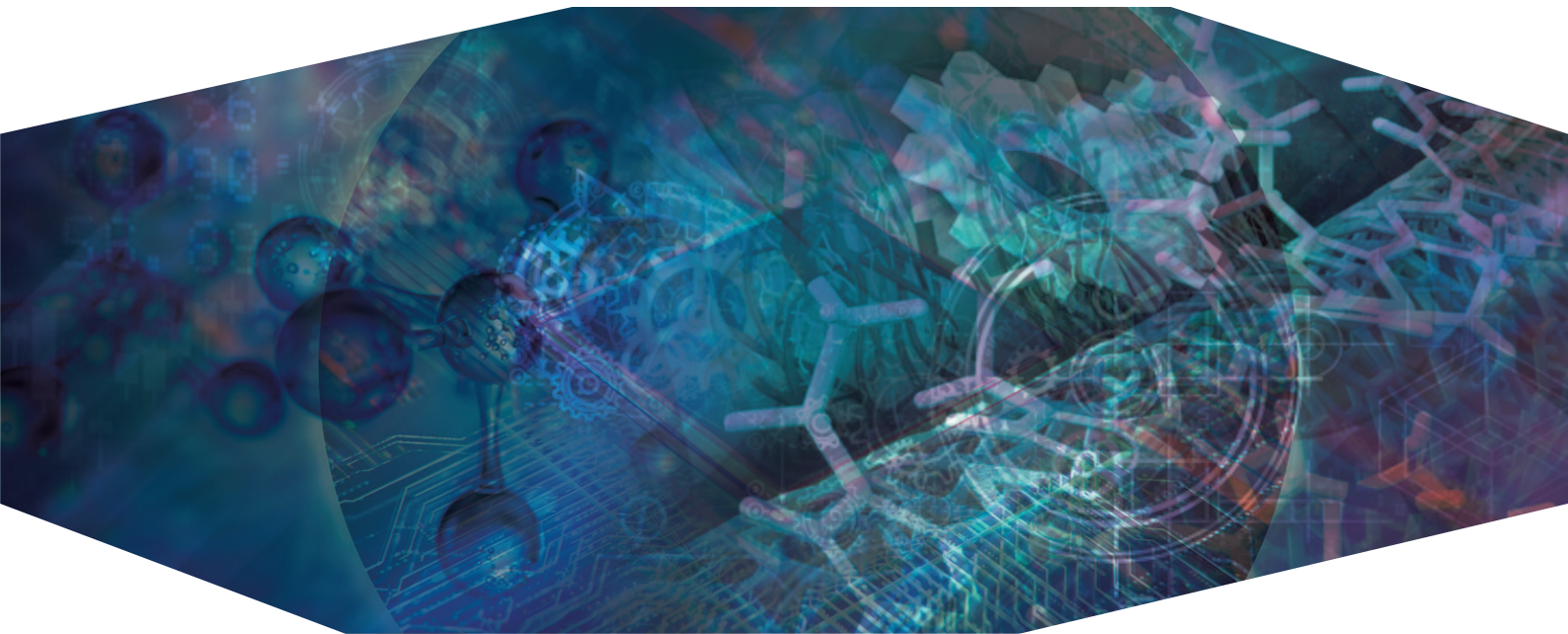


**INTERNATIONAL CONFERENCE ON  
EMERGING TRENDS IN  
MATERIAL SCIENCE & ENGINEERING-2020**

**(ICETMSE-2020)**

**17<sup>th</sup> & 18<sup>th</sup> July 2020**



**Anurag**  
**GROUP OF INSTITUTIONS**

Approved by AICTE & Affiliated to JNTUH

**An Autonomous Institution**

**Accredited by NBA & NAAC 'A' Grade**

**Ghatkesar, Hyderabad, Telangana -500088**

**[www.anurag.edu.in](http://www.anurag.edu.in)**



## ABOUT ANURAG GROUP OF INSTITUTIONS (AGI)

AGI (formerly CVSR College of Engineering) is an autonomous institution established in the year 2002. It is approved by All India Council of Technical Education (AICTE), National Board of Accreditation-India (NBA), National Assessment and Accreditation Council-India (NAAC) with A Grade, and affiliated to Jawaharlal Nehru Technological University, Hyderabad (JNTUH). AGI is also accredited by Tata Consultancy Services. As envisioned by the Gayathri Educational Trust, the institution has aims to promote quality in technical education and build up a new generation of thinkers, innovators and planners in the realm of Science, Technology and Management. There are Under Graduate and Post Graduate programmes such as Bachelor of Technology, Bachelor of Pharmacy, Master of Technology, Master of Business Administration, Master of Pharmacy and Doctorate in Pharmacy courses respectively.

AGI has emerged as a pioneer institute in Engineering, Management and Pharmacy Education. Anurag Group of Institutions has received "Concrete Award" from Ultra Tech Cement Pvt. Ltd. in September 2018. This is the only Group of Institutions where all the programs are accredited by NBA in Telangana State. AGI students are well placed in Multi National Companies and Core Companies like Microsoft, Oracle, TCS, Cognizant, Infosys, IBM, Amazon, HCL, Genpact, Sutherland, TechMahindra, Cyient, Tata Projects, Capgemini, Dr. Reddy's Laboratories Limited, AurobindoPharma Limited, Divis, FMC, Amaraja Batteries, Hetero Drugs Ltd, IICT, ARCI, Avra Laboratories, PAYTM, Just Dial, Byju's etc. Many more students of this college are pursuing their higher studies in USA, UK, Germany, Australia, Canada, Italy, France etc.



## ACHIEVEMENTS

- ⊙ All India 169<sup>th</sup> rank in Engineering in National Institutional Ranking Framework (NIRF)-2019
- ⊙ All India 76-100 Rank Band in Pharmacy in National Institutional Ranking Framework (NIRF)-2019
- ⊙ Ranked 4<sup>th</sup> Best Engineering College in Telangana with AAA+ Rating by Careers360-2019
- ⊙ Best Engineering Education Award 2019 by CIMSME
- ⊙ Times of India Rankings-2019
  - ⊙ Ranked 49<sup>th</sup> Best Engineering College in India
  - ⊙ Ranked 7<sup>th</sup> Best Engineering College in Telangana
  - ⊙ Ranked 3<sup>rd</sup> Best Engineering College in Telangana in 'Infrastructure' category
  - ⊙ Ranked 3<sup>rd</sup> Best Engineering College in Telangan in 'Research' category
  - ⊙ Ranked 6<sup>th</sup> Best Engineering College in Telangana in 'Placement' category
- ⊙ Ranked 74<sup>th</sup> in Top 100 Private Engineering Colleges category by 'Times of India Ranking-2018'
- ⊙ Received NSS-Best Performing College Award from Hon'ble President of India(NSS)-2017
- ⊙ Ranked 8th Best Engineering College in Telangana by 'The Week 2016'
- ⊙ The Top Performing College Award for the years 2013 and 2015 by IBM
- ⊙ The Best Engineering College Award by Indian Society for Technical Education-2012
- ⊙ Ranked 7<sup>th</sup> Best Engineering College in Telangana by 'INDIA TODAY' Rankings
- ⊙ Accredited with Grade 'A' by National Assessment & Accreditation Council (NAAC)
- ⊙ All UG programs are Accredited by National Board Accreditation (NBA)
- ⊙ Accredited by Tata Consultancy Services (TCS)
- ⊙ Granted Autonomous status by University Grants Commission (UGC)
- ⊙ Included Under 2(f) and 12(b) of UGC
- ⊙ Recognized as a Research Centre by JNTU Hyderabad
- ⊙ Recognized as Cyient (Formerly Info Tech) Nodal Centre



## Department of Mechanical Engineering

The department was established in the year 2004. It has grown significantly by spreading academic activities by offering programs at Bachelor of Technology and Master of Technology with specialization in Machine Design. The student intake in UG is 240 and PG is 24. The students are being motivated by well qualified faculty including eight professors providing good academic insights. The department has excellent, modern technological lab facilities. The department also has CAD/CAM lab with high end softwares and equipped with CNC machines to provide good knowledge on practical usage and applications through various experiments. A new Robotics lab, Machine Drawing and Drafting lab established in the year 2019. Extensive training is given to all the students in SOLID WORKS in addition to their regular curriculum. The department has been re-accredited by NBA (under Tier-I) in the year 2018.

The department has Memorandum of Understanding (MoU) with 35 Companies in providing Internships, Mini Projects, Major Projects, Industrial Visits, Placements, Consultancy Services and Guest Lectures. The department offers courses such as Massive Open Online Courses (MOOCs), Value Added Course (VAC), Free Open Source Softwares (FOSS) and National Programme on Technology Enhanced Learning (NPTEL). The department is conducting student level technical symposiums since its inception. The students are encouraged to become the member of professional chapters like American Society of Mechanical Engineers (ASME), Institution of Engineers India (IEI), Indian Society of Technical Education (ISTE) and technical skills clubs like MechWarrior's Automobile & Robotics Klub (MARK), FEM Club and CAD club.

The department has several objectives to impart the technical, soft skills and basic aptitude, which helps to develop the leadership qualities among the students fraternity. Department provides separate library facility with more than 500 volumes and access to e-journals. The department has a Center for Advanced Mechanical Engineering and Research (CAMER) which facilitates Research and Development. The department of Mechanical Engineering is recognized as CYIENT Nodal Centre.

## Department of Chemical Engineering

The Department of Chemical Engineering was established in the year 2004 and with consistent performance it has become one of the best departments in the Telangana region. The department is re-accredited by NBA (Under Tier-I) in the year 2018. The department is continuously striving to impart quality education and competitive spirit among students for academic excellence. The department understands real world challenges and helps students to face them successfully. The department encourages students to become members of professional chapters like Indian Institute of Chemical Engineers (IIChE) and Indian Society of Technical Education (ISTE).

Every year department organizes a National Level Technical fest "RASAYANIKA" by IIChE-students chapter of Anurag Group of Institutions. It aims at enhancing the thoughts of young engineering students giving them a common platform to enhance and showcase their talents and skills. The department has 18 MoU's with reputed Industries and National Laboratories. The department has highly qualified and richly experienced faculty with 4 doctorates, full-fledged laboratories, an equipped state of art simulation tools. The department strives for excellence in academics as well as testing, consultancy and research activities. The department has consistent track record of placements and the students are placed in reputed organizations like ISRO, IICT, ARCI, NFC, Dr. Reddy's, Aurobindo Pharma Ltd, Hetero Drugs Ltd, Granules India Ltd etc.



# INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN MATERIAL SCIENCE & ENGINEERING-2020

17<sup>th</sup> & 18<sup>th</sup> July 2020

## KEYNOTE SPEAKERS



### **Prof. Ir. Dr. Rosalam Hj. Sarbatly**

Professor,  
Faculty of Engineering  
Universiti Malaysia, Sabah  
Chairman of the  
Education Advisory State Council,  
Government of Sabah, Malaysia.



### **Prof. Dr. Seock-Sam Kim**

Professor,  
Faculty of Engineering  
Universiti Malaysia Sabah  
Emeritus Professor  
Kyungpook National University

## OBJECTIVES

The aim is to bring together academicians, scientists, research scholars and industry personnel from all over the globe to a common platform and have Brainstorming sessions on the current trends and latest innovative research in areas of Mechanical Engineering and Chemical Engineering.

## SCOPE OF THE CONFERENCE

The International Conference on Emerging Trends in Material Science & Engineering-2020 would provide scope for sharing advanced knowledge in different areas from Mechanical Engineering and Chemical Engineering. Interdisciplinary knowledge in engineering, intelligent thoughts and applications can be attained. Further, it would foster networking of researchers across the globe for initiating collaborative research and its continuance

## FOCUS TRACKS

Authors are solicited to contribute to the conference by submitting articles that illustrate research results, projects, surveying works and industrial experiences that describe significant advances in the following areas, but are not limited to:

### **Track 1: Material Science and Engineering**

Material Science and Engineering  
Micro-Nano Materials Machining  
Composite and Smart Materials  
Advances in Materials and Processing  
Fatigue and Fracture Mechanics  
Advanced materials and Soft materials  
Advanced materials devices  
Ceramics and Composite materials  
Crystalline Porous materials  
Materials in Industry  
Energy materials  
Aerospace Materials

### **Track 2: Thermal Engineering**

Refrigeration and Air Conditioning  
Cryogenic Systems  
Combustion and Emission control  
Energy Conservation, Renewable Energy Techniques  
Computational Fluid Dynamics and FEA  
Electric/Hybrid Propulsion  
Vehicle Aerodynamics

### **Track 3: Manufacturing Engineering**

Manufacturing Engineering  
Cutting Tool Materials and Coating  
Metal Forming Techniques  
Non-Traditional Machining Processes  
Reliability and Maintenance Engineering  
Precision Engineering  
Welding Technology  
Modeling, Simulation and Optimization  
CAD/CAM/CIM  
Lean and Flexible Manufacturing Systems  
Industrial Robotics and Automation  
Product Design and Development  
Rapid Prototyping  
Manufacturing Processes

### **Track 4: Chemical Engineering**

Applications of Chemical Technology  
Chemical Industry and Market Analysis  
Petroleum Refining and Petrochemicals  
Polymer Science and Engineering  
Pollution Control and Environmental Engineering  
Advanced Heat and Mass Transfer  
Waste Management  
Bio-Fuels and Fuel Cells  
Biochemical Engineering

## CONFERENCE PROCEEDINGS

ICETMSE-2020 is in collaboration with IOP Book series and Key Engineering Materials.

### CALL FOR PAPERS

ICETMSE-2020 invites full length original research articles from academicians, industry, research organizations and research scholars from across the world. Full length original research contributions and review articles not exceeding 8 pages as per the IEEE double column format shall be submitted. The manuscript should contribute original research ideas, development ideas, analysis, findings, results etc. The manuscript should not have been published/ submitted in any journal/magazine or conference proceedings and not under review in any of them. Further, the manuscript should contain the name of corresponding author with e-mail ID and affiliation of all authors.

The soft copy of the full length manuscript (.doc or .pdf) shall be submitted to icetmseagimce2k19@cvsr.ac.in. All the submitted manuscripts will be sent for peer review and the corresponding author will be notified about the selected paper after review process within 45 days. If the reviewers recommend for revisions in the manuscript, the review comments will be sent to the corresponding author and the revised version of the manuscript shall be submitted within two weeks. All the accepted manuscripts will be published in the SCI /Scopus /EiCompendex / Web of Science / SCImago indexed journals. Additional publication fee may be charged according to the journal.

Authors are also invited to submit their conference papers through the Easy Chair.



**IOP** Publishing



### PAPER SUBMISSION IMPORTANT DATES:

Paper submission opens: **1<sup>st</sup> February, 2020**

Paper submission deadline: **7<sup>th</sup> March, 2020**

Paper acceptance notification: **8<sup>th</sup> May, 2020**

Early bird registration deadline: **23<sup>rd</sup> May, 2020**

Date of the Conference: **17<sup>th</sup> & 18<sup>th</sup> July, 2020**

<https://easychair.org/conferences/?conf=icetmse2020>

### MODE OF PAYMENT OF REGISTRATION FEES

	(Indian Delegates)	(Foreign Delegates)
Academicians/ Research Scholars	Rs. 6000/-	US \$ 300
Industry Personnel	Rs. 7000/-	US \$ 400
Delegates	Rs. 2500/-	US \$ 200
<b>Both online and offline payment modes are available:</b>		
<b>Online Payment:</b> The Registration fee payable from any National Bank through online transaction (NEFT/IMPS) to the following beneficiary( <b>Swift Code</b> ).		
<b>Demand Draft:</b> Authors can take Demand Draft in favour of <b>The Director, Anurag Group of Institutions</b> , payable at Hyderabad.		
<b>Name of the Bank</b>	State Bank of India	
<b>Account Number</b>	62289105582	
<b>Branch Name</b>	Ghatkesar	
<b>IFSC Code</b>	SBIN0020450	
<b>Address</b>	Medchal District, Telangana State500088	

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## VENUE

### Anurag Group of Institutions

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Hyderabad, Telangana, India. 500 088.

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## TRANSPORTATION & ACCOMMODATION

Delegates and participants are requested to make their own arrangements of travel and accommodation. However, necessary information and support will be provided for accommodation in nearby hotels on request. Room tariff varies from INR 3500/- to 5000/- per day. College will provide necessary free local transportation from important places of Hyderabad city to the conference venue.



## ABOUT HYDERABAD CITY

The city houses famous historical sites including Charminar, Golconda Fort, Salar Jung Museum (among the world's largest private collection Museum) art galleries, libraries, sports complex and theaters. The Charminar is as much the signature of Hyderabad as the Taj Mahal is of Agra or the Eiffel tower is of Paris.

The Cyber Towers of the Hi-Tech City of trade and Technology embodies the new bounded attitude of Hyderabad and today finds a place of pride. It is the nucleus of the city and Information Technology destination in this part of the world.

Hyderabad was historically known as pearl and diamond trade centre and it continues to be known as "City of Pearls". Industrialization throughout the 20th century attracted major manufacturing, Research and Financial Institutions including Bharat Heavy Electricals Limited (BHEL), National Geo-Physical Research Institute (NGRI) and Centre for Cellular and Molecular Biology (CCMB).

Sailing and water sports are a regular feature at the Hussain Sagar Lake. One of the world's tallest monolithic statues of Buddha stands on the "Rock of Gilbert", in the middle of the lake. Surroundings of the Hussain Sagar Lake provides marvelous entertainment options like NTR Gardens, Necklace Road, Tank Bund, Prasads Multiplex, Lumbini Park, Sanjeevaiah and Indira parks.

Falaknuma Palace was built in several phases by Nizam Rulers during 1857-1869 and is now one of the heritage buildings. The complex comprises of four palaces in Moghul and European styles.

Hyderabad city is well connected by road ways, railways and air ways. The internal part of the city is well connected with road and metro railways. Metro rail is being one of the advanced and fastest transit available connecting different parts of Hyderabad and Secunderabad twin cities.