION AND PLACEMENTS








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THINK DYNAMICALLY

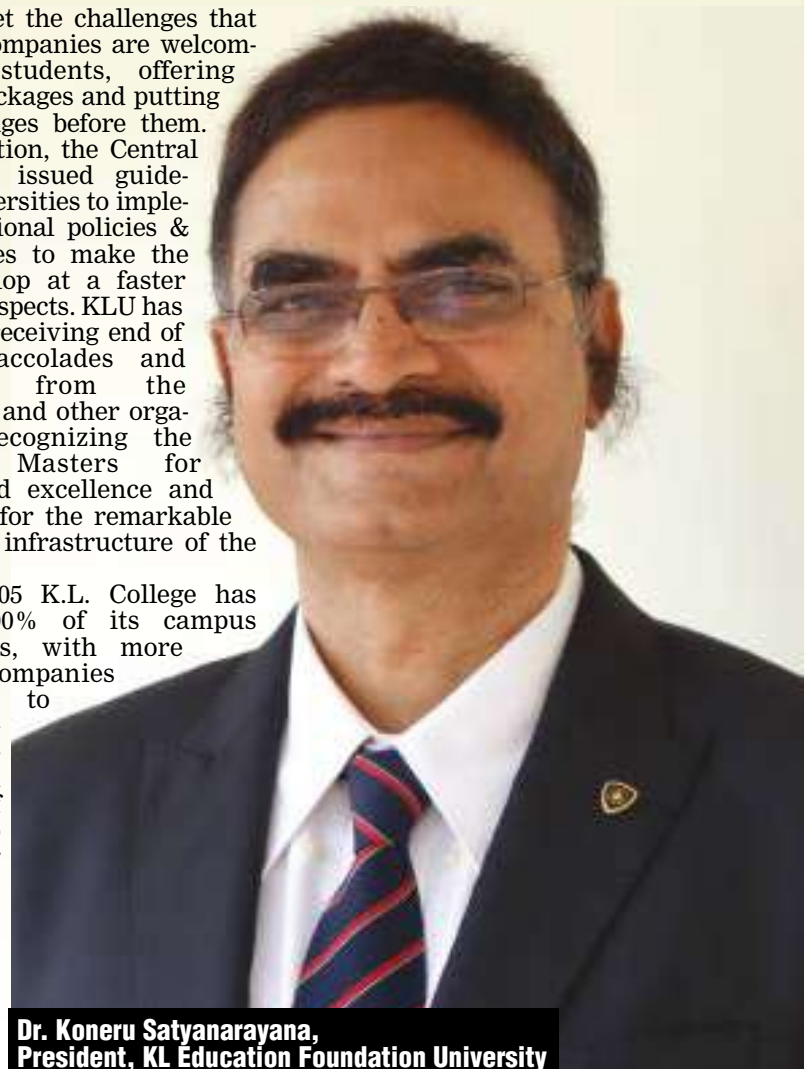
EXPERIENCE EDUCATION A NOTCH ABOVE THE CUSTOMARY WITH KLU

Within a radius of 9 km from Vijayawada City, Koneru Lakshmaiah Engineering College, established in 1980 is known for its status as an educational hub. It has a campus of 100 acres. It attained the status of an Autonomous College in 2006, subsequently a Deemed University in 2009. From its inception as an Engineering college, KL attained the status of a UGC (Category-1), NAAC A++. It has been imparting world-class technical education for 41 years, leading the way in research & innovations while blooming with greenery and scaling new horizons for years to come. It is initiating a novel educational policy, that is up to the International Standards, suitably offering Industrial and Research oriented Training.

KLU's Education Policy aims to generate Entrepreneurs/Industrialists who can think dynamically with innovations and create employment drifting away from the perception that a course in engineering is only a launching pad to get a secured job. Following the Pandemic, there is a greater demand for technology, novel thinking, expertise, and students

that can meet the challenges that lie ahead. Companies are welcoming these students, offering attractive packages and putting open challenges before them. In this situation, the Central Government issued guidelines to Universities to implement educational policies & methodologies to make the nation develop at a faster phase in all aspects. KLU has been at the receiving end of numerous accolades and affiliations from the Government and other organizations recognizing the proficient Masters for research and excellence and additionally for the remarkable campus and infrastructure of the institution.

Since 2005 K.L. College has achieved 100% of its campus appointments, with more than 200 companies approaching to hire on campus and continues with the spirit of excelling to reach greater milestones.



**Dr. Koneru Satyanarayana,
President, KL Education Foundation University**





Circulated with The Times of India, Hyderabad, Vizag and Vijayawada

Monday, 26 July, 2021

An Advertorial, Education Promotional Feature
An Optimal Media Solutions Initiative, A division of Times Internet Limited



TIMES ENGINEERING INSTITUTE RANKING SURVEY 2021

The objective of this research is to arrive at a list of top engineering colleges offering full time courses -including four-year courses in Telangana and Andhra Pradesh

Top Private Engineering Institutes Rankings 2021 - Andhra Pradesh

Name	Rank
Koneru Lakshmaiah Education Foundation(KLEF) Deemed To Be University, Vijayawada	1
SRKR Engineering College, Bhimavaram	2
R.V.R & J.C College Of Engineering, Guntur	2
Rajeev Gandhi Memorial College Of Engineering & Technology (Autonomous), Nandyal	3
Prasad V Potluri Siddhartha Institute Of Technology, Vijayawada	3
Narasaraopeta Engineering College, Guntur	4
Aditya Institute Of Technology And Management, Tekkali	5
Godavari Institute Of Engineering & Technology (Autonomous), Rajahmundry	6
Madanapalle Institute Of Technology & Science, Chittoor	7
Audisankara College Of Engineering & Technology (Autonomous), Gudur	7
Lendi Institute Of Engineering And Technology, Vizianagaram	8
Aditya College Of Engineering, Surampalem	9
G.Pulla Reddy Engineering College (Autonomous), Kurnool	10
GMR Institute Of Technology, Srikakulam	11
Sri Venkateswara Engineering College, Tirupati	12
Anil Neerukonda Institute of Technology and Sciences, Vizag	13

TOP AP PRIVATE INSTITUTES - PLACEMENTS

Name	Rank
Koneru Lakshmaiah Education Foundation(KLEF) Deemed To Be University, Vijayawada	1
SRKR Engineering College, Bhimavaram	2
Anil Neerukonda Institute of Technology and Sciences, Vizag	3
R.V.R & J.C College Of Engineering, Guntur	4
Madanapalle Institute Of Technology & Science, Chittoor	5

TOP AP PRIVATE INSTITUTES - RESEARCH CAPABILITIES

Name	Rank
Koneru Lakshmaiah Education Foundation(KLEF) Deemed To Be University, Vijayawada	1
Anil Neerukonda Institute of Technology and Sciences, Vizag	2
SRKR Engineering College, Bhimavaram	3
Lendi Institute Of Engineering And Technology, Vizianagaram	4
Aditya College Of Engineering, Surmapalem	5

TOP AP PRIVATE INSTITUTES - INFRASTRUCTURE

Name	Rank
Koneru Lakshmaiah Education Foundation(KLEF) Deemed To Be University, Vijayawada	1
Anil Neerukonda Institute of Technology & Sciences, Vizag	2
Rajeev Gandhi Memorial College Of Engineering & Technology (Autonomous), Nandyal	3
R.V.R & J.C College Of Engineering, Guntur	4
Lendi Institute Of Engineering And Technology, Vizianagaram	5



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TIMES ENGINEERING INSTITUTE RANKING SURVEY 2021

The objective of this research is to arrive at a list of top engineering colleges offering full time courses -including four-year courses in Telangana and Andhra Pradesh

Top 20 Private Engineering Ranking Institutes - South

Name	Rank
SRM Institute Of Science And Technology, Chennai	1
Koneru Lakshmaiah Education Foundation(KLEF) Deemed To Be University, Vijayawada	2
Sathyabama Institute Of Science And Technology, Chennai	3
REVA University, Bengaluru	4
IcfaiTech, Hyderabad	5
Hindustan Institute Of Technology & Science (Deemed To Be University), Chennai	6
Vels Institute Of Science ,Technology And Advanced Studies (VISTAS), Chennai	7
Gokaraju Rangaraju Institute Of Engineering And Technology, Hyderabad	8
Vardhaman College Of Engineering, Hyderabad	9
AMC Engineering College, Bangalore	10
Kalasalingam Academy Of Research And Education, Srivilliputhur	11
R.M.K. Engineering College, Chennai	12
Kongu Engineering College, Erode	13
Sona College Of Technology, Salem	14
BNM Institute of Technology, Bangalore	15
Anurag University, Hyderabad	16
Shri Dharmasthala Manjunatheshwara College of Engineering and Technology, Dharwad	17
Siddaganga Institute of Technology, Tumkur	18
Bannari Amman Institute Of Technology, Erode	19
BLDEA's Vachana Pitamaha Dr.P.G Halakatti College of Engineering & Technology, Vijayapur	20


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KL University's Research Block Awarded with



FIVE STAR
Provisional
rating for the year
2021



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 www.kluniversity.in

2nd

RANKED

Among
Top T-Schools
in India

As per survey by
DataQuest-2021



25

**LAKH REWARDS
TOP 25 RANKERS**

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Innovation & Placements

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కేఎల్ యూకు మరో అరుదైన గౌరవం

సెంట్రల్ రిసెర్చ్ బ్లాక్ కు ఇంటిగ్రేటెడ్ హాబిటాట్ అసెస్మెంట్ గ్రీన్ రేటింగ్ లో 5 స్టార్



విజయవాడ, జూలై 29 (ప్రభుత్వం): కే.ఎల్.విశ్వవిద్యాలయానికి మరో అరుదైన అవార్డు లభించింది. విశ్వవిద్యాలయంలోని సెంట్రల్ రిసెర్చ్ బ్లాక్ కు ఇంటిగ్రేటెడ్ హాబిటాట్ అసెస్మెంట్ గ్రీన్ రేటింగ్ లో 5 స్టార్ రేటింగ్ లభించిందని విశ్వవిద్యాలయ రిజిస్ట్రార్ డాక్టర్ వై.వి.ఎస్.ఎస్.ఎస్.వి.ప్రసాదరావు గురువారం ఒక ప్రకటనలో తెలిపారు. భారత్ దేశంలో హరిత భవన కార్యకలాపాలు, ప్రక్రియలను నిర్వహించడానికి గ్రీన్ స్పేస్ వాయువు ఉద్ధారాలను తగ్గించడం లో ఇంధన వినియోగం, సహజ వనరుల పై ఒత్తిడిని తగ్గించడం ద్వారా పర్యావరణ మెరుగుదలతో సమాజానికి పెద్దగా ప్రయోజనం చేకూర్చే విధంగా తమ కట్టడాలు ఉండటం వలన తమకు ఈ అవార్డ్ లభించిందని తెలిపారు. ఇంతటి మనత సాదించినందుకు పి అండ్ డి డీన్ డాక్టర్ రాజేష్ అండ్ టీంకు విశ్వవిద్యాలయంలో పని చేస్తున్న ప్రతి ఒక్కరిని విశ్వవిద్యాలయ యాజమాన్యం, ఇన్ ఛార్జ్ ఉపకులపతి డాక్టర్ ఎన్ వెంకట్రామ్, ప్రొ వైస్ ఛాన్సలర్ డాక్టర్ వర్మ, వివిధ కౌన్సిల్ డీన్, వివిధ విభాగాల విద్యార్థులకు అభినందనలు తెలియజేశారు.

భాగ్యలక్ష్మి Fri, 30 July 2021
<https://epaper.prabhakaranews.com/c/6213319>

ఈనాడు
epaper.eenadu.net

కేఎల్ యూ సెంట్రల్ రిసెర్చ్ బ్లాక్ కు పురస్కారం

తాడేపల్లి, న్యూస్ టుడే: నగరంలోని ఎడె శకం లోని కేఎల్ డిప్లొ విశ్వవిద్యాలయంలోని సెంట్రల్ రిసెర్చ్ బ్లాక్ కు గ్రీన్ రేటింగ్ హాబిటాట్ అసెస్మెంట్ లో 5 స్టార్ రేటింగ్ లభించిందని రిజిస్ట్రార్ డాక్టర్ వై.వి.ఎస్.ఎస్.ఎస్.వి.ప్రసాదరావు గురువారం ఒక ప్రకటనలో తెలిపారు. భారత్ దేశంలో హరిత భవన కార్యకలాపాలు, ప్రక్రియలను నిర్వహించడానికి గ్రీన్ స్పేస్ వాయువు ఉద్ధారాలను తగ్గించడం ద్వారా పర్యావరణ మెరుగుదలతో సమాజానికి పెద్దగా ప్రయోజనం చేకూర్చే విధంగా తమ కట్టడాలు ఉండటం వలన తమకు ఈ అవార్డ్ లభించిందని తెలిపారు. ఇంతటి మనత సాదించినందుకు పి అండ్ డి డీన్ డాక్టర్ రాజేష్ అండ్ టీంకు విశ్వవిద్యాలయంలో పని చేస్తున్న ప్రతి ఒక్కరిని విశ్వవిద్యాలయ యాజమాన్యం, ఇన్ ఛార్జ్ ఉపకులపతి డాక్టర్ ఎన్ వెంకట్రామ్, ప్రొ వైస్ ఛాన్సలర్ డాక్టర్ వర్మ, వివిధ కౌన్సిల్ డీన్, వివిధ విభాగాల విద్యార్థులకు అభినందనలు తెలియజేశారు.



Date : 30/07/2021 EditionName : ANDHRA PRADESH(GUNTUR CITY) PageNo : 05

కేఎల్ వర్బటీకి మరో అరుదైన గౌరవం

ప్రతాపతి - తాడేపల్లి రూరల్ : కే.ఎల్.విశ్వవిద్యాలయంలోని సెంట్రల్ రిసెర్చ్ బ్లాక్ కు ఇంటిగ్రేటెడ్ హాబిటాట్ అసెస్మెంట్ గ్రీన్ రేటింగ్ లో 5 స్టార్ రేటింగ్ లభించిందని రిజిస్ట్రార్ డాక్టర్ వై.వి.ఎస్.ఎస్.ఎస్.వి.ప్రసాదరావు గురువారం ఒక ప్రకటనలో తెలిపారు. భారత్ దేశంలో హరిత భవన కార్యకలాపాలు, ప్రక్రియలను నిర్వహించడానికి గ్రీన్ స్పేస్ వాయువు ఉద్ధారాలను తగ్గించడం ద్వారా పర్యావరణ మెరుగుదలతో సమాజానికి పెద్దగా ప్రయోజనం చేకూర్చే విధంగా తమ కట్టడాలు ఉండటం వలన తమకు ఈ అవార్డ్ లభించిందని తెలిపారు. ఇంతటి మనత సాదించినందుకు పి అండ్ డి డీన్ డాక్టర్ రాజేష్ అండ్ టీంకు విశ్వవిద్యాలయంలో పని చేస్తున్న ప్రతి ఒక్కరిని విశ్వవిద్యాలయ యాజమాన్యం, ఇన్ ఛార్జ్ ఉపకులపతి డాక్టర్ ఎన్ వెంకట్రామ్, ప్రొ వైస్ ఛాన్సలర్ డాక్టర్ వర్మ, వివిధ కౌన్సిల్ డీన్, వివిధ విభాగాల విద్యార్థులకు అభినందనలు తెలియజేశారు.

భాగ్యలక్ష్మి Fri, 30 July 2021
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కే.ఎల్ వర్బటీకి మరో అరుదైన గౌరవం

మంగళగిరి, జూలై 29, ప్రభాకర్ : కే.ఎల్.విశ్వవిద్యాలయంలోని సెంట్రల్ రిసెర్చ్ బ్లాక్ కు ఇంటిగ్రేటెడ్ హాబిటాట్ అసెస్మెంట్ గ్రీన్ రేటింగ్ లో 5 స్టార్ రేటింగ్ లభించిందని రిజిస్ట్రార్ డాక్టర్ వై.వి.ఎస్.ఎస్.ఎస్.వి.ప్రసాదరావు గురువారం ఒక ప్రకటనలో తెలిపారు. భారత్ దేశంలో హరిత భవన కార్యకలాపాలు, ప్రక్రియలను నిర్వహించడానికి గ్రీన్ స్పేస్ వాయువు ఉద్ధారాలను తగ్గించడం ద్వారా పర్యావరణ మెరుగుదలతో సమాజానికి పెద్దగా ప్రయోజనం చేకూర్చే విధంగా తమ కట్టడాలు ఉండటం వలన తమకు ఈ అవార్డ్ లభించిందని తెలిపారు. ఇంతటి మనత సాదించినందుకు పి అండ్ డి డీన్ డాక్టర్ రాజేష్ అండ్ టీంకు విశ్వవిద్యాలయంలో పని చేస్తున్న ప్రతి ఒక్కరిని విశ్వవిద్యాలయ యాజమాన్యం, ఇన్ ఛార్జ్ ఉపకులపతి డాక్టర్ ఎన్ వెంకట్రామ్, ప్రొ వైస్ ఛాన్సలర్ డాక్టర్ వర్మ, వివిధ కౌన్సిల్ డీన్, వివిధ విభాగాల విద్యార్థులకు అభినందనలు తెలియజేశారు.



భాగ్యలక్ష్మి Fri, 30 July 2021
<https://epaper.vaartha.com/c/62133412>



Speakers :

1. Dr.Nandita Sethi, Founder & Managing Director 'The Entrepreneur Zone' on 21st June 2021 on the topic 'Conversion of seed level innovation driven by Research to Incubation, Startup & Entrepreneurship'
2. Mr.R. Sreeram, Founder & Managing Director, Eruvaka Technologies on 22nd June 2021 on the topic 'Sector specific Entrepreneurship - Understanding local to global users'
3. Mr.M.V.A.L Narasimha Rao, Assistant Registrar & Assistant Professor-K L Business School on 22nd June 2021 on the topic 'The Art of Pursuing Entrepreneurial Career - Concepts, Process and Challenges'
4. Mr. Venkatesh, 'Yerrakula & Associates' on 23rd June 2021 on the topic 'Types of Startup Registrations and legal implications on non-operating Startups'
5. Dr.K.Raja Sekhar, Associate Dean- IIE & IPR , Professor, CSE Dept. on 24th June 2021 on the topic 'Project opportunities with CIIE and various funding opportunities from Government Agencies and other investors'

Participation of Students from KLEF in quarter finals of 'Toycathon' at national level held on 22 June - 24 June 2021

Students from the second year of CSE from KLEF (in academic year 2020-21), in the month of Jan 2021 contested in the all India level 'Toycathon' competition as an academic assignment for the course 'Business of Games & Entrepreneurship' handled by

Dr.K.Raja Sekhar. Out of vast number of contestants across the country, team 'Matrix' from CSE of KLEF was qualified to participate in the quarter finals at national level for the project 'Upanayati'

Members of the 'Matrix' team :G.Pavan Sai(Team Lead) (190030524),P.HanuShanmukh Priya (190030590), G.Vamsi Mithra (190030514),Bhavya Satya Sri(190031679),L.Siddharth(190030941)

Internal Faculty guide: Mr.J.Surya Kiran, Asst. Professor,CSE Department.

About Toycathon



Toycathon 2021 is an inter-ministerial initiative organized by Ministry of Education's Innovation Cell with support from All India Council for Technical Education, Ministry of Women and Child Development, Ministry of Commerce and Industry, Ministry of MSME, Ministry of Textiles and Ministry of Information and Broadcasting.

Currently, India's toy market stands at around 1.5 billion USD, which primarily is dominated by imported toys. Moreover, majority of these toys do not represent Indian heritage, civilization and value systems.

Toycathon 2021 is a unique opportunity for Students, Teachers, Start-ups and Toy experts/professionals in India to submit their innovative toys/games concepts and win large number of prizes worth Rs. 50 lakhs.

Meeting held for implementation of 'Work Process Flow' module in ERP for CIIE operations on 18 June 2021

Meeting was conducted by Dr.K.Raja Sekhar, on the plan of development of 'Work Process Flow' module in ERP for CIIE operations as per the modules sent by ERP team.

Date : 18 June 2021 , Time : 10.15 hrs to 11.40 hrs Venue : Online mode

Participants:Mr. Pankaj Dwivedi,Manager -CIIE (KL Hyderabad Campus), Mr.L.Babu Hari Krishna,Manager-CIIE(KL Vijayawada Campus),Mr.S.V.Sriresh,Asst. Professor (TBI/B.Des),CIIE (KL Vijayawada Campus)

14	IIE	14.01	Ideation Process Management
		14.02	Ideation Support Services
		14.03	Incubation Life Cycle Management
		14.04	Makers Space Booking
		14.05	Makers Space Management
		14.06	Fab Lab Booking & Management
		14.07	Venture Capitalist Management
		14.08	Funding Management
		14.09	IIE Awards & Recognition Management
		14.10	IIE Event Management
		14.11	IIE Analytics & Dash Board

Points discussed:

1. 1) Check all the modules and members shall work on modules as per the sharing basis
 - a) Ideation Process Management, Ideation Support Services, Incubation Life Cycle
 - Management, Makers Space Booking, Makers Space Management, Fab Lab Booking &
 - Management to be worked by Mr.S.V.Sriresh
 - b) Venture Capitalist Management, Funding Management to be worked by Mr.L.Babu Hari Krishna
 - c) IIE Event Management to be worked by Mr. Pankaj Dwivedi.
1. 2) Suggestions can be made in reducing the number of modules and renaming the module.
2. 3) Sample module with all the elements to be prepared and call for discussions

Awareness Session on IPR, Trademarks & Copyrights to Students and Faculty of Marris Stella College by Dr.K.Raghava Rao

Dr.K.Raghava Rao, Principal Investigator(PI) of KLIPFC delivered an awareness session to the faculty and students of Marris Stella College.

Basics of IPR and the available resources in KLIPFC were presented during the awareness session.

Basic definitions on Trademarks and Copyrights were

discussed with case studies.

Copyrights and patents provide legal grounds for ownership and the right to pursue legal recourse if someone infringes on your idea. Otherwise, people can go around stealing ideas and creations and selling them as their own.

Orientation programme to Innovation Ambassadors conducted by MoE Innovation Cell on 02nd June 2021

Ministry of Education (MoE), Innovation Cell conducted orientation session to the Innovation Ambassadors on 2nd June 2021 nominated by the Institutes under Institution Innovation Cell(IIC) to make awareness on

1) How to maximize the impact of I&E (Innovation & Entrepreneurship) initiatives at HEIs (Higher Education Institutes) through integration and alignment of NISP (National Institute Startup), IIC and ARIIA (Atal Ranking of Institutions on Innovation Achievements) programs.

2) Orientation on other major Initiatives of MOE's Innovation Cell.

All Innovation Ambassadors from CIIE of KLEF were intimated to attend the session and clarify on the issues of Innovation Ambassador role.

Panel discussion with 'Innovators and Startup Founders' by SIRT, Bhopal on 27 May 2021

CIIE participated (by Mr.S.V.Sriresh) in the panel discussion organized by SIRT, Bhopal with 'Innovators and Startup Founders'. Opinions were shared on how innovations shall scale up with in a short time with various techniques of making prototypes for Proof of Concepts (PoC) made and effective contribution of continuous attempts in making prototypes can lead a simple path of making Minimum Viable Product (MVP). Similar opinions were also expressed by other members on stream lining of the product development process making it effective in building the product with minimum time frame, resources and more time catering to analysis and customer insights captured in market research.



IUCEE Cluster Meeting Development on Innovation and Startup developments (Institute level developments) 12 May 2021

Cluster meeting was conducted by IUCEE to the member Institutes to announce the Institute level developments on Innovations & Startups conducted.

Respective members who represented various institutes shared the events, activities and programs conducted on Innovations and motivational talks on various Innovations for the students of the first year of joining the institute into any academic program.

CIIE represented by Dr.K.Raja Sekhar and Mr.S.V.Sriresh shared the on going events & activities conducted on Innovation, Startups, Bootcamps (TARS), Seminars, Workshops in KLEF encouraging students and faculty for effective research and further converting into a potential Startup. Discussions contain about the

successful Startups from the campus and specific focus on Faculty Startups (TARS-Translation of Academic Research to Startups) converting the research work into a commercial aspect and patentable object boosting the innovation index of the country.

Webinar conducted by KLIPFC of CIIE on 'Importance & benefits of Trademarks and Copyrights for MSMEs, Startups and Institutions' (10th Apr 2021)

KL Intellectual Property Facilitation Center (KL IPFC) of Center for Innovation, Incubation & Entrepreneurship (CIIE) organized webinar on 'Importance & benefits of Trademarks and Copyrights for MSMEs, Startups and Institutions' on 10th April 2021 with Mr.Ch.Gopinadh (practicing Chartered Accountant and Tax Consultant) as speaker for the event.

The webinar is conducted to transfer overall knowledge on usefulness of trademarks and copyrights in business operations to the participants.

Trademarks provide value beyond core business. Trademarks can lead the way for expansion from one industry to another, such as from personal care to clothing or eye ware.

Registering your business name for a trademark protects your sales by preventing consumer confusion. For example, if another company uses the same or a similar name to yours and sells a similar product, customers might think they're buying from you instead of your competitors.

Webinar conducted by KLIPFC of CIIE on "Geographical Indication (GI) Identification and Procedure of GI Registration" (17th Apr 2021)

KL Intellectual Property Facilitation Center (KL IPFC) of Center for Innovation, Incubation & Entrepreneurship (CIIE) organized webinar on "Geographical Indication (GI) Identification and Procedure of GI Registration" on 17th April 2021 with Mr. Subhajit Saha, Director & Head, CII-Telangana State.

The webinar is conducted for all faculty, startups, MSMEs and other participants to gain overall knowledge on

usefulness of GI registration by Societies, Organizations and Government.

Geographical Indications have been given the status of intellectual property since the product gets more value commercially by its mere association with a particular place.

GIs helps in the identification of a source of goods which in turn is related with the quality of goods.

GI tags are issued as per the Geographical Indications of Goods (Registration and Protection) Act, 1999. This tag is issued by the Geographical Indication Registry under the Department of Industry Promotion and Internal Trade, Ministry of Commerce and Industry.

The Geographical Indications Registry has a total of 361 GIs registered in India as of September 2019.

The registration of GIs began in the financial year 2004-05 after the Geographical Indications of Goods (Registration & Protection) Act, 1999 came into effect from September 2003.

There are three main ways to protect a geographical indication:

1. so-called sui generis systems (i.e. special regimes of protection);
2. using collective or certification marks;
3. Methods focusing on business practices, including administrative product approval schemes.



WHAT DOES A GI DO?

- GI registration provides the registered proprietor and the authorized user the exclusive right to use the registered GI on the specified goods
- Monopolization of the market enables the producers to control prices, i.e., can charge premium prices, thereby enhancing profits
- Studies reveal that 80 % consumers are prepared to pay 20 – 30 % higher prices for goods they believe are having better qualities over other goods

Speaker:

Mr. Subhajit Saha delivering the session on GI's

Award of 'Distinguished Professor' to Dr.K.Raghava Rao by Novel Research Academy (28th May 2021)

Dr.K. Raghava Rao, PI-KLIPFC was awarded 'Distinguished Professor' by Novel Research Academy in May 2021



Patents filed by Koneru Lakshmaiah Intellectual Property Facilitation Center (KLIPFC) with India Patent Office, Govt. of India

KLIPFC had filed fifty (50) patent applications with India Patent Office (IPO) since the start of operations from July 2020.



**HOBBY
CLUBS**



Drug Awareness Programme by Excise officers (02.04.2021)

KLEF, Hobby Clubs organized an event named "AWARENESS ON DRUGS" in R & D theater, KLEF. Drugs have ruined countless innocent lives and careers. , Sri R N Ammireddy, IPS, Superintendent of Police, Guntur Urban has addressed the students about Drug addiction which is a very severe problem around the world. When addicted, you may not be able to control your drug use and you may continue using the drug despite the harm it causes. Drug addiction can cause serious, long-term consequences including problems with physical and mental health, relationships, employment and the law. Don't try to play with your own life, don't spoil your life. students majorly consume drug out of unfair expectations and stress. Vice Chancellor of KLEF felicitates the guest of honour. The programme supervisor by Dr.K.R.S Prasad Dean student Affairs, Dr.K.Ravindranath Associate Dean, Dr.R.Subhakar Raju Prof.Incharge have contributed their might for the success.



Student Magazine - "KL Horizon" by Vachas Club Students

The Vachas Club Students prepared Student Magazine named as "KL Horizon". As per the circular from Registrar on 03.04.2021 students were involved in preparing "Students Magazine". Soft copy of University Student Magazine KL Horizon-April 2021 is available at <https://www.kluniversity.in/Student-Magazine.aspx>. In this Magazine Preparation Vachas Club students were participated. Dr.R.Subhakar Raju -Prof. In-charge of Hobby clubs and Dean -Student Affairs monitor the Student Magazine preparation.



NAATAK-21 Inter Collegiate Dramatics Competition (08-04-2021)

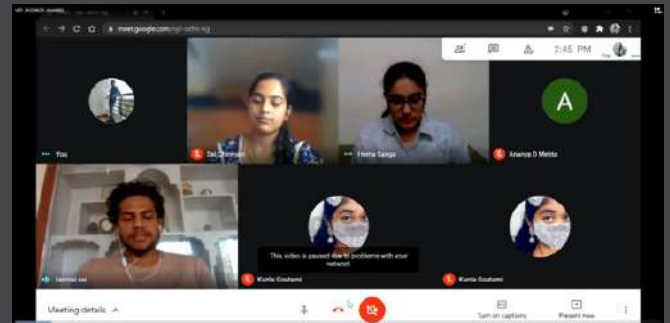
KL Deemed to be University (Koneru Lakshmaiah Education Foundation) Abhinaya club of Hobby Clubs was conducted NAATAK-21, Inter Collegiate Dramatics Competition on 07/04/2021. Skit (Group), Spot Acting (Solo), Mono-Action (Solo) competitions were organized. Students very actively participated in this event. Students performed Skits in the topics of Women Empowerment, Road Safety, Environmental Protection, Anti Corruption, Important of Girl Child Education etc. In spot acting competition students En acted on the spot, topics given before three minutes through lottery system. In Mono-Action Competition students En acted Mono Actions Ghandhari, Rani Rudrama Devi and other social topics. Mr. P.SymSundar, Asst. Professor Dept. of ECE En acted as Judge for the Competitions. Adviser, Dean Student Affairs Dr.Habibulla Khan, Dr. K.R.S.Prasad, Dean Student Affairs attended as chief Guests and distributed the prizes to winners. Dr.K.Ravindranath, Associate Dean, Extension Activities appreciated the students. Dr. R. Subhakara Raju Professor Incharge of Hobby clubs presided over the valedictory function. Mr.V.G. Krishna Murthy Dramatics Trainer co-ordinated the event.





“ World Heritage Day Celebration ” in this occasion Quiz also conducted by Vachas Club (18.06.2021)

Every year 18th April is celebrated as World Heritage Day in KLEF. But it is carried forwarded to conduct on 18th June due Covid- 19 lock down by Government. On this occasion Vachas Clubs students conducted Quiz and essay writing competitions through online, E-Certificates are awarded to the winners as well to the participants. Dr.R.Subhakar Raju- Prof.In-charge of hobby clubs monitored the event.



“Once More– monthly event” – By Swara Club (21.06.2021)

Event conducted by Swara club students through online, to find out the efficient music interested students to induct into swara club and also to entertain the KLEF students with various activities. The talented students have participated by sing classical songs, western and vocal etc. The event monitored by Dr. R.Subhakar Raju Professor incharge of Hobby clubs.




#WeAreFutureReady

WEBINAR ON Transforming Music into a Profession



June 21-2021
05 PM – 06 PM



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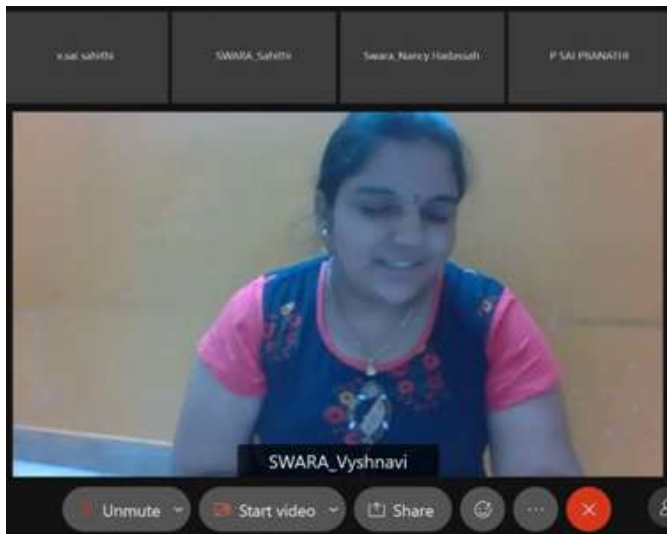
<https://urlzs.com/Uv8z6>

Speaker
DEBJIT GAIN
Piano Artist, Bollywood Sound Producer & Designer
Grade - 5 From Trinity College Of London



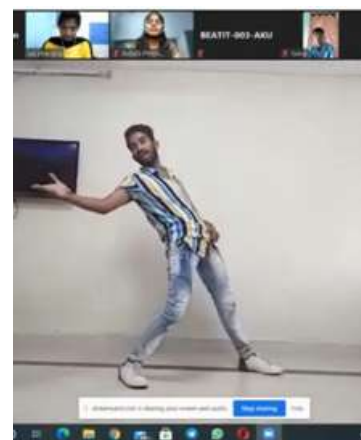
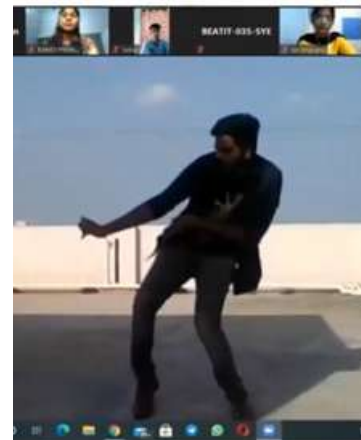



www.kluniversity.in



“NRITHYA-21” A National level Dance Competition (30.06.2021)

Nrithya-21 a national level Dance Competition which attracted students from various colleges & Universities all over the country to participate in the event due to Covid-19 the competition is conducted through online. Event was held from 28.06.2021 to 30th June 2021 organized by Narthana Club of Hobby Clubs in KLEF. Nearly 50 students from various colleges & Universities students participated in various events, students send their dance videos through online. Classical dance, Western dance, HIP-HOP competitions were conducted. Mr.U.Kanaka Prasad, Dance Master Coordinator the competition. Dean Student Affairs Dr K.R.S Prasad, CEA Prof. Incharge Dr.P.Gopi Krishna appreciated the students.





Awareness on COVID Vaccine Conducted on 01-04-2021 at Prathuru

KL Deemed to be University (Koneru Lakshmaiah Education Foundation) Electronics and Communication Engineering (ECE) Unit-08 National Service Scheme (NSS) has conducted "Awareness on COVID Vaccine" on 01-04-2021 in one of the village adopted by the K L University i.e. Prathuru. As a part of this NSS Volunteers from Unit-08 students participated in the event. On the day of the event, all the 40 NSS volunteers along with faculty started from the college at 10:00 am in bus and reached the Prathuru by 10:30 am.

Objective of this Programme:

To educate Villagers about new strain of Corona.

Summary of the Event:

At present the most dangerous news is all about corona virus. The cases are increasing gradually day by day. So we planned to give awareness regarding corona virus to the villagers so that they will not get afraid about it. The aim of this is to provide the base knowledge regarding corona virus so that preventive measures can be taken up effectively and timely. We urged the people not to believe in unauthenticated and false news spreading by social media. We have given information about corona and along with the precautions and symptoms.

No. of Participants: Students: 67, Staff: 6

**"STAY ALERT CONTROL
THE VIRUS SAVE LIVES"**



Swachh Bharat Conducted on 01-04-2021 at Prathuru

KL Deemed to be University (Koneru Lakshmaiah Education Foundation) Electronics and Communication Engineering (ECE) Unit-02 National Service Scheme (NSS) has conducted "Swachh Bharat" on 01-04-2021 in one of the village adopted by the K L University i.e. Prathuru. As a part of this NSS Volunteers from Unit-02 students participated in the event. On the day of the event, all the 40 NSS volunteers along with faculty started from the college at 10.00 am in bus and reached the Prathuru by 10.30 am.

Objective of this Programme: To promote the need of Swachh Bharat to have health and hygiene environment and surroundings.

No. of Participants: Students:69 , Staff: 6

Summary of the Event:

After reaching the respective village, all the volunteers are again divided into groups by the faculty in-charges to make the task easier and so as to ensure that the volunteers covered most of the village premises. All the volunteers actively took part in this. Some volunteers eagerly cleaned surroundings, some did swachh survekshan and some of them identified the problems regarding cleanliness in the village. All the volunteers divide the tasks among themselves without any hesitation and every one lead their way towards the success of the event.

Volunteers cleaned the village roads, removed dust heaps and they attempted to create awareness on cleanliness and hygiene volunteers participated actively and encouraged villagers to keep their streets neatly so that there will be less mosquitoes and good surroundings as a result the villagers are not affected with infectious diseases. This programme aimed to aware the people on cleanliness, Health, Hygiene in the village. NSS volunteers appreciated the people who use pits and maintain cleanliness in their homes and streets.

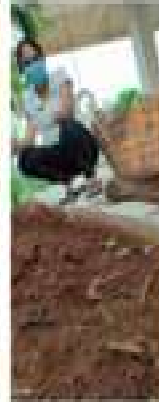
"Swachh Bharat Starts With
a Change in Your Habit" "Stop
Littering"



Swachh Bharat @ Home Conducted on 27-05-2021

KL Deemed to be University (Koneru Lakshmaiah Education Foundation) Engineering and Non-Engineering National Service Scheme (NSS) has conducted "Swachh Bharat @ Home" on 27-05-2021

"STAY ALERT CONTROL
THE VIRUS SAVE LIVES"



Plantation @ Home (World Environmental Day) Conducted on 05-06-2021

KL Deemed to be University (Koneru Lakshmaiah Education Foundation) Computer Science Engineering (CSE) National Service Scheme (NSS) has conducted "Plantation @ Home" on the occasion of "World Environmental Day" on 05-06-2021 in online/home mode. As a part of this NSS Volunteers from Unit-1, Program Officer Mr. Naveen Narayanan, Faculties from CSE Dept. Dr. C. Karthikeyan, Mr. Rahul Shahane, Ms. M. Anila Rao are involved. On the day of the event, all the NSS volunteers along with the program officer participated the event.



My most challenging experience and the interesting experience was a tree planting exercise that we were to carry out on the world tree planting day held every 5th June of every year. The training part was so interesting, and I was so eager to go out into the field and plant our own trees.

Celebrated World Environment day... by planting a tree with my daughter

Planted this beautiful chrysanthemum And some of my leafy vegetable seed lings waiting to see them how to grow and send those fresh leaves into my tummy Save plants save earth. The best time to plant tree is 20 years ago. The second best time is now. So, plant a tree and take care of it every day. Happy World Environmental Day!! A beautiful plant is like having a friend around the house. Good initiation by NSS KLU.



Invest in plants & enliven our
future Generations.



NCC

C-Certificate Exam

The NCC certification has been divided into three groups. Eligibility for NCC Certificate is as follows:

A Certificate B Certificate C Certificate

Certificate-C : Is the highest level certificate for NCC cadets. It can be taken in the 3rd year of training.

Benefits: NCC cadets learn to take pride in themselves and the training also strengthens the spirit of being an Indian. This helps them gear towards joining the forces and providing their 100% when the country is in need of them.

Other than military activities, the cadets are taught other skills such as parachuting, paragliding and basic aviation courses because of which they have an edge over others when appearing for the armed forces. Other than that, they also have a special quota which is very useful in case of final selection to join the armed forces.

The 'C' certificate of NCC which is very useful for the aspirants of defence ..The one who attends National or International or special adventurous camps can avail extra marks .

'C' Certificate Practical Exam held on 21st April and written exam on 25th April was conducted by NCC of Guntur group at Vignan college, palakaluru.

Under the guidance of V. MOUNIKA ANO, NCC KLEF. Y18 SD cadets of KL university attended with great enthusiasm and gave their active performance during practical test that includes :

1. Weapon drill
2. Map reading
3. Field craft and battle craft
4. Communication

TOTAL CADETS ATTENDED: 41



National Cadet Corps Importance of Drill:

The aim of drill is to produce a cadet who is alert and obedient and to provide the basis of teamwork. The main purpose of formal parade ground drill is to enable bodies of cadets to be moved easily and quickly from point to point in an orderly manner.

Drill is marching, plain and simple. In ancient times, the most powerful, efficient and developed empires developed ways of moving troops from one place to another without them getting mixed up with other troops. So they marched together from one place to another, also known as drill. Foot drill is a part of the training regimen of organized military and paramilitary elements worldwide. "Foot drill" or "Drill" stems from time since antiquity when soldiers would march into battle, be expected to gather in a formation, and react to words of command from their commanders once the battle commenced. Much of the drill done today is either ceremonial, or implemented as a core part of training in the armed forces. Military discipline is enhanced by drill, as it requires instant obedience to commands and synchronized completion of said commands with the others in the unit.

Drill proved useful when marching formations of soldiers cross-country. For example, officers could form men from an eight-wide route march formation to a two-wide formation for passing through gates and other narrow passages, without losing time or cohesion. Drill was used to efficiently maneuver formations around and through obstacles. Drill was often used as a forerunner to great battles; during them it justified itself. It was also utilized after battles, where quick restoration of the corporate unity of an element was required.

The Aim of Drill is to inculcate a sense of discipline ,Improve bearing,smartness in appearance and turn out ,Create self confidence and To develop the quality of immediate an implicitobedience to orders.

10Andhra B.N.NCC girls performed mock drill under the guidance of Sr.Cadets, on 21st April 2021 at KL univeristy ground.

Awareness On Smoking & Drugs

Smoking kills! This is a fact that most of the chain smokers are well aware of. Yet they are not willing to give up on the habit. The team KLEF-CEA, has taken an initiative to educate the addicts and also the ones who probably might turn into addicts, with the consequences and aftereffects of smoking. This event was conducted in our very own R&D theatre on 2nd of April; 2021. The seminar was addressed by the honourable collector and DGP. In this seminar the participants were also educated with the cons of drug abuse by the respectable guests of honour.

No. of Students participated: 1200

No. of Faculty participated: 85



Environmental Day

We team CEA, conducted an event named 'ENVIRONMENTAL DAY' on 05th June, 2021 which is widely celebrated as World Environmental Day across the globe.

This event was held in-order to promote the effects caused due to the usage of plastic and pledges for its decrement.

On this environmental day we, team KLEF-CEA had circulated a Google form through which different ideas of people belonging to different households were being collected. People filling the Google form were asked to give their point of views on different ideas of replacing the plastic items with any other biodegradable material, e.g. Mud, paper and other materials those are easily available in their homes.

1. All of Our CEA volunteers had took an initiative step by implying the methods of replace/reuse/recycle of things made of plastic into any other biodegradable item.
2. Volunteers had sent their pictures or videos with/ making the replacement things.
3. Picotures and videos sent by the participants were posted on our official social media pages and we also tagged other club members and some faculty to continue the process.

Benefits:

1. This help us to reduce the plastic usage
2. This event also helped to create awareness among people the adverse effects of the usage of plastic in any form.
3. This provided some awareness among participants.
4. This event also helped to bring out the creativity among the participants to convert items from one type to other.



World Day Against Child Labour

On the World Day against Child labour, KLEF-CEA had done the competitions like Poster Making, Report Writing, Mock Parliament, on the theme of the prohibition of child labour. Though the times are getting tougher, we didn't stop going. We've successfully conducted the Mock Parliament through ZOOM meetings, and Report Writing, Poster Making are through offline mode where we had the chance to track the happenings virtually. A total of 130 students have participated in the event from different school and colleges.

Benefits:

- In the process of participating in these competitions children will educate themselves on the existing child labour laws.
- Report writing competitions helps in the structural expression of their perceptions on the theme given.
- Poster making competitions helps in sharpen their narrative skills through art.
- Mock Parliament develops analytical skills thereby indulging children more in on- point conversations.

No. of Volunteers Involved For The Event: 10



Python Workshop

On June 15th and 16th 2021, KLEF-CEA had conducted "PYTHON WORKSHOP". This workshop is conducted in the presence of Dr. Siva Kumar pathuri, ASSOC Professor Department of CSE, KL University ON JUNE 15th and Dr. V.Uday Kumar, Assistant Professor Department of CSE, KL University, Vaddeswaram on June 16th. In this workshop many of the participants learnt python basics by attending.

In this workshop many of the participants learnt python basics with the help of Dr.Siva Kumar Pathuri sir and Dr. V. Uday Kumar sir and Sir discussed about the history of the pyhon, uses of the python, different types of python software and how to install python software. But for this workshop they explained python in Online Gdb on the first day for the participants convenient .They explained data types, conditions, loops, arrays, strings, list...etc and they also explained how these topics are use in their jobs for their future scope. They explained some examples and some tutorials on the topics. We hope that these topics are useful to all the participants who attend this workshop. At the end of the meeting participants actively participated in clarifying their doubts with the help of K.V.N Murthy sir. We have successfully conducted the webinar through WEBEX meetings.

- Participants learnt python basics which helps them in future.
- Participants know about how to use python software and how to write coding in python language.

No. of Volunteers Involved for the Event: 12



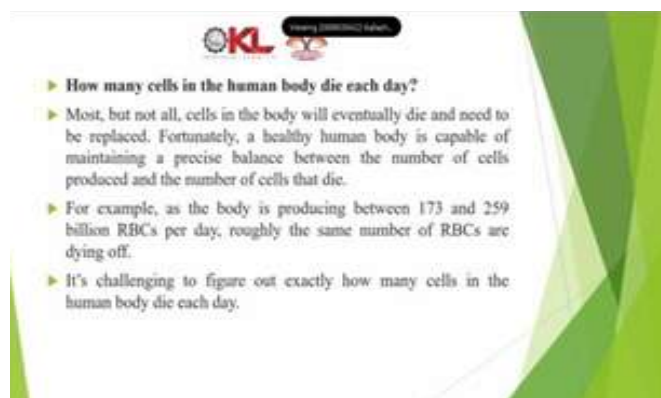
21 Days Habit Theory

KLEF-CEA has organized few events and competitions like, session with psychologist, PPT preparation, and clarification of doubts CIA webinar. The registrations were opened on 14.06.2021 and closed by 20.06.2021. The total numbers of registered participants were 230. The event has started on 18th of July 2021 by 11:00 a.m. in the morning and ended by 1:00 p.m. in the afternoon of the same day. The webinar has been conducted using CISCO WEBEX. The participants are allowed to join their respective registered events using the link provided in the event groups.

Benefits:

- Mental awareness for young minds
- To get adopted to an event within 21 days

No. of Volunteers Involved For The Event: 4



Career Guidance

Career guidance would be of utmost help for every student's life. It helps the students to understand their strengths and weaknesses and accordingly match them with their skills and interests in a way that they get a best suitable career choice. One wrong choice on the path of career not only causes a vain in a lot of money but also implies for the wastage of precious years.

We team KLEF-CEA, had conducted an event named CARRIER GUIDANCE, on July 5th, 2021. In this event we had floated one Google form and we have collected the data from students regarding their passions and to which platform of further education they are willing to step into.

*People are asked to join the WebEx link to in which expertise references and advices from the speaker. We had Dr. J Somlal, HOD EEE dept of KLEF. Speaker had discussed the pros and cons on the webinar and helped many students to gain an awareness regarding many aspects of their career path.

A PPT was presented by the speaker.

Event Beneficiary:

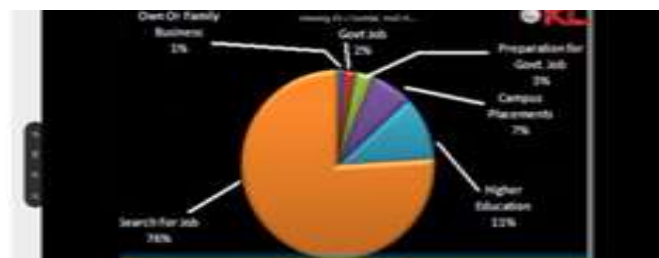
1. This event helped the 10th standard and intermediate students to clarify their queries.
2. This helped the participants to get more acknowledgement about the ways and flow of their education in the right path
3. The speaker addressed many doubts posed by the participants and discussed about their weaknesses and strengths which aided them with good evaluation on the path they wanted to follow in the mere future indulging their passion.
4. The event had helped many aspirants to lay a bright future accomplished by various benefits of the careers they were about to choose.

Registrations Link: <https://bit.ly/CareerGuidanceCEA>

WebEx Link:

<https://kluniversity.webex.com/kluniversity/j.php?MTID=md784e3b7a91639bfd948ded75313c7e4>

Live: Link: <https://youtu.be/6JMR4bV0BxA>



Communication Vs Effective Communication

We team CEA, had conducted an event named COMMUNICATION VS EFFECTIVE COMMUNICATION. We had floated one Google form and we have collected the data from the participants. There is no age restrictions for participation.

*People have asked the participants to join the WebEx link to get to know the basic idea of Communication vs Effective communication by eminent speaker Dr. Pavani Sridhar, Assoc Professor, KLEF.

This event was held for two days, 29-06-2021 and 30-06-2021.

*On first day of the event, speaker gave the participants a brief clarity on how to communicate effectively with higher officials formally by presenting a PPT.

*On second day of the event, speaker have conducted an activity on communication skills, in which, the speaker had corrected the mistakes that the participants had made during the course of activity.

The event attained a pretty good number of participants. Some of our faculty had also attended to the event.

Event Beneficiary:

1. This event helped the participants how to communicate effectively in their workplace.
2. Participants had got an idea on their mistakes while communicating with others.
3. This event helped the participants to know the difference between the formal and informal communications and the place where to use them.
4. Not only for the under-graduating students, but also the graduates and working people in different companies have been benefited by this event.

Registrations Link: <https://bit.ly/CEC REGLINK>

WebEx Link:

Day-1: <https://kluniversity.webex.com/kluniversity/j.php?MTID=m5387cb329667aa10ebf6342f6badf79d>

Day-2: <https://kluniversity.webex.com/kluniversity/j.php?MTID=m975954906bd990d7b7eb8fd5e3b74b01>

Live: Link: <https://youtu.be/U1oGo6bdwzs>





**ACADEMIC
STAFF
COLLEGE**



Teacher Training Programs from 01-04-2021 to 30-06-2021

S.No	DATES	PROGRAMME	RESOURCE PERSON(S)
1	25-06-2021	Orientation program on "Introduction to Branding & Aligning business strategies for Brand management"	Mr. Sai Ramakrishna Mudigonda, Branding Strategist.
2	14-06-2021 to 16-06-2021	Three Days training Program on UGC Blended Learning Program concepts for all faculty members of both campuses of KLEF Topics: Blended learning: Theoretical background ICT Tools and Initiatives Implementation Process of Blended learning at KL Assessment and Evaluation Rubrics for Blended learning at KL	Dr. Raghuveeer VR, Dean (Academics) along with his Associate Deans, Dr. A Srinath, Dean (Skill Development) and Principal, ASC and his team from ASC, Dr .K Subramanyam, OSD to Chancellor and Processor, CSE , Mr. Hari Kiran Vege, HoD-CSE
3	20-05-2021 to 22-05-2021	Three days workshop on OUTCOMES BASED EDUCATION	Dr A Srinath, Dean Skill Development & Principal ASC, Dr K Subramanyam, OSD To Hon'ble Chancellor and Professor CSE, Dr DVA Rama Sastry, HoD ME, Dr DVA Rama Sastry supported by Dr P Kasi V Rao, Deputy HoD ME and Dr KV Durga Rajesh, Assoc Prof ME, Dr Ch Hanumantha Rao, HOD CE
4	24-04-2021	One day orientation program titled IN SEARCH OF RESEARCH (Avenues like Grants, Awards, Funding Schemes, Internships, Fellowships etc.)	Dr K Sarat Kumar, Professor ECE, KLEF, Vijayawada Campus

Meetings and Other Activities Conducted

S. NO.	PARTICULARS	CONDUCTED DATE(S)
1	IQAC – Internal Meetings (Monthly)	05-04-2021, 11-05-2021 & 05-06-2021
2	5th Quality circle (Faculty) meetings – Bi-monthly	30-04-2021 (Zoom meeting)
3	Compliance by All Deans for the 3rd Quarter (Jan-March'21)	April 2021
4	Meeting of all Deans with the Hon'ble President (2 No. of Meetings with Each of the Deans)	April-May 2021
5	Functioning & Implementation vis-à-vis requirements of ERP	
6	36th Advisory Committee meeting – Quarterly (Online)	18-06-2021

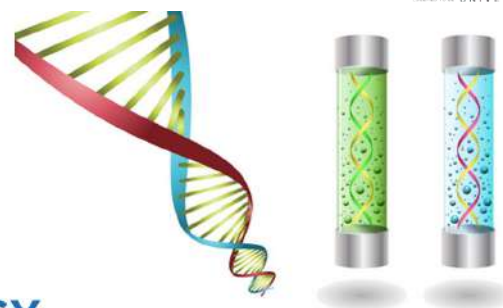
During 1 April 2021 till 30 June 2021, the IQAC has conducted physical audits of Vijayawada campus and online audits of KLEF Hyderabad campus. IQAC has fine-tuned the quality framework/data collection formats by the following ways. The IQAC has refined the format of Monthly report (MR) Online. Suggestions have been invited and all suitable ones have been implemented. The fifth IQAC Quality Circle – Faculty Meeting was held online 30th April 2021. However, it should be noted that it is a continuous process to improve upon the process; the central idea being that the format should include all NAAC parameters and the data obtained should be useful to prepare AQARs.

The Quality circles floated on the campus have made their prime importance as the only forum that has a multi-

directional flow of information, ideas and suggestions. The IQAC, despite the immense teething troubles, could make its presence felt and the credit would go to all departments and functionaries of the university.

Quality Circle Meeting Highlights:

One Quality Circle (Faculty) meeting was conducted during the previous quarter. The Dean-Quality has chaired the meeting and invited all the Faculty Auditors and Students and spelt out the agenda for the meeting. He asked the Faculty Auditors of IQAC to proceed further in conduction of the "Quality Circles". Discussions took place on the agenda and the minutes were recorded and circulated.



University Level Events:

A) Academics and achievements

Achievements of the University with respect to Awards and Rankings.

- One district One Green champion award was bestowed to KLU
- K L Deemed to be University had stood 6th in the All – India rankings conducted by DATA QUEST – 2021
- Times of India Rankings: In AP/TS KLU grabs Top 1
- Top Private Universities: KLU is at Top 2
- Including govt IITs: KLU is at Top 7

B) Research Activities

Research Publications:10

Research Groups and their activities: Group head meetings-2

C) Co-curricular Activities (Central Level Clubs and Association Activities)

All the Co-Curricular activities under different University Level Clubs and Associations.

D) Extra Curricular Activities (Central Level Clubs and Association Activities)

All the Extra Curricular activities under different University Level Clubs and Associations.

E) Entrepreneurship/Innovation

All the activities done under Incubation, Entrepreneurship and Innovation Center.

F) Patents/Technology Transfer:

G) National & International Awards to:

(i) University: University: K L Deemed to be University had stood 6th in the All – India rankings conducted by DATA QUEST – 2021

(ii) Faculty: Dr. Siva Reddy has grabbed Best Teacher Award and Best Young Faculty Award from KLU and Novel Research Academy respectively.

(i) Students: Mr. Anjum (Y17) batch grabbed Erasmus Mundus Fellowship for his masters program at Europe

H) Placements :

Placement activity in the University: 1

i) Industry Linkages and Allied Activities: 1

j) Sponsored Projects Status:

(i) Ongoing: 6

(ii) Obtained recently: 1

Department Level Activities:

A. Engineering, KLUBS, Hotel Management, Commerce, CAM

a) Workshops/Seminars /Guest lectures: Techniques in light microscopy by Sujoy Dey on June 2nd 2021

b) Student association activities: Fathers day (Virtual mode)

c) Faculty Achievements: 03, Best Teacher, Best Young Faculty by Dr. Siva Reddy. Dr. Nadeem Siddiqui & Dr.V.Praveen Kumar has successfully completed national level quiz on virology conducted by Mandsaur University.

d) Student Achievements /External participation: 01, Mr.Anjum got admission in masters through Erasmus



Common Man's E-bike – Y17 B.Tech EEE students Developed Low Cost retrofit model for e-bike

Five of the Y17 B.Tech EEE students Satyarth, Charan, Praveen, Sandeep and Kirreti developed low cost retrofit of old bike in to a new e-bike. The model is tested and being attracted by many companies. Also the wireless charging of the same using solar pv method is also added.

केएल डीमड यूनिवर्सिटी के छात्रों ने तैयार की वायरलेस चार्जिंग वाली ई-बाइक

एजेंसी.नई दिल्ली

स्नातक एवं ऊंची शिक्षा के लिए देश के प्रमुख विश्वविद्यालयों में से एक केएल डीमड यूनिवर्सिटी के छात्रों ने वायरलेस चार्जिंग टेक्नोलॉजी वाली एक अद्वितीय ई-बाइक को विकसित किया है। इस अभिनवकारी प्रतिकृति को विश्वविद्यालय के कुछ पूर्व छात्रों के साथ मिलकर केएल कॉलेज ऑफ इंजीनियरिंग के इलेक्ट्रिकल और इलेक्ट्रॉनिक्स इंजीनियरिंग विभाग के तृतीय एवं चतुर्थ वर्ष के छात्रों के एक दल द्वारा विकसित किया गया है। इस ई-बाइक में सैल बैलेंसिंग और वायरलेस चार्जिंग समेत कई अत्याधुनिक विशेषताएं हैं जो कि पूरी दुनिया के कुछ ही स्थानों पर उपलब्ध हैं। इस टीम ने के.एल. डीमड यूनिवर्सिटी द्वारा निःशुल्क प्रदान की गई अत्याधुनिक प्रयोगशालाओं और परीक्षण सुविधाओं का लाभ उठाते हुए ई-बाइक की प्रारंभिक संकल्पना और प्रतिकृति को विकसित किया था।

टीम को दिया 14 हजार रुपए का अनुदान

इस दल को विश्वविद्यालय के विशेषज्ञों और वरिष्ठ शिक्षाविदों से मार्गदर्शन एवं निरंतर प्रतिक्रियात्मक सुझाव प्राप्त हुए। इस विश्वविद्यालय ने इस परियोजना की संकल्पना को एक स्टार्ट अप के तौर पर विकसित करने के लिए इस टीम को 14 हजार रुपए का अनुदान प्रदान



करने का भी प्रस्ताव दिया है।

एक बार रिचार्ज, 100 किमी तक दूरी तय

केएलयू की टीम द्वारा विकसित की गई इस ई-बाइक से लोगों के लिए एक ऐसी चार्जिंग क्षमता के साथ 55 किमी प्रति घंटे की अधिकतम गति से यात्रा कर पाना संभव होता है जो कि मानक परिस्थितियों में एक बार रिचार्ज करने पर 85 से 100 किमी के बीच की दूरी तय कर सकती है और जिसके लिए रिचार्ज में 5 घंटे लगते हैं। केएल डीमड यूनिवर्सिटी के अध्यक्ष इंजीनियर कोनेरू सत्यनारायण ने कहा कि श्वायरलेस तरीके से चार्ज की जाने वाली ई-बाइक की यह परियोजना केएल विश्वविद्यालय के छात्रों के अभिनवकारी दृष्टिकोण और भविष्यवादी सोच को दर्शाता है। छात्रों को इस प्रकार की अभिनवकारी अवधारणाओं और टेक्नोलॉजी को प्रस्तुत करते हुए देखकर मुझे प्रसन्नता हो रही है।

Faculty Development Programs on Electric Vehicle Technology & Soft Computing Techniques for Electrical Engineering

Department of EEE organized two faculty development programs. First on Upskill in EV Technology where academic and industry experts from major MNCs and premier institutes delivered talks and hands-on sessions on latest upgradation in EV and 5GT technology. Second, FDP on Soft computing Techniques for Electrical Engineering is organized in collaboration with ICT academy of NIT Warangal.

కేఎల్ యూలో ఫ్యాకల్టీ డెవలప్ మెంట్ ప్రోగ్రామ్

తాడేపల్లి, జూన్ 18: తాడేపల్లి మండలం వడ్డేశ్వరం కేఎల్ యూనివర్సిటీ ఎలక్ట్రికల్ అండ్ ఎలక్ట్రానిక్స్ విభాగం, భారత ప్రభుత్వ అనుబంధ సంస్థ ఈ అండ్ ఐసీటీ, ఎన్ఐటీ వరంగల్తో కలిసి సంయుక్తంగా స్పార్ట్ ఎలక్ట్రిక్ గ్రీడ్ కు ఉపయోగపడే సాఫ్ట్ కంప్యూటింగ్ అప్లికేషన్ మీద పది రోజుల ఫ్యాకల్టీ డెవలప్ మెంట్ ప్రోగ్రామ్ ను శుక్రవారం ఆన్ లైన్ లో ప్రారంభించారు. ఈ అండ్ ఐసీటీ, ఎన్ఐటీ వరంగల్ అధిపతి ప్రొఫెసర్ ఆర్ బీవీ సుబ్రహ్మణ్యం ముఖ్య అతిథిగా పాల్గొన్నారు. వివిధ రాష్ట్రాల నుంచి ఇంజనీరింగ్ కళాశాలల అధ్యాపకులు హాజరవుతున్నారు. ప్రస్తుత పరిస్థితులకు అనుగుణంగా విద్యుత్ ఉత్పత్తి, సరఫరా, వ్యవస్థలో వచ్చిన మార్పులు, కంప్యూటర్ అనుసంధానం వలన కలిగి ప్రయోజనాలు, న్యూరల్ నెట్ వర్క్స్, జెనిటిక్ ఆల్గారిథమ్స్ వంటి వివిధ కృత్రిమ మేధస్సు ఆధారిత పద్ధతుల గురించి ఈ సదస్సులో పలువురు చర్చించనున్నారు.

కార్యక్రమంలో కేఎల్ యూ ప్రొఫెసర్ వైస్ చాన్సలర్ డాక్టర్ వెంకట్రామ్, ఇంజనీరింగ్ కాలేజి ప్రెసిడెంట్ డాక్టర్ సుబ్బారావు, ఈఈఈ విభాగాధిపతి డాక్టర్ సోమలాల్, ప్రోగ్రామ్ కో ఆర్డినేటర్ డాక్టర్ లలిత ప్రసంగించారు.



అధ్యాపకులకు ఆన్ లైన్ సదస్సు

తాడేపల్లి, మ్యూన్ టుడే: కేఎల్ యూ ఎలక్ట్రికల్ అండ్ ఎలక్ట్రానిక్స్ విభాగం, వరంగల్ ఈ అండ్ ఐసీటీ సంయుక్తంగా స్పార్ట్ ఎలక్ట్రిక్ గ్రీడ్ కు ఉపయోగపడే సాఫ్ట్ కంప్యూటింగ్ అప్లికేషన్ మీద పది రోజుల ఫ్యాకల్టీ డెవలప్ మెంట్ ఆన్ లైన్ సదస్సును శుక్రవారం ప్రారంభించారు. ఈ అండ్ ఐసీటీ, ఎన్ఐటీ అధిపతి ప్రొఫెసర్ ఆర్ బీవీ సుబ్రహ్మణ్యం ముఖ్య అతిథిగా సదస్సులో పాల్గొన్నారు. కేఎల్ యూ ప్రొఫెసర్ వైస్ చాన్సలర్ డాక్టర్ వెంకట్రామ్, ఇంజనీరింగ్ కళాశాల ప్రెసిడెంట్ డాక్టర్ సుబ్బారావు తదితరులు పాల్గొన్నారు.

Date : 19/06/2021 EditionName : ANDHRA PRADESH(GUNTUR CITY) PageNo : 05

National Conference on Emerging Trends in Smart Grids and Electric Vehicle Technology (28th and 29th June 2021)

Department of EEE organized National conference on emerging trends in smart grids and electric vehicle technology for the benefit of research fraternity across the nation. A highly appreciable response is obtained and many advanced topics were discussed and exchanged among the participants.

No of papers presented: 35, Key note lectures: 4

పర్యావరణ రక్షణకు ఎలక్ట్రిక్ వాహనాలు దోహదం ఐఐటీ రూర్కీ ప్రొఫెసర్ ఎవిక్ భట్టాచార్య

తాడేపల్లి, జూన్ 28: ప్రస్తుత యుగంలో పర్యావరణ పరిరక్షణకు ఎలక్ట్రిక్ వాహనాలు ఎంతగానో దోహదపడతాయని ఐఐటీ రూర్కీ ప్రొఫెసర్ ఎవిక్ భట్టాచార్య అన్నారు. సోమవారం తాడేపల్లి వడ్డేశ్వరంలోని కేఎల్ యూనివర్సిటీ ఎలక్ట్రికల్ అండ్ ఎలక్ట్రానిక్స్ విభాగం ఆధ్వర్యంలో వర్చువల్ విధానంలో రెండు రోజుల జాతీయ సదస్సు ప్రారంభోత్సవంలో తొలిరోజు ఆయన ప్రసంగించారు. భట్టాచార్య మాట్లాడుతూ సంప్రదాయ ఇంధన ఇంజన్లు కలిగిన వాహనాల కంటే ఎలక్ట్రిక్ కార్లు వేగవంతంగా ఉంటాయని పేర్కొన్నారు. వివిధ రాష్ట్రాల నుంచి 80 పరిశోధనా పత్రాలు రాగా 48 పేపర్లు సదస్సులో వివరించడానికి అంగీకరించారు.

కార్యక్రమంలో కేఎల్ యూ ప్రొఫెసర్ పాండియన్, ప్రొఫెసర్ చాన్సలర్ డాక్టర్ ఎన్ వెంకట్రామ్, రిజిస్ట్రార్ డాక్టర్ ప్రసాదరావు, ప్రెసిడెంట్ డాక్టర్ సుబ్బారావు, ఈఈఈ విభాగాధిపతి డాక్టర్ జె సోమలాల్, సదస్సు కన్వీనర్ డాక్టర్ కె సరసింహరాజు, కో కన్వీనర్ డాక్టర్ కిరణ్ కుమార్, కార్యక్రమ కో ఆర్డినేటర్ రవిరేజు, కల్యాణ్ లు పాల్గొన్నారు.



విద్యుత్తు వాహనాలు ఉపయోగకరం

తాడేపల్లి, మ్యూన్ టుడే: కల్యాణ్ నివారణకు విద్యుత్తు కార్లు, ద్వితీయ వాహనాలు ప్రవేశపెట్టడం ఉపయోగకరమని డాక్టర్ ఎవిక్ భట్టాచార్య అన్నారు. కేఎల్ యూలో ఈఈఈ విభాగం ఆధ్వర్యంలో రెండు రోజుల పాటు జరిగిన సాఫ్ట్ గ్రీడ్ విద్యుత్ వాహనాలపై జాతీయ సదస్సు సోమవారం వర్చువల్ విధానంలో ప్రారంభమైంది. ఐఐటీ రూర్కీకి చెందిన డాక్టర్ భట్టాచార్య ముఖ్య అతిథిగా హాజరయ్యారు.

యూ. ఈఈ విద్యార్థులు తాము రూపొందించిన విద్యుత్తు వాహనాల వివరాలను తెలిపారు. వివిధ రాష్ట్రాల నుంచి విద్యార్థులు 80 పరిశోధనా పత్రాలు సమర్పించగా వాటిలో 48 పత్రాలను సదస్సులో ప్రవేశపెట్టారు. ప్రొఫెసర్ చాన్సలర్ వెంకట్రామ్, రిజిస్ట్రార్ ప్రసాదరావు, ప్రెసిడెంట్ డాక్టర్ సుబ్బారావు, ఈఈఈ విభాగాధిపతి సోమలాల్, సదస్సు కన్వీనర్ సరసింహరాజు తదితరులు పాల్గొన్నారు.

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Field Visit to Solar PV Power Plant

As a part of exposure to practical knowledge EEE students were introduced to Solar PV power plant construction, operation, maintenance and control through field visit on roof top solar PV available at KLEF campus.



Research Publications by faculty

S.No	Name of the Author	Title of the Paper	Title of the Journal/Conference
1	B. Jyothi	A Non-isolated PV quadratic bi-directional converter with closed loop operation of a drive using fuzzy controller	Advances in Electrical and Computer technologies
2	M. Kiran Kumar	Chopper Based Control Circuit for BESS Integration in Solar PV Grids	Energies
3	K. Narsimha Raju	Comparative investigation of 15 level and 17 level cascaded HBridge MLI with cross H-Bridge MLI fed permanent magnet synchronous motor	Indonesian Journal of Electrical Engineering and Computer Science
4	B. Loveswara Rao	An intelligent technique for optimal power quality reinforcement in a gridconnected HRES system: EVORFA technique	International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

Faculty Achievements:

Best Teacher Award received by Dr. B.Loveswara rao, in Professor category.

Best Teacher Award received by Dr. A.Pandian, in Professor category.

Best Teacher Award received by Dr. P.Srinivasa Varma, in Assoc Professor category

Best Teacher Award received by Mr.T.Vijay Muni, in Assistant Professor category.

Dr. A. Pandian acted as keynote speaker "Charging infrastructure for Electric vehicle's- Challenges and Research Perspectives" on an IEEE PES day 2021 event on 23/04/2021 organized by IEEE ISTT student branch.

Dr. S.V.N.L.Lalitha acted as speaker of the webinar on "Clean Energy Revolution" on an IEEE PES day event on 25/4/2021 organized by IEEE GUB and IEEE RUET student branch.

Dr. K. Narasimha Raju reviewed 4 papers for the IEEE Power Tech Madrid 2021 Conference.

Mr. T Vijay Muni, Assistant Professor, published one patent.

Engineering Branch Selection awareness to Intermediate Students- An initiative of KLEF EEE Department

Department of EEE organized awareness program on choosing suitable engineering branch to intermediate students. A total of 151 students registered and got benefited.



**AWARENESS ON CHOOSING
RIGHT BRANCH IN ENGINEERING**

30.06.2021 11:00 AM TO 12:00 NOON

KL Electrical Electronics & Engineering

Resource Persons:

Dr. K Narasimha Raju
Professor, Dept. of EEE,
K L E F (Deemed to be University)

Dr. P Srinivasa Varma
Associate Professor, Dept. of EEE,
K L E F (Deemed to be University)

Mr. S Ravi Teja
Assistant Professor, Dept. of EEE,
K L E F (Deemed to be University)

Head of the Department
Dr. J Somiah
Professor & Head, Dept. of EEE,
K L E F (Deemed to be University)

Event Coordinators:
Dr. B. Jyothi
Associate Professor, Dept. of EEE,
K L E F (Deemed to be University)

Mrs. K Sarada
Associate Professor, Dept. of EEE,
K L E F (Deemed to be University)

Dr. M Naga Chaitanya
Assistant Professor, Dept. of EEE,
K L E F (Deemed to be University)

Registration Link: <https://forms.gle/HooxEdgSfph05jda7>



Faculty Participation and Achievements

- Dr. Debnath Bhattacharya, Professor CSE has been invited as International Professor by Lincoln University
- Dr. Govind D, Professor CSE gave a lecture on "Machine Learning and Deep Learning: an application perspective" at Sreenivasa Institute of Technology and Management Studies (SITAMS)
- Dr. Debnath Bhattacharya, Professor CSE gave a lecture on "Unsupervised Learning and Clustering", at Qingdao University School of Data Science and Software Engineering
- Dr. Debnath Bhattacharya, Professor CSE gave a lecture on "Next Generation Sequencing", at Academic Times, Bio inspired Lecture Series.
- Dr Vithya Ganesan, Professor CSE gave a lecture on "Role of Deep Learning in IOT", at CADMAXX-Webinar
- Dr P MANIVANNAN, Associate Professor CSE gave a lecture on "PROGRAMMING ON C", in Narasu's Sarathy Institute of Technology, Salem, TamilNadu
- Dr Konduri Bhagavan, Associate Professor CSE gave a lecture on "Revised NAAC Framework 2020", in Dharma Apparao College, Nuzvid
- Dr. K Thirupathi Rao, Professor CSE gave a lecture on "International Day of Yoga", in SRM University – AP
- Dr.M.R.Narasingarao, Professor CSE gave a lecture on "Recent Trends in Bigdata, DataScience and it's Applications--(RTBDA-2021)", in Dharma Apparao College, Nuzvid
- Dr. Nilu Singh, Associate Professor CSE gave a lecture on "Recent Challenges in Digital Forensics", at Online-CSI Lucknow Chapter
- S.Srithar, Assistant Professor CSE gave a lecture on "Strategies for Disk Scheduling and Managemen", at R.V.S. College of Engineering and Technology, Coimbatore
- Dr.K. Subramanyam, Professor CSE was awarded with Best Teacher Award by KLEF
- Dr.G.Pradeepini, Professor CSE was awarded with Best Teacher Award by KLEF
- Dr.K.V.D.Kiran, Professor CSE was awarded with Best Teacher Award by KLEF
- Dr.G.Swain, Professor CSE was awarded with Best Teacher Award by KLEF
- Dr.A.V.Praveen Krishna, Associate Professor CSE was awarded with Best Teacher Award by KLEF
- Dr.Sagar Imambi, Professor CSE was awarded with Best Teacher Award by KLEF
- Mrs. Radhika Rani Chintala, Assistant Professor CSE was awarded with Best Teacher Award by InSc (Institute of Scholors)
- Dr. Debnath Bhattacharyya, Professor CSE was awarded with Excellence in Research by Novel Research Academy
- Dr.K.Kiran Kumar, Professor CSE was awarded with Best Senior Faculty by Novel Research Academy
- Ravi Kumar Tirandasu, Assistant Professor CSE was awarded with Best Paper Award by Sanjivani College of Engineering
- Dr Yellamma Pachipala, Associate Professor CSE was awarded with Women Researcher Award by VDGGOOD Technology
- Dr. Nageswara Rao Moparthi, Professor CSE was awarded with Outstanding Scientist Award by VDGGOOD Professional Association

- Dr.Yellamma Pachipala, Associate Professor CSE was Certified Associate Cloud Engineer from Google Cloud
- Dr.S. Kavitha, Associate Professor CSE has successfully completed Foundation Educator Training as part of Blue Prism Academia Program in the field of Robotic Process Automation

Student's Participation and Achievements:

- Mr. Manoj Gopi with ID No. 180031023 has started and registered a startup named as "PRO MECHANIC WORKS" under Vijayawada East (No. 146)
- MS. Jasvitha Allamsetty with ID No: 170030476 Got top position and bagged Apple Ipad in Hackathon Conducted by DBS ASIA Hub 2 pvt LTD.

48-hour Hackathon

Department of Computer Science and Engineering has conducted 48 hour HACKATHON for CSE 2nd year Students on 18/05/2012 and 19/05/2021.

If you learn something new, those skills don't come out until unless you apply the subject on developing something. Instead of building individual project on each course which you've learnt so far, combining all the skills and building a complete website is a cool Idea. Isn't it? This is what Skill Development Project is all about. Innovation does not come just from giving people incentives, it comes from creating environments where their ideas can connect, in a way, hackathons complement traditional innovation methods. To let that innovation, build in our minds, Team FOCUS conducted a 48-hour hackathon which harvested ideas, knowledge and took technology to the next level.

At the beginning, Students are divided into several teams among themselves. On the final day, Pre-Review and Use Case Allocation is being done where students are instructed to follow a few themes and concepts of their academic part like Enterprise Programming, Data Science and Python Full Stack Development.

Hackathon's Inauguration event is conducted in Cisco WebEx meetings. This Inaugural Event has been followed by Instructions about the Hackathon and motivation speech by our respected Head of the Department, CSE, Mr. Hari Kiran Vege Sir who inspired the students in Brainstorming about their ideas and building innovation in every part of their work.

Later on, Reviews were taken for every individual team in Microsoft teams at frequent intervals and panel members have evaluated and short listed the teams having utmost innovation in their idea and also the teams that included academic concepts in their project.

The Grand Finale is conducted in Cisco WebEx meetings and all the teams who are shortlisted to the Grand Finale were reviewed by our Head of the Department, CSE, Mr. Hari Kiran Vege Sir and the faculty in-charges of the respective teams. It has been a very great exposure for the Y19 batch students, and they were able to know about how industrial projects are taken care of. This 48-hour Hackathon was started at 03:00PM and concluded around 11:00 PM.



Poster of SDP-2 48-hour Hackathon and Mr. Hari Kiran Vege Sir addressing the guidelines to the students during the Grand Finale of 48-hour Hackathon.

Research Publications:

- Amara Devendra Dinesh; Chirra Durga Prasad Reddy; Govada Venkata Gopi; Rishab Jain; T. N. Shankar published a paper entitled "A Durable Biometric Authentication Scheme via Blockchain" in 2021 International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)
- Nikhil Komalapati; Varun Chowdary Yarra; Lakshmi Anantha Vyas Kancharla; T. N. Shankar published a

- paper entitled "Smart Fire Detection and Surveillance System Using IOT" in International Conference on Artificial Intelligence and Smart Systems (ICAIS)
- T. N. Shankar; P Rakesh; T Bhargawa Rao; L Hari Bharadwaj; Ch Rakesh; M. Lakshmi Madhuri published a paper entitled "Providing Security to Land Record with the computation of Iris, Blockchain, and One Time Password" in 2021 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS)
- Sasank, T.S., Ganesh, P.R., Kumar, N.P., Jena, B., Obaid, A.J. published a paper entitled "Cryogenic Analysis of Junctionless Nanowire MOSFET during Underlap in Lower Technology Nodes" in Journal of Physics: Conference Series
- Sumanth Naga Deepak, G., Rohit, B., Akhil, C., Sai Surya Chandra Bharath, D., Prakash, K.B. published a paper entitled "An Approach for Morse Code Translation from Eye Blinks Using Tree Based Machine Learning Algorithms and OpenCV" in Journal of Physics: Conference Series
- Krishna, B.V., Bodavarapu, P.N.R., Santhosh, P., Srinivas, P.V.V.S. published a paper entitled "Chest computed tomography scan images for classification of coronavirus by enhanced convolutional neural network and gabor filter" in Proceedings - 5th International Conference on Intelligent Computing and Control Systems, ICICCS 2021
- Nath, A., Bodavarapu, P.N.R., Chakri, B.J., Srinivas, P.V.V.S. published a paper entitled "Novel deep neural network model for brain tumor and breast cancer classification to promote E-health" in Proceedings - 5th International Conference on Intelligent Computing and Control Systems, ICICCS 2021
- Yellamma, P., Chandra, N.S.N.S.P., Sukhesh, P., Shrunith, P., Teja, S.S. published a paper entitled "Arduino Based Vehicle Accident Alert System Using GPS, GSM and MEMS Accelerometer" in Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021
- Priya, C.K., Sudhakar, M., Lingampalli, J., Basha, C.Z. published a paper entitled "An Advanced Fog based Health Care System Using ANN for the prediction of Asthma" in Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021
- Ayyappa, Y., Neelakanteswara, P., Bekkanti, A., Tondeti, Y., Basha, C.Z. published a paper entitled "Automatic Face Mask Recognition System with FCM and BPNN" in Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021
- Karimunnisa, S., Bekkanti, A., Haritha, U., Parasa, G., Basha, C.Z. published a paper entitled "Advanced IOT based System for Cricketers Health Supervision" in Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021
- Raghuveera, E., Kanakaraja, P., Kishore, K.H., Tanvi Sriya, C., Durga Prasad, B., Sai Krishna Teja Lalith, B. published a paper entitled "An IoT Enabled Air Quality Monitoring System Using LoRa and LPWAN" in Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021
- Sairam Nadipalli, L.S.P., Sai Akhil, D., Kumar, A.A., Ganesh, N. published a paper entitled "Water Conservation Control by using IoT Smart Meter" in Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021
- Reddy Beeram, S., Kuchibhotla, S. published a paper entitled "A Survey on state-of-the-art Financial Time Series Prediction Models" in Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021
- Savarapu, P.R., Shankar, M., Itnal, S., Madupu, R.K., Basha, C.Z., Sreedevi, E. published a paper entitled "Advanced prediction of Heart diseases using Artificial Neural Network and Genetic Algorithm" in Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021
- Anusha, K., Rajesh, N., Kavitha, M., Ravinder, N. published a paper entitled "Comparative Study

of MongoDB vs Cassandra in big data analytics” in Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021

- Chakravorti, T., Addala, V.K., Verma, J.S. published a paper entitled “Detection and Classification of COVID 19 using Convolutional Neural Network from Chest X-ray Images” 2021 6th International Conference for Convergence in Technology, I2CT 2021
- Harishgoud, B., Shankar, T.N., Sahoo, P.K., Cheng, W.H. published a paper entitled “A Novel Method for Routing Packet between Patient and Doctor using Sensor and Cloud” 2021 6th International Conference for Convergence in Technology, I2CT 2021
- Ramesh, N.V.K., Namgiri, S., Satish Kumar, P., Jagadeesh, K., Dixit, C.H.S.K.N.S., Reshma, N.K.S.V.S., Naresh Kumar Reddy, B. published a paper entitled “Prevention of Fire Accidents in Running Trains Using GSM Technology” 2021 6th International Conference for Convergence in Technology, I2CT 2021
- Voleti, L., Balajee, R.M., Vallepu, S.K., Bayoju, K., Srinivas, D. published a paper entitled “A Secure Image Steganography Using Improved Lsb Technique and Vigenere Cipher Algorithm” in Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021
- Tatineni, P., Sobhan Babu, B., Kanuri, B., Rao, G.R.K., Chitturi, P., Naresh, C. published a paper entitled “Post COVID-19 Twitter user’s Emotions Classification using Deep Learning Techniques in India” in Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021
- Tirapathi Reddy, B., Vaishnavi, M., Lalitha, M., Poojitha, P., Kanthi, V.B.S. published a paper entitled “Privacy Preserving Data Deduplication in cloud using Advanced Encryption Standard” in Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021
- Mounika, V., Neeli, D.S., Sree, G.S., Mourya, P., Babu, M.A. published a paper entitled “Prediction of Type-2 Diabetes using Machine Learning Algorithms” in Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021

- Lakshmi Lalitha, V., Hrushikesava Raju, S., Sonti, V.K., Murali Mohan, V. published a paper entitled “Customized Smart Object Detection: Statistics of detected objects using IoT” in Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021
- Karumanchi, V.R., Raju, S.H., Kavitha, S., Lakshmi Lalitha, V., Vijaya Krishna, S. published a paper entitled “Fully Smart fire detection and prevention in the authorized forests” in Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021
- Allada, A., Rao, G.R.K., Chitturi, P., Chindu, H., Prasad, M.S.N., Tatineni, P. published a paper entitled “Breast Cancer Prediction using Deep Learning Techniques” in Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021
- Tumuluru, P., Burra, L.R., Bhavanidasari, D., Saibaba, C.M.H., Revathi, B., Venkateswarlu, B. published a paper entitled “A Novel Privacy Preserving Biometric Authentication Scheme Using Polynomial Time Key Algorithm in Cloud Computing” in Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021
- Pendurthi, H.K., Kanneganti, S.S., Godavarthi, J., Kavitha, S., Gokarakonda, H.S. published a paper entitled “Heart Pulse Monitoring and Notification System using Arduino” in Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021
- Cherukuri, N., Bethapudi, N.R., Thotakura, V.S.K., Chitturi, P., Basha, C.Z., Mummidi, R.M. published a paper entitled “Deep Learning for Lung Cancer Prediction using NSCLS patients CT Information” in Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021
- Rekha, G., Tyagi, A.K., Sreenath, N., Mishra, S. published a paper entitled “Class Imbalanced Data: Open Issues and Future Research Directions” in 2021 International Conference on Computer Communication and Informatics, ICCCI 2021
- Rekha, G., Tyagi, A.K., Sreenath, N., Mishra, S. published a paper entitled “Class Imbalanced Data: Open Issues

and Future Research Directions” in 2021 International Conference on Computer Communication and Informatics, ICCCI 2021

- Lakshmi, G.V., Gogulamudi, S., Nagaeswari, B., Reehana, S. published a paper entitled “BlockChain Based Inventory Management by QR Code Using Open CV” in 2021 International Conference on Computer Communication and Informatics, ICCCI 2021
- Niranjan, K., Narayana, K.S., Rao, M.V.A.L.N. published a paper entitled “Role of Artificial Intelligence in Logistics and Supply Chain” in 2021 International Conference on Computer Communication and Informatics, ICCCI 2021
- Rajesh Babu, Naganjaneyulu, P.V., Prasad, K.S. published a paper entitled “Comparative Analysis of Active Contour Models for Brain Tumor segmentation from T1w MRI Images” in 2021 International Conference on Computer Communication and Informatics, ICCCI 2021
- Rao, D.S., Govardhani, I. published a paper entitled “A Triple Band-Notched UWB Antenna for Microwave Imaging Applications” in 2021 International Conference on Computer Communication and Informatics, ICCCI 2021
- Roy Setiawan, Ramakoteswara Rao Ganga, Priya Velayutham, Kumaravel Thangavel, Dilip Kumar Sharma, Regin Rajan published a paper entitled “Encrypted Network Traffic Classification and Resource Allocation with Deep Learning in Software Defined Network” in Wireless Personal Communications– Scopus Index with DOI: <https://doi.org/10.1007/s11277-021-08403-5>
- Raju Anitha published a paper entitled “A Generic Recommender System for Continuous Optimization based on Deep Neural Network” in Annals of the Roman Society for Cell Biology – Scopus Indexed ISSN: 1583-6258
- S. Karimulla Basha and T. N. Shankar published a paper entitled “Fuzzy Based Multi-Hop Broadcasting in High-Mobility VANETs” in IJCSNS International Journal of Computer Science and Network Security – ESCI Indexed ISSN: 1738-7906
- Pilla Srinivas, Debnath Bhattacharyya and Divya

Midhun Chakkaravarthy published a paper entitled “AN EVALUATION OF SWINE FLU (INFLUENZA A H3N2V) VIRUS PREDICTION USING DATA MINING AND CONVENTIONAL NEURAL NETWORK TECHNIQUES” in Turkish Journal of Computer and Mathematics Education– Scopus Indexed ISSN: 1309-4653

- R. H. Aswathy, P. Suresh, K. Roslin Dayana, and P. Robert published a paper entitled “Multiparameter Optimization Technique Based on Enhanced Neuro Genetic Model (ENGM) for Precision Agriculture” in Journal of Computational and Theoretical Nanoscience– Scopus Indexed
- Roshini, A., Kiran, K.V.D., Anudeep, K.V. published a paper entitled “Hybrid Acknowledgment Scheme for Early Malicious Node Detection in Wireless Sensor Networks” in Advances in Intelligent Systems and Computing – Scopus Indexed
- Mohapatra, H., Rath, A.K., Lenka, R.K. et al. published a paper entitled “Topological localization approach for efficient energy management of WSN” in Evolutionary Intelligence – Scopus and ESCI Indexed ISSN: 1864-5909
- M Kavitha, K Anusha, MVBT Santhi, N Rajesh, Choragudi S.F published a paper entitled “Predicting crop yield using neural network with optimal stochastic gradient” in Turkish journal of physiotherapy and rehabilitation – Scopus and ESCI Indexed ISSN: 2651-4451
- VENUBABU RACHAPUDI, M SITHA RAM, P DILEEP, T.L. DEEPIKA ROY published a paper entitled “TRAFFIC SIGN CLASSIFICATION USING CONVOLUTIONAL NEURAL NETWORK” in Turkish Journal of Physiotherapy and Rehabilitation – Scopus and ESCI Indexed 2651-4451
- VVS SASANK published a paper entitled “MODERN DRIVEN REQUIREMENT ENGINEERING WITH REQUIREMENT PRIORITIZATION IN SOFTWARE TESTING” in Turkish Journal of Physiotherapy and Rehabilitation – Scopus and ESCI Indexed 2651-4451
- C.Callins Christiyanaa, S.Riyas Parveenb, P.Roberto, M.Poomani alias Punithad published a paper entitled “Impact of Distance Metrics in Local Energy Oriented

Pattern Based Image Retrieval" in Design Engineering – Scopus and ESCI Indexed 0011-9342

- VVS SASANK published a paper entitled "Executing CNN-LSTM Algorithm for recognizable proof of Cervical Spondylosis infection on Spinal Cord MRI Image" in IGI GLOBAL – Scopus ISSN: 2465-5643
- Dr.KARTHIKEYAN C published a paper entitled "Prediction of Climate Change using SVM and Naïve Bayes Machine Learning Algorithms" in Turkish Journal of Computer and Mathematics Education – Scopus Indexed doi: <https://doi.org/10.17762/turcomat.v12i2.1856>
- SaiAkash Neela, Yashwanth Neyyala, VamsiNadh Pendem, Kanishk Peryala, Vasantham Vijay Kumar published a paper entitled "Cloud Computing Based Learning Web Application Through Amazon Web Services" in IEEE – Scopus Indexed 2575-7288
- Chaitanya, C., Reddy, C.N., Vignesh, K.S., ...Roshini, A., Swetha, K. published a paper entitled "Enhanced Hash Based Image Steganography Technique to Increase Data Integrity and Confidentiality" in 2021 7th International Conference on Advanced Computing and Communication Systems, ICACCS – Scopus Indexed ISSN: 2575-7288
- S.C.Dharmadhikari,VerrajuGampala,Ch.Mallikarjuna Rao, Syed Khasim, Shafali Jain, R. Bhaskaran published a paper entitled "A smart grid incorporated with ML and IoT for a secure management system" in Microprocessors and Microsystems– Scopus Indexed ISSN: 0141-9331
- NL Sowjanya Cherukupalli published a paper entitled "Detecting and Minimizing of background moving objects in video frames using DARPA technique" in International journal of aquatic science – Scopus Indexed ISSN: 2008-8019
- Devisri, K., Indrani, K.S., Gayathri, A.L., ...Roshini, A., Kommineni, M. published a paper entitled "An Efficient hierarchical Routing Algorithm to Detect DoS in Wireless Body Area Networks" in 2021 7th International Conference on Advanced Computing and Communication Systems, ICACCS – Scopus Indexed ISSN: 2575-7288

- P. N. R. L. Chandra Sekhar and T. N. Shankar published a paper entitled "Effective Splicing Localization Based on Image Local Statistics" in Advanced Sciences and Technologies for Security Applications– Scopus Indexed ISBN 978-3-030-68534-8
- Prasad, K. Rajendra; Mohammed, Moulana; Noorullah, R. M. published a paper entitled "Visual topic models for healthcare data clustering" in EVOLUTIONARY INTELLIGENCE – Scopus and ESCI Indexed ISSN: 1864-5909
- Sahu, Aditya Kumar; Swain, Gandharba; Sahu, Monalisa; Hemalatha, J. published a paper entitled "Multi-directional block based PVD and modulus function image steganography to avoid FOBP and IEP" in JOURNAL OF INFORMATION SECURITY AND APPLICATIONS – Scopus Indexed ISSN: 2214-2126
- Jammalamadaka, Kiran; Parveen, Nikhat published a paper entitled "Testing coverage criteria for optimized deep belief network with search and rescue" in JOURNAL OF BIG DATA – ESCI Indexed
- Menon, Supriya M.; Pothuraju, Rajarajeswari published a paper entitled "An Efficient Privacy Preserving Approach for e-Health" in INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS – Scopus Indexed ISSN 2158-107X
- Tatale, Subhash B.; Prakash, V. Chandra published a paper entitled "A Survey on Test Case Generation using UML Diagrams and Feasibility Study to Generate Combinatorial Logic Oriented Test Cases" in INTERNATIONAL JOURNAL OF NEXT-GENERATION COMPUTING – SCI Indexed ISSN: 2229-4678
- Rao, P. C. Srinivasa; Kumar, A. J. Sravan; Niyaz, Quamar; Sidike, Paheding; Devabhaktuni, Vijay K. published a paper entitled "Binary chemical reaction optimization based feature selection techniques for machine learning classification problems" in EXPERT SYSTEMS WITH APPLICATIONS – Scopus Indexed ISSN: 0957-4174
- Basha, S. Karimulla; Shankar, T. N. published a paper entitled "Fuzzy logic based forwarder selection for efficient data dissemination in VANETs" in WIRELESS NETWORKS – Scopus Indexed ISSN: 1022-0038

- Anuradha, M.; Ganesan, Vithya; Oliver, Sheryl; Jayasankar, T.; Gopi, R. published a paper entitled "Hybrid firefly with differential evolution algorithm for multi agent system using clustering based personalization" in JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING – Scopus and ESCI Indexed ISSN: 1868-5137
- Banchhor, C., Srinivasu, N. published a paper entitled "Analysis of Bayesian optimization algorithms for big data classification based on Map Reduce framework" in Journal of Big Data – Scopus Indexed
- Sonar, R., Swain, G. published a paper entitled "Multi-Directional Pixel Difference Histogram Analysis Based on Pixel Blocks of Different Sizes" in Sensing and Imaging – Scopus Indexed
- Ganesan, T., Rajarajeswari, P. published a paper entitled "Hybrid genetic algorithm with haar wavelet for maximum target coverage node deployment in wireless sensor networks" in Journal of Cases on Information Technology– Scopus Indexed
- Ghuge, C., Prakash, V.C., Ruikar, S. published a paper entitled "An Integrated Approach Using Optimized Naive Bayes Classifier and Optical Flow Orientation for Video Object Retrieval" in International Journal of Intelligent Engineering and Systems– Scopus Indexed
- Narasimha Raju, B.N.V., Bhadri Raju, M.S.V.S., Satyanarayana, K.V.V. published a paper entitled "Effective preprocessing based neural machine translation for english to telugu cross-language information retrieval" in IAES International Journal of Artificial Intelligence– Scopus Indexed
- Anuradha, M., Ganesan, V., Oliver, S., Jayasankar, T., Gopi, R. published a paper entitled "Hybrid firefly with differential evolution algorithm for multi agent system using clustering based personalization" in Journal of Ambient Intelligence and Humanized Computing– Scopus Indexed
- Konduri, P.S.R., Rao, G.S.N. published a paper entitled "Deep stacked patch auto-encoder based organ classification for surgical data science applications" in Turkish Journal of Physiotherapy and Rehabilitation – Scopus Indexed
- Keerthana, Y., Babu, M.K. published a paper entitled "A study on factors affecting the choice of international medical facility for growth of indian medical tourism" in Turkish Journal of Physiotherapy and Rehabilitation – Scopus Indexed
- Sasank, V.V.S., Konduri, P.S.R., Prathipati, P.K., Ahammad, S.K.H., Saikumar, K. published a paper entitled "A real and accurate fake product detection system and generate original reviews using data mining mechanism" in Turkish Journal of Physiotherapy and Rehabilitation – Scopus Indexed
- Funde, S.K., Swain, G. published a paper entitled "Security aware information classification in health care big data" in International Journal of Electrical and Computer Engineering – Scopus Indexed
- Kimmattkar, N.V., Vijaya Babu, B. published a paper entitled "Novel approach for emotion detection and stabilizing mental state by using machine learning techniques" in International Journal of Electrical and Computer Engineering – Scopus Indexed
- Prakash, O.P.G., Jaya, A., Ananthakumaran, S., Ganesh, G. published a paper entitled "Predicting the user navigation pattern from web logs using weighted support approach" in Indonesian Journal of Electrical Engineering and Computer Science – Scopus Indexed
- Talluri, L.S.R.K., Thirumalaisamy, R., Kota, R., Sadi, R.P.R., Kc, U., Naha, R.K., Mahanti, A. published a paper entitled "Providing consistent state to distributed storage system" in Indonesian Journal of Electrical Engineering and Computer Science – Scopus Indexed
- Narasamma, V.L., Sreedevi, M. published a paper entitled "Twitter based Data Analysis in Natural Language Processing using a Novel Catboost Recurrent Neural Framework" in International Journal of Advanced Computer Science and Applications – Scopus Indexed
- Venkateswara Rao, M., Malladi, S. published a paper entitled "Improving Packet Delivery Ratio in Wireless Sensor Network with Multi Factor Strategies" in International Journal of Advanced Computer Science and Applications – Scopus Indexed
- Varada Rajkumar, K., Subrahmanyam, K. published a paper entitled "Analysis of principal components and

classification enhancement for rainfall prediction” in Indian Journal of Computer Science and Engineering– Scopus Indexed

- Menon M, S., Pothuraju, R. published a paper entitled “An Efficient Privacy Preserving Approach for e-Health” in International Journal of Advanced Computer Science and Applications – Scopus Indexed
- Chaudhari, S., Swain, G. published a paper entitled “Efficient and Secure Group based Collusion Resistant Public Auditing Scheme for Cloud Storage” in International Journal of Advanced Computer Science and Applications – Scopus Indexed
- Johnson, S.A., Ananthakumaran, S. published a paper entitled “Smart Digital Forensic Framework for Crime Analysis and Prediction using AutoML” in International Journal of Advanced Computer Science and Applications – Scopus Indexed
- Tyagi, M.K., Sikandar, A., Tyagi, D.K., Kumar, D., Singh, P., Munisamy, S., Reddy, L.S.S. published a paper entitled “State Space Modeling of Earned Value Method for Iterative Enhancement Based Traditional Software Projects Tracking” in Communications in Computer and Information Science – Scopus Indexed
- Rao, M.V., Malladi, S. published a paper entitled “Secure Intruder Information Sharing in Wireless Sensor Network for Attack Resilient Routing” in International Journal of Advanced Computer Science and Applications – Scopus Indexed
- Maddipati, S.S., Srinivas, M. published a paper entitled “An Hybrid Approach for Cost Effective Prediction of Software Defects” in International Journal of Advanced Computer Science and Applications – Scopus Indexed
- M. Kavitha, Singaraju Srinivasulu, Maluka Madhava Reddy, Vellaturi Gopikrishna, Sindhe Phani Kumar, S Kavitha published a paper entitled “Hybrid Model using Feature Selection and Classifier in Bigdata Healthcare Analytics ” in Springer – Scopus Indexed
- Kumar, V.P., Prakash, K.B. published a paper entitled “Optimize the Cost of Resources in Federated Cloud by Collaborated Resource Provisioning and Most Cost-effective Collated Providers Resource First Algorithm”

in International Journal of Advanced Computer Science and Applications – Scopus Indexed

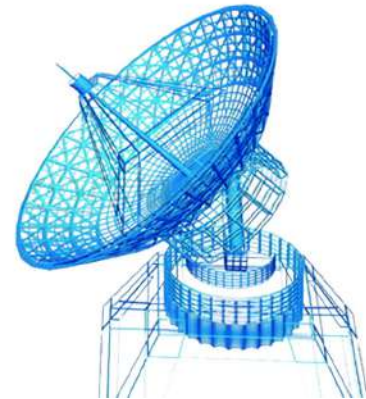
- Dr.S.S.Aravinth published a paper entitled “THE APPLICATIONS OF SUPERVISED MACHINE LEARNING ALGORITHMS IN HEALTH CARE TREATMENT SYSTEM” in Annals of the Romanian Society for Cell Biology – Scopus Indexed ISSN: 1583-6258

Books Published:

- P. N. R. L. Chandra Sekhar and T. N. Shankar, Faculty of CSE has contributed for the chapters of the book Effective Splicing Localization Based on Image Local Statistics which published in Springer - ISBN 978-3-030-68534-8

Projects/Patents:

- Dr. Bhanu Prakash, Professor CSE was granted a Patent “Sewage pipeline blockage and bottle neck detection using hybrid sensor and Geo-spatial data analysis” by Govt. of. India
- A Patent has been published by Dr.M.R.Narasingarao, Professor CSE on Tender Coconut Drilling Device.
- A Patent has been published by B.Prabha , Assistant Professor CSE on Intelligent Hearing Aid System using Augmented Audio Reality.
- A Patent has been published by B.Prabha , Assistant Professor CSE on Massive Machine Type Communication Technique for Instant Inventory Updation in Retail Shopping Using 5G.
- A Patent has been published by Dr.KARTHIKEYAN C , Associate Professor CSE on FOOT-OPERATED SEED AND LEAVES PULVERIZER USING AUTOMATED THRUST CONTROL TECHNIQUE
- A Patent has been published by SUDESHNA SANI, Assistant Professor CSE on A SYSTEM FOR ANALYSING MINERAL AND GAS PRODUCTION USING MACHINE LEARNING / AI INTERFACES
- A Patent has been published by Dr. Veerraju Gampala, Associate Professor CSE on IOT BASED OPTIMAL MANAGEMENT OF SMART FARMS USING WIND POWER SYSTEM



FACULTY ORIENTATION LECTURES - MAY 2021

Speech Enhancement using Deep Learning based Approach Dr. Sidheswar Routray (10th May)

In this talk, he presented various advanced speech enhancement techniques using deep learning-based approach. Speech enhancement is basically the task of accepting a noisy speech as input to produce an enhanced speech output. The selection of representation is a crucial method for obtaining high performance of the system. The spectrogram is regarded as providing a useful representation for audio processing among all time-frequency decompositions. The talk proposes a binaural speech enhancement approach through deep neural network. Also, the multiple deep neural network (DNN) based speech enhancement technique has been discussed in this presentation that estimates clean speech spectrum as a weighted average of outputs from multiple DNNs. Finally, a comparative analysis has been shown to highlight the superiority of proposed method by quantifying the improvements. The lecture proposes various other strategies based on Deep Neural Networks (DNN) for speech enhancement in diverse scenarios. The outcomes from this talk could be useful for speech enhancement in the real-world scenarios where several noises simultaneously corrupt the speech.

DNN Based Single-Channel Speech Enhancement Technique Using Phase Estimate Based T-F Masking



AI and Deep Learning for Medical Applications Dr. B. Polaiah (11th May)

In this lecture, he presented the emerging trends in AI and Deep Learning for Medical Applications. AI and Deep learning has a much promising and potential role for medicine and healthcare and contributed to combating the COVID-19 pandemic in ways ranging from early detection and diagnosis, treatment monitoring, contact tracing, drug and vaccine development and case / mortality forecasting. Great challenges for AI and Deep learning for medicine development and adoption remain though as indicated by cured cases in India up to 25th June 2020. The development effort in this talk is based on publicly available data that is downloaded from KAGGLE to estimate the spread of the disease within a short period and calculated the RMSE. The talk reviews progress and initiatives for AI and Deep learning in medicine and applications related to COVID-19 and concludes with discussion of ongoing DL tool and medicine challenges and considerations.



Beam Scanning Antenna for Collision avoidance in WSN

Dr.M.Sujatha (12th May)

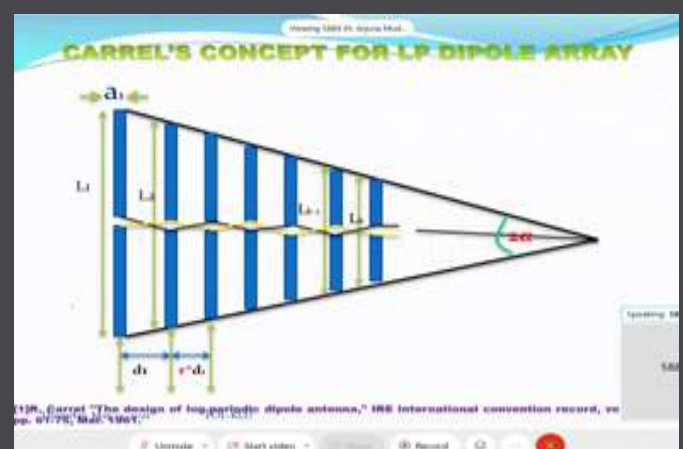
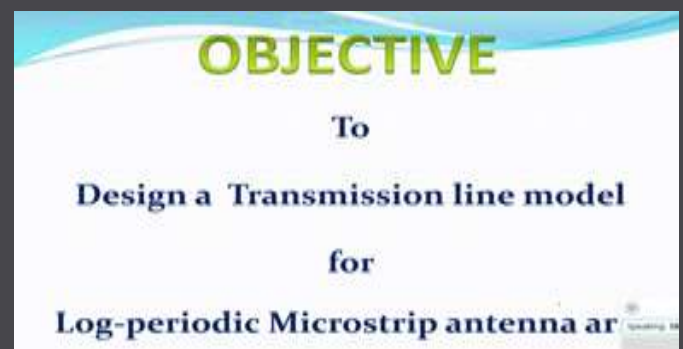
This talk presents design of Beam Scanning Antenna for Collision avoidance in Wireless sensor network (WSN). In brief, the WSN has been growing at a rapid pace, particularly, with improvements in Micro Electromechanical Systems (MEMS) which facilitate the development of smart sensors. A collision occurs in WSN when a receiver within the transmission range of two transmitters, transmitting data simultaneously, and the receiver capture neither frame. Every collision activity is characterized by excessive energy dissipation. Collisions should be avoided and at least mitigated in order to avoid energy drain. Collision problem greatly impacts the network throughput, energy-efficiency and causes message transfer delays. The problem increases dramatically with increase in the number of nodes. Many research works have devised solutions for eliminating and reducing the impact of the hidden-node problem. In wireless networks, hidden node problem solutions are broadly categorized into proactive and reactive mechanisms to demonstrate the efficiency of proactive mechanisms. However, grouping mechanisms are effective compared to the non-grouping mechanisms. In a wireless network, minimizing energy utilization is achieved by reducing the number of transmissions. For securing nodes in a cluster, it is important to detect and eliminate compromised nodes in the initial clustering process. Nodes equipped with sensors are powered by battery sources with limited capacity. The nodes perform computing and transmission with limited resources. Hence, it is important to reduce the volume of communication between the nodes in a network for conserving energy.



Log periodic Microstrip array: in perspective of Transmission line model

Dr. Arjuna Muduli (13th May)

This talk presents one of the simplest models of a rectangular microstrip antenna is the transmission line model. The transmission line model considers a rectangular microstrip antenna of length ' L ' and width ' W ' fabricated on a substrate of thickness ' h .' It uses the following assumptions: (1) The length is responsible for the resonant frequency in the dominant mode; (2) The radiation comes from the width; (3) At both ends of the length, the radiation comes out of a slot of width ' h ' and length ' W ,' and (4) Both these slots act as admittances loading a transmission line of length ' L ' with characteristics impedance equal to that of the rectangular microstrip antenna. Though not accurate the transmission line model gives an excellent first-hand estimation for all TM_{00n} modes, at lower operating frequencies. The slots represent very high impedance terminations for both sides of the transmission line. The dominant TM_{01} mode has a uniform field distribution along x-direction at the slot along the non-radiating edge of the patch. Each radiating slot acts like a normalized terminating admittance $Y=G+jB$. Here, G and B represent normalized radiation conductance and capacitive susceptance, respectively.



Graphene and Its Application

Dr. Naren Das, MERG (14th May)

This talk presents a brief introduction on Graphene and Its Applications. Graphene, a one-atom-thick sheet of sp²-hybridized carbon, is an ideal surface for impedimetric biosensing. It exhibits metallic conductivity, high heterogeneous electron-transfer rates, very large surface area and biocompatibility. Moreover, graphene and graphene-derived materials are easily functionalized by well-established chemistry. In addition, graphene is easily obtained at low costs from graphite. Thus, it would be interesting to combine the electrochemical behavior of graphene with the low noise frequency-based detection of nanostructured silicon with a view to enhance the sensitivity.

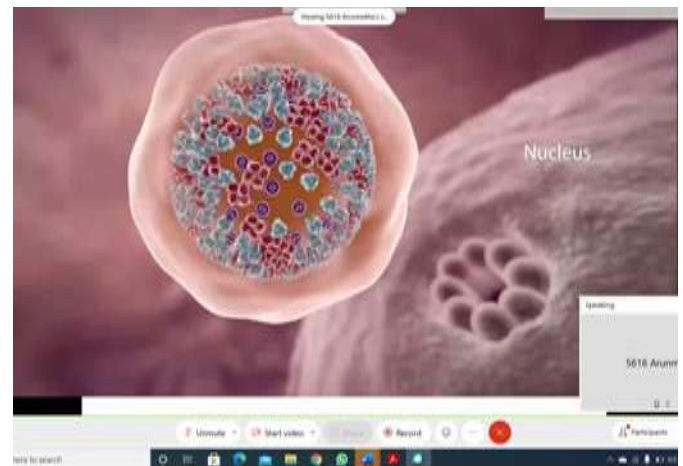


UV Disinfection Device @ COVID-19 Pandemic

Dr.S. Arunmetha (15th May)

This talk highlights design of an UV Disinfection Device for COVID-19. The current situation, the global health-threatening crisis from the COVID-19 pandemic, is caused by the severe acute respiratory syndrome coronavirus. Sometimes it becomes necessary to go outside to fulfil our day-to-day life requirements, but we must keep ourselves safe by following precautionary measures recommended by World Health Organization. To address these issues, we have designed and developed a smart UV-C disinfection

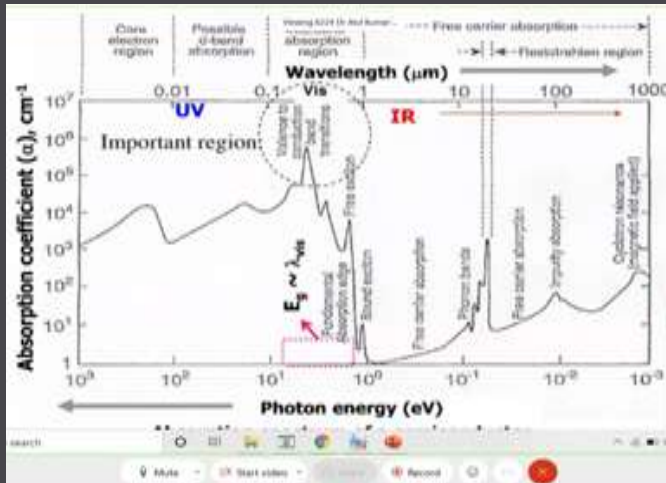
device (SUVCDD). In the designed SUVCDD, a node micro-controller unit (NodeMCU) controller board was used to control and monitor the device by using a timer, a switch, and sensors. The device uses sensors to monitor its vital parameters, such as safety switch, UV index, ambient temperature, and moisture. A prototype of the proposed SUVCDD was designed using the Solid Edge software. Plywood was used as a material in the device. The shape of the prototype was of a hexagonal prism, which offers a higher total internal reflection compared to other shapes. The structure increased the rate of sterilization in minimal time. The developed SUVCDD radiated UV-C light for a preset time duration. Whenever an interruption occurs (door opens), the device stops working and resumes its function after the interruption is resolved (door closes). The device prototype was examined experimentally to show its effectiveness. It also plays a crucial role in preventing viral contagion in the current COVID-19 pandemic, as well as may be used in potential future epidemics.



Photovoltaics Device Simulation

Dr. Atul Kumar (17th May)

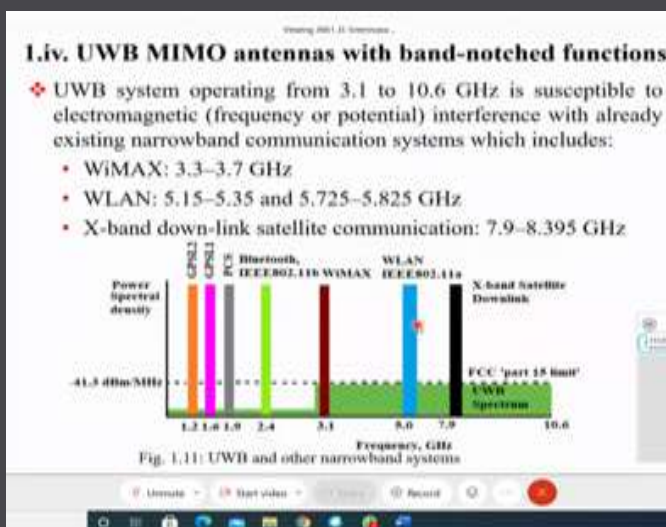
In this talk the Photovoltaics Device Simulation is discussed in detail. SCAPS (a Solar Cell Capacitance Simulator) is a one-dimensional solar cell simulation program developed at the Department of Electronics and Information Systems (ELIS) of the University of Gent, Belgium. The was originally program is developed for cell structures of the CuInSe₂ and the CdTe family. Recent developments make the program now also applicable to crystalline solar cells (Si and GaAs family) and amorphous cells (a-Si and micromorphous Si). A glimpse of SCAPS capabilities in simulating photovoltaic devices is discussed.



Introduction to Design of UWB-MIMO Antennas

Mr. D. Sreenivasa Rao (18th May)

In this talk, he presented how to design Ultra-wideband antennas for multiple input multiple output communication systems. He also demonstrated about the band notched UWB antennas to minimize the interferences from narrow band communication systems. He discussed the elliptical and circular planar monopole MIMO UWB antenna design with band-stopped functions for portable wireless devices. The design of proposed antenna, the details of the band-notch filter for creating band-notch at ISM, WLAN, WiMAX, C and X-band satellite communication bands with design equations discussed. In the end, measured outcomes of the planned antenna both in the frequency and time domain are presented.



Delay Minimization in on Chip Interconnects by the Method of Logical Effort

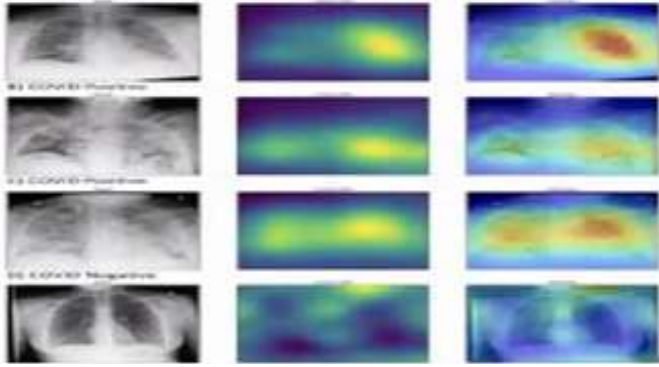
Dr.S.A.Sivasankari (19th May)

In this talk, a logical effort (LE) model for on-chip delay minimization is discussed. The aim of the work in this presentation was to minimize the delay in on-chip interconnects. Our objective is to analyze the wire geometry impact for delay minimization. Here proposed effect is achieved by Logical effort (LE). The analyzes which is on the low swing where it was implemented by using CMOS circuit in 90 nm GPDK library and simulations on the cadence virtuoso ADE EDA tools. Once by reducing the delay the application is oriented for high-speed applications. The logical effort (LE) model which reduces the delay minimization. This work which compensates both the long interconnects and short interconnects.

Linear Time Frequency Transform Techniques to analyze COVID Images

Mr. Bathula Murali Krishna (20th May)

In this talk, various Linear Time Frequency Transform Techniques to analyze COVID Images are discussed with their importance and shortcomings. Usually, a Linear TFRs such as Short Time Fourier Transform (STFT), Continuous Wavelet Transform (CWT), Stockwell Transform (S-Transform) and Quadratic TFRs like Wigner Ville Distribution (WVD), Pseudo Wigner Ville Distribution (PWVD), Choi William Distribution (CWD), and Rihaczek Distribution (RD) are designed in Verilog and performed over FPGA. In most of the FFT architectures many butterfly unit (BU) stages are remains idle during computation since current stage computation depends on previous stage outputs. As a result, these idle BU leads to additional register allocation and delay propagation. An optimized VLSI architecture is proposed in this paper for efficient clock utilization to compute FFT in all TFRs. Folding technique is implemented in all TFRs to minimize the register allocation. The design is carried out in Verilog code and CORDIC algorithm is used to compute core butterfly structure of FFT in all TFRs. Chirp signal is taken as input to evaluate real time performances of all TFRs. Real time factors utilized on FPGA hardware like Flip Flops, IOBs, LUTs utilization and power consumption are compared for all TFRs. Further proposed methodology is compared with previous existing methods for better time frequency applications.

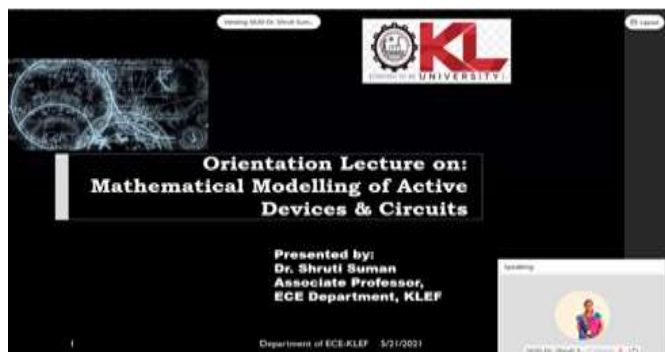


Mathematical Modeling of Active Devices & Circuits, MERG

Dr. Shruti Suman (21st May)

In this lecture, the mathematical modeling of active devices & circuits is discussed. A mathematical modelling is a process of developing a mathematical model with the help of description of a system using mathematical concepts and language. Engineers must know the art of design & be able to modify and redesign. Electronic engineers must continuously improve methods of mathematical modelling in terms of description, numerical analysis, and computer aided design of devices. A mathematical modeling is the only effective approach to respond to the current needs that demands fast and inexpensive design and production. It helped electronics engineer extensively to study the dynamic behavior of any system. To appreciate the effectiveness of Mathematical Modeling, we must show connectivity/dependency of Engineering on Math and Modeling. As it is required as concept of Engineering remains the same but modes of applications changes.

Researchers are devoting their time and efforts on the development of efficient and high-speed device models as the requirement for faster and smaller circuits. The device models are developed employing various mathematical calculations and simulation processes before being adopted into practical circuit and system-level simulation steps.



High-speed Pre-Accumulator MAC for CNN with Low Power consumption

Mrs.K.Mariya Priyadarshini (22ndMay)

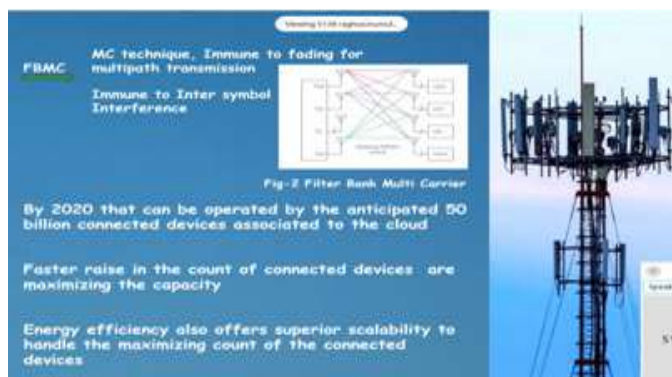
This lecture presents a high-speed pre-accumulator MAC for Convolution Neural Networks (CNN) with low power consumption. In today's phase of growing technology CNN are all over the place. It is chiefly a thriving segment in machine learning as well as Artificial Intelligences (AI) techniques. CNN need of bulk amount of computing competence and memory with higher frequency range. In this present investigation Pre-Accumulator and Post-Multiplier's (PAPM) are proposed which accelerate the processing of image, video and voice. 4-bit multiplier using Carry Save Adder (CSA) is built with 6Transistors-Adder and sutras of Vedic mathematics is constructed. Accumulator of Multiplier and Accumulator are designed with Two Level Edge Triggering Flip-Flops (TLET-FF) to increasebandwidth of the memory. The proposed architecture of Multiply Accumulate (MAC) circuit consumes very less power when compared with that of existing high speed MAC structures. Performance of Accumulator is contrasted with '3' different kinds of Two-Level Triggered flip-flops namely 16TLET-FF, 14TLET-FF and 12TLET-FF's. The projected MAC replaces the existing multipliers due its low power together with high frequency of operation.

Transmit Antenna Selection, Power and Energy Efficient Algorithm in Massive MIMO Technology

Mr.I. Veera Raghava Rao (31-May)

This talk presents an efficient transmit antenna selection, power and energy efficient algorithm in massive MIMO technology. Massive Multiple Input Multiple Output (M-MIMO) systems depend on numerous antennas to transfer numerous data streams simultaneously in Wireless Network Systems. In M-MIMO systems, the optimal Transmit Antennas Selection remains as a major constraint. As the count of antennas is increased, the power or energy consumption also increases. In fact, for attaining higher capacity, more transmit antennas is required, which leads to an increase in power consumption. Hence, for solving these problems in M-MIMO systems, this talk intends to achieve the selection of optimal transmit antennas by considering

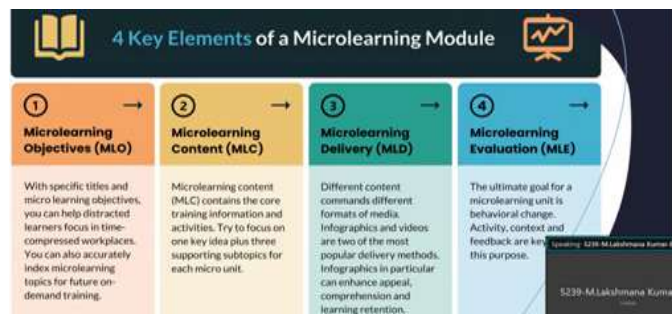
a multi-objective problem that maximizes both the capacity and relative Energy Efficiency. For attaining this objective, the proposed novel optimization algorithm not only optimizes the number of transmit antennas but also optimizes which antenna must be selected. Hence, for optimal selection of antennas, improved GSA is used here, based on a velocity vector, and hence the proposed scheme is termed as Modified Velocity vector-based GSA (MV-GSA) that determines the number of antennas and how to select the antennas in an optimal way. Moreover, the adopted scheme is compared with conventional algorithms like Genetic Algorithm, Artificial Bee Colony, Particle Swarm Optimization, Fierce fly and conventional GSA and the results are obtained.



Faculty Orientation Lectures-(June 2021)

Creation of Microlearning Path in LinkedIn Mr. M. Lakshman Kumar (18-June)

In this talk, he reiterated the concept of Micro-eLearning which enables learners to digest bite-sized pieces of information in a highly engaging and interactive way. He also discussed the Key Elements of Micro-Learning of Micro Learning Objectives, Micro Learning Content, Micro Learning Delivery, Micro Learning Evaluation (Cognitive, Psychomotor and Reflective Learning Levels). The discussion leads into Hands-on session with LinkedIn Learning Path Creation for Micro-eLearning.



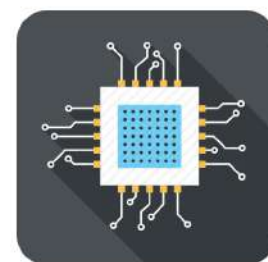
R and D Publications (April to June 2021)

1. Naik K.K., Suman M., Rao E.V.K. , " Design of complementary split ring resonators on elliptical patch antenna with enhanced gain for terahertz applications ", Optik , Vol No: 243 , 2021, SCI
2. Suneetha M., M.V.D. P., P.V.V. K. , " Multi-view motion modelled deep attention networks (M2DA-Net) for video based sign language recognition ", Journal of Visual Communication and Image Representation , Vol No: 78 , 2021, Scopus
3. Yalavarthi U.D. , " Reconfigurable orthogonal quad-port MIMO antenna for DSRC, WLAN, RADAR and Ku-band applications ", AEU - International Journal of Electronics and Communications , Vol No: 136, 2021, Scopus
4. Mergu K., Khan H. , " Mitigation of spectrum sensing data falsification attack in cognitive radio networks using trust based cooperative sensing ", International Journal of Engineering Transactions C: Aspects , Vol No: 34 , Issue No: 6 , pp: 1468 - 1474 , 2021, Scopus
5. Jyoshna G., Ur Rahman M.Z. , " An adaptive learning based speech enhancement technique for communication systems ", International Journal of Engineering Trends and Technology , Vol No: 69 , Issue No: 6 , pp: 31 - 37 , 2021, Scopus
6. Rooban S., Subbulakshmi N., Vamsi Y.P. , " Low power circuit design for dynamic comparator ", International Journal of Performability Engineering , Vol No: 17 , Issue No: 5 , pp: 444 - 450 , 2021, Scopus
7. 7. Sailaja B.V.S., Naik K.K. , " CPW-fed elliptical shaped patch antenna with RF switches for wireless applications ", Microelectronics Journal , Vol No: 111 , 2021, Scopus
8. Kumar A. , " Efficiency enhancement of CZTS solar cells using structural engineering ", Superlattices and Microstructures , Vol No: 153 , 2021, Scopus
9. Mohan K.N., Reddy K.H., Yasaswini N. , " Comparison and analysis of different feeding techniques for MIMO antenna's UWB applications with defected ground structure ", 2021 IEEE International IOT, Electronics and Mechatronics Conference, IEMTRONICS 2021 - Proceedings , 2021, Scopus
10. Raghuveera E., Kanakaraja P., Kishore K.H., Tanvi Sriya C., Durga Prasad B., Sai Krishna Teja Lalith B. , " An IoT Enabled Air Quality Monitoring System Using LoRa and LPWAN ", Proceedings - 5th International Conference

- on Computing Methodologies and Communication, ICCMC 2021 pp: 453 - 459 , 2021, Scopus
11. Sairam Nadipalli L.S.P., Sai Akhil D., Kumar A.A., Ganesh N. , " Water Conservation Control by using IoT Smart Meter ", Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021 , pp: 448 - 452 , 2021, Scopus
 12. Swarna M., Gade L., Rooban S. , " Design of Fault Tolerant Multiplier Using Self checking adder and GDI Technique ", 2021 6th International Conference for Convergence in Technology, I2CT 2021, Scopus
 13. Kumar A. , " Numerical modelling of ion-migration caused hysteresis in perovskite solar cells ", Optical and Quantum Electronics , Vol No: 53 , Issue No: 4 , 2021, Scopus
 14. Bhavana D., Kishore Kumar K., Chandra M.B., Sai Krishna Bhargav P.V., Joy Sanjana D., Mohan Gopi G. , " Hand sign recognition using cnn ", International Journal of Performability Engineering , Vol No: 17 , Issue No: 3 , pp: 314 - 321 , 2021, Scopus
 15. Joshitha C., Kanakaraja P., Kumar K.S., Akanksha P., Satish G. , " An eye on hydroponics: The iot initiative ", Proceedings of the 7th International Conference on Electrical Energy Systems, ICEES 2021 , pp: 553 - 557 , 2021, Scopus
 16. Joshitha C., Kanakaraja P., Bhavani M.D., Raman Y.N.V., Sravani T. , " Lorawan based cattle monitoring smart system ", Proceedings of the 7th International Conference on Electrical Energy Systems, ICEES 2021 , pp: 548 - 552 , 2021, Scopus
 17. Rajasekhar K., Sunithamani S. , " Multi parametric extraction and validation of series DC contact RF MEMS switches for low-frequency wireless communication applications ", International Journal of Engineering Trends and Technology , Vol No: 69 , Issue No: 2 , pp: 194 - 200 , 2021, Scopus
 18. Rajesh Babu, Naganjaneyulu P.V., Prasad K.S. , " Comparative Analysis of Active Contour Models for Brain Tumor segmentation from T1w MRI Images ", 2021 International Conference on Computer Communication and Informatics, ICCCI 2021 , 2021, Scopus
 19. Rao D.S., Govardhani I. , " A Triple Band-Notched UWB Antenna for Microwave Imaging Applications ", 2021 International Conference on Computer Communication and Informatics, ICCCI 2021 , 2021, Scopus
 20. Badugu D.M., S S., Shaik J.B., Vobulapuram R.K. , " Design of hardened flip-flop using Schmitt trigger-based SEM latch in CNTFET technology ", Circuit World , Vol No: 47 , Issue No: 1 , pp: 51 - 59 , 2021, Scopus
 21. Lavanya P., Satyanarayana P., Mohatram M. , " Peak to average power ratio reduction of ZT DFT-S-OFDM signals using hybrid improved monarch butterfly optimization-PTS scheme with TR-clipping scheme ", International Journal of Communication Systems , 2021, Scopus
 22. Aditya M., Rao K.S., " Design and Performance Analysis of Advanced MOSFET Structures ", Transactions on Electrical and Electronic Materials , 2021, Scopus
 23. Tirumani V.H.L., Tenneti M., Ch. Srikavya K., Kotamraju S.K. , " Image resolution and contrast enhancement with optimal brightness compensation using wavelet transforms and particle swarm optimization ", IET Image Processing , 2021, Scopus
 24. Shaik A.A., Mareedu V.D.P., Polurie V.V.K. , " Learning multiview deep features from skeletal sign language videos for recognition ", Turkish Journal of Electrical Engineering and Computer Sciences , Vol No: 29 , Issue No: 2 , pp: 1061 - 1076 , 2021, Scopus
 25. Ram Sandeep D., Prabakaran N., Madhav B.T.P., Vinay D., Sri Hari A., Jahnvi L., Salma S., Inturi S. , " Sequential Nonlinear Programming Optimization for Circular Polarization in Jute Substrate-Based Monopole Antenna ", Advances in Intelligent Systems and Computing , Vol No: 1312 AISC , pp: 215 - 221 , 2021, Scopus
 26. Salma S., Khan H., Madhav B.T.P., Sushmitha M., Mohan K.S.M., Ramya S., Ram Sandeep D. , " Genetic Algorithm-Based Optimization in the Improvement of Wideband Characteristics of MIMO Antenna ", Advances in Intelligent Systems and Computing , Vol No: 1312 AISC , pp: 223 - 229 , 2021, Scopus
 27. Salma S., Khan H., Madhav B.T.P., Triveni V., Pavan K.T.V.S., Yadu Vamsi G., Sandeep D.R. , " Design and Analysis of Optimized Dimensional MIMO Antenna Using Quasi-Newton Algorithm ", Advances in Intelligent Systems and Computing , Vol No: 1312 AISC , pp: 231 - 237 , 2021, Scopus
 28. Koteswara Rao S. , " Bearings-Only Tracking: Observer Maneuver Recommendation ", IETE Journal of Research , Vol No: 67 , Issue No: 2 , pp: 193 - 204 , 2021, Scopus



Department of
**ELECTRONICS &
COMPUTER
ENGINEERING**



ONLINE International Faculty Development Program On “Research Perspectives on AI, ML, Data Science & IoT” 2021-22

The Department of Electronics and Computer Engineering, KLEF organized a Three week Online Three Weeks Inter National Faculty Development on “Research Perspectives on AI, ML, and Data Science & IoT” 2021-22 on 17th May 2021 in association with Academic Staff College, KLEF. International Faculty Development Program on “Research Perspectives on AI, ML, Data Science & IoT”. The Chief Guest Dr. Lalit Singh, Ph.D[IIT (BHU)], Scientist, NPCIL-BARC Department of Atomic Energy Govt. of India addressed all the participants with his knowledgeable session.

About the IFDP2021-22, The Internet of Things is the concept of everyday objects - from industrial machines to wearable devices - using built-in sensors to gather data and take action on that data across a network. IoT& AI is one of the thrust areas of Academies and industry 4.0. This FDP and STTP on “Research Perspectives on AI, ML, Data Science & IoT” & “Full-stack AI and Deep Learning A Practitioner Approach” are being organized by the Department of Electronics and Computer Science (ECS), KLEF, Vaddeswaram, Guntur. This FDP is aimed at giving hands-on training to the faculty members, PG Students, and research scholars on various aspects of IoT, AI, ML, Data Science, and Deep Learning.

The IFDP 2021-22 comprised a series of technical presentations and a video demonstration of laboratory-based IoT, AI, ML, Data Science, and Deep Learning experiments. The experiments will use the Arduino and other relevant IoT support technologies and A.I., ML, Data Science and Deep Learning simulation software's

using python and AWS cloud and think to speak cloud for deploying IoT applications. The FDP & STTP is being conducted online mode using facilities MS-Teams/CISCO WebEx/ Zoom Application through which resource persons from their respective residence will attend all sessions and the registered participants can interact with them online using their Desktop / Laptop / Tablet/ Smart Phone with internet connectivity from anywhere.

The course content is delivered from a pool of resource persons on the subject from leading industries and prestigious academic institutions. Massive Participation by the faculty members of the Engineering and Technical institutions, research scholars, P.G. Students, Industry, and Research Scientists from private/Government (Bureaucrats/ Technicians/ Participants from Industry, etc.)

Dr N Venkatram Pro-Vice Chancellor, Dr. YVSSV Prasada Rao Registrar-, , Dr K Subba Rao -Principal-KLCOE, Conference Convener, Dr MSG Prasad, HOD-ECM Dr K V D Sagar, Convenor-IFDP2021-22, Dr MSG Prasad Dep. HoD-ECM , , Mrs. Aruna Sri Dpty. HoD, Dr. M. Suman HoD-ECE, Dr. V. Prabhakar Industry Connect, KLEF have inaugurated the IFDP 2021-22 program. Faculty, Research Scholars, and students from different states of the country have attended.

Aim and Scope of the IFDP2021-22:

This FDP & STTP aims to provide a premier interdisciplinary platform for researchers, practitioners, and educators to learn and discuss the most recent innovations, trends, and concerns, as well as practical challenges, encountered and Research Perspectives on AI, ML, Data Science & IoT.

The FDP & STTP's comprises a series of technical presentations and a video demonstration of laboratory-based IoT, AI, ML, Data Science, and Deep Learning experiments. The experiments will use the advanced

embedded platforms and other relevant IoT support technologies and A.I., ML, Data Science and Deep Learning simulation software are using python and AWS cloud and think to speak cloud for deploying IoT applications

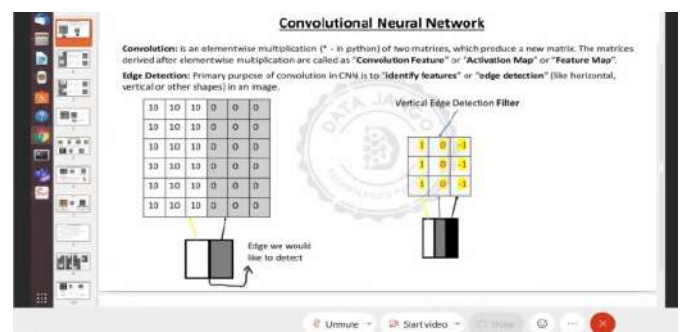
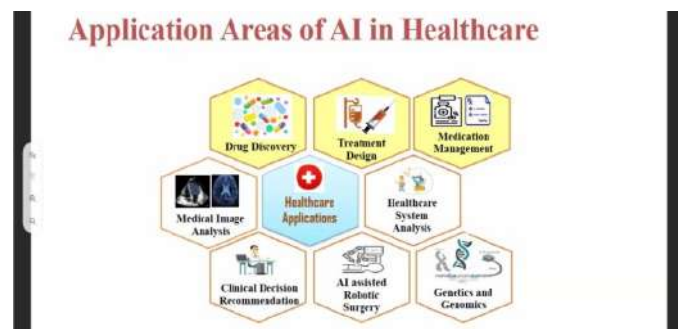
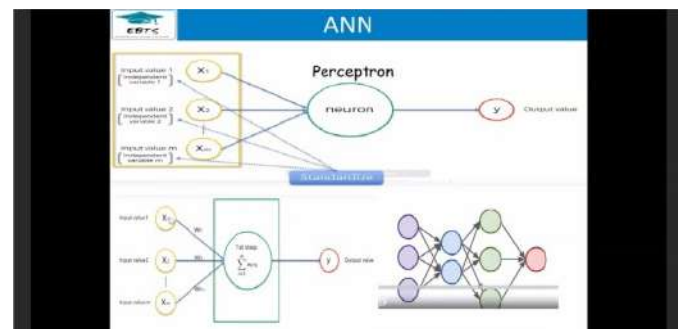
Over 40 objectives were meant and but are not limited to: Predictive Analytics, Convolution Neural Networks, Deep Learning Models for Computer Vision, Recurrent Neural Networks, Generative adversarial networks (GAN), Natural Language Processing, Transforming healthcare using Artificial Intelligence, Data in Artificial Intelligence and many more.



The Resource Persons Dr. Lalit Singh, Dr. Midhun Chakkaravarthy, L Venkata Rama Raju, Mr. T S V Rajeev, Mr. Pattabhi Raman Bobba, Dr. Lalitha Bhaskari, Dr. E. Suresh Babu, Mr. Vamsi Krishna, Dr. E. Suresh Babu, Dr. Nagaraju Baydeti, Mr. Rockey Jagtiani, Dr. J. Arul Valan, all are from reputed Academic and Industry Organizations and Department of ECS Dr. Ramesh Kumar Mojjada, Mrs. K. Krishnaveni, Mr. Ch Bhupati have put their best guest talks in the topics namely,

- Deep thinking for safety analysis of safety-critical systems
- Natural Language Processing using NLTK

- Full life Cycle of an ML/AI/Data Science Project, Linear regression, Logistic Regression Algorithms, and Error Metrics
- Gradient Descent Solver, DNN, Brief introduction to semantic similarity, Word2Vec Word Embeddings
- Basics of Docker and Kubernetes
- SAP as an ERP tool
- what is IoT", the scope of digital technology and IoT on the cloud, IoT Simulation with cisco packet Tracer
- AWS IoT Cloud Practitioner Essentials
- Essentials of deep learning and a few Deep Learning models in computer vision
- AI for reliability analysis of safety-critical systems
- Business Intelligence Tools
- ML pipeline - Solving a simple case from Start to end
- Basics of Microservices, Kafka, fluent, elastic search, kibana, Prometheus,
- towards the I FDP2021-22 program.



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Two Week National Level Short Term Training Program (Online) on “AI and Deep Learning Practitioner Approach” held from 7th to 19th June 2021.

The Department of Electronics and Computer Science, KLEF organized a two week National level Faculty Development on “Full-stack AI and Deep Learning a Practitioner Approach” held from 07th June to 19th June 2021 in association with Academic Staff College, KLEF. The Chief Guest Dr. Lalit Singh, Ph.D. [IIT (BHU)], Scientist, NPCIL-BARC Department of Atomic Energy Govt. of India addressed all the participants with his knowledgeable session.

Faculty Achievements

- Dr.V Daya Sagar Ketaraju completed IBM Data Analyst specialization course from coursera
- Dr.V Daya Sagar Ketaraju completed DEVELOPING CYBER SECURITY MODELS USING STATISTICAL AND DEEP LEARNING AICTE sponsored STTP one week from vishnu institute of technology,bhimavaram
- Dr.V Daya Sagar Ketaraju completed HICA-AI course
- Dr.AliHussain,Dr.A.KiranKumar,Dr.J.R.KKumar,Dr.B.B.V.S.V.Prasad,DrK.Venkataranam, Dr.M.Kameswara Rao are nominated as Editorial Board Members for IJICSE Journal.
- Dr.Ali Hussain received BEST TEACHER AWARD from KLEF
- Dr.K.V.D.Sagar completed the AICTE-Sponsored STTP on Cyber security from NIT Jalandhar
- Dr.K.V.D.Sagar completed the global certification course on HCIA-Cloud Service V2.2
- Dr.K.V.D.Sagar completed the Introduction to IOT in NASSCOM FUTURE SKILLS
- 21 faculty participated and presented papers in the ICRIST-2021 conducted on 19th-20th March 2021
- 17 faculty completed their Global Certification.
- Dr.M.S.G.Prasad received award as “DISTINGUISHED PROFESSOR AWARD” by NOVAL RESEARCH ACADEMY

- Dr.Ali Hussain received award as “AWARD OF EXCELLENCE IN RESEARCH” by NOVAL RESEARCH ACADEMY.
- Dr.K.V.D.Sagar received award as “BEST SENIOR FACULTY AWARD” by NOVAL RESEARCH ACADEMY.
- Dr.P.Gopikrishna received award as “BEST YOUNG FACULTY AWARD” by NOVAL RESEARCH ACADEMY.
- Dr.Ali Hussain contributed as “Publication chair” for ICCTSAI 2021 held on 23rd -25th April 2021,LONDON,UK
- Dr.M.S.G.Prasad, Dr.Md.Ali Hussain, Dr.K.V.D.Sagar, Dr.K.Venkataranam, Dr.B.B.V.S.V.Prasad and Smt.K.Krishna Veni contributed as External Reviewers of International Journal of Innovation in computational science and engineering 3rd Student National Symposium Industrial Revolution 4.0 held on 26th -27th May 2021 ,Muscat
- Dr.B.B.V.S.V.Prasad Attended ATP Program on AI/ML conducted by WIPRO Talent Next on 21st June to 25th June 2021
- Smt.P.S.G.Aruna Sri Attended ATP Program on AI/ML conducted by WIPRO Talent Next on 21st June to 25th June 2021

Student Achievements / External participation

- Shasank Mouli 170050036 got selected in Bourdaina with 16 LPA
- J. Shivam Verma (180050102) Affiliation KL University has participated in 6th International Conference for Convergence in Technology (I2CT) during 2 nd to 4th April 2021.He presented a technical paper titled Detection and Classification of COVID 19 using Convolutional Neural Network from Chest X-ray Images.
- Vinay Kumar Addala (180050113) Affiliation KL University has participated in 6th International Conference for Convergence in Technology (I2CT) during 2 nd to 4th April 2021. He presented a technical paper titled Detection and Classification of COVID 19 using Convolutional Neural Network from Chest X-ray Images.
- Vinay Kumar Addala (180050113) got offer in Mentor Graphics with 16.75 LPA and also got 1 year Internship with Rs 30000 per month.

Webinar on Data Science

A National Level Webinar on "Data Science" organized by Department of Electronics and Computer Science, Koneru Lakshmaiah Education Foundation in Association with GNV IT Solutions, Vijayawada and CEMS, Vizag on 22/06/2021 from 10.30 AM to 12.00 Noon.

Data science is an interdisciplinary field that uses scientific methods, processes, algorithms, and systems to extract knowledge and insights from structured and unstructured data and apply knowledge and actionable insights from data across a broad range of application domains.

Centre of Excellence in Maritime & Shipbuilding (CEMS) is a skill development initiative undertaken by Ministry of Shipping along with Siemens Industry Software India Pvt Ltd & Indian Register of Shipping in line with Prime Minister's initiative of Skill India. The project aims to impart Industry 4.0 relevant training in latest software & hardware tools and technology used in the engineering industry.

GNV IT Solutions is one of the best IT Training and Placement Company.

We provide trainings in emerging IT Technologies and Life Science courses. Our Trainers are experts in various IT domains and having real time working experience from the Leading Multi-National IT companies.

The Head of the Department Dr. M. Siva Ganga Prasad and Deputy HOD Mrs. P. S. G. Aruna Sri congratulate the all the participants in Data Science National s Webinar and also congratulate the entire Department of Electronics and Computer Science Faculty Members and Coordinators for Smooth Conduction of Workshop.

The Head of the Department express thanks to Koneru Lakshmaiah Education Foundation Management, Higher Authorities, GNV IT Solutions and CEMS Vizag for their support.

Publications

- Kalathiripi, R., & Venkatram, N. (2021). Regression coefficients of traffic flow metrics (RCTFM) for DDOS defense in IoT networks. International Journal of Communication Systems, 34(6). <https://doi.org/10.1002/dac.4330>

- Dasari, R., & Venkatram, N. (2021). Discrete quality factors aware channel scheduling in Cognitive Radio Ad-hoc Networks. Journal of Ambient Intelligence and Humanized Computing. <https://doi.org/10.1007/s12652-020-02607-6>
- Kavya, A., Vivek, N., Harika, M., & Nidumolu, V. (2021). Handwritten devanagari character classification using cnn. Lecture Notes in Networks and Systems, 145, 309–317. https://doi.org/10.1007/978-981-15-7345-3_25
- Divu, D. N., Mojjada, S. K., Pokkathappada, A. A., Sukhdhane, K., Menon, M., Mojjada, R. K., Tade, M. S., Bhint, H. M., & Gopalakrishnan, A. (2021). Decision-making framework for identifying best suitable mariculture sites along north east coast of Arabian Sea, India: A preliminary GIS-MCE based modelling approach. Journal of Cleaner Production, 284. <https://doi.org/10.1016/j.jclepro.2020.124760>
- Kumar Patjoshi, R., Panigrahi, R., & Ratnam Kolluru, V. (2021). Variable nonlinear gain fuzzy with improved synchronous reference frame control strategy for performance enhancement of unified power quality conditioner. Ain Shams Engineering Journal, 12(1), 739–753. <https://doi.org/10.1016/j.asej.2020.04.004>
- Kommuri, K., & Kolluru, V. R. (2021). Implementation of modular MPPT algorithm for energy harvesting embedded and IoT applications. International Journal of Electrical and Computer Engineering, 11(5), 3660–3670. <https://doi.org/10.11591/ijece.v11i5.pp3660-3670>
- Kalathiripi, R., & Venkatram, N. (2021). Regression coefficients of traffic flow metrics (RCTFM) for DDOS defense in IoT networks. International Journal of Communication Systems, 34(6). <https://doi.org/10.1002/dac.433>

Guest lecture

- Dr.K.Venktaratnam delivered a guest lecture on "challenges and applications in VLSI design" to the students of Siddhartha Institute of Science and Technology on 14th JUNE 2021
- Dr.K.Venktaratnam delivered a guest lecture on "Applications on Wireless communications " to the students of QIS college of Engineering & Technology on 15th JUNE 2021



Research Publications:

1. Dr.A.Venkateswara Rao, Asst.Professor published a paper entitled "La and Ni Co-doping Effect in LiMn2O4 on Structural and Electrochemical Properties for Lithium-Ion Batteries" Journal of Electronic Materials, June, 2021.
2. Dr. K. Raghavendra Kumar, Assoc. Professor published a paper entitled " Assessment of Variations of air pollutant concentrations during COVID-19 lockdown over South Asia, in URBAN CLIMATE (In Press)
3. Dr. K. Raghavendra Kumar, Assoc. Professor published a paper entitled " Global climatology and changes in vertical structure of aerosol types and distribution during 2006-2019, in ATMOSPHERIC RESEARCH (Accepted)
4. Dr.N.S.M.P.Latha Devi, Assoc. Professor published a paper entitled "Development of morphology tuned SnS hierarchical structures for enhanced photosensitive photodiode fabrication, in Inorganic Chemistry Communications,129,(2021),108623.
5. Anantha lakshmi, Y., Swapna, K., Mahamuda, S., Venkateswarlu, M., Rao, A.S. have published a paper entitled "Photoluminescence properties of Sm³⁺ ions doped Bismuth Boro tellurite glasses" Solid State Sciences, Volume 116, April 2021, 106609.
6. Deopa, N., Sahu, M.K., Kaur, S., Prasad, A., Swapna, K., Kumar, V., Punia, R., Rao, A.S. Enhanced visible green and 1.5 μm radiative emission of Er³⁺ ions in Li₂O-PbO-Al₂O₃-B₂O₃ glasses for photonic applications, Journal of Rare Earths, Volume 39, May 2021, 520-525.
7. Dr.Mahamuda Sk have published a paper entitled " Broadband NIR emission at 1.53 μm in trivalent erbium ions doped SrO-Al₂O₃-B₂O₃-BaCl₂-10TeO₂ glasses for optical fiber and NIR laser applications" P. Sailaja, Sk. Mahamuda*, K. Swapna, M. Venkateswarlu, Mohini Gupta, A.S. Rao in Journal of Non-crystalline solids Volume 567, May 2021, 120937.
8. Dr.Mahamuda Sk has published a paper entitled " Optical properties of Sm³⁺ ions doped 10SrO-(10-x) Al₂O₃-10BaCl₂-60B₂O₃-10TeO₂ glasses for reddish orange laser applications" P. Sailaja, Sk. Mahamuda*, K. Swapna, M. Venkateswarlu, A.S. Rao, Materials Science and Engineering B, Volume 270, April 2021,115119
9. Dr.Mahamuda Sk has published a paper entitled "Sensitization of Er³⁺ NIR emission using Yb³⁺ ions in alkaline-earth chloro borate glasses for fiber laser and optical fiber amplifier applications" Rupesh A Talewar, Sk. Mahamuda*, K. Swapna, M. Venkateswarlu, A.S. Rao, Materials Research Bulletin, Volume 116, April 2021, 106609.
10. Dr.Mahamuda Sk has published a paper entitled "Photoluminescence properties of Sm³⁺ ions doped Bismuth Boro tellurite glasses" Y.Ananta Lakshmi, K. Swapna, Sk. Mahamuda M. Venkateswarlu, A.S. Rao Solid State Sciences, Volume 116, April 2021, 106609.
11. A.Mohandass Gandhi, S. Shanmugan, Asst.Prof published a paper entitled "Performance enhancement of stepped basin solar still based on OSELM with traversal tree for higher energy adaptive control. Desalination" Volume 502, 15 April 2021, 114926. <https://doi.org/10.1016/j.desal.2020.114926>.
12. G Palanikumar, S Shanmugan, Asst.Prof published a paper entitled "Thermal Investigation of a Solar Box-type Cooker with Nanocomposite Phase Change Materials Using Flexible Thermography", Renewable Energy Volume 178, November 2021, Pages 260-282. <https://doi.org/10.1016/j.renene.2021.06.022>.
13. Hitesh Panchala et al. S. Shanmugan, Asst.Prof published a paper entitled "Experimental investigation

on the yield of solar still using manganese oxide nanoparticles coated absorber". Case Studies in Thermal Engineering Volume 25, June 2021, 100905. <https://doi.org/10.1016/j.csite.2021.100905>.

14. P. Thamizharasuai, S. Shanmugan et Asst.Prof published a paper entitled "Revealing an OSELM based on traversal tree for higher energy adaptive control using an efficient solar box cooker". Solar Energy Volume 218, April 2021, Pages 320-336. <https://doi.org/10.1016/j.solener.2021.02.043>.
15. T Kalaiarasi, M Senthilkumar, S Shanmugan, Asst.Prof published a paper entitled "Synthesis and characterization of L-threonine ammonium bromide: grown on single crystal with experimental studies on NLO". Bulletin of Materials Science volume 44, Article number: 175 (2021). <https://doi.org/10.1007/s12034-021-02421-6>
16. Sravanthi.K,G Sunita Sundari, Harikrishna Erothu published a paper entitled "Development of biodegradable based polymer electrolytes for EDLC application" Optik, 241 (2021) 166229,1-12 <https://doi.org/10.1016/j.ijleo>.

Patents/Technology Transfer:

- 1. Dr. S. Shanmugan, Asst Prof. filed a patent, Title: LOW-COST SMART E-VEHICLE CHARGING STATION WITH BATTERY SWAPPING TECHNOLOGY on 23-06-2021

Awards and Recognitions:

- 1. Dr.N.S.M.P.Latha Devi, Assoc. Professor, received an award entitled "Best Woman Faculty award 2020-2021" by Novel Research Academy.
- 2. Dr. K. Raghavendra Kumar, Assoc. Professor, received an award entitled "Award of Excellence in Research for the year 2020-2021" by Novel Research Academy.
- 3. Dr.M.Venkateswarlu, Asst.Professor received an award entitled "Best Senior Faculty Award" from Novel Research Academy for the year 2020-21 on 19- May, 2021.
- 4. Dr. K. Swapna has received Award of Excellence in Research from Novel Research Academy on 1st June 2021.

- 5. Dr.Mahamuda Sk has received Best Teacher Award from KLEF for A.Y:2019-20 on 5th April 2021.
- 6. Dr.Mahamuda Sk has received Best Woman Scientist Award from Novel Research Academy on 31st May 2021.
- 7. Dr. S. Shanmugan, Asst. Professor received an Award of Excellence in Research by Novel Research Academy, Puducherry, India. Ref: NRA/AER/0111578/2020-2021 - 30.04.2021
- 8. Dr. S. Shanmugan, Asst. Professor, received an Award of best Paper presentation Materials of the Future: Smart Applications in Science and Engineering" on 05-04-2021 by Qatar University

Conference/Webinars/FDPs/ Workshops Conducted:

- 1. Dr.K.Raghavendra kumar and Dr.N.S.M.P.Latha Devi, Assoc. Professor, Organized national webinar "Environment and Ecosystem Restoration" on 5th June-2021, Organized by department of physics, KLEF, Guntur.

Dr.V.Vinoj, Professor, IIT, Bhuvaneswar shared views on topic "Particulate air pollution over Indian region: A meteorological/climate perspective" and Dr.Narendra Ohja, Professor, PRL, Ahmedabad shared views on topic "Trace gases pollution and modeling" were acted as a Resource persons. Total 114 students and 37 faculties are registered and participated in the event.

- 2. Dr.K.Raghavendra kumar and Dr.N.S.M.P.Latha Devi, Assoc. Professor, Organized an international Webinar on "Remote Sensing of Atmospheric Aerosols recent perspectives on Air quality and modeling" on 29th May, 2021 Organized by department of physics, KLEF, Guntur.



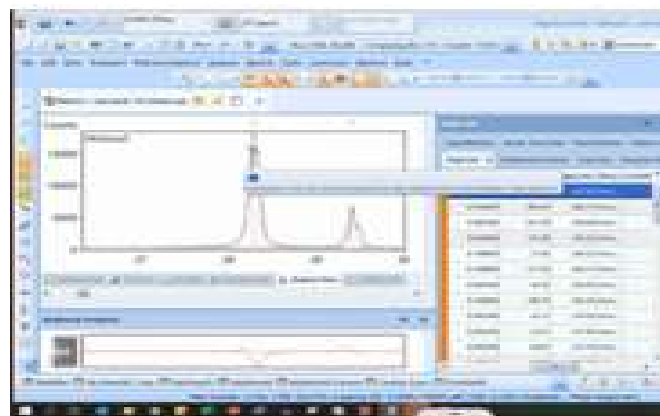
Workshops Conducted by the Department:

Dr.NSMP Latha Devi, Dr.Sk.Mahamuda and Dr.K.Swapna, Assoc. Professors, Organized a two-day workshop entitled "Better XRD research and DATA Analysis Workshop" organized by Department of Physics and Malvern Panalytical instrumentation company in association with Academic staff college and R&D, KLEF during 22nd – 23rd April, 2021.

For the workshop 150 participants registered and 75 participated from more than 10 individual departments of both sciences and engineering from India, making this workshop a truly national in spirit. Dr.G.Sunita Sundari, HOD, Physics addressed the participants and presented department highlights. Prof.A.Srinadh, Principal, Academic staff college addressed the gathering.

With short glimpses, the speakers Mr.Betrand Floure, Sector sales manager, Advanced materials; Madam, Melissa Ho, Regional marketing manager, , Dr.Mangesh Mahajan, XRD application specialist, Dr. Sandeep Nagar, XRD application specialist, Mr. Jitendra kumar, Regional sales manager from Malvern Panalytical, Dr.Pranab Mandal, SRM University, A.P.

Dr.K.Swapna, convener for the workshop spoken few words regarding workshop. Dr.Sk.Mahamuda, convener of workshop expressed sincere thanks to the speakers. Special thanks to Melissa Ho, Samanta and Mr.Jitendra Kumar, Sushanth and Saif for their support to organize this workshop.



Invited Speaker for conference/workshop/FDP

1. Dr. S. Shanmugan Asst Professor/Physics from Koneru Lakshmaiah Education Foundation acted as a Chairperson for International Virtual Conference on Research Innovation in Science, Engineering and Technology (IVCRISET 2021) organized by Kings Engineering College.
2. Dr. S. Shanmugam, Koneru Lakshmaiah Educational Foundation, Invited as speaker in Webinar on Recent Trends in Nanotechnology and its career Opportunities

organized by Department of Science and Humanities, by Karpaga Vinayaga College of Engineering and Technology on 13.06.2021.

3. Dr. S. Shanmugan, Asst Professor of Koneru Lakshmaiah Education Foundation, Vijayawada, Andhra Pradesh, India for their contribution as Resource Person titled Experimental investigation on the performance of a solar still using nanolayers in the International Conference on "Advancements in Nanoelectronics and Communication Technologies (ICANCT-2021)" held on February 4-6, 2021 organized by Department of Electronics & Communication Engineering at Swami Keshvan and Institute of Technology, Management & Gramothan, Jaipur (India).
4. Dr. S. Shanmugan (INDIA), Center for Advanced Materials, Qatar University, Qatar Invited Speaker Certificate presented to in recognition of outstanding contribution as invited speaker of the presentation entitled "Solar Desalination" at first "Materials of the Future: Smart Applications in Science and Engineering" e-conference held between 29-31 March 2021 at Qatar University.

Sponsored Projects Ongoing/Submitted:

PROJECT TITLE	FUNDING AGENCY	COST	PERIOD	STATUS
"Development of Ion Conducting Polymer Electrolyte using Thin film Nano Crystalline Composites for the Application towards Batteries" Dr G Sunita Sundari & Dr E HariKrishna	UGC-DAE	15 Lakhs	2 years (2021-2022)	Ongoing
PROJECT TITLE	FUNDING AGENCY	COST	PERIOD	STATUS
DST-FIST Level-I File No: SR/ FST/2018/00035 Dr. NSMP Latha Devi (Project Coordinator) Dr. G.Sunita Sundari Dr. Mahamuada Shaik Dr. K. Swapna Dr. A.Venkateswara Rao	DST, Govt. of India, New Delhi	107 Lakhs	5 years (2019-2024)	Ongoing (Project Implementation Group Members)

PROJECT TITLE	FUNDING AGENCY	COST	PERIOD	STATUS
Measurement and characterization of ambient aerosols and its vertical distribution over Andhra Pradesh Dr. K. Raghavendra Kumar, PI	DST-SERB Govt. of India, New Delhi	27.42 Lakhs	2 years (2021-2022)	Recently sanctioned (Oct 2020)

Implementation of the DST FIST and Other Projects

Department of Physics is very thankful to the Management and R&D Division for their continuous support.

Dr.N.S.M.P.Latha Devi, Assoc. Professor & Project Coordinator, DST-FIST (Level – 1) under DST-FIST (Level 1) project established Emerging Materials Research Lab. Both XRD and FTIR are in good working condition, till now 200 samples are analyzed by using XRD and FTIR by the team of members Dr.N.S.M.P.Latha Devi, Dr.K.Swapna and Dr. Sk.Mahamuda.

Dr. K. Raghavendra Kumar, PI, SERB-SRG Project (SRG/2020/001445; INR 27.42 L) received equipment MICROTOS II Sunphotometer (Model 542, Solar Light

Company, USA) from USA worth of INR 14 lakhs in the month June 2021. The instrument is ready to install and start measuring the absorption, scattering and extinction properties of solar radiation at KLU site continuously from sunrise to sunset on all the clear sky days.

The Particulate Matter (PM) sampler with the meteorological sensor (WiFi-based) is available in the Dept of Physics, KLEF, Vaddeswaram campus and started monitoring the concentration levels of PM_{2.5}, PM₁₀ and PM₁ and other major meteorological parameters (Temperature, Relative humidity) at a high resolution of 5 min round the clock on all the days.



**Department of
COMMERCE**



Research Activities

- "GST: Challenges in Implementation of GST Rather than VAT; Impact and Advantages towards GDP Growth" – Dr.V.Venu Madhav, HOD, Department of Commerce, Koneru Lakshmaiah Education Foundation, Vaddeswaram, A.P, India. Turkish Journal of Computer and Mathematics Education, Volume 12 No. (2021), ISSN 1638-1643, 16th April 2021.
- Role of Credit Rating Agencies in Analyzing Banks Credit Risk Management: Advantages and Disadvantages – Dr.V.Venu Madhav, HOD, Department of Commerce, Koneru Lakshmaiah Education Foundation, Vaddeswaram, A.P, India. High Technology Letters Volume 27 Issue 4, ISSN 1006-6748.

Edited Chapter In Book

- The Role of Media in Crime Prevention: A Study on Social Transformation Need Dr.A.V.N.Murthy Department of Commerce, Koneru Lakshmaiah Education Foundation, Vaddeswaram, A.P, India.

Award

- Dr.S.Santhakumari was awarded for successfully completing the course Google Analytics for Beginners.

Live Webinar:

Interview Skills

Date: 18 June 2021
Time: 4:00 pm - 5:00 pm IST



Abhishek Yadav - Speaker
Site Head HR &
Business Partner at DuPont

The Department of Commerce conducted webinar on the development of Interview Skills on 18th June 2021 by the students of M.Sc F&C - II and B.com – (H) 3rd year to get success in placement.

Think Ahead



International Conference on Innovations and Challenges in Mechanical Engineering ICICME – 2021

Department of Mechanical Engineering, K L University has successfully organized two day "International conference on Innovations and Challenges in Mechanical Engineering" during 28th and 29th June 2021 in virtual mode. The conference was aimed at sharing experience and expertise of eminent academicians and industrial experts across the globe. The conference covers broadly all the thrust areas of Mechanical engineering viz, Robotics & automation, Additive manufacturing and CFD.

In the conference, seven keynote lectures were delivered by eminent speakers from Indonesia, Ethiopia, South Korea and India. The most recent and future technologies such as Smart Manufacturing, Industry 4.0, 5.0, Multiphase modelling Using CFD, Turbulence, 3D & 4D printing, Artificial Intelligence and Machine Learning were discussed in the conference. Along with keynote lectures, over 40 participants across the country have presented their research work in the conference.

Proceedings of the conference Inaugural Function

In inaugural ceremony of the conference commenced with the short introduction about the conference by Dr. DVA Rama Sastry (HOD-ME and Convenor-ICICME2021). The opening remarks given by our conference chair, ICICME2021. The program was followed by formally welcomed all the dignitaries present during the virtual mode, and participant from various part of the country and world, colleagues and students. He mentioned about the significance of ICICME2021 and its aim about bringing together a core group of researchers from all over the world with a significant over India and world with a significant participation from the globe. After that, Hon'ble Pro

Vice Chancellor, KLEF, Principal, College of Engineering, KLEF given their opening talk about this international conference. Dr. DVA Rama Sastry given welcome our chief guest Dr. Turnad Lenggo Ginta, Executive Director, Orca Institute for Sustainable Development, Indonesia. Our chief Guest Dr. Turnad Lenggo Ginta motivated everyone to actively participate in the conference to get benefited in his opening talk.

Keynote Lecture 1

Dr. Turnad Lenggo Ginta, Executive Director, Orca Institute for Sustainable Development, Indonesia was the chief guest and opening keynote speaker in the conference. His keynote was on "Sustainable Manufacturing - A What to Know". His keynote covers the below theme.

The challenge has always been to make more products in less time, with fewer workers and a smaller budget. Today, that's still the same – but with the added difficulty of reducing your impact on the environment. That's where sustainable manufacturing comes in. In simple terms, sustainable manufacturing – also known as eco-friendly or "green" manufacturing – tries to meet production demands while minimizing your factory's impact on the environment. It covers a wide range of issues such as energy and material usage, water consumption, air emissions, waste and recycling, to name a few.

What is sustainability?



Why is manufacturing becoming more environmentally conscious?

Ask yourself the following questions:

- 1. Is your company trying to cope with increasing environmental regulation?
- 2. Are your customers demanding better environmental performance and data?
- 3. Do you want to lower your energy and materials costs?
- 4. Are you interested in producing and marketing greener products?



INTERNATIONAL CONFERENCE ON INNOVATIONS AND CHALLENGES IN MECHANICAL ENGINEERING - IICIME - 2021

The most obvious benefit of sustainable manufacturing is that it's good for the environment. But you'll likely notice many other benefits as well, such as: Reduce costs by improving efficiency and reducing waste, Increase productivity, Comply with regulations, Attract and retain employees, Meet stakeholder expectations, Improve your brand image and gain a competitive advantage. The speaker also talked about 5 sustainable manufacturing tips: Reduce your energy use, Join a waste exchange, Ditch the plastic, Relocate your recycling bins, Go digital.

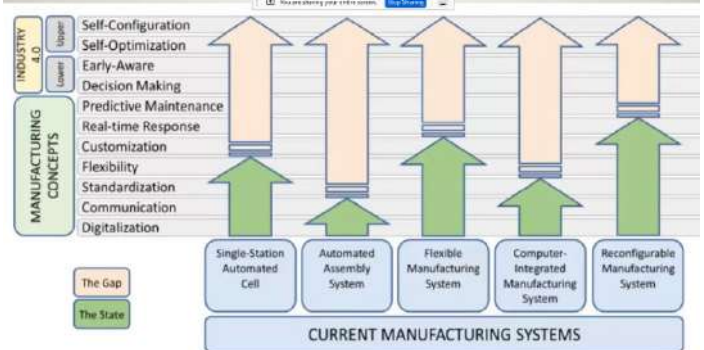
Keynote Lecture 2

Dr. Ramesh Rudrapati, Dean for Research and Development Centre, Bule Hora University, Ethiopia was the second keynote speaker in the conference. His keynote was on "Industry 4.0". His keynote covers the below theme.

Industry 4.0 is the digital transformation of manufacturing/production and related industries and value creation processes. Industry 4.0 is used interchangeably with the fourth industrial revolution and represents a new stage in the organization and control of the industrial value chain. Cyber-physical systems form the basis of Industry 4.0 (e.g., 'smart machines'). They use modern control systems, have embedded software systems and dispose of an Internet address to connect and be addressed via IoT (the Internet of Things). Industrie 4.0 refers to the intelligent networking of machines and processes for industry with the help of information and communication technology (Plattform Industrie 4.0)

Industry 4.0 is often used interchangeably with the notion of the fourth industrial revolution. It is characterized by, among others, 1) even more automation than in the third industrial revolution, 2) the bridging of the physical and digital world through cyber-physical systems, enabled by Industrial IoT, 3) a shift from a central industrial control system to one where smart products define the production steps, 4) closed-loop data models and control systems and 4) personalization/customization of products.

RESEARCH GAP BETWEEN CURRENT MANUFACTURING & I4.0

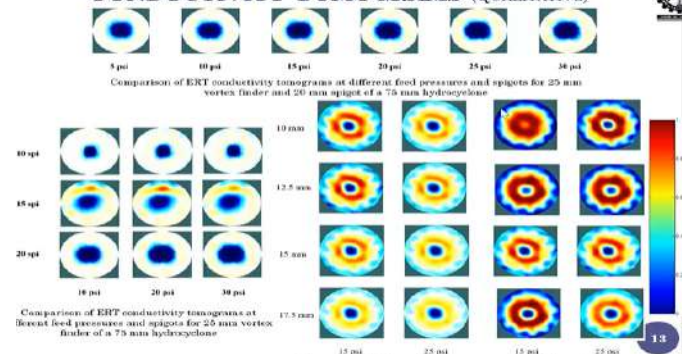


Keynote Lecture 3

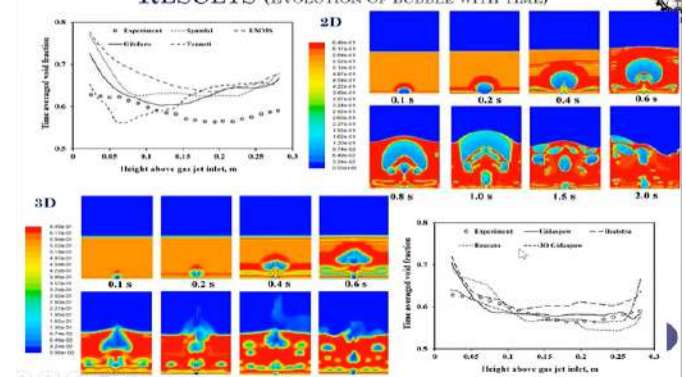
Keynote lecture 3 was delivered by Dr. Teja Reddy Vakamalla, Assistant Professor, Department of Chemical engineering, NIT Calicut. The topic of his lecture is "Application of Multiphase CFD Models for Processing Industries". Various approaches for modelling slurry flows were discussed along with applications in processing and oil industries.

The application of multiphase model for the analysis and design optimization of hydro cyclone was explained elaborately. By performing the numerical simulations, the identified drawbacks of the existing design of hydro cyclone were analyzed and new designs were proposed. Fluidized bed was taken as another application and the simulations of fluidized bed using 2D and 3D approaches of multiphase models were shown.

CONDUCTIVITY TOMOGRAMS (QUALITATIVE)



RESULTS (EVOLUTION OF BUBBLE WITH TIME)




Keynote Lecture 4

Keynote lecture 4 was delivered by Dr. Perumalla Janaki Ramulu, Director, COE for Advanced Manufacturing Engineering, ASTU, Adama, Ethiopia. The topic of his keynote lecture is "Manufacturing Engineering Evolution/Revolution from Conceptual to Ratiocination".

Initially a brief history about industrial revolution and its impact on various technologies, economy was discussed. First industrial revolution was only about knowledge sharing, in 17th and 18th centuries scientific and intellectual revolution took place. During the period of Industry 3.0 automation has started and Industry 4.0 brought about smart manufacturing which includes automation, IoT and machine learning.

Progress of Mathematics from the second industrial revolution was discussed which led to finite element methods, probability theory which vastly simplified the analysis of various mechanical systems and optimization of various processes was made efficient and faster. The speaker stressed on gaining knowledge on various mathematical analyses. Further, future technologies in manufacturing field such as autonomous robots, use of IoT, Additive manufacturing were discussed. Lastly the speaker gave his insights on challenges, and future directions for Mechanical Engineering.



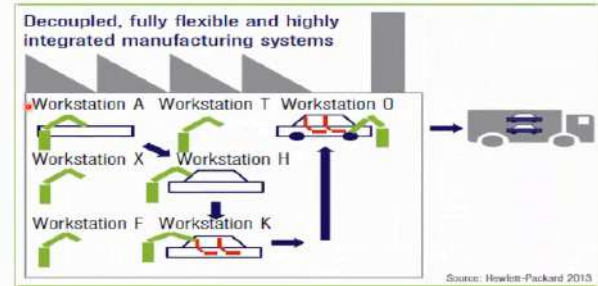
International Conference on Innovations and Challenges in Mechanical Engineering (ICICME-2021)
(28th June to 29th June 2021)

Manufacturing Engineering Evolution/Revolution from Conceptual to Ratiocination

By
Perumalla Janaki Ramulu
M. Tech., PhD (IITG)
MIE, MASME, IDDRG, SMFRA, IACSIT (MEG), IAENG, SCIEL, UAMAE, WASET, SAI Mech, ESME, ALAM, CEMA
Director, Center of Excellence for Advanced Manufacturing Engineering
Adama Science and Technology University
Adama, Ethiopia



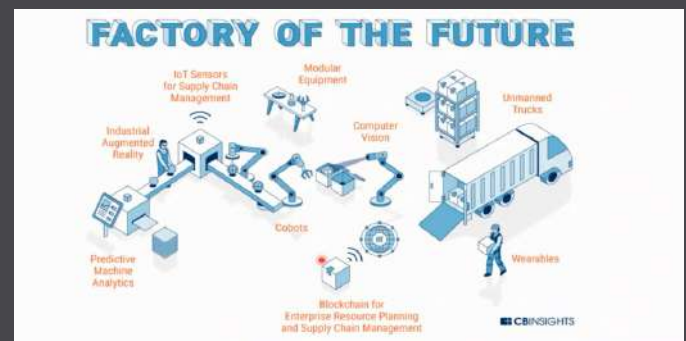
Tomorrow's Factory



Top 10 Skills to be relevant in Industry 4.0

in 2020	in 2015
1. Complex Problem Solving	1. Complex Problem Solving
2. Critical Thinking	2. Coordinating with Others
3. Creativity	3. People Management
4. People Management	4. Critical Thinking
5. Coordinating with Others	5. Negotiation
6. Emotional Intelligence	6. Quality Control
7. Judgment and Decision Making	7. Service Orientation
8. Service Orientation	8. Judgment and Decision Making
9. Negotiation	9. Active Listening
10. Cognitive Flexibility	10. Creativity

Source: Future of Jobs Report, World Economic Forum



Keynote Lecture 5

Keynote-5 Speaker: Mr. Rajendra Velagapudi, Head of Operations, Design-Led Manufacturing, Cyient

Sir gave keynote on the topic "Smart Manufacturing". First he gave Overview about Cyient. Cyient is an organization which is an engineering services oriented and also manufacturing in digital. He explained opportunities for manufacturing engineers at Cyient right now. They have three locations in India at Mysore, Bangalore and Hyderabad. Hyderabad is head quarters for Cyient and also for Cyient-Digital Lead Manufacturing. There are close to around 1000 manufacturing employees in the industry, 400K Sq Ft of Infrastructure with 95 Million dollar Revenue for FY21. This year Cyient is aiming to touch 123 Million dollar revenue for FY22. Then he explained Overview and benefits of Smart Manufacturing. He explained the Skills around the technologies that are expected to enable the smart manufacturing industry and Skilling,

Re-Skilling and Up-Skilling on Smart Manufacturing. He also addressed the five key skills required for post-covid employment, that include Data Literacy, Digital and coding skills, Critical thinking, Creativity and Innovation and Technology Knowhow.



Keynote Lecture 6

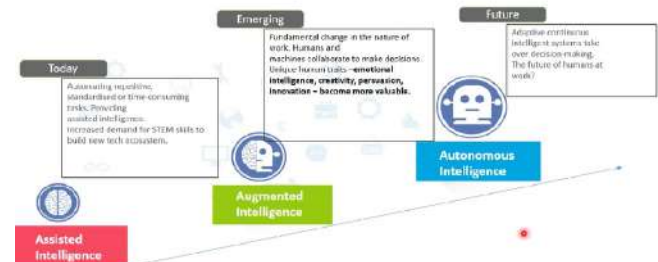
Keynote-6 Speaker: Dr. Srinivasa Rao Perla, Senior Manager-Technical Training at Cyient

Sir gave keynote on the topic "Factory of Future". He explained the importance of Smart Manufacturing. Then he explained about elements of Industry 3A. 3A stands for Automation, Analytics and Artificial Intelligence. Next he addressed about Industry 5.0 and 5.0 is nothing but Man and machine has to collaborate. He explained about 30 Technologies of the next decade including Artificial intelligence, Internet of Things, Mobile/Social Internet, Blockchain, Big Data, Automation, Robots, Mobile Technologies, Cloud Computing, 3D Printing, Energy Tech etc., He explained about Cyber Physical Systems, the mind of a machine, Traditional Vs Connected Factory, Transition into a Connected Factory and Smart Factories. Atlast he explained Map of the World's manufacturing output, where India is standing at \$412B particularly in manufacturing.



Dr Srin Perla, Cyient, Hyderabad

A Facet of Digital Revolution



Keynote Lecture 7

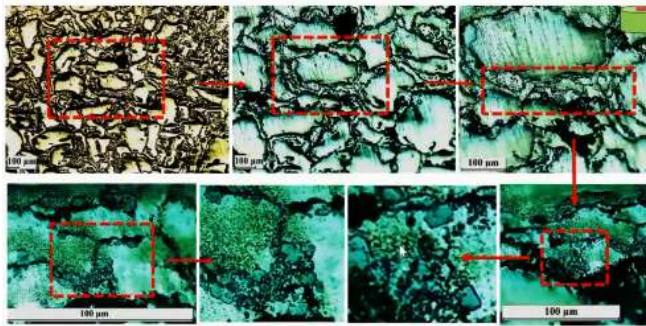
Keynote-7 Speaker: Dr. Lailesh Kumar, Sr. Research Scientist, Pinetree PosMagnesium, South Korea.

The topic of the Keynote is "Influence of Novel Processing Route on Mechanical Properties and Strengthening Mechanism of Newly developed Mg alloy for Industrial applications". In his lecture, initially he discussed about Semi-Powder metallurgy route for the reinforcement of Mg Alloy. He explained the influence of Two - step aging on various Mg alloys. He also explained about the deformation behavior of Mg alloy and the influence of Neodymium on the Plastic deformation.

Later he talked about LPSO alloys for high strength as well as non-flammability which is achieved by Twin-Roll casting. Finally he discussed the work progress in Posco Mg Plant, Korea.



Optical Micrographs of ZAM 631 Alloy



Optical micrographs of ZAM631 alloy after two-step aging

- ❑ Cuboidal precipitates have been found at grain boundaries in the case of ZAM 631. Whereas less precipitate has been found in the case of ZK60 alloy after two-step ag



Valedictory function

Dr. DVA Rama Sastry (Convenor-ICICME2021) described the importance of innovation and challenges in Mechanical Engineering in related fields and how they are interconnected from a long time. He motivated everyone who has actively participated in the conference. After that, he thanks all our functionary of the university for provided helping to conduct this International Conference. And also, thanks all keynote speakers, organizers team ICICME2021. At the end, Dr. SS Rao (Organizing Secretary of the ICICME2021) offered a vote of thanked all the invited guests and participants for gracing the occasion by their solemn presence. He also Pro Vice Chancellor, KLEF, Prof. K Subba Rao Principal college of Engineering, KLEF and all functionary of the university to providing all kind of facilities to conduct such conference.

Research Patents obtained and Applied.

S.NO	NAME OF THE INVENTORS/ APPLICANT NAME	TITLE OF THE PATENT/DESIGN	PATENT NUMBER	PUBLISHED
1	1. K. V. Narasimha Rao 2. A. Eswara Kumar	Casing for a mobile charger	315389-001	25 June 2021
2	1. G.Yedukondalu 2. Bhimsen Shrestha 3. Sakar Paudel 4. Aashish Bhandari 5. Prasanth Singh	Apple Picking Robot	326492-001	25 June 2021
3	1. Dr Seeram Srinivasa Rao 2. Pepeti Ravi 3. Garimella Venkata Sai Sasankh 4. Puli Mohana Venkata Naga Anjani Kumar 5. Mahesh Somavarapu	Throttle Control Locking System	328910-001	25 June 2021
4	1. Dr Seeram Srinivasa Rao 2. Avu Shivani Reddy 3. Sidda Satya Sri 4. A. Chaitanya 5. V.S.V.S Badrinath 6. M. Siva Krishna	Stool Cum Lader	328810-001	25 June 2021

5	1. Dr Seeram Srinivasa Rao 2. Korla Krishna Vamsi 3. Balusu Sri Harish 4. Valluri Nikhilesh 5. Kosana Anjani Lohith	Multipurpose Agriculture Vehicle	328809-001	25 June 2021
6	1. Anna Eswara Kumar 2. B.Kiran Kumar 3. K.Siva Kishore Babu 4. P.Phani Prasanthi	Pomegranate Juice Maker	329661-001	3-May-2021
7	1. K.Shashikanth 2. P.Ratna Prasad 3. Atul Bhattad 4. G.Yaswanth Kumar 5. Matha Vamsi 6. Shaik Yasin Basha 7. P.Manohar	Tiller Cultivator with disc plough	329541-001	25 June 2021
8	1. Dr.S.S.rao 2. K.Lokesh Sai reddy 3. Peddinti Nithya Sri 4. Kotha Sujana Surya 5. Venu Gopal Ramiseti	Multipurpose Machine tool	328746-001	25 June 2021
9	1. Dr.K.V Ramana 2. A.Hareesh	Hybrid Power Generator	331520-001	25 June 2021
10	1. K V Narasimha Rao	Tray	333546-001	25 June 2021
11	1. D.Bhaskar 2. T.Vijai Kumar 3. Md.Abid Ali 4. Jakkam Leela Kishan	Bearing Stopper for Solar Tracker	333854-001	30 April 2021
12	1. B.Kiran Kumar 2. T.Srinivasan 3. Anna Eswara Kumar	A Portable Device to clean beach	337365-001	05 March 2021
13	1. S.Madhav 2. B V V Sai Ganesh 3. K.Rahul 4. Dileep Kotte 5. Anna Eswara Kumar	Storage Device with Movable Bottom Lid	341830-001	25-Jun-21

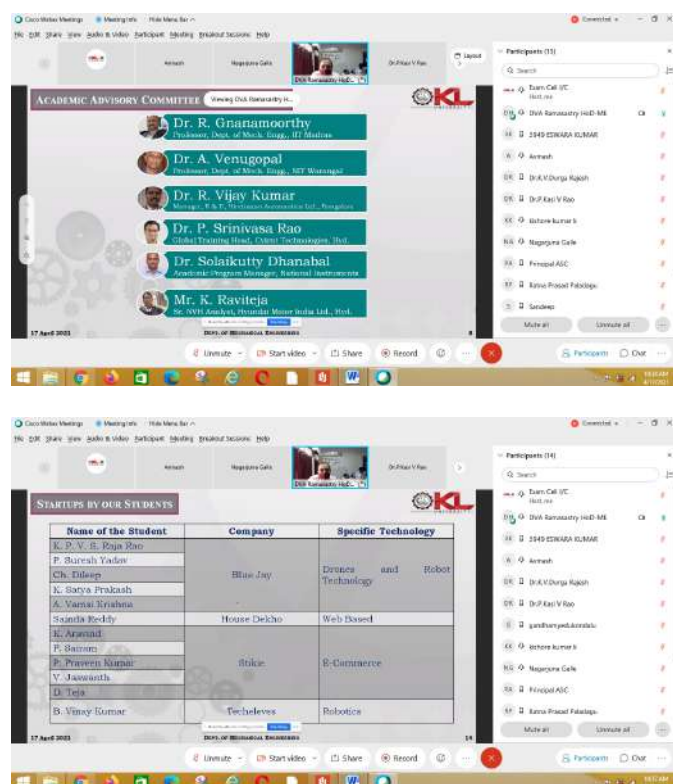
Faculty Awards

S.NO	NAME OF THE FACULTY	NAME OF THE AWARDS/RECOGNITIONS/ FELLOWSHIPS	AWARDED BY
1	Dr. K.Rama Krishna	Dr. Sarvepalli Radhakrishnan Teachers Excellence Award	Shikshak Kalyan Foundation and BSNL
2	Dr.A. Srinath	Best HOD of the year for 2019-20	Imperial Society of Innovative Engineers (ISIE) India
3	Dr. S. S. Rao	First Indian to made 9 Intellectual Property Rights in Just 21 Days	INDIAN BOOK OF RECORDS
4	Dr. S. S. Rao	Person possessing a highly developed intellect	INDIAN BOOK OF RECORDS
5	Mr. A. Eswar Kumar	First Indian To Register 10 Intellectual Property Rights In Just 24 Hours	INDIAN BOOK OF RECORDS
6	Mr. A. Eswar Kumar	Maximum Filing of Intellectual Property Rights in a short time	International Book of Records
7	Mr. A. Eswar Kumar	First Indian to register 30 Intellectual Property Rights in just 396 days	INDIAN BOOK OF RECORDS
8	Mr. K. Someswara Rao	Best Teacher Award	InSc
9	Mr. A. Eswar Kumar	Person Possessing Highly Developed Intellect	INDIAN BOOK OF RECORDS
10	Dr. K. V. Durga Rajesh	Best Teacher Award for A.Y. 2019-20	KLEF
11	Dr.G.Yedukondalu	Best senior scientist award	Novel Research Academy
12	Dr.G.Murali	Award of excellence in research	Novel Research Academy
13	Dr.K.V.Narshimaha rao	Best senior scientist award	Novel Research Academy
14	Dr. S. S. Rao	Best senior faculty award	Novel Research Academy
15	A.Eswara Kumar	Best Young Scientist Award	Novel Research Academy
16	A.Eswara Kumar	Largest Number of People Singing National Anthem simultaneously from different locations	Indian BOOK OF RECORDS
17	B Kiran Kumar	Best Senior Scientist Award	Novel Research Academy
18	Dr. K. V. Durga Rajesh	Best Young Scientist Award	Novel Research Academy
19	Dr. P. Kasi Visweswara Rao	Best Young Scientist Award	Novel Research Academy

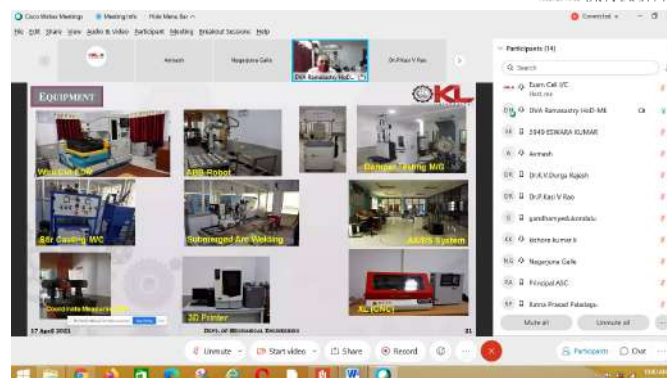
Alumni Knowledge Sharing Session

The faculty In-Charge welcomed all the participants, viz., alumni, alumni faculty, HoD to the meeting with an obvious reason for formation of alumni association in educational institutions that to support a network of former graduates who will, in turn, help to raise the profile of the university. Further, he mentioned the reason for this gathering that to provide and disseminate information regarding our department strengths and achievements to the Alumni and to let them know the alumni activities which we conduct at our institute. After that, he requested to Dr DVA Ramasastry, Head of the Department (Mechanical Engineering) to present some of the departmental strengths and achievements.

HoD has given a brief report on the department such as different programs offering, students, faculty strengths and achievements, extension/community activities, about top alumni, etc. Further, HoD asked the alumni to introduce themselves to the faculty and senior faculties are requested to talk to the alumni. There was a very good interaction happened between alumni and faculty. Alumni were extremely happy talking to their loved teachers. Later our Ex-HoD, Principal-AFC and Dean-Skilling, Dr A Srinath asked them to come forward and support the department to help the students in presenting guest lectures (technical/motivational), alumni meets, mentor-mentee programs, etc, which in turn helps to grow our institute.



Name of the Student	Company	Specific Technology
K. P. V. R. Raja Rao		
P. Suresh Yadav		
Ch. Chalapathi	Blue Jay	Drones and Robot Technology
K. Surya Prakash		
A. Venkat Krishna		
Sanjith Reddy	House Decks	Web Based
K. Aramudha		
P. Srinivas		
P. Praveen Kumar	Strike	E-Commerce
V. Jaisenth		
D. Teja		
B. Vinay Kumar	Techelives	Robotics



Alumnus Guest Lecture

Mr. Ch. Umashanker (Alumnus) is delivered a guest lecture on 26 June, 2021 @3PM in virtual mode through the web link given below.

Topic: Automation in Mechanical Engineering

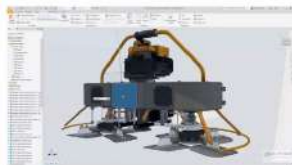
Webex Link: <https://meetingsapac20.webex.com/meetingsapac20/j.php?MTID=mc39e64c67d99cface3d724ae148c6a8b>

Targeted Audience: All B.Tech, M.Tech Students and Interested Faculty (22 participants were attended the meeting)

The topic delivered by him is "Automation in Mechanical Engineering". He started with basic outline of his experience at oil and petroleum sectors and energy sectors. These industries include lot of refineries, piping, pumps, heat exchangers, etc. Depending on the output desired, they do backward calculation in order to find the size, dimensions of each component and flow parameters. Firstly, they do process flow diagram followed by process and instrumentation diagram, which clearly includes all the components, their sizes, process parameter values, etc. used in the plant. When he joined at Reliance Industries in 2006, they used to make hand drawings using drafters followed by making blue prints for multiple copies. Small automation has been made later in 2011, where VBA program is entered into AutoCAD using which size of the components can be easily modified. Further, 3D modelling came into existence with which the entire plant design can be made in weeks compared to months to years with earlier method of doing. He added many more things which are adopting at his company. Further, he gave the career options to the students available in the future. After that, he clarified some of the students queries. The students and other participants are delighted with his presentation and thanked him for his wonderful lecture.

Mechanical engineering in 2017

- 3D modeling
- Faster updates and changes
- Easy to understand
- Clash check
- Time
- Money



Dr. N. Rishi Kanth (Alumni) is delivered a guest lecture on 26 April, 2021 @11AM in virtual mode through the web link details given below.

Topic: Automation in Manufacturing

Zoom Meeting Details:

<https://us04web.zoom.us/j/76323349381?pwd=QVpiNW02VWJJNXJVeUFDUUs2Zkc4QT09>

Meeting ID: 763 2334 9381

Passcode: 9feWUP

Targeted Audience: M.Tech Students and Interested Faculty (19 participants were attended the meeting)

The topic delivered by him is "Automation in Manufacturing". With the continuing need to drive greater throughput and reduce costs, manufacturers are looking to automation and Industry 4.0 solutions to increase their efficiency. Within his presentation he explored the use of automation in manufacturing, including the different types of automation, examples of automated manufacturing, and the primary benefits of automation. Automation, in the context of manufacturing, is the use of equipment to automate systems or production processes. The end goal is to drive greater efficiency by either increasing production capacity or reducing costs, often both.

Automation

- Automation fundamentally means the technology by which a process or procedure is performed without human assistance.
- Automation brings safer working conditions for workers
- Automated production results in lower price and better products

Topic: Interaction with Alumnus, Ms. A.V. Kiranmayi

Webex Link: <https://meetingsapac20.webex.com/meet/pr914512104> | 914512104

Targeted Audience: All ME & PE Faculties

The faculty coordinator of Department Alumni Relations welcomed all the participants along with distinguished alumni, Ms AV Kiranmayi to the online interaction for the benefit of department, which in turn for the students. He introduced our department proud alumnus to all the participants and thanked for accepting and came forward to collaborate with our department. He welcomed her to share her experience during her student life in the campus and work experience.

Ms AV Kiranmayi started with her introduction. She completed her bachelor's degree in 2001 from the Dept of ME, KLCE followed by her Masters's from PSG college of Technology. Later, she worked as CAT translator in India for few years before she left for PhD. She pursued her PhD from University of Bristol at Bristol during 2011 – 2015. Her PhD work mainly about nuclear power plants and structural integrity of engineering components, in which she worked on numerical simulation to estimate the life of components. Followed by her Post Doc at same university, where she did her PhD for three years. She worked in various Nuclear Power Plants located in UK for her Post-Doc. In 2018, she joined as Senior Research Engineer in R&D division at SIMUFACT HEXAGON MFG INTELLIGENCE related to manufacturing both hardware and software caters to all manufacturing units. Currently, she is the Senior Research Manager at the same industry used to develop prototype models for advanced manufacturing processes and advanced material models that reflect trends or latest advancements in Industry 5.0.

After the alumnus introduction, our head of the department is expressed what is expected from alumni for the benefit of students in turn for the department. He told that 3 to 4 events are planned to be conducted every month by the alumni in the form of guest lectures, alumni meets, alumni interactions, etc. Further he asked her to contribute in presenting guest lectures and actively involve in all other department events which we communicate to her. Also, she was asked to give a testimonial in the form of a text/video about her experience during her bachelor's in the campus and opportunities available at outside for Fresh Mechanical Engineers, moreover for Mechanical Girls students.



Faculty Development Program on Computational Fluid Dynamics

Department of Mechanical Engineering, K L University conducted a 6 – day FDP on Computational Fluid Dynamics (CFD) from 10th to 15th June 2021 in virtual mode. The FDP was coordinated by Energy & CFD research group of the department. Dr. D. Jaya Krishna, Associate Professor, NIT Warangal is the external resource person for the FDP. Dr. Atul Bhattad, Associate Professor and Mr. J. Naveen, Assistant Professor are the internal resource persons.

CFD is an efficient tool for analyzing various fluid flow and heat transfer problems. The simulations performed using CFD will be very helpful in designing and optimization of various heat transfer equipment. Being a universally accepted tool across various industries, it is very much essential to have an in-depth knowledge about various procedures and the analysis tools. This FDP was aimed at imparting basics of CFD, simulation and analysis of few standard problems and few advanced problems as well. The contents were specifically designed to get hands-on experience on Ansys-Fluent.

Day - 1

On the first day, the basic CFD approach to model and solve various physical problems was explained. The governing equations in dimensional and non dimensional form were explained in detail. Few applications of CFD in various industrial problems were also shown.

Later, lumped heat capacity analysis was discussed. A

sample case was taken and simulated the lumped heat capacity model using Ansys - Fluent. The CFD results were compared with the analytical results and the results were verified with the physical phenomenon i.e., non existence of thermal gradient across the body.

Using CFD to solve a problem:

Preparing the data (preprocessing):

Setting up the problem, determining flow parameters and material data and generating a grid.

Solving the problem

Analyzing the results (postprocessing):

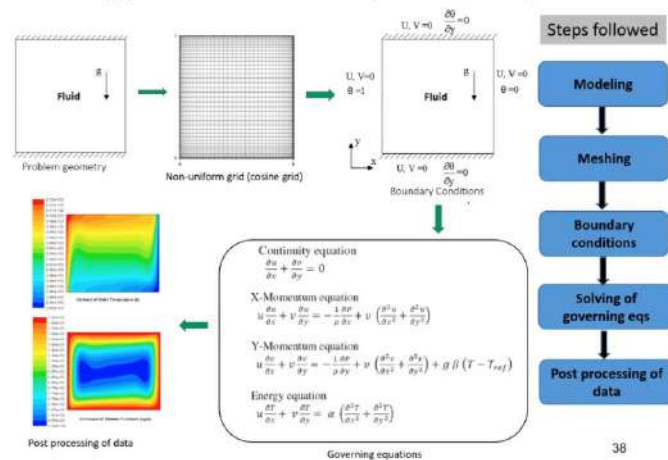
Visualizing the data and estimating accuracy. Computing forces and other quantities of interest.

Day - 2

On second day of FDP, a standard problem of CFD: flow in a Lid driven cavity was discussed. Initially the governing equations were converted into non dimensional form by using different non dimensional parameters. For validation purpose a journal article was taken and based on the different flow parameters considered in the article, length of the cavity was calculated.

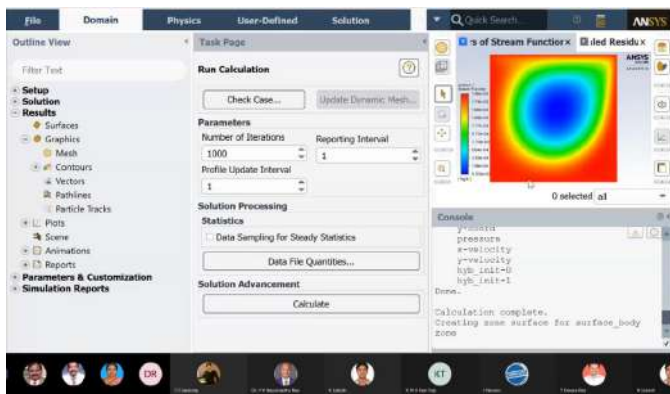
The cavity was modelled in Ansys Design Modeler and meshing was also done in Ansys Meshing tool. Various options in the meshing menu were discussed and the procedure to arrive at the high-quality mesh was also discussed. Various options in Fluent were explained and imposing of boundary conditions and initial conditions were discussed in detail. After simulation, the resulted are validated with the published results.

General approach for the understanding of thermal transport



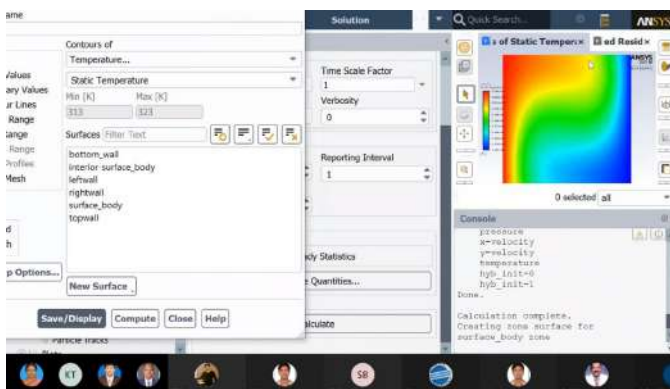
Day - 3

On third day, the problem of differentially heated cavity was discussed. Transient simulation was carried out and similar to the lid driven cavity, the results are verified with the published results. The importance of Boussinesq approximation in modelling the density driven flows. The governing equations were written in non-dimensional form and air is taken as the working fluid. The properties were taken from data book and the cavity dimensions were calculated for the selected non dimensional numbers. After simulating, Nusselt number calculation was explained and the obtained result is verified with the published result.



Day - 4

Porous media formulation was discussed on fourth day of the FDP. The applications of porous media viz., modelling of battery stack, nuclear fuel rod bundle, flow in food grains were briefly outlined. Various methodologies of porous media formulation were explained, and thermal equilibrium model was taken up in the session. Using thermal equilibrium model, flow through porous medium in a differentially heated cavity was simulated and compared with the published results.

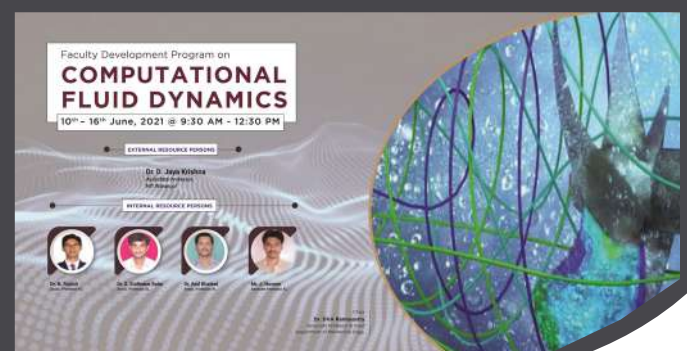
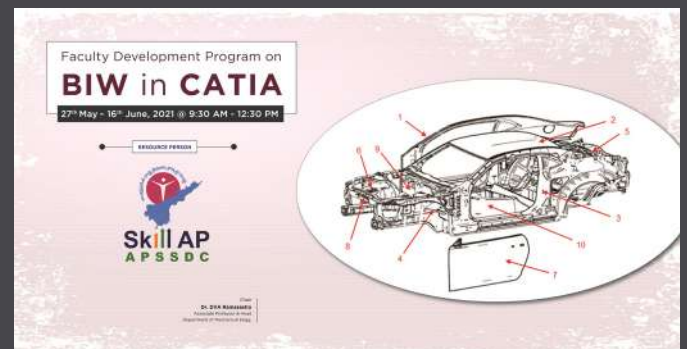
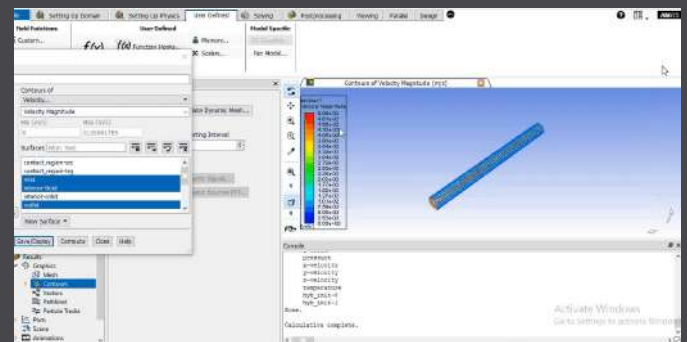


Day - 5

Fifth day of FDP was dedicated to get a in depth knowledge on design modeler. All the sketching and dimension tools were discussed. Generation of airfoil profile with the help of coordinates was explained. Few other examples of geometry creation were explained and the participants were encouraged to do practice on all these tools.

Day - 6

On the last day, an advanced topic of flow of nano fluids was discussed. Initially, the basic concepts of modelling of Nano fluid flow and its applications were discussed. Obtaining the properties of nano fluids and various correlations available for the properties were explained. Later, Nano fluid was introduced through a circular pipe and heat transfer characteristics of nano fluid were analyzed. 3D simulation was carried out and the effect of nano particle dispersion on the heat transfer rate was clearly shown.



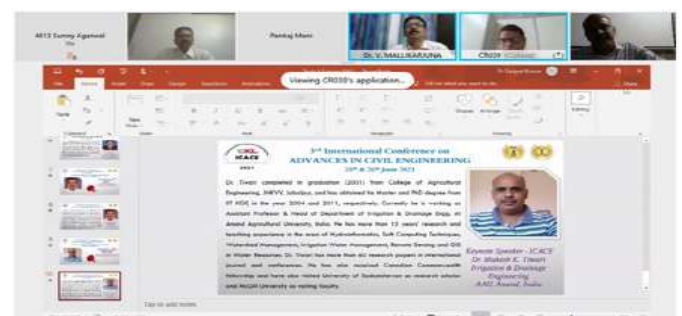
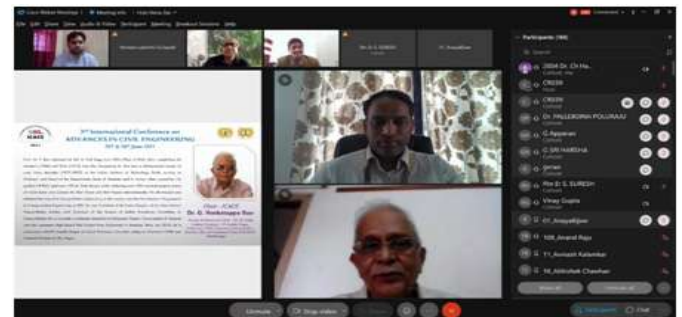


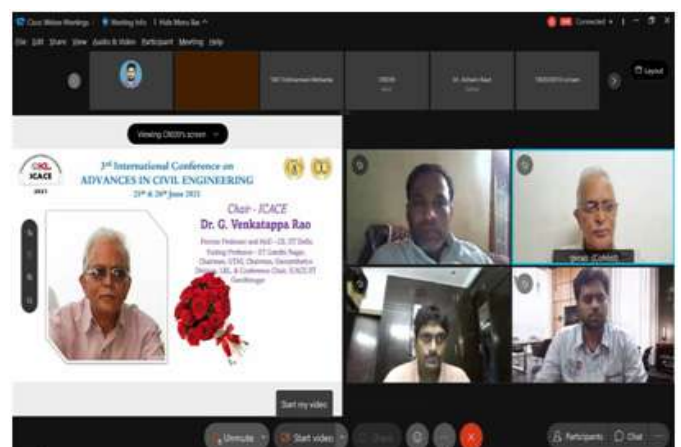
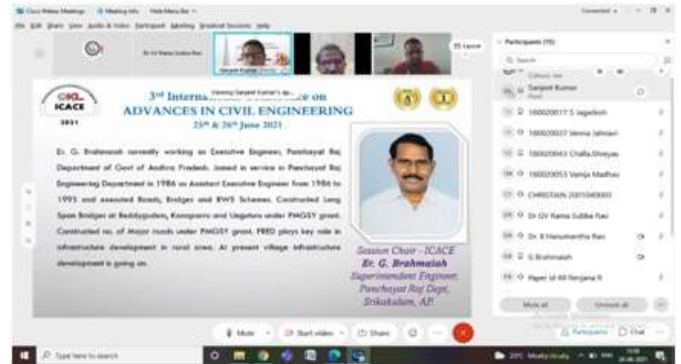
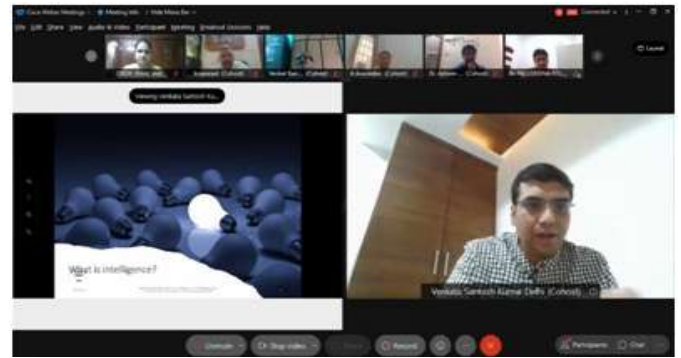
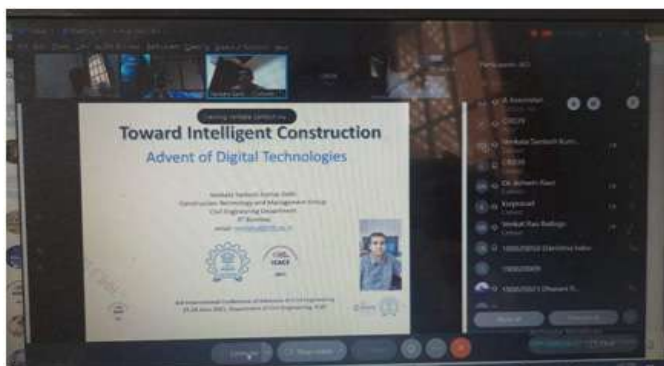
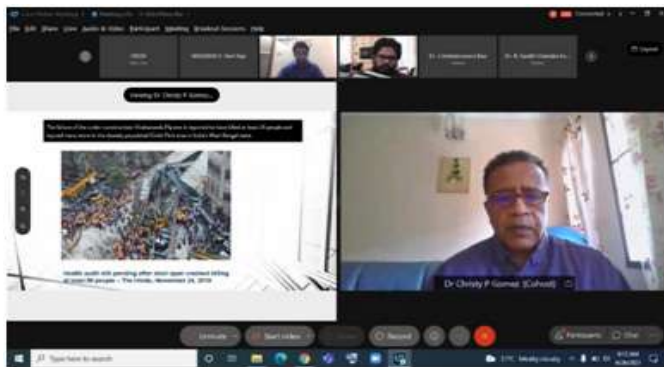
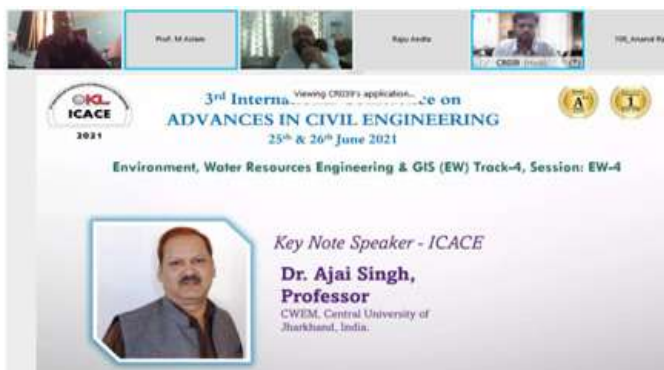
Department of CIVIL ENGINEERING



Two Day Online 3rd International Conference on Advances in Civil Engineering (ICACE 2021)

Department of Civil Engineering had organized Two Day Online 3rd International Conference on Advances in Civil Engineering (ICACE 2021) during 25th & 26th June, 2021. More than 200 people from across the country participated in the conference. Key note lectures were delivered by the faculty from Premier Institutes across the Globe and by eminent speakers from Industry.





One Week Faculty Development Program (Online) on Building Information Modeling (BIM) Using Revit Architecture Software

Department of Civil Engineering in association with Andhra Pradesh State Skill Development Corporation, Government of Andhra Pradesh organized One Week Online Faculty Development Program during 24th to 29th May, 2021 on Building Information Modeling (BIM) Using Revit Architecture Software. Sessions were convened by the Academic Personal from APSSDC.



KL Department of Civil Engineering In Association with ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION Skill AP

We Cordially Welcome

One Week Faculty Development Program
ON
BUILDING INFORMATION MODELING (BIM)
USING REVIT ARCHITECTURE SOFTWARE
24th May 2021 to 29th May 2021

CONDUCTED BY: **APSSDC**

RESOURCE PERSONS

- S. Subbarao, Technical Skill Trainer, APSSDC
- S. Raja Reddy, Civil Coordinator, APSSDC

CHAIRPERSON
Dr. Ch. Hanumantha Rao, HOD-CE, KL

One Week Faculty Development Program (Virtual) on Advanced Applications of Structural Concrete in Civil Engineering

Department of Civil Engineering in association with ICI-KLU Student Chapter organized One Week Online Faculty Development Program on "Advanced Applications of Structural Concrete in Civil Engineering" during 7th June 2021 to 12th June 2021. Sessions were convened by eminent professional from Industry and Academia.



KL Welcomes all the participants

One Week Faculty Development Program (virtual) on
Advanced Applications of Structural Concrete in
Civil Engineering

7th June 2021 to
12th June 2021
9.30 AM to 5.30 PM

In Association with **ICI - KLU Student Chapter**

Organized by **Department of Civil Engineering**
KL Deemed to be University



Structural Concrete Materials & Durability Aspect of Structural Concrete

KL UNIVERSITY

Dr. P. Poluraju, Ph.D. (IIT Madras)
Professor
Department of Civil Engineering
& I. Deemed to be University
Department of Civil Engineering
Vijaya Vittala, Andhra Pradesh
Chittoor District, AP 517 102

One Week Faculty Development Program (FDP) on
Advanced Applications of Structural Concrete in Civil Engineering

Application of Neural Networks in the Field of Structural Concrete

Dr. Surya Prakash Chellappan, M.Sc. Engg.
Associate Professor
Department of Civil Engineering
M. S. University
Ph. No. 081-7702222222, 081-7702222222
E-mail: surya.prakashchellappan@gmail.com

One Week Faculty Development Program (Virtual) on Comprehensive Knowledge on Autodesk Civil 3D

Skill Development Division & Department of Civil Engineering jointly organized One Week Faculty Development Program (Virtual) on Comprehensive Knowledge on Autodesk Civil 3D during 14th to 20th June 2021. Sessions were convened by the trainers from Easy Tech Training Solutions. Sessions were attended by the faculty of the Department of Civil Engineering.



The week has a 3-hour time slot (in some countries, the time limit may be extended)

For more information or to locate a CADC, visit: www.cadpart.com

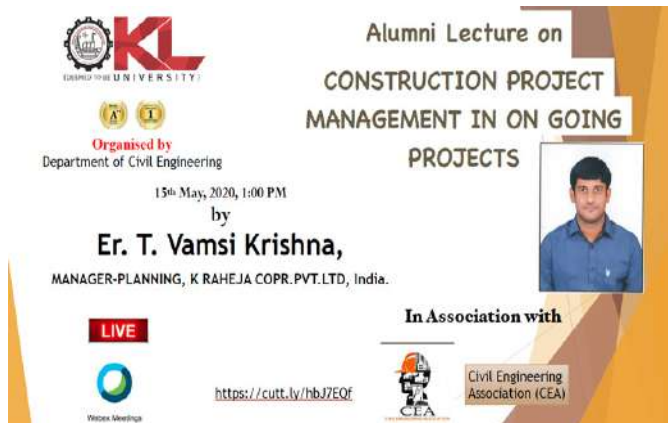
Become an Autodesk AutoCAD Civil 3D® Certified Professional

Get started today by visiting: www.cadpart.com/autodesk, or contact a Cadpart sales representative

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Guest Lecture

Mr. T. Vamsi Krishna, Manager-Planning, K Raheja Copr. Pvt.Ltd, India presented the lecture on "Construction Project Management in ongoing Projects" on 15th May, 2021. Lecture was attended by B.Tech and M.Tech students of the Department of Civil Engineering.



Alumni Lecture on
CONSTRUCTION PROJECT
MANAGEMENT IN ON GOING
PROJECTS

Organised by
Department of Civil Engineering

15th May, 2020, 1:00 PM
by
Er. T. Vamsi Krishna,
MANAGER-PLANNING, K RAHEJA COPR.PVT.LTD, India.

LIVE

In Association with
Civil Engineering Association (CEA)

<https://cutt.ly/hbJ7EQf>

Mr. V. Sridhar, Group Project Manager, Infosys Limited, Hyderabad delivered the expert talk on "Shape your Career" in virtual mode on 21st May, 2021. Session was attended by B.Tech Students of the Department of Civil Engineering.



SHAPER
YOUR CAREER

An Alumni interaction with students
ON
21st
May 2021
3:00 PM to 4:30 PM

Speaker
V. Sridhar
(Y93 batch)
Group Project Manager,
Infosys Limited, Hyderabad.

For more details

Dr. S. S. Raju, Asst. Professor
SJC OSA
Mobile: 9992777777
sraju@kluniversity.in

Dr. E. Siva Kumar, Asst. Professor
SJC OSA
Mobile: 944 943 943
sivakumar@kluniversity.in

Dr. V. Hema Kumar, Asst. Professor
SJC OSA
Mobile: 9992 68 64 67

Meeting link:
<https://kluniversitywebex.com/kluniversity/j.php?MTID=m74478b60051226791f6a504a1fd50c7>

Webinars

Impact of Green Building Materials

Department of Civil Engineering organized the webinar on "Impact of Green Building Materials" On 22nd May, 2021 through virtual mode. Webinar was presented by Dr. Shashi Ram, Assistant Professor at NIT – Warangal. Session was attended by all B.Tech and M.Tech students of the Civil Engineering Department.



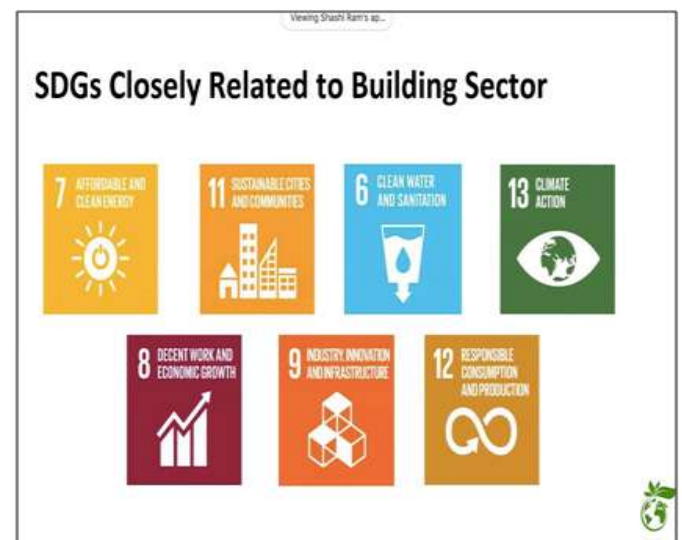
WEBINAR ON
IMPACT OF GREEN BUILDING MATERIALS

22nd
May 2021
2:00 PM to 3:00 PM

Speaker
Dr. Shashi Ram
Assistant Professor, Ph.D. & M.Tech.
Department of Civil Engineering,
N.I.T. Warangal, T.S.-506004
(Construction Technology
and Management)
B.E. (Civil Engineering)

Meeting number: 158 919 7599
Password: wtm6YMK6W3b

Meeting link:
<https://kluniversitywebex.com/kluniversity/j.php?MTID=m5063f6a9e220d2a1b116c180c3258132>



SDGs Closely Related to Building Sector

7 AFFORDABLE AND CLEAN ENERGY

11 SUSTAINABLE CITIES AND COMMUNITIES

6 CLEAN WATER AND SANITATION

13 CLIMATE ACTION

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY INNOVATION AND INFRASTRUCTURE

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

Effective Research Paper Writing Techniques

Department of Civil Engineering organized the webinar on "Effective Research Paper Writing Techniques" on June 6th 2021 through virtual mode. Webinar was presented by Dr. Ranjit Singh, Post Doctoral Researcher, Department of Mechanical and Aerospace Engineering, University of California, USA. Session was attended by all B.Tech and M.Tech students of the Civil Engineering Department.



KL Deemed to be University
Department of Civil Engineering

WEBINAR

EFFECTIVE RESEARCH PAPER WRITING TECHNIQUES

6th June 2021 | 10:00 A.M. (IST)

UPDATER

Dr. Ranjit Singh
Post Doctoral Researcher
University of California,
Los Angeles (UCLA) United States
Email: ranjit.singh@ucla.edu

Google Scholar:
<https://scholar.google.com/citations?user=RanjitSingh>

Research Gate:
<https://www.researchgate.net/profile/Ranjit-Singh-9>

For more queries

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9849100000

Mr. Ratnamala Boreemreddy
Assistant Professor
ratnamalaboreemreddy@kluniversity.in
9849100000

Mr. J.D. Chaitanya Kumar
Assistant Professor
jdchaitanya@kluniversity.in
Phone: 9849100000

*For participation registration is must & hence please click the link below.
Registration Link
<https://forms.gle/VubZf5nn2p22eX0>
WhatsApp Session Link
<https://kluniversity.webex.com/kluniversity/j.php?MTID=m9576d1285d2fbc13501c9c022c6f1d>

One-Day Online Training Programme

Department of Civil Engineering had organized the One-Day Online Training Programme on "A Multi-Storey Building using Staad Foundations" on 31st May 2021. Sessions were convened by Mr. N. Lingeshwaran, Assistant Professor in Civil Engineering Department at Koneru Lakshmaiah Education Foundation (Deemed to be University), Vaddeswaram, Guntur district, Andhra Pradesh. Sessions were attended by all B.Tech and M.Tech students of the Civil Engineering Department.



KL Deemed to be University
Department of Civil Engineering

You're Invited to Join
One-Day National Level Training on
Design of Foundation for
A Multi-Storey Building Using Staad Foundation

MON DAY | MAY 31 | 09:30 AM

Mr. N. Lingeshwaran
Assistant Professor
Dept. of Civil Engineering
KL Deemed to be University

Event Coordinators:
Mr. M. Anil Kumar, Asst. Professor
Email ID: aneel.mvs@kluniversity.in
Phone: +91 77995 85678
Mr. J. D. Chaitanya Kumar, Asst. Professor
Email ID: jd2sai@kluniversity.in
Phone: +91 94405 50981

In Association with

Meeting link:
<https://kluniversity.webex.com/kluniversity/j.php?MTID=mc5f97b216d7d0fe886538d5fd9083ce6>

Registration link:
<https://forms.gle/9EJBC9HQaMcpRBCc9>

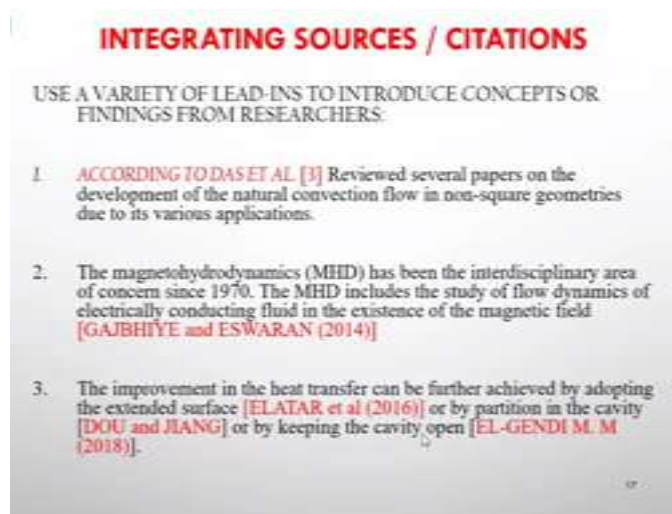


Zoom Meeting: Design of Foundation for A Multi-Storey Building Using Staad Foundation

Department of Civil Engineering
CORDIALLY WELCOMES YOU

One day National level training on
DESIGN OF FOUNDATION FOR A MULTI-STOREY BUILDING USING STAAD FOUNDATION

Mr. N. Lingeshwaran
Assistant Professor
Dept. of Civil Engineering
KL Deemed to be University



INTEGRATING SOURCES / CITATIONS

USE A VARIETY OF LEAD-INS TO INTRODUCE CONCEPTS OR FINDINGS FROM RESEARCHERS:

1. **ACCORDING TO DAS ET AL [3]** Reviewed several papers on the development of the natural convection flow in non-square geometries due to its various applications.
2. The magnetohydrodynamics (MHD) has been the interdisciplinary area of concern since 1970. The MHD includes the study of flow dynamics of electrically conducting fluid in the existence of the magnetic field [**GAJBHIYE and ESWARAN (2014)**]
3. The improvement in the heat transfer can be further achieved by adopting the extended surface [**ELATAR et al (2016)**] or by partition in the cavity [**DOU and JIANG**] or by keeping the cavity open [**EL-GENDI M. M (2018)**].

Faculty Publications

- K Paul Levi, Ashwin Raut "Embodied energy analysis to understand environmental impact of brick industry in West Godavari region" Materials Today proceedings: ISSN: 2214-7853 Page No. 1-7, Publication Issue: June 2021.
- Ranjit J. Singh, Ashwin Narendra Raut "Investigation of newly developed copper slag incorporated foamed geopolymer and its conjugate heat transfer analysis" Materials Today proceedings: ISSN: 2214-7853 Page No. 518 -522, Volume 44 Publication Issue: June 2021.

Faculty Achievements

- Dr. P. Poluraju invited to deliver Expert Talk on "Mass Housing Construction using quick build panels (3D Sandwich Panels) for cyclone and Earthquake prone areas" at Shri Vishnu Engineering College for Women (Autonomous), Bhimavaram, Andhra Pradesh on 18th May 2021.
- Dr.P.Poluraju reviewed a paper on "A Simplified Approach to Modeling Vertically Irregular Structures for Dynamic Assessment" for Journal of Asian Architecture and Building Engineering on 27th May 2021.
- Dr. P. Poluraju invited to deliver Expert Talk on "Field mistakes while mixing and placing of concrete" at Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh on 1st June 2021.
- Dr. P. Poluraju reviewed a paper on "Analysis seismic vulnerability of the buildings in rural area: the 1996-2013 earthquakes" for Journal of Asian Architecture and Building Engineering on 8th June 2021.
- Dr. P. Poluraju invited to deliver Expert Talk on "Retrofitting of Structural Elements Using Wrapping Techniques" at Lakkireddy Balireddy College of Engineering (Autonomous), Mylavaram, Andhra Pradesh on 10th June 2021.
- Dr. P. Poluraju invited to deliver Guest Lecture on

"Sustainable Structural Concrete" at V R Siddhartha Engineering College (Autonomous), Vijayawada, Andhra Pradesh on 14th June 2021.

- Dr. P. Poluraju invited to deliver Guest Lecture on "Strengthening of Structural Elements using Wrapping Techniques" at Kallam Haranadhareddy Institute of Technology-KHIT (Autonomous), Chowdavaram, Andhra Pradesh on 21st June 2021.
- Dr. P. Poluraju invited to deliver expert Lecture on "Structural Performance of Structurally Deficient Elements using retrofitting techniques under general loading" in Six day faculty development program on "Repair, Rehabilitation and Retrofitting Techniques of Reinforced Concrete Structures", Phase-III (28th June – 3rd July 2021) at Srinivasa Ramanujan Institute of Technology (Autonomous), Ananthapuram, Andhra Pradesh on 3rd July 2021.
- Dr. Ch. Surya Prakash invited to deliver the session during One Day International Workshop organized by M.S.A.J.College of Engineering, Chennai on 5th June 2021.
- Mr.I Siva Kishore conferred with Young Researcher Award 2021 by Institute of Scholars for his outstanding contribution towards research.
- Mr.I Siva Kishore conferred with Best Young Faculty Award by Novel Research Academy for his outstanding contribution towards teaching.
- Mr.I Siva Kishore conferred with Young Scientist award by Green Thinkerz for his outstanding contribution towards research
- Dr. A.Aravindan received the John Smeaton Best Researcher Award 2021 from Rata Prasa Mutidicipilinary Research & Education Society for his outstanding contribution towards academic excellence.
- Dr. A.Aravindan received the Award of Excellence in Research from Novel Research Academy for his outstanding contribution towards reaserch.
- Dr. Syed Hamim Jeelani received the Best Young Faculty Award from Novel Research Academy for his outstanding contribution towards academics.

- Mrs.Ch.Mallika Chowdary received the Best Woman Faculty Award from Novel Research Academy for his outstanding contribution towards academics.
- Mr.M.Achyutha Kumar Reddy conferred with National Outstanding Young Researcher Award 2021 by Green Thinkerz for his outstanding contribution towards research.
- Dr. Umesh Kumar Singh received the Award of Excellence in Research from Novel Research Academy for his outstanding contribution towards research.
- Dr. C. Khed Veerendra Kumar received the Award of Excellence in Research from Novel Research Academy for his outstanding contribution towards research.
- Mr.Anil Kumar M conferred with Best Young Faculty Award by Novel Research Academy for his outstanding contribution towards teaching.
- Mr. K. J. Brahma Chari received the Best Young Scientist Award from Novel Research Academy for his outstanding contribution towards research.
- Dr.Ashwin Raut received the Best Young Scientist Award from Novel Research Academy for his outstanding contribution towards research.

Industrial Tour/Field Visit

Department of Civil Engineering in association with Ultratech Cement & ICI had arranged Virtual Tour for B.Tech, M.Tech students and Faculty to Rajashree Cement works – Malkhed (Gulbarga) on 27th May, 2021, where the students were briefed about the manufacturing process of cement.



World Environment Day

Department of Civil Engineering had organized One day National webinar on "ECOSYSTEMS RESTORATION" on the eve of World Environment Day On 5th June, 2021 through virtual mode. Sessions were convened by Dr. B.Brahmaji Rao, Head, Department of Environment Sciences, ANU and Dr.G.V.Venkataramana Professor, Department of Environment Sciences, University of Mysore. Sessions were attended by all B.Tech and M.Tech students of the Civil Engineering Department.





Yuva Sai Charan Tammineni

I am YUVA SAI CHARAN TAMMINENI pursuing B.Tech civil engineering at KL University. My experience at KL university has taught me one fundamental thing- life is unpredictable. One of the most interesting stages in life that gives an opportunity to explore is the college phase. At my college stage I experienced a perfect blend of joy and happiness.

I met different people and interact with them and I learnt different cultures and grow as a person.

At KLU I learnt to talk to different people, how they judge the behavior and try to cope up with the academic syllabus. In my campus I can explore many co-curricular activities and sharing the common interests, and common ideas. There are also campus festivals, which draw a lot of fun crowd and let us show off our skills. I also enjoyed with the celebrities who are invited to perform, or even show off my technical prowess in a tech festival. The college time is a time of dreams and innumerable paths. I experienced the moments that carry a lot of sentimental value and important aspects. The time I spend with my friends will always stay in my heart. All these things make me more emotional and adieu to the institution. Another life I learned here is that the learning never ends.

Every nook and the corner of the college I would find a peaceful spot full of natural surroundings from where I could get peace.

Finally I conclude saying that life at college is a wild mish-mash experiences.



The following faculty of Department of Mathematics have published various National /International patents.

S. NO	NAME OF THE PATENTS	NAME OF THE PRINCIPAL	TYPE OF THE PATENT	DATE OF	
		INVESTIGATOR		PUBLISHED	GRANTED
1	A SMART DEVICE FOR MAINTAIN GREENHOUSE CONTROLLING ENVIRONMENTS PARAMETERS.	Dr K Rajyalakshmi	Innovative Patent, Australia		19-05-2021
2	A classifier for attack detection in cloud environment and data computing for smart citites and smart heal thcare system using internet of things	Dr S Vijayaprasad	Innovative Patent, Australia		19-05-2021
3	Artificial neural network based early diagnosis of health deterioration	Dr Ankita Tiwari	Ordinary application, Intellectual property of India	30-06-2021	
4	GENERAL MACHINE LEARNING MODEL FOR ACCESS POINT PLACEMENT IN RE CONFIGURABLE WIRELESS NETWORKS	Dr M.Radha Madhavi	Ordinary application, Intellectual property of India	30-04-2021	
5	BUOYANCY EFFECTS ON MHD CHEMICALLY REACTING AND RADIATING CASSON FLUID PAST A PERMEABLE STRETCHING SHEET IN A POROUS MEDIUM	Dr.N.Vijaya	Ordinary application, Intellectual property of India	11-06-2021	
6	A Novel Data Security System using Hybrid Cloud Computing	Dr G V Ramana Reddy	Ordinary application, Intellectual property of India	23/5/2021	

- Dr G Charankumar has been selected as an Editorial board member of World journal of engineering Research and Technology.
- Dr G V Ramana Reddy Selected as Life member of international institute of organized research (I2OR), India.
- Dr K Rajyalakshmi has been selected as "Summer faculty Research fellow", IIT Delhi.
- Dr K Rajyalakshmi has completed Two-Week Refresher course in Mathematical sciences, Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING from 14-06-2021 to 28-06-2021.

The following faculty of Mathematics is acted as resource person

SL. NO.	NAME OF RESOURCE PERSON	TOPIC TITLE	CONFERENCES/WORKSHOP/ ORIENTATION/ORGANIZATION	DATE
1	Dr K Rajyalakshmi	Statistics using R Software	Guest lecture, Department of MBA, QIS College of engineering and technology, Ongole	29/6/2021
2	Dr K Rajyalakshmi	APPLICATIONS OF MODIFIED TAGUCHI BASED – DESIGN OF EXPERIMENTS FOR INDUSTRIAL PROBLEMS	FIFTH INTERNATIONAL WEBINAR ON RECENT TRENDS IN STATISTICAL THEORY AND APPLICATIONS-2021	29/06/2-21 to 2/7/2021
3	Dr M Radha Madhavi	Mathematical Applications in Engineering	Webinar for the first year students, Vinayaka Mission's Research Foundation	21-06-2021
4	Dr S V Subramanyam	Applications of Matrices	Guest Lecture for I B Tech students, Tirumala Engineering college, Narasaraopet	24/5/2021

The following M. Sc applied mathematics students have published research papers in the Scopus indexed journal.

S.NO.	NAME OF THE STUDENT	TITLE OF THE PAPER	JOURNAL / CONFERENCE NAME	PRIMARY INDEXING DATA BASE
1	M Navya Pratyusha	Impact of sleep on usage of the smart phone at the bedtime-A case study	Mathematics and Statistics	Scopus
2	J Surendra	Forecast and trend analysis of gold prices in india using auto regresssive integrated moving average model	Journal of Mathematical and computational sciences	scopus

4 students awarded with Ph. D degree by the faculty of Dept. Mathematics

SL NO	NAME OF FACULTY (AS SUPERVISOR)	NAME OF SCHOLAR	DATE OF NOTIFICATION	UNIVERSITY	RESEARCH AREA
1	Dr P Hari Prasad	K Gowthami	April 2021	K L University	Fluid dynamics
2	Dr G Suresh Kumar	PROMODA PATRO	May 2021	K L University	Applied Mathematics
3	Dr B Srinivas Kumar	Smt. P. Seetha Mani	May 2021	K L University	Applied Mathematics
4	Dr B Nageswara Rao	J Peter Praveen	June 2021	K L University	Applied Mathematics

- Dr G Charankumar have received Doctoral degree from Srikrishna Devaraya University, Anantapuramu.



చరణకు పిహెచ్ డి

ఎస్కేయూ, జనవరి 24 ప్రభాతవార్త

శ్రీకృష్ణ దేవరాయ విశ్వవిద్యాలయం మాధవేటిక్స్ విభాగంలో పార్ట్ టైం రీసెర్చ్ స్కాలర్ గా ఉండి సమైక్యంగా బి.ఎడ్. టుది అప్లికేషన్స్ ఆఫ్ స్టాటిస్టిక్స్ ఓరియంటేడ్ స్టేషన్ లో గ్రాఫ్స్ అను అంశంపై సిద్ధాంత వ్యాసం సమర్పించినందుకు గురిచే చరణ్ కుమార్ కు శ్రీకృష్ణ దేవరాయ విశ్వ విద్యాలయం పిహెచ్ డి ప్రధానం చేశారు. విశ్వవిద్యాలయంలోని మాధవేటిక్స్ విభాగంలో ప్రొఫెసర్ గా పనిచేస్తున్న జి.కోటల నేతృత్వంలో గురిచే కుమార్ ఈ సిద్ధాంత వ్యాసం సమర్పించారు. ఈ సిద్ధాంత వ్యాసంలో వాటర్ క్యాలిబ్రే డెవలప్ మెంట్ రోడ్ సెస్టి మే అనుబంధాన్ని ని స్టేషన్ లో గ్రాఫ్స్ ద్వారా విశదీకరించారు.



చరణ్

- Faculty of Mathematics has participated in 2 conferences, and 2 Workshops, 2 online FDP and ATAL FDP's conducted by various institutes in National and International level.

- The following faculty have received awards in different categories



S.NO.	YEAR OF AWARD	NAME OF FACULTY	DESIGNATION	NAME OF THE AWARD, ORGANISATION
1	2021	Dr K Rajyalakshmi	Assistant Professor	Best teacher award, KLEF
2	2021	Dr K Rajyalakshmi	Assistant Professor	Fellow member, Scholars Academic and Scientific society
3	2021	Dr G Charankumar	Assistant Professor	Fellow member, Scholars Academic and Scientific society

4	2021	Dr Ankita Tiwari	Assistant Professor	InSc Young Researcher Award", " , Institute of scholars (In Sc.), ISO 9001-2015 certified institute by international accurate certification.
5	2021	Dr T Srinivasa Rao	Associate Professor	International Academic Excellence award, international institute of Organized research(I2OR)
6	2021	Dr T Eswarlal	Associate Professor	INTERNATIONAL, RESEARCHER AWARD, International institute of organised research.
7	2021	Dr V S Bhagavan	Professor	I2OR NATIONAL EMINENT RESEARCHER AWARD, International institute of organised research.

Research Publications

- Faculty of Mathematics have published 18 publications in various indexed journals during April to June 2021.

S.NO	TITLE OF THE PAPER	EMP / STUDENT / SCHOLAR NAME	JOURNAL / CONFERENCE NAME	PRIMARY INDEXING DATA BASE
1	Numerical Approach of heat and mass transfer of MHD Casson fluid under radiation over an exponentially permeable stretching sheet with chemical reaction and Hall effect	W.Sridhar	Frontiers in Heat and Mass Transfer	Scopus and Web of Science
2	Mixed convection boundary layer flow of MHD Casson fluid on an upward stretching sheet encapsulated in a porous medium with slip effects	W.Sridhar and Apparao B V	JP Journal of heat and mass transfer	Scopus
3	The Effects of Glucose on Gestational Diabetes Women	Dr K Rajyalakshmi	Clinical Journal of Diabetes Care and Control	Other indexed
4	The glucose level linkages with breast cancer markers	Dr K Rajyalakshmi	Journal of Cancer Research and Cellular Therapeutics	Other indexed
5	SQUEEZE FILM LUBRICATION OF ASYMMETRIC ROLLERS BY BINGHAM PLASTIC FLUID	Dr. S.V. Subrahmanyam	Frontiers in Heat and Mass Transfer	Scopus and Web of Science
6	THE INTERACTION BETWEEN A Q-FUZZY NORMAL SUBGROUP AND A Q-FUZZY CHARACTERISTIC SUBGROUP	Dr.V.B.V.N.PRASAD	J. Math. Comput. Sci.	Scopus
7	STUDIES ON OPTICAL PROPERTIES OF PVA BASED COMPLEX POLYMER ELECTROLYTE	Dr.V.B.V.N.PRASAD	RASAYAN JOURNAL OF CHEMISTRY	SCOPUS
8	Solving the Multi-server Queuing Model by Big-M Method	Dr. S. Vijay Prasad	Lecture Notes in Mechanical Engineering. Springer	Scopus
9	Results on a Chromatic Number of a Bipolar Fuzzy Complete Bipartite Graphs and Labelling of Tri-Polar Fuzzy Graphs	Dr S Ragamayi	Turkish Journal of Computer and Mathematics Education	scopus

10	AN INNOVATIVE STUDY ON SUM OF POWERS OF INTEGERS	Dr.B.Mahaboob	Turkish Journal of Computer and Mathematics Education	Scopus
11	A BRIEF LITERATURE ON PROBLEMS AND PERSPECTIVES OF MATHEMATICAL AND STOCHASTIC MODELLING	Dr.B.Mahaboob	Turkish Journal of Computer and Mathematics Education	Scopus
12	A STUDY ON MATHEMATICAL AND STATISTICAL ASPECTS OF LINEAR MODELS	Dr.B.Mahaboob	Turkish Journal of Computer and Mathematics Education	Scopus
13	Numerical Simulations of darcy forchhiemer flow explored with carbon nano tubes under activation energy	Dr. N. Vijaya	Indian Journal of Science and Technolgy	WOS
14	Entropy analysis of nanofluid magnetohydrodynamic convection flow past an inclined surface: a Numericaal review	Dr.N.Vedavathi	Heat Transfer	Scopus+WOS
15	Numerical study of radiative non-Darcy nanofluid flow over a stretching sheet with a convective Nield conditions and energy activation	Dr.N.Vedavathi	Nonlinear Engineering	Scopus
16	A study of common fixed point in intuitionistic fuzzy metric space with weakly compatible mapping"	Dr Ankita Tiwari	PENSEE JOURNAL	Scopus
17	SOLVING THE CAPACITATED VEHICLE ROUTING PROBLEM WITH LEXI-SEARCH APPROACH	Dr.B.Mahaboob	Journal of mathematics and computational Science	Other Indexed
18	Finite Automata Model For SEIHRD Epidemic Model Of COVID-19	Dr T Eswarlal	International Journal of Future Generation Communication and Networking	Scopus
19	Existence and ulams type stability for Sylvester matrix impulsive Volterra integro-dynamic system on time scales	Dr B V Apparao	Advances in Mathematics: Scientific journal	Scopus

The faculty of Mathemtics have attended ATAL FDP conducted by various institutes at National Lelvel.

S.NO	TITLE OF FDP	EMP / STUDENT / SCHOLAR NAME	ORGANIZATION	DATE
1	Industry oriented FDP on Artificial Intelligenece	Dr K Rajyalakshmi	ATAL and MSME- Technology Development Centre (PPDC), Meerut.	07-11 June 2021
2	Life Skills Management- ROAD - Leadership & Excellence	Dr S Ragamayi	ATAL ACADEMY and GITAM Deemed to be University	21-25 June 2021
3	Exploring Ideas to scalable product design skill	Dr T Eswarlal	Gujarat Technological University and ATAL ACADEMY	21-25 June 2021

Ph.D Awarded by KLU

S.NO	NAME OF THE SCHOLAR	NAME OF THE SUPERVISOR	THESIS TITLE
1	Nallala Hima Varshini	Dr M Raja Ambethkar	'The Role of activity based learning in improving communicative competence of young learners at school level'
2	Bhagya prabhashini Cheeli	Dr M Latha	'A Perspective study of second language learning process and parole in simulations'

Ph.D Awarded by KLU

S.NO	NAME OF THE FACULTY	TITLE OF THE PAPER	TITLE OF THE JOURNAL	ISSN NO	MONTH AND YEAR OF PUBLICATION
1	Dr K Usha Rani	Demographic Pattern of Covid 19 cases in and around Vijayawada, Andhra Pradesh	Indian Journal of Forensic Medicine & Toxicology		June,2021
2	Dr T Rajeswari	Short stories of Nathaniel Hawthorne: A dissertation on feminism	International Journal of Aquatic Science	2008-8019	June, 2021
3	Dr T Rajeswari	Male Protagonists of Nathaniel Hawthorne's short stories: The victims of liminality	Linguistica Antverpiensia	0304-2294	May, 2021
4	Dr A Rama Devi	Results on a chromatic number of a bi-polar fuzzy complete bipartite graphs and labeling of tripolar fuzzy graphs	Turkish journal of computer and mathematics education	1040-1046	May, 2021

5	Dr A Rama Devi	A study on Second Language Acquisition and English Language Proficiency	International Journal of Aquatic Science	2008-8019	June, 2021
6	Dr K K Sunalini	Clash And Compromise Of Mother And Daughter In Mahesh Dattani's Thirty Days In September	International Journal of Aquatic Science	2008-8019	June, 2021
7	Dr M Latha	Activities To Enhance Effective Communication Using Non-Verbal Communication Skills In Different Levels Of Students	International Journal of Aquatic Science	2008-8019	June, 2021
8	Dr M Latha	TEACHING COMMUNICATIVE ACTIVITIES OF LEARNING ENGLISH LANGUAGE SPEAKING AND ITS CHALLENGES FOR THE YOUNG ASPIRANTS: A SCHEMATIC VIEW	Turkish Journal of Physiotherapy and Rehabilitation	2651-4451	May, 2021
9	Dr P V Ravi Kumar	The Noteworthy Traits In Robert Browning's Poetry:	International Journal of Aquatic Science	2008-8019	June, 2021
10	Dr P V Ravi Kumar	Incorporating Gamification To Enhance The Speaking Skills Of Primary Level Students Of Telugu Medium Background In Andhra Pradesh.	International Journal of Aquatic Science	2008-8019	May, 2021
11	Dr B Siva Nagaiah	Developing Proficiency Skills In Rural Indian Students, Strategies For Improving Speaking Skills	International Journal of Aquatic Science	2008-8019	May, 2021
12	Dr B Siva Nagaiah	The Problems Faced By The Rural Students In Conversing In English And Proposed Solutions To Develop Their Communication Skills"	International Journal of Aquatic Science	2008-8019	June, 2021
13	Dr R Kumara Swamy	Language Proficiency Greatly Disturbed in Virtual Classrooms	Journal of Xidian University	1001-2400	May, 2021

3 day online FDP on English Language Learning as Life Skill

The Department of English organized a 3 day online FDP on English Language Learning as Life Skill from 24th June to 26th June, 2021 from 11 AM onwards on all the three days. Dr A Srinath, Dean Skill development gave the welcome address and wished the endeavour success. 250+ participants actively participated in this FDP programme from different parts of the country. 3 resource persons were invited to deliver talks in the FDP on the three days. Dr Vikas Sharma, Mrs Padmini K and Dr Mosam Sinha gave presentations on topics related to the theme of the FDP.

Notes from newly recruited faculty

1. I wish to let you know that my experience at the K L University has been good. Regularly I am learning new things and trying to implement my own knowledge to it. Hope to explore more such positive opportunities in future- Mr. Manish Prasad- Assistant Professor in English
2. KLU is a multinational and multicultural abode of learning with its engrossing Nature and an extremely professional ambience. The environment in the college is conducive for teaching and up-scaling one's competencies. The college is providing adequate opportunities and support for the faculty members for upgrading their skills and qualifications. This is a completely rich work experience under able management and its team and finally very happy that I am placed here for my better posterity. Thank you- Dr Farhad- Associate Professor in English- EMP ID-6672
3. It's my privilege and honour to work in this reputed organization. Being a fresher in the teaching profession ..the infrastructure which is present in this organisation will enable me to develop my teaching skills, multimedia/digital platform. I hope this organisation will enhance my research skills by making me to publish research articles ..expecting holistic change in my teaching and research. Faculty members / professors are very supportive and helpful in guiding through academics- Dr. Bathina Rajesh Kumar- Assistant Professor in English



A THREE-DAY FDP ON ELL (ENGLISH LANGUAGE LEARNING) AS A LIFE SKILL
from 24th to 26th June, 2021 @ 11:00 am (all days)

Resource person:
Dr. Vikas Sharma D.Lit
Professor and Head, Department of English,
KLU, Kuvempu, Mysuru, Karnataka
Topic: Empowerment and Fluency in reading and writing
Date & Time: 24th June, from 11:00 am onwards

Resource person:
Mrs. Padmini Kandula
Senior Lecturer, KLU,
Manager, Quality Center, India Private Ltd,
Mumbai City, Maharashtra
Topic: Technical Writing
Date & Time: 25th June, from 11:00 am onwards

Resource person:
Dr. Mosam Sinha
Professor, Department of English,
Babu Maheshwari University, Bhopal
Topic: Stress & Time Management
Date & Time: 26th June, from 11:00 am onwards

Convener:
Dr. S. LAVANYA
HOD English

Co-Convener:
Dr. RAJA AMBETHKAR. M
Dy. HOD English

Registration Link:
<https://forms.gle/2CX3WSv9L2uqM2mo7>

No Registration Fee. E-Certificate will be issued to all Participants

FDP Platform will be communicated to the registered candidates, through Telegram / WhatsApp Group.



MBA



Placement Data 2019-21 Batch

Number of students registered for placements	105
Number of students placed till today	75
Unplaced students	30
Total offers till today	101
Highest package	Rs. 10,00,000
Average package	Rs. 4,39,200

Placement Data 2019-21 Batch

SI.NO	COMPANY	NO OF STUDENTS SELECTED	SALARY PACK
1	Byjus	1	1000000
2	Spandana Spoorthy	3	684000
3	Algonox	2	600000
4	Healthplix Technologies	2	600000
5	IHS Markit	1	600000
6	TCS SAP	7	580000
7	TCS	2	580000
8	Berger Paints	1	575000
9	Byjus	3	550000
10	Matrimony	2	500000
11	Xuntox	8	500000
12	Bharti Airtel	2	500000

13	Ctrl S	4	450000
14	Infor INDIA	1	450000
15	ICICIC BANK	21	425000
16	PPO in ICICI	1	425000
17	Ryan Taxation	1	360000
18	Star Agile	2	360000
19	Berkadia	7	395000
20	Muthoot	21	300000
21	XpressBees Pvt. Ltd.	6	300000
22	RenewSys India Pvt Ltd	2	300000
Total offers		101	10734000



WEBINAR
6th July 2021 | 10:30AM To 12:30PM

Organized by
KL BUSINESS SCHOOL
IN COLLABORATION WITH
CDSL INVESTOR PROTECTION FUND

RESOURCE PERSONS

Narasimha Rao M.V.
CDSL IPF

Shiva Prasad V
Regional Manager CDSL India

CURRENT TRENDS IN CAPITAL MARKETS

Co-Ordinator
Dr. PV Vijay Kumar Reddy
HOD MBA

For any queries
Dr. CV Siva Prasad
Assistant Professor
Dept of MBA
18-6087460
Kuvkl.org/askadmission@21

Registration Link - <https://us02web.zoom.us/join/register/K2Jnf-2toT8uRtcCDYUuBbVEJBYL89ZIERw>



KL Department of **MBA**

A Two days Faculty Development Program on MANAGEMENT TEACHING METHODOLOGIES
on 25th & 26th June, 2021
Time: 3:00 PM - 5:00 PM

Dr. A. Srikanth
Associate Professor
B.A. Economics

Dr. M. Kishore Babu
Dean (MBA), Director
Entrepreneurial Development



KL Business School **MBA**

GUEST LECTURE
GUEST LECTURE
GUEST LECTURE

FUTURE JOBS FOR MBAS AND ESSENTIAL READINESS
27th May 2021 at 7 PM

Resource Person
Sri Satya Pamula
Vice President,
Integral Advisory Services Pvt. Ltd.



National Conference on INNOVATION & ENTREPRENEURSHIP DEVELOPMENT
19th & 20th March, 2021

KL Department of MBA

National Conference (Virtual) on CORPORATE SOCIAL RESPONSIBILITY TOWARDS SUSTAINABLE DEVELOPMENT IN INDIA
on 24th April, 2021 @ 10:00 AM

CHIEF GUEST
Prof. V. Krishna Mohan
Amrita University

GUEST OF HONOUR
Dr. Aloke Kumar Dubta
IIM, Ranchi

GUEST OF HONORABLE
Dr. M. Kishore Babu
IIM, Ranchi

Link: <https://kluuniversityambba.com/national-conference-virtual-on-corporate-social-responsibility-towards-sustainable-development-in-india>

Co-Chairman: Dr. V. V. Siva Prasad, Assistant Professor
Co-Chairman: Dr. Ch. Suresh, Assistant Professor
Co-Chairman: Dr. V. Anil Kumar, Assistant Professor

KL Department of MBA

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KL Department of MBA

SYMPOSIUM ON UNION BUDGET 2021: PERSPECTIVES
On 6th March 2021 @ 9:30 am

Speakers

CA G. GREENIVASA RAO
Associate Prof. Chairman
CA, Vijayawada Branch

CA NITTA DAVI KISHORE
Associate Prof. Chairman
CA, Vijayawada Branch

Dr. DASARI RANAKRISHNA
HLS, Efficient Systems Ltd.
Past Chairman - CA AP

Organized by
K L Business School - MBA Department
Finance Research Group



Shaik Salman **Kola Kalyan**

Rs 6.00 Lakhs P.A

ALGONOX TECHNOLOGIES

KL Department of MBA

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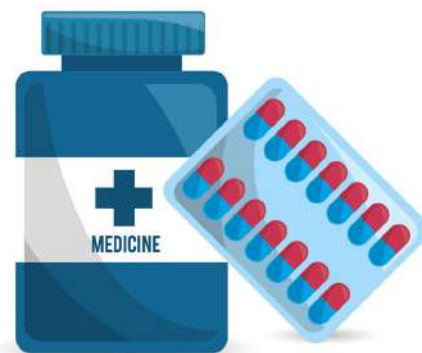
GEETHIKA MAHI GUJJARI

Congratulations
For your breakthrough selection in

IHS Markit
Rs 6.0 Lakhs P.A



PHARMACY



National Seminar

Application of Electronics and Information Technology in Innovations and Startup's of Pharma & Healthcare

K L College of Pharmacy, K L University has organized a one-day National Seminar on "Application of Electronics and Information Technology in Innovations and Startup's of Pharma & Healthcare" in association with CIIE, KLEF, sponsored by Ministry of Electronics and IT, Govt. of India, on 27th March 2021 at its campus following covid guidelines. The seminar disseminated the knowledge regarding the funding opportunities for start up's, expert talks who are experienced with innovations, patenting, commercialization, procedures for startup enrolments, hiccups and success stories, future of entrepreneurship, etc.

Mr. Moturu Rajendra Prasad, Founder and CEO, Clevinno Pvt. Ltd., Visakhapatnam has detailed the innovations in healthcare industry and the application of electronics for better healthcare products. Mr. Pranav Vempati, Founder and CEO, Makers Hive Pvt. Ltd., Hyderabad explained the procedure for startup registration and getting approvals for business.

Dr. Krovi Rajasekhar, Associate Dean, CIIE, KLEF, has discussed several funding opportunities for innovators, incubation facilities available at KL University, importance given to healthcare sector and public health. Mr. Mukkamala Aditya Sai Swarup, Director, Prakruthika Herbs OPC Pvt. Ltd., Vijayawada, discussed about the strategies for improving the business, utilizing IT tools to gear up the marketing and establishment of a company.

Patrons Dr. L.S.S. Reddy, Vice Chancellor; Dr. N. Venkatram, Pro-VC; Dr. YVSSSV Prasada Rao, Registrar, KLEF and Co-patrons Dr. M. Kishore Babu, Dean MHS; Dr. BJK Singh, Dean R&D; Dr. V.R. Raghuveer, Dean Academics, KLEF have graced the occasion and motivated the participants by enlightening the importance of entrepreneurship across the globe. Chairman Dr. G. Chakravarthi, Principal and Convener Dr. GSN Koteswara Rao, Vice Principal, K L College of Pharmacy addressed the gathering by explaining the importance of innovations in pharmacy and healthcare sectors. Co-chairman Dr. K. Umasankar, Co-convener Dr. A. Rajasekhar Reddy, Organizing Secretary Dr. A. Anka Rao, Jt. Secretary Dr. J. Risya Namrata are also present and addressed the gathering.



Guest Lectures Delivered by Faculty:

- Dr. GSN Koteswara Rao, Vice-Principal, K L College of Pharmacy, KLU has given invited talk on Statistical Quality Control (SQC) at AICTE Sponsored Short Term Training Program (STTP) on 15th June 2021 organized by Annamacharya College of Pharmacy, Rajampet, A.P. on theme Application of QbD and other Computational Tools in Pharmaceutical Product Development, during 14-19 June 2021.



- Dr. GSN Koteswara Rao, Vice-Principal, K L College of Pharmacy, KLU has given invited talk on Modern Teaching Strategies for Current Generation during RIPER Webinar Series on 4th June 2021, organized by Raghavendra Institute of Pharmaceutical Sciences (Autonomous), Anantapur, A.P.



Dr. GSN Koteswara Rao, Vice-Principal, K L College of Pharmacy, KLU has delivered a talk as Speaker on Flipped Classroom during Phase-1 and Phase-2 of one week short term training programme (STTP) on Innovative Pedagogy to Develop and Implement Skills-based Pharmacy Curriculum - A Faculty Perspective, organized by Manipal Academy of Higher Education (MAHE) Deemed to be University.



- Mr Nagaraju Bandaru, Assistant Professor, K L College of Pharmacy, KLU has given invited talk on "Anti-Tobacco Awareness Program" Webinar on 15th June 2021, organized by Center for Extension Activities, KLEF
- Mr Nagaraju Bandaru, Assistant Professor, K L College of Pharmacy, KLU has given invited talk on "Anti-Tobacco Awareness Program" Webinar on 16th June 2021, organized by Youth Red Cross, KLEF

Excellence/Appreciations/Achievements:

- Dr. GSN Koteswara Rao, Associate Professor has awarded with Best Teacher Award for the academic year 2019-20 by Koneru Lakshmaiah Education Foundation.



- Dr. GSN Koteswara Rao, Vice-Principal, K L College of Pharmacy, KLU has received certificate of excellence in Machine Learning course offered by NASSCOM FutureSkills Prime and Analytica LEAPS.



- Dr. GSN Koteswara Rao, Vice-Principal, K L College of Pharmacy, KLU has received BEST SENIOR FACULTY AWARD from Novel Research Academy.



- Dr. GSN Koteswara Rao, Vice-Principal, K L College of Pharmacy, KLU has received the highest research incentives in Pharmacy stream from KLU for the academic year 2020.
- Dr. GSN Koteswara Rao, Vice-Principal, K L College of Pharmacy, KLU has received a consultancy project grant of worth Rs. 2,00,000/-
- Dr. GSN Koteswara Rao, Vice-Principal, K L College of Pharmacy, KLU has rendered services as Chairperson for the Scientific Session in a two-day UGC sponsored National Seminar organized by Acharya Nagarjuna University College of Pharmaceutical Sciences. He also participated as Guest of Honor for Valedictory Function.



- Dr. Rajasekhar Reddy Alavala, Associate Professor has awarded with Best Teacher Award for the academic year 2019-20 by Koneru Lakshmaiah Education Foundation.



- Dr DSNBK Prasanth received a Certificate of Excellence in Reviewing manuscripts by Current Journal of Applied Sciences and Technology.



- Dr A Anka Rao, Vice-Principal, K L College of Pharmacy, KLU has received BEST SENIOR FACULTY AWARD from Novel Research Academy.



- Dr A Anka Rao, Vice-Principal, K L College of Pharmacy, KLU has received BEST SENIOR FACULTY AWARD from Novel Research Academy.



Books/Book chapters

- Dr. GSN Koteswara Rao, Chapter 13: Alginate-based hydrogel systems for drug releasing in wound healing. 2020; 323-358 In *Alginates in Drug Delivery*, Elsevier Inc. Academic Press. ISBN: 978-0-12-817640-5
- Dr. GSN Koteswara Rao, Chapter 15: Use of alginates for drug delivery in dentistry. 2020; 387-404 In *Alginates in Drug Delivery*, Elsevier Inc. Academic Press. ISBN: 978-0-12-817640-5
- Dr. GSN Koteswara Rao, Chapter 10: Applications of electrospun materials in gene delivery. In *Electrospun Materials and Their Allied Applications*, Wiley Scrivener Publishing LLC. ISBN: 978-1-119-65503-9.
- Mr Nagaraju Bandaru, Chapter 9: Pharmacology: Alternative to Experimental Animals, *Recent Advances in Pharmaceutical Sciences*, Akinik Publsihers, new Delhi

Publications:

1. Umasankar Gorla, GSN Koteswara Rao, Kulandaivelu Umasankar, Alavala Rajasekhar Reddy, Panda Siva Prasad, Lead Finding from Selected Flavonoids with Antiviral (SARS-CoV-2) Potentials against COVID-19: An in-silico Evaluation, *Combinatorial Chemistry & High Throughput Screening*, 2021; 24(6): 879-890. <https://doi.org/10.2174/1386207323999200818162706> (Impact factor: 1.129)
2. Uma Sankar Gorla, G. S. N. Koteswara Rao, Umasankar Kulandaivelu, Rajasekhar Reddy Alavala, Siva Prasad Panda and Rajkiran Kolakota, Acute, Sub-Acute and Genotoxicity Assessment of *Cocculus hirsutus* Hydroalcoholic Leaf Extract in Wistar Rats, *Toxicology International*, 28(2), 177-186, 2021, <https://doi.org/10.18311/ti/2021/v28i2/26814>
3. U Praveen Kumar, GSN Koteswara Rao, A Rajasekhar Reddy, K Umasankar & Y Vangoori, Protective effect of *Acampe praemorsa* (Roxb.) Blatt. & McCann against oxidative stress, *Plant Science Today*, 2021, 8(3), 552–558. <https://doi.org/10.14719/pst.2021.8.3.1207>
4. Bikas Ranjan Jena, Siva Prasad Panda, Umasankar Kulandaivelu, Rajasekhar Reddy Alavala, G.S.N.Koteswara Rao, Suryakanta Swain, Gurudutta Pattnaik, Debashish Ghose, A QbD Driven Development of a RP-HPLC Method for the Quantitation of Abiraterone acetate for its Pharmaceutical Formulations in Presence of Degradants, *Turkish*

Journal of Pharmaceutical Sciences, 2021 <https://doi.org/10.4274/tjps.galenos.2021.74150>.

5. B.Yerni Kumar, G. Chakravarthi, G.S.N.Koteswara Rao, K. Umasankar, A. Rajasekhar Reddy, A. Narayana Rao, Importance of Pharmacists as a Front Line Warrior in Improving Medication Compliance in Covid 19 Patients, *Indian J Pharm Sci* 2021;83(2):393-396 <https://doi.org/10.36468/pharmaceutical-sciences.787> (Impact factor: 0.721).
6. Jagadeeshwar Kolguri, Rajasekhar Reddy Alavala, Subhakar Raju R, Umasankar Kulandaivelu, GSN Koteswara Rao, Chakravarthi G, Neuroprotective and Nootropic Evaluation of *Myristica Malabarica* on Diabetes Induced Cognitive Impairment in Experimental Animals: Promising for Controlling the Risk of Alzheimer's Disease, *Thai Journal of Pharmaceutical Sciences*, 2021 (TJPS-2021-0011.R1).
7. Prasanth DSNBK, Aminabee Sk, Lakshmana Rao, Chakravarthi Guntupalli, Rajasekhar Reddy Alavala, Umasankar Kulandaivelu, GSN Koteswara Rao, Rajeshwari Pasupula, Inhibitory Effects of *Manosa Alliacea* in Freund's Adjuvant Arthritis on Inflammatory Markers and its Confirmation by In-Silico Strategy, *Thai Journal of Pharmaceutical Sciences*, 2021 (TJPS-2021-0103.R1)
8. Y. K. Bokam, C. Guntupalli, S. N. K. R. Gudhanti, R. R. Alavala, K. N. Killari, U. Kulandaivelu, Roja Rani Budha Prospective Study of Irrational Prescribing in an Indian Tertiary Care Hospital: Omission of Prescription and Inappropriate Prescription in a Multidisciplinary Unit, *Indian J Pharm Sci* 2021;83(2):389-392. <https://doi.org/10.36468/pharmaceutical-sciences.786> (Impact factor: 0.721).
9. Rajesh Kumar Chawla, G.S.N. Koteswara Rao, Umasankar Kulandaivelu, Siva Prasad Panda and Rajasekhar Reddy Alavala, A Selective and Sensitive Method Development and Validation of 1,1-Dimethyl-3-HydroxyPyrrolidinium Bromide Impurity in Glycopyrrolate Oral Solution by Liquid Chromatography–Tandem Mass Spectroscopy, *Journal of Chromatographic Science*, 2021, 1–10, bmab003, <https://doi.org/10.1093/chromsci/bmab003> (Impact factor:1.28).
10. Jagadeeshwar K, Umasankar Kulandaivelu, Rajasekhar Reddy Alavala, GSN Koteswara Rao, Siva Prasad Panda, Evaluation of Anti-obesity of *Pithecellobium dulce* against High Fat Diet

- Induced Obesity in Experimental Animals, Research Journal of Pharmacy and Technology 14(3): March 2021, 1447-1452. <https://doi.org/10.5958/0974-360X.2021.00258.4> (Impact factor: 0.467)
11. Balaji Maddiboyina, Vikas Jhawar, Prasanna Kumar Desu, Sivaraman Gandhi, Ramya Krishna Nakkala, Sima Singh. Formulation and Evaluation of Thermosensitive Flubiprofen In Situ Nano Gel for the Ocular Delivery. Journal of Biomaterial Science, Polymer Edition. 2021 (Taylor & Francis: Impact Factor: 2.66). <https://doi.org/10.1080/09205063.2021.1927460>
 12. Akanksha R. Singh, Prasanna Kumar Desu, Ramya Krishna Nakkala, Vanitha Kondi, Sushma Devi, Rajani B. Athawale, Prashant Kesharwani. Nanotechnology approached applied to Nutraceuticals, Drug Delivery and Translational Research (Springer, SCIE, IF – 3.041) <https://doi.org/10.1007/s13346-021-00960-3>
 13. Prasanna Kumar Desu, G SN Koteswara Rao, Maddiboyina B, Vanitha K, R Anusha. 3D Printing Technology in Pharmaceutical Dosage forms: Advantages and Challenges. Current Drug Targets. 2021 Jan. DOI: 10.2174/1389450122666210120142416. (Bentham Science, SCIE, IF – 3.465)
 14. Dr. GSN Koteswara Rao et al., Hepatoprotective activity of *Acampe praemorsa*, Journal of Pharmaceutical Research International, 2021; 33(30A): 162-168
 15. Dr. GSN Koteswara Rao et al., COVID: an overview of their structure, replication, diagnosis, drug targets, new reported drugs and vaccine strategy, International Journal of Pharmaceutical Research, 2020;12(4)
 16. Dr. GSN Koteswara Rao et al., A computational role in identifying promising therapeutic agents of hydroxychloroquine analogues against SARS-CoV-2, Molecular Simulation, 2021 Feb.
 17. Dr. GSN Koteswara Rao et al., Development and validation of a headspace gas chromatographic (HS-GC) method for determination of residual solvents in nitazoxanide API. International Journal of Research in Pharmaceutical Sciences, 2021; 12(2)
 18. Dr. GSN Koteswara Rao et al., Antidiabetic activity, alpha-amylase, and alpha-glucosidase inhibitory effect of *Tradescantia spathacea* Swartz extract, International Journal of Research in Pharmaceutical Sciences, 2021; 11(SPL4);1594-1599
 19. Dr. GSN Koteswara Rao et al., Multidose studies in rabbits for determining pharmacokinetic and pharmacodynamic interactions of gliclazide with nutraceutical., International Journal of Pharmaceutical Research, 2021; 13(1): 3876-81
 20. Dr. GSN Koteswara Rao et al., Larvicidal activity of isolated fatty acids from *Senegalia rugata* pods, International Journal of Pharmaceutical Research, 2021; 13(1)
 21. Dr. GSN Koteswara Rao et al., Preparation and evaluation of raft forming systems of furosemide, World Journal of Pharmaceutical Sciences, 2021; 9(4): 34-39.
 22. Prasanth D, Murahari M, Chandramohan V, Bhavya G, Lakshmana Rao A, Panda SP, et al. In-silico strategies of some selected phytoconstituents from *Melissa officinalis* as SARS CoV-2 main protease and spike protein (COVID-19) inhibitors. Mol Simul. 2021:1-14.
 23. Arya Lakshmi Mariseti, DSNBK Prasanth, Gana Manjusha Konepudi, Gangarao Battu. In vivo and in-silico anti-arthritis studies of chlorogenic acid from the rhizome of *lasia spinosa* (L.) Thwaites (Araceae). Thai Journal of Pharmaceutical Sciences (Inpress).
 24. Prasanth DSNBK, Siva Prasad Panda, Lakshmana Rao Atmakuri, G SN Koteswara Rao, Alla Narayanarao, Teja Nayudu, Sandhya Tera, Bhargavi Koti, Likhith Kolla, Monika Chigurupati, Praveena Tata, Purnadurganjali Chittiprolu. In-silico Strategies of Some Selected Phytoconstituents from *Rhus succedanea* as SARS CoV-2 Main Protease and Spike protein (COVID-19) Inhibitors. Iranian Journal of Pharmaceutical Sciences (Accepted).
 25. Jagadeeshwar K, Umasankar Kulandaivelu, Rajasekhar Reddy Alavala, GSN Koteswara Rao, DSNBK Prasanth, Nagaraja Sreeharsha. Evaluation of Anti-obesity of *Pithecellobium dulce* against high fat diet Induced Obesity in Experimental Animals. Research J. Pharm. and Tech. 14(3): 1447-52.
 26. Prasanth D.S.N.B.K., Aminabee Sk, Lakshmana Rao, Chakravarthy Guntupalli, Rajasekhar Reddy Alavala, Umasankar Kulandaivelu, G.S.N. Koteswara Rao, Rajeshwari Pasupula. Inhibitory effects of *Manosa alliacea* in Freund's adjuvant arthritis on inflammatory markers and its confirmation by In-silico strategy. Thai J Pharm, sci. (Accepted).
 27. Dr A Anka Rao, Dr GSN Koteswara Rao, B Naga Raju, G Uma Sankar, Swarupa Aravapalli, Design and Evaluation of Acyclovir Niosomes, Research Journal of Pharmacy and Technology, 2021:14(8).



LIST OF ACHIEVEMENTS 2020-21

Sl. NO.	NAME OF THE STUDENT	ID NO	BRANCH	YEAR	EVENT	LEVEL	PLACE	DATE & VENUE
1	D.Bala Chandra Prasad	194240001	MA English	II	Chess	International	I	PNWCC G45 Open Online Chess Tournament Organized by Pacific North West Chess Centre, USA on 03-04-2021
2	D.Bala Chandra Prasad	194240001	MA English	II	Chess	International	I	PNWCC G45 Open Online Chess Tournament Organized by Pacific North West Chess Centre, USA on 10-04-2021
3	D.Bala Chandra Prasad	194240001	MA English	II	Chess	International	II	PNWCC G25 Open Online Chess Tournament Organized by Pacific North West Chess Centre, USA on 11-04-2021
4	G Hari Surya Bharadwaj	2000090050	CSE	I	Chess	International	XV	40th Pawn Marchers Arena Online Chess Tournament Organized by Sasaberserkking on 09-05-2021.
5	Bommini Mounika Akshaya	2000030131	CSE	I	Chess	International	II (Best Female Award)	15th Diagonally Challenged Open (Fide Rating based) Online Blitz Swiss Chess Championship Organized by Diagonally Challenged on 21-05-2021.
6	D.Bala Chandra Prasad	194240001	MA English	II	Chess	International	I	PNWCC Expert Plus G75 Online Chess Tournament Organized by Pacific Northwest Chess Centre (USA) on 23-05-2021

7	D.Bala Chandra Prasad	194240001	MA English	II	Chess	International	I	Swedish Rapid Chess Battle International Online Chess Tournament Organized by Swedish Chess Federation on 26-05-2021
8	G Hari Surya Bharadwaj	2000090050	CSE	I	Chess	International	V	Lockdown International Arena International Chess Tournament Organized Lockdown International Arena on 30-05-2021
9	D.Bala Chandra Prasad	194240001	MA English	II	Chess	International	I	Sherbrook Open Online Chess Tournament Organized by Ovation Echiqueenne (Canada) from 28-05-2021 to 30-05-2021
10	D.Bala Chandra Prasad	194240001	MA English	II	Chess	International	IV	Washington Open Blitz Championship Organized by Washington Chess Federation (USA) on 31-05-2021
11	D.Bala Chandra Prasad	194240001	MA English	II	Chess	International	II	PNWCC G45 Open Online Chess Tournament Organized by Pacific North West Chess Centre, USA on 12-06-2021
12	D.Bala Chandra Prasad	194240001	MA English	II	Chess	International	I	PNWCC Expert Plus G75 Online Chess Tournament Organized by Pacific Northwest Chess Centre, USA on 13-06-2021
13	G.Sai Sumanth J.B. Abhishek D.Shiva Ramm B.Raja Amarendra	1800541199 170030466 2000560149 2000550039	BBA CSE BBA B.Com	III IV I I	Roller Hockey	National	II	58th Senior National Roller Sports Championship-2021(Inline Hockey) held at Chandigarh, Punjab from 01-04-2021 to 10-04-2021
14	S.Sridhar Reddy	190520045	B.com	II	Taekwondo (Kyorugi U-68)	National	II	VISW Telangana State Taekwondo Championship (Boys & Girls) 2020-21 Organised by Vetarans India Sports Wing Telangana Chapter held at Sarornagar Indoor Stadium Hyderabad from 03-04-2021 to 05-04-2021.
15	K. Rohith Varma	180570047	BA- IAS	III	Taekw-ondo	National	II	

16	G Hari Surya Bharadwaj	2000090050	CSE	I	Chess	National	IX	1st Master Brain Open Online Chess Championship Organized by lichess.org on 08-05-2021
17	G Hari Surya Bharadwaj	2000090050	CSE	I	Chess	National	I	16th Intermediate Tactics TMT Organized by by Girl Chess Online Team on 10-05-2021
18	Bommini Mounika Akshaya	2000030131	CSE	I	Chess	National	IX	Infinity 2nd Chess 960 Arena National Chess Tournament Organised by lichess.org on 13-05-2021
19	Bommini Mounika Akshaya	2000030131	CSE	I	Chess	National	17th	Blitz Arena National Chess Tournament Organized by RCA on 13-05-2021
20	Bommini Mounika Akshaya	2000030131	CSE	I	Chess	National	12th	14th Chess Warriors National Online Chess Tournament Organized by Chess Warriors TMT on 16-05-2021
21	Y.Seyi Swathhy	190031782	CSE	II	Chess	National	II	Bengal Tiger 2007th Swiss TMT Online Open Swiss Chess Tournament Organized by Bengal Tiger on 19-05-2021.
22	Y.Seyi Swathhy	190031782	CSE	II	Chess	National	VIII	Bengal Tiger 2008th Swiss TMT Online Open Swiss Chess Tournament Organized by Bengal Tiger on 19-05-2021.
23	Bommini Mounika Akshaya	2000030131	CSE	I	Chess	National	I	FMCC 58th Blitz Tournament Arena National Online Chess Tournament on 21-05-2021.
24	G Hari Surya Bharadwaj	2000090050	CSE	I	Chess	National	VI	1st Chessparedos Chess Arena National Chess Tournament Organized by 1st Chessparedos Team on 22-05-2021.
25	G Hari Surya Bharadwaj	2000090050	CSE	I	Chess	National	III	2nd TSCT Arena National Chess Tournament Organized by TSCT Arena on 29-05-2021.
26	Y.Seyi Swathhy	190031782	CSE	II	Chess	National	VII	

27	Y.Seyi Swathhy	190031782	CSE	II	Chess	National	II	1st Chess Battle Arena National Level Chess Tournament Organized by Chess Battle Arena 30-05-2021.
28	G Hari Surya Bharadwaj	2000090050	CSE	I	Chess	National	VIII	
29	Y.Seyi Swathhy	190031782	CSE	II	Chess	National	IX	TSCT Tournament Arena National Chess Tournament Organized by Chess_Crusher008 on 01-06-2021.
30	Bommini Mounika Akshaya	2000030131	CSE	I	Chess	National	VI	AICF National Under 18 Girls ONLINE Chess Championship 2021 Organized by All India Chess Federation from 10-06-2021 to 12-6-2021.
31	D.Bala Chandra Prasad	194240001	MA English	II	Chess	State	I	1st Rajeev Chess Club AP Open Online Chess Tournament Organized by Andhra Pradesh Chess on 09-05-2021.
32	G Hari Surya Bharadwaj	2000090050	CSE	I	Chess	State	VII	2nd AP Open Online Chess Tournament (Men and Women) Organized by Andhra Pradesh Chess on 16-05-2021.
33	Bommini Mounika Akshaya	2000030131	CSE	I	Chess	State	I	
34	Bommini Mounika Akshaya	2000030131	CSE	I	Chess	State	I	4th AP Open Online Chess Tournament Organized by Andhra Pradesh Chess Association on 23-05-2021.
35	Bommini Mounika Akshaya	2000030131	CSE	I	Chess	State	I	AP (Under-18) Girls Chess Championship-2021 Organized by Andhra Chess and Tornelo.com on 04-06-2021.
36	Bommini Mounika Akshaya	2000030131	CSE	I	Chess	District	IV	Guntur District Senior Chess Championship-2021 Organized by Chess Association of Guntur District held at Vignan School, Guntur on 16-04-2021

Report on 7th International Day of Yoga Celebrations On 21st June 2021

K L (Deemed to be University) Guntur, Andhra Pradesh Organized the 7th International Day of Yoga on 21st June 2021 from 8:30 AM to 10:30 AM in the virtual mode at Department of Physical Education with great zeal and enthusiasm. Due to COVID-19 with the number of participants Department celebrated the 7th International Day of Yoga. Mr. A. Rajarao and Team of Dattakriya Yoga International Yoga Centre, AP and TS states and the Special Guest for this program is our Honorable President Sri. Koneru Satyanarayana Garu addressed the participants about the aims and objectives of the International Day of Yoga. On this occasion, students, teaching and non-teaching staff were present in the programme and participated in the Yoga practice session conducted from 8:30 AM to 10:00 AM during 17th to 20th June 2021 in virtual mode. Yoga Team has conducted yoga session as per the directions of Govt. of India, Ayush Department. They demonstrated the different Asanas Pranayama and Meditation, and also explained the importance of various asanas for healthy lifestyle. Thereafter, the Instructors through the light on the importance of Yoga Day and emphasized each and everyone to make the Yoga part in their life in the present situation as all over the world suffering from COVID-19. These asanas will improve the immunity power and self confidence. Department of Physical Education said that the university is conducting this event on regular basis due its health benefits and celebrating International Day of Yoga for the 7th consecutive year by the direction of UGC.



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