



**RESEARCH ASSOCIATION OF MASTERS OF ENGINEERING**  
**INTERNATIONAL CONFERENCE ON**  
**INNOVATIONS IN SCIENCE, HYBRID MATERIALS AND VIBRATION ANALYSIS**  
**IC-ISHVA 2022**  
**16-17 JULY 2022**  
**PRESENTATION SCHEDULE (DAY 1)**

**DAY – 1 (16<sup>th</sup> July 2022, 10:00 AM – 10:30 AM IST (Indian Standard Time))**  
**INAUGURAL CEREMONY**

<b>Invited Chief Guest</b>	<b>Activity</b>	<b>ZOOM Link</b>
<p style="text-align: center;"><b>Prof. Dr. A. M. Kuthe</b> Professor ( Higher Administrative Grade) Visvesvaraya National Institute of Technology, Nagpur, India</p>	<p style="text-align: center;">Inaugural Ceremony of IC-ISHVA 2022</p>	<p><a href="https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFIKyttZz09">https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFIKyttZz09</a>  Meeting ID: 862 2928 0796 Passcode: 273394</p>

**DAY – 1 (16<sup>th</sup> July 2022, 10:30 AM – 11:00 AM IST (Indian Standard Time))**  
**KEYNOTE SESSION**

<b>Keynote Speaker</b>	<b>Activity</b>	<b>ZOOM Link</b>
<p style="text-align: center;"><b>Dr. Wadhah Hussein Al Doori,</b> Assistant Professor, College of Petroleum Processes Engineering, Tikrit University, Tikrit, Iraq</p>	<p style="text-align: center;">Effects of Nu, Re, and <math>\Delta P</math> on the thermal performance of experimentally and numerically perforated pin fins</p>	<p><a href="https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFIKyttZz09">https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFIKyttZz09</a>  Meeting ID: 862 2928 0796 Passcode: 273394</p>

**DAY – 1 (16<sup>th</sup> July 2022, 11:15 AM – 01:30 PM IST (Indian Standard Time))**  
**SESSION 1 - MATERIAL SCIENCE AND MECHANICAL ENGINEERING**

**Session Chair – Prof. H. M. Bansod**

Department of Mechanical Engineering, S. B. Jain College of Engineering and Technology, Nagpur, India

**Session Coordinators – Dr. R. H. Gajghat & Dr. Sasanka S. Bishoyi**

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Sr. No.	Paper Id	Authors	Title	ZOOM Link
1	5	Yahya Abbas Gbashi and Ali A.F. Al-Hamadani	The Effect of Different Hot Source Temp, Charge Pressure and Engine Speed on Stirling Engine	<a href="https://us02web.zoom.us/j/89712061487?pwd=QmVL Tm5DajBUdjNqalJSMWhic m1Kdz09">https://us02web.zoom.us/j/89712061487?pwd=QmVL Tm5DajBUdjNqalJSMWhic m1Kdz09</a>  <b>Meeting ID: 897 1206 1487</b> <b>Passcode: 161722</b>
2	13	Akram Malik Mohaisen and Thair J. Ntayeesh	Predicting of piezoelectric power harvesting from a simply supported beam with moving load	
3	16	Jinan Mahdi Hadi, Atheer Raheem Abdullah, Bassim M. Maajel and Laith Jaafer Habeeb	Heat Transfer Augmentation in a Microchannel Heat Sink Technique under Different Coolant Flow: A Comprehensive Review of the Recent Literature	
4	30	Hasan Shakir Majdi, Mahmoud A. Mashkour, Sanaa Turki Mousa Al-Musawi, Laith Jaafer Habeeb and Ahmed Jado	CFD investigation of one-way interaction (fluid-heat-deformation) in a pipe with obstacles	
5	31	Qusay Adnan Mahdi Mahmoud A Mashkour Ibtihal A Mhmood	Use of the Combined Effect of Magnetic Fields and the EGR System on Diesel Engine Performance and Emissions Enhancement a-Review Paper	
6	34	Ameer Turki and Waleed Bdaiwi	The use of Pistachio shell was residues to reinforce the PMMA used in the bases of dentures	
7	35	Haydar H. J. Jamal Aldeen and Salih Jawad Hamza	Experimental Study the Mechanical Properties of (Nb-1%Zr-xGe) Alloy by Using Powder Metallurgy for Humans Implant	
9	79	Vasanth Chakilam, Shaik Moulali and Dr. P.S. Venkatanarayanan	Quasi-Static Punching Damage Analysis Of Hybrid Composites Using Radiography Testing Method	

Sr. No.	Paper Id	Authors	Title	ZOOM Link
10	88	Dalal Abbass Kadham, Auda Jabbar Braihi and Hanaa Jawad Kadham	Preparation and Characterization of Poly Vinyl Alcohol Blends Nanofibers for Bio - Super Hydrophilic Applications by Electrospinning Techniques	<a href="https://us02web.zoom.us/j/89712061487?pwd=QmVL Tm5DajBUdjNgalJSMWhic m1Kdz09">https://us02web.zoom.us/j/89712061487?pwd=QmVL Tm5DajBUdjNgalJSMWhic m1Kdz09</a> Meeting ID: 897 1206 1487 Passcode: 161722
11	95	Marwah Mohammed Abdulridha and Abdul Sammeea J.A.Z.Jilabi	Review on Nd: YAG Laser Welding of Commercially Pure (CP) Titanium and (Ti-6Al-4V) Alloy	
12	109	Shrikant Bante, Sachin Karale and Gajanan Awari	Real driving emission measurement from motorcycle by using sensor-based exhaust gas sensing system	
13	129	Akash Singh and Vedansh Chaturvedi	Strength to Weight Ratio Maximization of Bevel Gear by Comparing Generic Design with Topologically Optimized Design and Lattice Structure Design	
14	134	Hasan Shakir Majdi, Ali Abd Al-Nabi Abaas, Atheer Raheem Abdullah, Hussein Alawai Ibrahim Al-Saaidi, Laith Jaafer Habeeb and Dragoljub Zivkovic	CFD investigation of one-way interaction (fluid-heat-deformation) in a channel with obstacles	
15	152	Subha Sivakumar, Divya Manivannan, Pottigari Venkata Sreegeeth Varsha and Yuktha Priya Ummareddy	Thermal stability and ablation performance of phenolic/carbon composites modified with nano silicon carbide	
16	164	Jercy Alexis Avelino Lopez, Gean Carlos Quintanilla Huaman and Marco Antonio Veliz Herrera	Design of a Lifesaving Collar for the Marine, river and Water Sports Transport Industry	

**DAY – 1 (16<sup>th</sup> July 2022, 11:15 AM – 01:30 PM IST (Indian Standard Time))**

**SESSION 2 - COMPUTER AND ELECTRONICS ENGINEERING**

**Session Chair – Dr. Vishal Satpute**

Assistant Professor (Grade-I), Electronics and Communication  
Engineering, Visvesvaraya National Institute of Technology, Nagpur,  
India

**Session Coordinator – Dr. J. D. Kene, Mr. Vivekanand Thakare**  
kenejd@rknec.edu

Sr. No.	Paper Id	Authors	Title	ZOOM Link
1	2	Ali Abbas Al-Shammary, Nizar Zaghdien and Mohamed Salim Bouhleh	Automatic Image Annotation system to images retrieval based on deep learning technique	<a href="https://us02web.zoom.us/j/85425263214?pwd=RzREbFoxYVRyRXlDN2FrcGFITjN1UT09">https://us02web.zoom.us/j/85425263214?pwd=RzREbFoxYVRyRXlDN2FrcGFITjN1UT09</a> Meeting ID: 854 2526 3214 Passcode: 161722
2	10	Ali Najdet Nasret, Ayoub Esam Kamal and Zuhair Shakor Mahmooos	Design of End-to-End Speech Recognition System by Used Hybrid CNN-LSTM	
3	11	Ardm Haseeb Mohammaed, Zuhair Shakor Mahmood, Ali Najdet Nasret and Arshad B. Salih	A New Method to Road Traffic Monitoring Using Artificial Systems	
4	24	Raid Rafi Omar Al-Nima, Musab T. S. Al-Kaltakchi, Tingting Han and Wai Lok Woo	Road Tracking Enhancements for Self-Driving Cars Applications	
5	40	Mohammad R. Aziz and Ali Saeed Alfoudi	Different Mechanisms of Machine Learning and Optimization Algorithms Utilized in Intrusion Detection Systems	
6	43	Luma A. Rashid, Shaker Mahmoud Faisal and Nihad M. Ameen	Design and Implementation of miniaturized RF Filters used in Communication Applications	
7	68	Zahra Q. Fanoos and Jumana A. Jarallaha	Breast Cancer diagnosis using Supervised Machine Learning Classification Algorithms	
8	105	Riyam S. Ali, Ali Y. Fattah and And Mustafa Dh. Hassib	Simulation and Comparison of an 8×40 Gbps WDM System using Advanced Modulation Formats	
9	124	Karrar H. Abd Al-Jabbar and Wael A. Hadi	Performance evaluation of User Selection in Downlink Massive MIMO using Precoders	
10	126	Alaan Ghazi, Layth Hammood, Aras Al-Dawoodi, Abbas Hussein Ali, Ashraf Nabeel Almallah, Nidhal Mohsin Hazzaa, Muthana Alisawi, Yousif Mohammed Wahab and Asmaa Yaseen Nawaf	Data Mining and Machine Learning Techniques for Coronavirus (COVID-19) pandemic: A Review study	
11	135	Mohammed Fakhruddin Abdulqader and Adnan Yousif Dawod	Virtual Rabbit Anatomy Simulator	
12	169	Ammar Hatem Farhan and Rehab Flaih Hasan	Using Random Forest with Principal Component Analysis to detect SQLIA	

**DAY – 1 (16<sup>th</sup> July 2022, 11:15 AM – 01:30 PM IST (Indian Standard Time))**

**SESSION 3 - CIVIL ENGINEERING**

**Session Chair – Dr. Buddharatna J. Godbole**

Associate Professor and HOD, Civil Engineering Department,  
St. John College of Engineering and Management, Palghar, India

**Session Coordinator – Dr. K. S. Rambhad**

kishorsrambhad@gmail.com

Sr. No.	Paper Id	Authors	Title	ZOOM Link
1	9	Mohamed Rabah Abdel-Qader, Raad Abdel Karim Hamdan and Ahmed Bahjat Khalaf	Preparing soil maps in Mansourieh using remote sensing techniques and information systems geographical	<a href="https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFKYyttZz09">https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFKYyttZz09</a> Meeting ID: 862 2928 0796 Passcode: 273394
2	26	Alaa Q. Raheema and Hiba A. Tarish	Analyze and Design of Secure User Authentication Protocol for Wireless Sensor Networks	
3	122	Semaa Amer Ghanam, Dr. Abdul Rahman Adnan Ibrahim and Muyassar Mohammed Jomaah	Application of Expert System to processing the problems of precast concrete that appear during stage production and transportation	
4	197	Aya Khudhur Abed and Dr Maysoon Abdullah Mansor	Generation Rate and Forecasting of Construction and Demolition Waste in Iraq	
5	202	Ali Salih Mahdi and Ahmad Jabbar Hussain Alshimmeri	Analytical Study of Castellated Steel Beams With and Without Strengthening Web	
6	206	Thair Jabbar Mizhir Alfatlawi, Faiz H. Al-Merib and Saja Ali Obaid	Numerical Simulation of Flow Characteristics over Mildly Slope Pool Riffle Sequence	
7	211	Anant Dhole and Dr. Tushar Shende	Extract beetroot as admixture for internal curing for cement mortar (1:3)	
8	236	Marwa A. Fadel and Waleed A. Waryosh	Experimental Study of the Behavior of Reinforced Concrete corbels strengthened with steel plate under Impact of Monotonic and Repeated Loads	
9	268	Ibrahim Hameed Ibrahim Gart, Dr. Mohammed Rashid Abood and Dr. Ghafor Ameen Hamasur	The Geotechnical Properties of Rocks of the Proposed Makhol Dam Site/ Northern Salah-Alddin Governorate	
10	291	Hiba Ghallab Dakheel and Muhsen Obaed Khalaf	Qualitative Evaluation of The Physical and Chemical Properties in Selected Quarries of Aggregate and Sub-base in Najaf Governorate - Central Iraq	
11	296	Aizadeen M Al-Hassan, Faris N Hassan and Abdulsalam M Al-Tarif	Lithofacies study of Mukdadiya Formation Sequence (Lower Pliocene) in Bekhere anticline, Zakho area Northern Iraq.	
12	299	Mugdha Kshirsagar Kshirsagar, Sayali Sandbhor, Vaishnavi Dabir and Amit Kaushik	Eco-Friendly High Strength Concrete Using Waste Foundry Sand and Microwave Incinerated Rice Husk Ash	

**DAY – 1 (16<sup>th</sup> July 2022, 2:00 PM – 04:30 PM IST (Indian Standard Time))****SESSION 4 - PHYSICS AND CONDENSED MATTER****Session Chair – Dr. Vednath Kalbande**Assistant Professor, Department of Mechanical Engineering,  
G H Raison College of Engineering, Nagpur, India**Session Coordinator – Dr. K. S. Rambhad**

kishorsrambhad@gmail.com

Sr. No.	Paper Id	Authors	Title	ZOOM Link
1	25	Sadiq B. Nouri, Zuheer N. Majeed and Amer Sh. Mahmood	Effect of the number of laser pulses on the electrical and structural properties of CdO thin films prepared by PLD method	<a href="https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFIKyttZz09">https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFIKyttZz09</a> <b>Meeting ID: 862 2928 0796</b> <b>Passcode: 273394</b>
2	27	Mohammed Salih Khlif and Qahtan Adnan Abdulqader	Lyoluminescence(LL) Of Nano L-Proline Prepared By Thermal Decomposition Method	
3	104	Mahmood Ahmed Hamood, Ghazwan Ghazi Ali and Mazin Ahmed Abed	Optimization of Mesoporous Silicon Morphology adding by Colloidal gold Nano layer	
4	156	Chandrasekhar Maalegoundla, Abdul Hameed, Ramadevudu Gokarkonda and Md Shareefuddin	The Physical, optical and EPR studies of PbF <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -CuO glasses.	
5	171	Shaima H. Mansour and Hadey K. Mohamad	Ferrimagnetic characteristics of a decorated mixed spin Blume-Capel Ising model	
6	178	Naima Ahmed Aswad Khalaf and Dr. Hanan Redha Abid Ali	A study of the structural and optical properties of SnO <sub>2</sub> films doped with ZnO prepared by using thermal chemical pyrolysis	
7	200	Zeina M Dakhel and Sahib N Abdulwahid	Difference energies and wavelengths using to study Pd nanoparticles by Nd –YAG laser ablation in water	
8	230	Eman Mahmood Khdaer and Assist.Prof. Mohsin Hasan Ali	Measurement the Building up Factor of $\Gamma$ -Ray in Tissue-Equivalent Material	
9	238	Rasha Jawad Kadhim, Mahdi Hadi Jasim and Zahida Ahmed Dakhil	Use the phenomenological approach in calculation of deuteron spectrum for <sup>27</sup> Al isotope in neutron induced reactions	
10	241	Sura I. Gburi and Najat M. R. Al-Ubaidi	Effect of Solar Proton Events on the Electron Density of the Ionosphere for Different Altitudes	

**DAY – 1 (16<sup>th</sup> July 2022, 2:00 PM – 04:30 PM IST (Indian Standard Time))**  
**SESSION 5 - APPLICATION OF MATHEMATICS IN SCIENCE AND ENGINEERING**

**Session Chair – Dr. Dillip Kumar Dash**  
 Professor, Dept of Science & Humanities,  
 Christian College of Engineering & Technology, Bhilai, India

**Session Coordinators – Dr. R. H. Gajghat & Dr Sasanka S. Bishoyi**  
 radhegaj@gmail.com

Sr. No.	Paper Id	Authors	Title	ZOOM Link
1	37	Dler Abduljabber Abdulqader and Zakariya Yahya Algamal	A new Liu-type estimator in gamma regression model	<a href="https://us02web.zoom.us/j/89712061487?pwd=QmVL Tm5DajBUdjNgalJSMWhic m1Kdz09">https://us02web.zoom.us/j/89712061487?pwd=QmVL Tm5DajBUdjNgalJSMWhic m1Kdz09</a>  Meeting ID: 897 1206 1487 Passcode: 161722
2	192	Punam Lambat and Ashok Pund	Kaluza-Klein Cosmological Model in Saze-Ballester Theory of Gravitation	
3	237	Adnan Waseel Kadhim Shubbar and Saad Shakir Mahmood	Modified Symmetric Rank 1 method for Unconstrained fuzzy Optimization	
4	239	Rusul Ahmed Flayyih, Emad Abbas Kuffi and Dalael Saad Abdul-Zahra	Analyzing Laguerre Polynomials by Emad-Sara Transform	
5	242	Abdulmir Taima Bandar, Prof.Dr.Shorouk Abdulredha Saeed and Adnan Fadhel Tomah	Use the method of regression of cubic spline in estimating the Poisson regression model with practical application	
6	243	Mahmoud H Eiada Al Hayani and Mustafa I N Alheety	A New Almost Unbiased Weighted Mixed Estimator In Stochastic Linear Restriction Model	
7	246	Hasan Abdulraheem Jubair, Saad Shakir Mahmood and Alan Jalal Abdulqader	Powell's Method for Solving Unconstrained Optimization Problem with Trapezoidal Fuzzy Numbers.	
8	247	Noor Kazem Abdel Ali Yousef and Assist.Prof. Saad Sabir Mohammed	Comparison of Box and Jenkins integrative ARIMA models to predict the amount of dust falling in the city of Kut	
9	249	Rasheed Al-Salih, Muslim Yusif Zayir, Ali Hussein Shuaa and Mohammed Abdulshareef Hussain	The Approximate Solutions of Burger's Equations with Atangana-Baleanu Fractional operator	
10	252	Rasheed Al-Salih, Ali Thamir Salman and Ali Hussein Shuaa	An Application of Elzaki variational iteration method for solving fractional PDE	
11	254	Ali Khalid Hasan and Luay Al-Swidi	Focal Frontier operator in i-topological proximity spaces	

**DAY – 1 (16<sup>th</sup> July 2022, 2:00 PM – 04:30 PM IST (Indian Standard Time))**

**SESSION 6 - MEDICAL AND GENERAL SCIENCE**

**Session Chair – Dr. Ashutosh Bagde**

Research Scientist (Bio Innovation Centre),  
Datta Meghe Institute of Medical Sciences,  
Wardha, Maharashtra, India

**Session Coordinator – Dr. J. D. Kene, Mr. Vivekanand Thakare**  
kenejd@rknec.edu

Sr. No.	Paper Id	Authors	Title	ZOOM Link
1	3	Shahba Rafe Abdullah, Mohammad Ahmad Jassim and Rafid Khalil Abdul Rezzaq	Effect conjugated linolenic acid Nano capsules on Hematological and biochemical parameters of male rats	<a href="https://us02web.zoom.us/j/85425263214?pwd=RzREbFoxYVRyRXlDN2FrcGFITjNlUT09">https://us02web.zoom.us/j/85425263214?pwd=RzREbFoxYVRyRXlDN2FrcGFITjNlUT09</a> Meeting ID: 854 2526 3214 Passcode: 161722
2	7	Reem Zuhair Shaker, Atheer Abdel Razzaq Abdel Aziz, Ruqaya Mustafa Ali and Hiba Saad Rashid	Isolation and molecular detection of Salmonella from Broiler chickens in Baghdad city	
3	33	Basma A Al-Ghali, Ziad T Al-Dahan and Hussein H Alzubeidy	Non-dispersive Infrared CO2 Spectroscopy for Extracorporeal Life Support: A Digital Signal Processing Design	
4	62	Jerin Varghese	Use of nanotechnology in medical science : A review	
5	89	Noralhuda Ahmed Hamzah, Faehaa Azher Al-Mashhadane and Suhad M. Hamdon	Antioxidant and ant-inflammatory effects of Garlic (Allium sativum) extracts in healing of induced oral ulcer in rabbits	
6	133	Farah Shaker and Zaid Al-Hakkak	Study Effect of Cement Dust Exposure on Health of Workers at Kufa Cement Factory	
7	203	Seama'A Azhar, Auns Q. Alneami and Hussein H. Alzubeidy	A Novel Technique For Intra-Aortic Balloon Catheter Tip Localization Based on Sensing System Design	
8	210	Sarah Basheer, Sarah H. Shaalan, Noor Nasear Rahem and Roaa Hatem Al Gburi	Effects of IL-4, IL-5, and IL-13 on total and allergy specific IgE production in patients with Allergic rhinitis	
9	226	Zahraa Jawad Hameedi and Assist.Prof Mohammed Kassim Gholam	Evaluation of The Shear Bond Strength of Three Different Universal Bonding Agents Using Different Etching Techniques	
10	275	Mohammed J Kadhim	Diagnostics of Tin and Cadmium Plasma Produced by Laser Nd: YAG (1064nm)	
11	293	Hanaa Hasan Kadhim, Ali Kamel Mohsin and Murtadha Aljanabi	Study the effect of using Erbium Yag laser for the treatment of acne scar in female and male patients	
12	301	Omar N K Alheeti	Spirulina nanoparticles protected liver of EST bearing mice	





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**IC-ISHVA 2022**  
**16-17 JULY 2022**  
**PRESENTATION SCHEDULE (DAY 2)**

**DAY – 2 (17<sup>th</sup> July 2022, 10:30 AM – 11:00 AM IST (Indian Standard Time))**

**KEYNOTE SESSION**

<b>Keynote Speaker</b>	<b>Activity</b>	<b>ZOOM Link</b>
<p><b>Dr. Menderes KAM</b> Assistant Professor, Department of Machinery and Metal Technology, Dr. Engin Pak Cumayeri Vocational School, Düzce University, Turkey</p>	<p>Vibration Analysis</p>	<p><a href="https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFIKyttZz09">https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFIKyttZz09</a>  Meeting ID: 862 2928 0796 Passcode: 273394</p>

**DAY – 2 (17<sup>th</sup> July 2022, 11:00 PM – 01:30 PM IST (Indian Standard Time))**  
**SESSION 7 - MATERIAL SCIENCE AND MECHANICAL ENGINEERING**

**Session Chair – Dr. D. B. Jani**

Associate Professor, Department of Mechanical Engineering, Government Engineering College, Dahod, Gujrat, India

**Session Coordinators – Dr. R. H. Gajghat & Dr. Sasanka S. Bishoyi**

radhegaj@gmail.com

Sr. No.	Paper Id	Authors	Title	ZOOM Link
17	176	Muna Hameed Alturaihi, Wajeed Kamal Hasan, Mahmoud A. Mashkour and Laith Jaafer Habeeb	Thermal Stratification Enhancement Using A Curved Baffle In Thermal Storage Tanks	<a href="https://us02web.zoom.us/j/89712061487?pwd=QmVL Tm5DajBUdjNgaJSMWhic m1Kdz09">https://us02web.zoom.us/j/89712061487?pwd=QmVL Tm5DajBUdjNgaJSMWhic m1Kdz09</a> Meeting ID: 897 1206 1487 Passcode: 161722
18	180	Tejrao Ghormade, Sachin Karale and Gajanan Awari	Comparative Analysis of Different Size Microchannel Condenser in Refrigeration System Using R134a	
19	181	Huzaifa Fidvi and Akash Langde	Development of a Statistical Model for the Effect of Air Velocity, Charges Coke, and Limestone	
20	182	Dr. Nilesh Jawarkar, Gunwant Shelake and Sumit Kumar	Heat Transfer Enhancement of Heat Exchangers Using Nanofluids: A Review of Most Recent Developments and Future Perspective	
21	194	Atul Ganorkar and Akash Langde	Experimental investigations of carbon dioxide (CO <sub>2</sub> ) removal through physical adsorption using carbonaceous adsorbents: A Review	
22	208	Omkar Bhosale, Deepak Hujare and Murtaza Laila	Vibration Analysis for Rattle Detection in Passenger Car Door for Redesign Approach and Foam Implementation Method	
23	224	Ahmed Radhi Wattan and Mohammed Salih Aljwad	Calculation of the Relative Permeability of Carbonate Rocks Using the Unsteady-State Core Flooding Method	
24	228	Safa F. Abdul Al-Abass, Auda J. Braihi and Ali. S. Hasan	Oil Spill Cleaning Up By Polymeric Sorbents Using Salt Leaching Method	

Sr. No.	Paper Id	Authors	Title	ZOOM Link
25	231	Sahar Sabah and Waleed Bdaiwi	The use of cigarette butts residues to reinforce unsaturated polyester for the manufacture of structural sections	<a href="https://us02web.zoom.us/j/89712061487?pwd=QmVL Tm5DajBUdjNgalJSMWhic m1Kdz09">https://us02web.zoom.us/j/89712061487?pwd=QmVL Tm5DajBUdjNgalJSMWhic m1Kdz09</a> Meeting ID: 897 1206 1487 Passcode: 161722
26	232	Ali K. Al-Delfi and Faleh H.M. Al-Mahdawi	A Comprehensive Review of Lost Circulation: Principles And Treatments	
27	234	Mohammed A. Al-Hejjaj and Dhifaf J. Sadeq	Optimization Of Electrical Submersible Pump System in a Middle Eastern Oil Field	
28	251	Alaa M Khudhair, Kahtan A Mohammed and Rahman S Zabibah	Derivation of a Mathematical Model For The Movement of a Robot with a Hexagonal Degree of Freedom	
29	272	Thabit H Thabit, Hazim A Azeez and Taraq K Shlagah	Reducing the Risk Management by Employing the Environmental Auditing	
30	297	Saif K Al-Hlaichi and Faleh H M Al-Mahdawi	Drilling Optimization By Using High Drilling Techniques : A Review	
31	300	Mohammed Hussein Mahmood	Study of Petrophysical Properties of a Yamama Reservoir in Southern Iraqi Oil Filed	
32	305	Hassan K. Abdullah and Mohammed A. Hassan	Natural heat transfer from finned heat exchanger fixed in variable diverge duct	

**DAY – 2 (17<sup>th</sup> July 2022, 11:00 PM – 01:30 PM IST (Indian Standard Time))****SESSION 8 - COMPUTER AND ELECTRONICS ENGINEERING****Session Chair – Dr. Vishal Satpute**Assistant Professor (Grade-I), Electronics and Communication  
Engineering, Visvesvaraya National Institute of Technology, Nagpur,  
India**Session Coordinator – Dr. J. D. Kene, Mr. Vivekanand Thakare**  
kenejd@rknec.edu

Sr. No.	Paper Id	Authors	Title	ZOOM Link
13	172	Abbas Jasem Altamemi, Aladdin Abdulhassan and Nawfal Turki Obeis	Improving SDN Controller Security using Machine Learning Techniques	<a href="https://us02web.zoom.us/j/85425263214?pwd=RzREbFoxyYVRYRXIDN2FrcGFITjN1UT09">https://us02web.zoom.us/j/85425263214?pwd=RzREbFoxyYVRYRXIDN2FrcGFITjN1UT09</a> <b>Meeting ID: 854 2526 3214</b> <b>Passcode: 161722</b>
14	175	Muthana Alisawi, Layth Hammood, Alaan Ghazi, Sirwan Saber Abdullah, Aras Al-Dawoodi, Abbas Hussein Ali Ali, Ashraf Nabeel Almallah, Nidhal Mohsin Hazzaa, Yousif Mohammed Wahab and Asmaa Yaseen Nawaf	Cyber Security After Covid 19: A Review	
15	179	Rua' A S. Rashak and Waffaa S. Majeed	The cost-effective Installation of a Surge Arrester to Improve Lightning Performance at a 400 kV	
16	186	Muntasser A. Wahsh and Zainab M. Hussain	A Systematic Literature Review of Using Virtual Reality in Laboratory Education	
17	190	Dhanashri Shete and Prashant Khobragade	An empirical analysis of different data visualization techniques from statistical perspective	
18	191	Dhanashri Shete and Prashant Khobragade	Analysis and Visualization of Project System	
19	214	Aparna Nisal and Dr. Sanjay Solanki	Structural Study and Analysis of Classification, Clustering Algorithms for Proposed Model for Performance Assessment of Students	
20	227	Sandeep Kadam and Dr. Anwar Mulla	Review of Analysis and Allocation of Hybrid Type Superconducting Fault Current Limiter (SFCL) in Power System with Distributed Generation (DG)	
21	244	Hanin Hameed M and Ahmed Fadhil J	Semi Prime hesitant fuzzy submodule	
22	257	Waleed Saleh Hamed and Karim Qasim Hussein	Prediction System for Distribution Wind Speed in Iraq Using Deep Learning Algorithm	
23	298	Ali S Alfarhani and Muhammad Ilyas	Increasing Life Expectancy of Axial Flow Turbine Engine By Predicting Failures Using Machine Learning	

**DAY – 2 (17<sup>th</sup> July 2022, 11:00 AM – 01:30 PM IST (Indian Standard Time))**

**SESSION 9 - PHYSICS AND CONDENSED MATTER**

**Session Chair – Prof. Himanshu D. Wagh**

Department of Mechanical Engineering, S. B. Jain College of Engineering and Technology, Nagpur, India

**Session Coordinator – Dr. K. S. Rambhad**

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Sr. No.	Paper Id	Authors	Title	ZOOM Link
11	266	Anees Abdulmunim Mohammed, Anees Abdulmunim Mohammed and Nada Farhan Kadhim	The Accurate Efficiency Calibration for NaI(Tl) Detector using Several Point Sources.	<a href="https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFKYyttZz09">https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFKYyttZz09</a>  Meeting ID: 862 2928 0796 Passcode: 273394
12	267	Akram M Ali and Enas A Jadaan	Investigating transition density distribution by particle- particle and hole-hole using random phase approximation	
13	271	Bahaa Hassoun Abbas and Nada Basheer	Calculation of the Energy Loss and Stopping Power when Protons react with Hydroxylapatite compound	
14	274	Hussein Neama Najeeb and Riyadh T Hussein	Thermochemical and spectral properties of adenosine (mono, di, tri phosphate)by DFT	
15	276	Haidar K Dhayef and Thamir H Khalaf	Simulation Of a Corona Discharge In a Wire-Duct Electrostatic Precipitator	
16	284	Allawi Hamead Harjan and Shaymaa Awad Kadhim	Concentrations of cadmium, Iron, and manganese in the serum of prostate cancer patients and healthy controls	
17	288	Mustafa Kadhim Salman, Mustafa Mohammed Karhib, Kahtan A Mohammed, M H Mezher and Saad Abbas Jasim	Preparing and Studying Some Physical Properties of TiO <sub>2</sub> - PVA Hybrid Nanocomposite Material for Possible Environmental Applications	
18	289	Fouad N Ajeel, Hasan Mohammed Ali Abdullah Algelal, Hussein M Hussein, Kareema M Ziadan, Rahman S Zabibah and Kahtan A Mohammed	I-V Characteristic of Tri Ethanol Amine Capped CdSe Thin Films	
19	292	Husham T Lateef and Kadhim A Aadim	Study of the structural and optical characteristics of iron oxide nanoparticles precipitated by PLD	
20	303	Mustafa Muwafaq Muhammed	Theoretical Treatment of High Power Operation of Yb <sup>3+</sup> :KYW Thin Disk Laser	

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**SESSION 10 - CHEMISTRY AND CHEMICAL COMPOUND**

**Session Chair – Dr. Suraj Butoliya**

Assistant Professor, Department of chemistry, Shri Ramdeobaba College of Engineering and Management, Nagpur, India

**Session Coordinator – Dr. J. D. Kene, Mr. Vivekanand Thakare**

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Sr. No.	Paper Id	Authors	Title	ZOOM Link
1	12	Lana Fahmi Saber and Ahmed Abdal Hassan Ahmed Al-Kadhimi	Preparation of Schiff bases of hydrazide prepared from carboxymethyl-chitosan Lana Fahmi Saber	<a href="https://us02web.zoom.us/j/85425263214?pwd=RzREbFoxYVRyRXlDN2FrcGFITjNlUT09">https://us02web.zoom.us/j/85425263214?pwd=RzREbFoxYVRyRXlDN2FrcGFITjNlUT09</a> Meeting ID: 854 2526 3214 Passcode: 161722
2	29	Nermen Rostam Ahmad, Sayran Sattar Saleh and Nihad Ismael Taha	Biochemical Study for glucose -6-phosphate dehydrogenase (G6PD) in Thalassemia patients	
3	39	Bedour Ali Mohammed, Athraa Adnan Mahdi, Afaf Murtadha Kadhum and Eatemad Abd Ali Abdulrhman Alshawi	Synthesis and Characterization New Liquid Crystals from organic amine compounds chlorpheniramine, Clementine, 6-Alkoxy alanine and p-amino bazaamide	
4	121	Lana Abed Mansur Alnajar	Effect Of Some Metal Ions on the Activity of Bromalein Enzyme Purified from Pineapple Juice	
5	123	Mohanad Hazim Halboos, Aayad Ammar Sayhood and Bayan Jabr Hussein	Phenol removal from aqueous solutions by chemically modified pomegranate peel (PP)	
6	174	Emad Salim Hossi Al-Janabi and Sabraa Saad Yasen	Determination of chemical composition and antioxidants of wheat flour, orange peel powder and manufactured biscuits	
7	189	Ghufran Sh. Al-Obaidy and Safa S. Awad	Co+2, Cu+2, Ni +2, Au+3, complexes with ((Z)-1-(3-chlorophenyl)-N-(4-methoxy-2-nitrophenyl)methanimine) Ligand, formation and spectral characterization	
8	199	Payman Sarwat Ali, Hala Mohammed Gharib and Nurhan Ali Aref	Preparation and characterization of some pyrimidine derivatives and study with Ct DNA	
9	205	Zahraa D. Khalaf, Baqer A. Al-Mayyahi and Yossra A. Marich	The Effect of Using Styrene-Butadiene Rubber (SBR) Emulsion on the presence of Some Toxic Heavy Metals in Concrete	
10	233	Fadhil Faez Sead, Hussein Jasim Mohammed and Ahmed Ibrahim Hamzah	Potentiometric ion- selective electrode determination Cobalt (II) based on crafted Thia polymeric crown ether SPCE	
11	306	Wasan Jafar Sadiq and Imad Tarek Hanoon	Simultaneous Determination of Trifluoperazine Hydrochloride and Isopropamide Iodide via UV spectroscopy	
12	308	Shubhangi Kapse, Balwinder Talwar, Vinay Hiwase and V T Chauhan	Study of Chelating ion-exchange properties and electrical conductivity of terpolymer resins derived from p-Hydroxyacetophenone, Resorcinol and Glycerol	

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**SESSION 11 - APPLICATION OF MATHEMATICS IN SCIENCE AND ENGINEERING**

**Session Chair – Dr. Sasanka Sekhar Bishoyi**

Associate Professor, Dept of Science & Humanities,  
 Christian College of Engineering & Technology, Bhilai, India

**Session Coordinator – Dr. R. H. Gajghat**  
 radhegaj@gmail.com

Sr. No.	Paper Id	Authors	Title	ZOOM Link
12	255	Fatema Ahmad Sadiq, Mayada N Mohammedali and Raghad I Sabri	Optimization of Travel and Tourism Companies Assignment Model Based on Travel Cost	<a href="https://us02web.zoom.us/j/89712061487?pwd=QmVL Tm5DajBUdjNqalJSMWhic m1Kdz09">https://us02web.zoom.us/j/89712061487?pwd=QmVL Tm5DajBUdjNqalJSMWhic m1Kdz09</a>  Meeting ID: 897 1206 1487 Passcode: 161722
13	256	Abdulrhaman Ahmed J Ahmed and Feras Shaker M Batah	The Estimation Reliability for Parallel system of Stress – Strength Model of Power Rayleigh Distribution	
14	260	Nermen J Khalel, Nabeel E Arif and Tamadher Arif Ibrahiem	Pure Graph of a Commutative Ring	
15	261	Mohmad E Dahash and Haibat K Mohammadali	On Strongly Pseudo Nearly_2_Absorbing Submodules	
16	264	Atyaf J Khalaf and Bushra A Taha	Application the Quadratic Non-Polynomial Spline Method to the Two-Dimensional Volterra Integral Equation of the Second Kind	
17	265	A S Majeed and N E Arif	Topological Indices of certain neutrosophic Graphs	
18	269	Mohamed Ibrahim Zamel and Dr. Tareq Azeez Saleh	Estimation of semi-parametric models using some penal methods (multiple index model as an applied example)	
19	279	Raghad Almohammed and Luay A Al-Swid	Topological Proximity Space	
20	285	Alyaa Yousef Khudayer Mutawek and Raad Aziz Hussain Al-Abdulla	-compactness in ideal grill topological space	
21	294	Zahraa K Abdulla and Prof Dr Saad Naji Al-Azzawi	Solving the COVID-19 fractional model by using Sumudu transform and ADM	
22	295	Prof Dr Abdulghafor J Salim and Sufyan F Ahmed	Studying Some Stochastic (Quotient) Differential Equations with Application	

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**SESSION 12 - MOLECULAR BIOLOGY AND GENERAL SCIENCE**

**Session Chair – Dr. Manoj A. Kumbhalkar**  
Head, Department of Mechanical Engineering,  
JSPM Narhe Technical Campus, Pune, India

**Session Coordinator – Dr. K. S. Rambhad**  
kishorsrambhad@gmail.com

Sr. No.	Paper Id	Authors	Title	ZOOM Link
13	245	Mawj S R and Najat M R Al-Ubaidi	Long Time Variation of Carbon Dioxide, Methane and Nitrous Oxide with Temperature and Solar Radiation in Two Atmosphere Layers Troposphere and Mesosphere in Beijing	<a href="https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFIKytYz09">https://us02web.zoom.us/j/86229280796?pwd=eldwZDZQTmJtVWhOb1JPajFIKytYz09</a> Meeting ID: 862 2928 0796 Passcode: 273394
14	248	Riham Najm Iden Alkanani	Estimating type one censoring for Exponential-Rayleigh Distribution with nonlinear membership function about COVID-19	
15	258	Ebtisam Esmaael Ahmed and Yusra Mohammed Saleh	Effect of Spraying with Gibberellic and Ascorbic acids on Growth, Flowering and Corm Production of two Freesia Cultivars Freesia hybrida	
16	263	Salah M Abd UI Aziz and A J Almusawe	The compare for Optical, electrical, mechanical, and thermal properties between poly (vinyl alcohol) and poly(vinyl alcohol)/CuO nanocomposites	
17	273	Jamal S Abd Al Rukabie and Ahmed S Hassan	Evaluation of Carbon Dioxide Emissions dispersion from Crude Oil Production of Garraf Oil Field in Iraq	
1	28	Ali Hussian Shuaa and Noor Raad Fawzyi	Mathematical Model of Dichotomous Branching With Tip-Hypha Anastomosis	
2	32	Fatin H. Al-Dulaimi	Morphological and Chemical study, With Historical Importance of Cucurbita pepo	
3	170	Talib Abdulmaged Alboslemy, Iman Awad Bachay and Inaam M N. Alrubayae	A qualitative methods determination of candida biofilm viability and its compositions	
4	177	Alhan Mohammed Alwan, Muthana Muhamad Ibrahim and Dhuha Sabah Nadir	The role of iron oxide nanoparticles and the cultivation of cell suspension cultures of broccoli plant Brassica Oleracea. And detection of sulforaphane compound ex vivo	
5	223	Wurood Alwan Kadhim and Ahmed Khudhair Al-Hamairy	The polymorphism of IL- 10 related with Beta thalassemia infected with toxoplasmosis based on sequence analysis	
6	235	Majid Hasan Hameed	Virulence- Associated E . Coli Genes iss, fela , cvaC, tsh, iutA AND kpsII in Avian Respiratory Issues Isolated Pathogenic E. Coil Strains	
7	259	Nadia Hashim Al-Noor, Iden Hasan Hussein and Shaima Abbas Jasim	Estimate the Median Lethal Dose of a Biological Experiment with Modified Weibull Model	
8	302	Wurood Alwan Kadhim	The Polymorphism of IL- 10 Related with Beta Thalassemia Infected with Toxoplasmosis Based on Sequence Analysis	