

# **UNIVERSAL COLLEGE OF ENGINEERING & TECHNOLOGY**

**Dokiparru, Medikondur (Md), Guntur (Dist)**

(Affiliated to JNTU Kakinada and Approved by AICTE, New Delhi)

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## **International Conference on Management, Engineering, Science and Humanities (ICETESM-2022)**

**18<sup>th</sup> -19<sup>th</sup> February 2022**

**In Association With:**



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**International Conference on Management,  
Engineering, Science and Humanities  
(ICETESM-2022)**

**18<sup>th</sup> -19<sup>th</sup> February 2022**

**Editors**

Dr. Ch Kesava Reddy

Dr. P Jeevan Pradeep

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## *Preface*

Conference World and AR Research Publication is fast growing group of academicians in Engineering, Sciences and Management. AR Research Publication is also known for fast reply and zero error work. Conference world has organized a various conferences at renowned places namely Delhi University; New Delhi, Jawaharlal Nehru University; New Delhi, PHD Chamber of Commerce and Industry New Delhi, YMCA New Delhi, India International Centre New Delhi Sri Venkateswara college of Engineering and Technology, Andhra Pradesh, Dhananjay Mahadik Group of Institutions (BIMAT), Shivaji University, Maharashtra, Vedant Engineering Kota and many more places across the country.

We are very pleased to introduce the proceedings of the International Conference on Management, Engineering, Science and Humanities (MESH -2022) As for previous conferences, the theme was the link between the information provided by conference world and the use made of this information in assessing structural integrity. These were the issues addressed by the papers presented at the conference. The level of interest in the subject matter of the conference was maintained from previous events and over 42 suitable papers were submitted for presentation at the conference.

Papers were well represented in the conference to arouse a high level of international interest. Three countries were represented in the final program from Europe, North America and Asia. In the event, the conference was highly successful. The presented papers maintained the high promise suggested by the written abstracts and the program was chaired in a professional and efficient way by the session chairmen who were selected for their international standing in the subject. The number of delegates was also highly gratifying, showing the high level of international interest in the subject. This is also indicated by the large number of countries, 04 represented by the delegates. This Proceeding provides the permanent record of what was presented. They indicate the state of development at the time of writing of all aspects of this important topic and will be invaluable to all workers in the field for that reason. Finally, it is appropriate that we record our thanks to our fellow members of the Technical Organizing Committee for encouraging participation from those areas. We are also indebted to those who served as chairmen, without their support, the conference could not have been the success that it was. We also acknowledge the authors themselves, without whose expert input there would have been no conference. Their efforts made a great contribution to its success.

## **About the College**

### **Vision**

To be one of the most preferred Institute for Engineering education and to be an Institute here innovation, development, and discipline are assured and sought after.

### **Mission**

Developing the Institution into a student-centric by imbibing innovative, experiential and lifelong learning and to inculcate the ethical value system that takes on comprehensive research and development and to instill a unique culture of continuous learning that imparts accountability and responsibility in partnership with stakeholders.

Universal College of Engineering & Technology (UCET) is affiliated to JNTU Kakinada, approved by AICTE and recognized by University Grant Commission (UGC), India under section 12(f) of its act. UCET is a NAAC Accredited Institution. Its campus tucked in a serene lush green and tranquil ambience at Dokiparru, Medikondur (Md), Guntur (Dist). It is only 1 km away from Perecharla towards Narasaraopet (Guntur to Kurnool highway). The campus spreads over 15.47 acres of picturesque landscape and it's an ideal and congenial place for academic excellence.

The college is furnished with highly sophisticated state of the art laboratories, fully ventilated class rooms, hygienic canteen, indoor and outdoor play grounds to make the students fulfill their intellectual pursuits and to equip themselves with all round development.

## **About the Conference**

The conference is aimed to bring together innovative academics and industrial experts in the field of Science, Engineering and Technology to a common forum.

National conference on Recent Innovations in Science, Engineering and Technology addresses the rapid strides and technological advancements currently witnessed in the fields of Science, Engineering and Technology.

The conference aspires to exhibit the technical excellence of budding technocrats, research scholars, representatives from the academia and industry.

## MESSAGE FROM CHAIRMAN 'S DESK



First and foremost, I want to thank all the organizers of International Conference on Management, Engineering, Science and Humanities (ICETESM-2022) for inviting me to address and officiate this conference. I am happy to note that ICETESM-2022 as provided a platform to bring together scholars of research, postgraduate students and industrial people to with this platform, ICETESM embarked complete process of making new discoveries and then translating them into products and services for the marketplace is only made possible with people like all of you. I would like to congratulate ICETESM-2022 organizers for the achievement of collecting numerous papers for this conference. Submission received from local universities, industrial companies and different countries is a great achievement for Universal College of Engineering and Technology. UCET's main challenge is to remain competitive and relevant by offering high quality technical academic programmes and research activities, focusing on its niche areas.

New knowledge and findings cannot be generated without any research and development activities. These efforts will undoubtedly generate lots of interesting results and new knowledge. On behalf of UCET, I would like to express my appreciation to all the committee members of ICETESM - 2022 for their hard work and relentless effort. Without their commitment and contributions, this event would not have been possible and successfully delivered right this time.

**Most Rev. Dr. Ch. Bhagyaiah,**

Chairman, Universal College of Engineering and Technology &  
President of the Diocese of Guntur Society

## MESSAGE FROM SECRETARY & CORRESPONDENT



I am extremely delighted to note that Universal College of Engineering and Technology has organized an International Conference on Management, Engineering, Science and Humanities (ICETESM-2022) and also bringing out a “conference proceedings” to highlight the recent research outcomes in the related field. It is with much delight that I pen down a few words for the conference proceedings which is a tremendous effort of ICETESM team and UCET. This ICETESM - 2022 is organized keeping in mind the latest innovations and developments and it has provided participants with minute details much relevant for science of the times.

Our conference served as a global platform for various forms of knowledge sharing irrespective of differences in time and geography. I convey my warm greetings and felicitations to the team for their laudable effort to the participants extend my best wishes for the success of the conference. Hope this mission will be carried out with even more dynamism in the years ahead.

**Rev. Fr. Malapaty Marreddy,**

Secretary & Correspondent

Universal College of Engineering and Technology.

## MESSAGE FROM ADMINISTRATOR & TREASURER



It gives me immense pleasure that Universal College of Engineering and Technology has organized an International Conference on Management, Engineering, Science and Humanities (ICETESM-2022). ICETESM provided an opportunity for meeting of International Researchers, Engineers, Scientists and specialists in the various research and development fields of Engineering, Technology, healthcare, education etc.. The conference offered a premise for global experts to gather and interact intensively on the topics of Electrical and Electronics, Electronics and Communication, Computer Science and Information Technology, business practices, social issues etc. I am privileged to say that this conference has offered suitable solutions to the global issues. The success of this Conference is solely on the dedication and efforts of innumerable people who started working on the preparations for almost a year in many ways to make this Conference become a reality. Eventually I express my special thanks and appreciation to all. I wish ICETESM 2022 all the best for its success.

**Rev. Fr. V. Vijayabhaskar Reddy**

Administrator & Treasurer,  
Universal College of Engineering and Technology

## MESSAGE FROM PRINCIPAL



The conference titled International Conference on Management, Engineering, Science and Humanities (ICETESM-2022) provided a platform for discussions on various technical topics related to engineering as well as management, science and technology. This was a conference of international significance. The proceedings represent scholarly work of advanced and innovative thinkers and educators from around the world. It is felt that it is only through the exchange of information that one can hope to keep up with the rapidly changing world around us. I wish all the delegates, a great educational and informative experience at the conference. My best wishes to the organizers of the conference. The idea behind this conference was to help and motivate researchers to carry forward their work to the next level. I anticipate that these proceedings would be of immense value and will be definitely useful to researchers in their practice or thinking process. This collection will also offer a window for new perspectives and directions in the respective horizons.

**Dr. Ch. Kesava Reddy,**

**Principal**

Universal College of Engineering and Technology



## MESSAGE FROM CONVENOR



It is quite gratifying to note that the Universal College of Engineering and Technology hosted International Conference on Management, Engineering, Science and Humanities (ICETESM-2022), in association with conference world on 18th and 19th February, 2022. Organizing such an event at this point of time reinforces our objective of developing an environment for the exchange of ideas towards technological developments.

This conference enabled to deliberate on current issues of national and international relevance. There have been unprecedented numbers of quality papers that are presented in the conference. This conference has provided an affable environment for the researchers and academicians to freely exchange the views and ideas with others. I convey my warm greetings and felicitations to the organizing committee and the participants and extend my best wishes for the success of the conference.

**Dr P Jeevan Pradeep,**

Convener, Universal College of Engineering and Technology

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**Hon. Chief Guest****Dr. M.Manzoor Hussain**

Professor, Department of Mechanical Engg,  
Registrar, JNTUH, Hyderabad Registrar

**Keynote Speakers****Dr. Mohammad Nizamuddin Inamdar**

Associate Professor, Department of Mechanical Engineering.  
Lincoln University College, Malaysia

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Associate Professor, Department of Applied Sciences  
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Assistant Professor & Head - Research Cell,  
Buddha Institute Of Technology, Gorakhpur

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Hassan District (Karnataka), India

**All papers will undergo a double blind peer review process and the criteria for acceptance will be based on quality, originality, technical content and relevance.**

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Total 115 papers were received for the conference and 42 papers were shortlisted by the committee.

1. Accepted papers will be published in the peer reviewed international journals having ISSN & High Impact factor.
2. Selected Papers will be published in the UGC Care listed international journals having ISSN & High Impact factor.
3. Few very good quality Papers will be published in the Scopus indexed journal having ISSN & High Impact factor.
4. Author will get certificates, one for paper publication in Journal other for paper presentation in conference as per their choice
5. All the papers of the conference will be published in the conference proceeding with ISBN.
6. All the accepted and presented/Non Presented papers will be indexed in Google scholar & IDIIF.

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# **International Conference on Emerging Trends in Engineering, Science and Management (ICETESM-2022)**

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## **INDEX**

<b>S. No.</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Author</b>	<b>Page No.</b>
1	U1002	DEEP LEARNING METHODOLOGIES AND APPLICATIONS IN ARTIFICIAL INTELLIGENCE: A REVIEW	Sneha P Khedekar, Dr. Sunil B Thakare	01-14
2	U1015	A STUDY ON THE STUDENT MOTIVATION TO DEVELOP COMMUNICATION SKILLS WITH RESPECT TO THE STUDENTS OF SRMIST	M. Booma Kumari, Dr. Monika Nair	15-26
3	U1038	AWARENESS AND PRACTICE ON BIOMEDICAL WASTE MANAGEMENT AMONG HEALTHCARE PROVIDERS IN PILAKHUWA, HAPUR DISTRICT, INDIA	Hassan Garba Abdullahi, Ismaila Ibrahim Yakudima, Garima Awasthi	27-38
4	U1039	A Study of changes in E-commerce Sector in India due to COVID-19 Pandemic.	Dr. Pritichhaya Tamboli	39-42
5	U1040	Existence And Non-Existence Of Eccentricity Cordial Labeling Of Graphs	P. Manisha Rebecca, G. Priscilla Pacifica	43-50
6	U1041	A study on parent's insight on emergent drift of private tuition classes in India	Dr. Mitali Sharad Gupta	51-56
7	U1046	V4-Vertex Magic labeling for Bloom Graph	S.Kavitha, V.L.Stella Arputha Mary	57-64
8	U1050	Study for the Development of Thermal Insulated Sustainable Green Material for Roof Top	Mohammad Irshad Ansari, Dr. Ramakant Agrawal	65-72
9	U1051	STUDY AND ANALYSIS OF THE IMPACT OF MORINGAOLEIFERA, ACTIVATED CHARCOAL AND ALUM POWDER ON MUDDY AND DUSTY RAIN WATER FOR NEW BUILDING DESIGN RAIN WATER HARVESTING	Jesica Chandrakar, Dr. Ramakant Agrawal	73-81
10	U1053	Performance Analysis of a System of two dissimilar units using Weibull distribution	Dr. Komaldeep Kaur	82-82
11	U1056	Social Media Marketing Impact on Businesses and Consumers	Zaid Ahmed, Arsal Yoosuf	83-98
12	U1060	Impersonation Attack In MANETS: A Review	J.Srinivasan	99-102

13	U1064	A predictive maintenance approach by Case Study for condition monitoring through vibration analysis of gearbox and bearing used in coal mines	Suraj S Tiwari, P K Soni	<b>103-113</b>
14	U1069	Optimal location of substation in radial distribution system	Meena Kumari	<b>114-121</b>
15	U1071	A-Review on Smart Grid based Renewable Energy Charging Station for E-Vehicle	Surender Singh	<b>122-126</b>
16	U1042	SPACE-BASED SOLAR POWER GENERATION & DISTRIBUTED NETWORK	J.S.Srinivasa Raju, Puppala Pavan Nagendra, Chirra Kasi Viswanadha Reddy	<b>127-140</b>
17	U1067	Prognostication of Diabetic Retinopathy using Transfer Learning of AlexNet	D. Umamaheswari, Dr. N. Nachammai, Dr. S. Anita	<b>141-151</b>
18	U1068	A Systematic Assessment of Handwritten Digit Recognition using Machine and Deep Learning Algorithms	A.Jothi , R.Geethamani, I.Ravi	<b>152-158</b>
19	U1073	Completely Automated Framework for recognizing Automobile Driver Sleepiness/Drowsiness in Real-time	Lakshita Sehgal, Anshal Aggarwal	159-166
20	U1074	Online Education during Covid-19 Pandemic	Ms. Rimma Quadros	167-173
21	U1075	DESIGN AND IMPLEMENTATION OF HIGH SPEED MODIFIED B.K TREE ADDERARCHITECTURE	R.Bhuvaneswari, K.Baburao	174-181
22	U1076	DESIGN AND IMPLEMENTATION OF IOT BASED AIR QUALITY AND HUMIDITY MONITORING SYSTEM	N.Satyavathi, SK. MD. Shareef	182-190
23	U1077	Design Of A Wearable Health Monitoring System Using Wearable Sensors	D. Deva Japhanya, S. Ram Kumar	191-198
24	U1078	DESIGN A HIGH PERFORMANCE MEMORY COMPUTING WITH DUAL ADDRESS SRAM ARCHITECTURE	Kondaveeti. Mohini, SK.Nannu Saheb	199-204
25	U1081	Study of Different Types of Dampers at Different Location used in High Rise Rigid Structure	Mahesh Mohan Pardeshi, Dr. G. Maniknandan, Dr. Kapil Malviya	205-214
26	U1082	A Study of Heavy Metal Removal by Adsorption by Kinematic Adsorption and atomic absorption spectrometry	Arshi khan, Dr. Pankaj Singh, Dr. Kapil Malviya	215-219
27	U1083	Physical Activity And Diabetic Complications Among Type 2 Diabetic Patients In Sambalpur, Odisha	Trupti Pradhan, Dr. Chandrashree Lenka	220-221
28	U1086	Gap Coupled Patch GSM Based Microstrip Antenna	Pragati Verma, Navendu Nitin, Anil Kumar	222-228
29	U1087	Temporal Information Classification By Hybrid Deep Learning Framework	Dr. B.Gnana Priya	229-236
30	U1052	Review of Brain Tumor diagnosis techniques with MRI Images	Mr. Shivam Agarwal, Dr. Yogesh Kumar Gupta	237-247
31	U1059	Influence of various alloying elements on the mechanical properties of Magnesium for application in Automobile Industry	Amit Tiwari, Dr. Neeraj Kumar	248-264
32	U1088	Protection From Leakage Power Dissipation Using Sleepy Stacked With Lector Technique	Shaik Chinna Baji, Dr. M.Koti Reddy	265-277

33	U1079	Impedance control of High Speed signals on PCB	Shan A, Dr. V.R. Prakash	278-285
34	U1084	Internet of Things (IoT) in Industry and Other Applications	Dr. T. Kalakumari, Dr. Jehan Murugadhas	286-290
35	U1054	SKIN DISEASE DETECTION AND CLASSIFICATION USING ARTIFICIAL NEURAL NETWORK	S. Gopalakrishnan, Dr.Ebenezer Abishek.B, Dr. A. Vijayalakshmi	291-298
36	U1089	Review on Dipole antenna using Artificial Intelligence	Sonu Rani, Dr. Rachna Mehta	299-315
37	U1090	Review on Microstrip Patch Antenna using Machine learning Techniques	Mahek , Dr. Rachna Mehta	316-334
38	U1094	Academia – Industry Relationship: A Fresh Perspective	Dr. Shamima Akhtar Kamili	335-341
39	U1063	Offensive Web Application Security Framework	Atharva Mangesh Kumar Agrawal, Durga Bhagavan Bolli, ChakkaSai Teja, Tushar Parmanand Budhwani, Lakshitaa Sehgal, Jash Nimesh Dharia, Anshal Aggarwal	342-350
40	U1097	STUDY OF INTERDEPENDENT QUEUEING MODELS WHENARRIVAL RATE IS CONTROLLABLE WITH REVERSE BALKING	Anjali, Dr. Naveen Kumar	351-363
41	U1098	Comparative Study of Teekaas of Ashtaanga Hrudayam w.s.r. to Selected Shlokaas 16 To 24 From Sutrasthana Adhaaya First	Dr. Pratapsinha Randive, Dr. Sarde Rohini Raghunath	364-367
42	U1048	COINTEGRATIONRELATIONSHIPS BETWEEN OFCOVID-19 MONTHLY INFECTED CASES AND DEATHS IN TAMIL NADU STATE	A.Rajarathinam, J.B Anju	368-384
43	U1100	Mathematical Modelling on the Development Rate of Diabetic Patient	Nirmla Mishra, Dr. Arun Kumar, Dr. Ashutosh Sharma	385-389
44	U1101	Performance Analysis of Wheel manufacturing plant	Randhir Singh, Dr. Mahender Singh Poonia	390-394
45	U1104	Transforming the Role of Leadership Styles in influencing Organizational Citizenship Behaviour and Employee Engagement in Indian mid-size IT enterprises: A SEM-BasedApproach	Swati Chawla, Dr. Puja Sareen, Dr. Sangeeta Gupta	395-430