

**TEQIP III sponsored 2<sup>nd</sup> NATIONAL CONFERENCE ON MATHEMATICAL MODELLING AND COMPUTATION 2021 (NCMMC2021)**  
**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE, INDIA**  
**Department of Mechanical Engineering**  
**10<sup>th</sup> & 11<sup>th</sup> December, 2021**

Session 1: 10.12.2021 & 11.00 AM – 12.30 PM  
 Session Chair: Dr G SureshKannan/Dr R Vishnu

Session Co-chair: Mr K Karthik

Link: <https://meet.google.com/ekk-hxen-cup>  
 Student In-charge: Dhanraj S & Kanwar Robinson S  
 MoC: Karthik G & VedhaMugunthan

| S.No | Name of the Authors | Title of the Paper  |
|------|---------------------|---|
| 1    | Sushma Athethe M    | Parametric Study of Gravitational Potential Energy of Planets                 |
|      | subashree K         |   |
|      | Godhai IN           |   |
|      | Atchaya B           |   |
| 2    | Abinandhan S        | Parametric Study on Photoelectric effect                                      |
|      | Chittesh L          |   |
|      | Karthik G           |   |
|      | Satheesh Kumar M    |   |
|      | Shreeram K          |   |
| 3    | Barani Kumar K      | Effect of Sound Absorbing Materials on The Reverberation Time of The Hall     |
|      | Kishore Kumar R M   |   |
|      | Rajesh Kannan S     |   |
|      | Vasanthan B         |   |
| 4    | M.Bharath Waj       | Analysis of Focal Length of Concave and Convex Lens                           |
|      | T.Rohan             |   |
|      | K.Mukesh            |   |
|      | S.Aswin             |   |
| 5    | Vasanth S           | Analysis of Variation of Escape Velocity for The Planets                      |
|      | Jai bharath N       |   |
|      | Mouneesh AA         |   |
|      | Santhosh KR         |   |
|      | Yokesh E            |   |
| 6    | JaiBharathraj N     | Variation Of Radius When Mass Changes In Schwarzschild Radius Using C Program |
|      | Vasanth S           |   |
|      | Suganth R           |   |
|      | Naveen babu S       |   |

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|   |                        |   |
|---|------------------------|---|
|   | Sudhakar J             |   |
| 7 | Vedhamugunthan M       | Analysis of Viscous Force by Varying Parameters |
|   | Shawdath Ahamed B      |   |
| 8 | Karalmarks S           | Analysis of Parameters of Arrhenius Equation    |
|   | Ajay P                 |   |
|   | Abubacker Siddiq T     |   |
|   | Dhanbal E              |   |
|   | Dhakshinamoorthy S     |   |
| 9 | Mano R                 | Determination of Gear Reduction in Gear Box     |
|   | Logeshwaran G R        |   |
|   | Mohammed Azarudeen M A |   |
|   | Sivakumar R            |   |

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**Department of Mechanical Engineering**  
**10<sup>th</sup> & 11<sup>th</sup> December, 2021**

Session 2: 10.12.2021 & 11.00 AM – 12.30 PM

Session Chair: Dr A S Krishnan

Session Co-chair: Mr S Thirumurugan

Link: <https://meet.google.com/gkg-dqxf-mks>

Student In-charge: Vimalraj S and Sasikumar A

MoC: Mukesh & Sachin V

| S.No | Name of the Authors    | Title of the Paper   |
|------|------------------------|--|
| 1    | ArunKumar H S          | A Numerical Study on the Effect of Perforated Absorber Plate Orientation in a Double Pass Parallel Flow Solar Air Heater |
|      | Shiva Kumar K          |  |
|      | Vasudeva Karanth       |  |
| 2    | Ajaai Prannav .R.V     | Pressure Drop Analysis in a Shell and Tube Heat Exchanger  |
|      | Aswath.K.K             |  |
|      | Srinandan.S            |  |
|      | Vishakan.V.G           |  |
|      | Sam Solomon D P        |  |
| 3    | Naveen.N               | Analysis Of Ideal Gas Law by Using C Programming   |
|      | Martin.M               |  |
|      | Manoj.U                |  |
|      | Mahalakshmi.P          |  |
|      | Sree Sivaranjani. M    |  |
| 4    | Amarnaath T N          | Analysis of Enthalpy's relation with various parameters  |
|      | Mehanathan S           |  |
|      | Justin Samuel Jomy     |  |
|      | Sricharan R            |  |
|      | Sai Charan Sriram      |  |
| 5    | Kaushik S              | Study on the Self-Balancing Electric Two Wheelers  |
| 6    | Samuel Selva Seelan .S | Evolution And Analysis of 6 Stroke Engine  |
|      | Kishore Kumar .N       |  |
|      | Chandiran V            |  |
|      | Dhinesh .S             |  |
| 7    | Cibi S                 | Effectiveness of fins and its analysis using C Programming   |
| 8    | Vikram G               | Mathematical Modelling and Simulation of 1-D Heat Transfer through Plane Wall  |
|      | Dr Velliangiri M       |  |
|      | Yuvan Adityaa S        |  |

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|   |                         |  |
|---|-------------------------|--|
|   | Sandeepnath S           |  |
|   | Kavin Kaarventhan K     |  |
| 9 | Kanwar Robinson S       | Comparison of the Thermal Efficiency of Otto Cycle and Diesel Cycle using Python |
|   | Mohammed Shaliq Irshath |  |
|   | Krishna Kumar           |  |
|   | Santhosh Kumar S        |  |

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Session 3: 10.12.2021 & 1.30 to 3.00 PM  
 Session Chair: Mr D P Sam Solomon

Session Co-chair: Dr H Sivarathinamoorthy

Link: <https://meet.google.com/udr-bejn-sth>  
 Student In-charge: Barath U S and AjayPrasath  
 MoC: SateeshKumar & HariRaghavan

| S.No | Name of the Authors    | Title of the Paper   |
|------|------------------------|--|
| 1    | Sakthisaran M          | Analysis of Variation in Parameters for Reynolds number            |
|      | Paramasiva Rahul       |  |
|      | Hareesh Raj            |  |
|      | Sriram Thangavel       |  |
| 2    | PrasannaKumar N        | Analysis of Efficiency of Carnot Cycle                             |
|      | Parthasarathy R        |  |
|      | Rahul R                |  |
|      | Saicharan T            |  |
| 3    | Yaswin S G             | Parametric Study of Indicated Horse Power                          |
|      | Cheran S               |  |
|      | ShiyamalaChidambaram A |  |
|      | SamSolomon D P         |  |
| 4    | Nandhakumar M          | Predictive Maintenance in Wheel Base Assembly using Python         |
|      | Pranav E               |  |
|      | Vimalraj S             |  |
|      | Aravindh R             |  |
| 5    | Dhanaraj S             | Analysis of Half-life Period in Thorium series using C Programming |
|      | Sarvesh R              |  |
|      | Sasikumar A            |  |
|      | Kanwar Robinson S      |  |
| 6    | Sriram S               | Determining the Charge of an Electron Using Stokes Law             |
|      | Loganandh J            |  |
|      | Kamaleswar R           |  |
|      | Abishek M              |  |
|      | Allen Brightus P       |  |
| 7    | Dhinesh Kumar A        | Hydrogen Internal Combustion Engines                               |

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|   |                                   |  |
|---|-----------------------------------|--|
| 8 | Sachin A T                        | Analysis of Variation in Parameters for Resistivity Change |
|   | Hariharan K S                     |  |
|   | SreeHarish R S & Sudharshanan K M |  |
| 9 | Vishal S P                        | Modelling and Simulation of Mass Spring Damper System      |
|   | Dr Velliangiri M                  |  |
|   | Vivekan P                         |  |
|   | SriVarshan G                      |  |

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Session 4: 10.12.2021 & 1.30 – 3.00 PM

Session Chair: Dr A Karthikeyan

Session Co-chair: Dr M Srividya

Link: <https://meet.google.com/kvu-bqjo-nxs>

Student In-charge: Dhanraj S & Kanwar Robinson S

MoC: VedhaMugunthan & Karthik G

| S.No | Name of the Authors   | Title of the Paper  |
|------|-----------------------|---|
| 1    | Pooja Shree M         | Fuzzy Logic Approach Applied to Housing Credit for an Applicant Through Bank Officers |
| 2    | Karthy                | Customer Analysis in a Mall   |
|      | Nithish               |   |
|      | Navin S               |   |
|      | Niranjana             |   |
|      | Dr Srividya M         |   |
|      | Vani K H              |   |
| 3    | Rathika J             | Data Analysis on COVID Vaccination  |
|      | Bhupesh P S           |   |
|      | Sabarinathan K        |   |
|      | Dr Srividya M         |   |
|      | Vani K H              |   |
| 4    | Rathika J             | Best Sellers with Categories  |
|      | Abhirami K M          |   |
|      | Amir Sukail M M       |   |
| 5    | Rosina Begam M        | Bitcoin Price Prediction using Neural Networks and FB Prophet                         |
|      | Vishnu Prakash S      |   |
|      | Siva Adithya Prabhu V |   |
|      | Vibin Gowtham A       |   |
| 6    | Tharsanee R M         | Diabetes Prediction through Flask Web-app using Machine Learning                      |
|      | AmuthaVarsni R        |   |
|      | Anushya S             |   |
|      | Ashwatha V            |   |
| 7    | Tharsanee R M         | Internet of Things  |
| 8    | Jothirupa R           | Cyber Security  |
| 9    | Mrithika G R          | Artificial Intelligence   |
|      | SathyaSri A           |   |

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Session 5: 10.12.2021 & 3.15 – 04.30 PM

Session Chair: Dr A Thangarasu

Session Co-chair: Dr R SathisKumar

Link: <https://meet.google.com/efk-cmuc-uxy>

Student In-charge: Vimalraj S & Sasikumar A

MoC: HariRaghavan & SateeshKumar

| S.No | Name of the Authors | Title of the Paper  |
|------|---------------------|---|
| 1    | Gowtham C S         | Optimization of Brake Disc  |
| 2    | Jaganathan S        | Determining whether the material is ductile or brittle with the help of Rake angle, Lip angle and Clearance angle using C Programming |
|      | Harish Rajan B      |   |
|      | Haresh Kumar H      |   |
| 3    | Anikeith C          | Determining Launch Angle to Maximize the Projectile Distance  |
|      | Mohanram M          |   |
|      | Jai Sudhiksh S      |   |
|      | Dhiraj Sri Hari S   |   |
| 4    | Barath U S          | Position Control of Mass Spring Damper System by using Ziegler Nichols Method   |
|      | Deepak L            |   |
|      | Mugesh G            |   |
|      | Parthiban P         |   |
|      | Mohan Kumar R S     |   |
| 5    | Kaushik Balaji N S  | Position Control of Mass Spring Damper System by using PID Controller   |
|      | Gokul Kannan K      |   |
|      | Mathan S            |   |
|      | Muthukumar R        |   |
|      | MohanKumar R S      |   |
| 6    | Dr SathisKumar R    | Use of Mathematical Modelling for Prediction of Youngs Modulus in Compositionally Complex Alloys                                      |
|      | Kovileeswaran C     |   |
|      | NaveenKumar D       |   |
|      | Nikaran K M         |   |
|      | Dharani R           |   |
| 7    | Rahul Kannan G      | Analysis of Orbital Velocity of Satellites  |
|      | Bharanidharan R     |   |
|      | Dinesh Kumar S      |   |
| 8    | Elamparithi C S     | Analysis of the Parameters influencing Performance of a Wind Turbine using LabVIEW  |



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|   |                   |   |
|---|-------------------|---|
| 9 | Hari Raghavan V S | Analysing the Efficiency of Transformer |
|   | Prasanna Harish M |   |
|   | Ajai R            |   |
|   | Harsha Varun      |   |

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**10<sup>th</sup> & 11<sup>th</sup> December, 2021**

Session 6: 10.12.2021 & 3.15 – 4.30 PM  
 Session Chair: Dr M Velliangiri/Dr G Sivakumar

Link: <https://classroom.google.com/c/NDQyMTQ3NDAyMDg2?cjc=sga5jhb>

Session Co-chair: Ms Vani K H

Student In-charge: Barath U S & Ajay Prasath

MoC: Sachin V & Mukesh

| S.No | Name of the Authors    | Title of the Paper   |
|------|------------------------|--|
| 1    | Balaji K               | Anxiety Mental Health Analysis by using AI   |
|      | Sudhagar V             |  |
|      | Varsha S               |  |
| 2    | Abinaya S              | Big Data Analytics Enhancement for Better Cultivation                                  |
|      | Bharath raj R          |  |
|      | Dhivya shree R         |  |
|      | Mukish S               |  |
|      | Rithanya R B           |  |
| 3    | Akshay U               | Evaluating Statistical Analysis, Statistical Tests and Data Structure for any CSV File |
|      | Nikhil R               |  |
|      | Susanth Narayanan R    |  |
|      | Tharun Karthick A R K  |  |
|      | Dr. M. Srividya        |  |
|      | Ms. K.H. Vani          |  |
|      | Ms J. Rathika          |  |
| 4    | Nekaa N                | Data Analysis on Population by Country   |
|      | Varsha Thejes S        |  |
|      | Deepthitha R           |  |
|      | Dr. M. Srividya        |  |
|      | Ms. K.H. Vani          |  |
|      | Ms J. Rathika          |  |
| 5    | Dakshinya T            | Analysis on Effect of Climatic Changes in Food Production                              |
|      | J, Kanishka            |  |
|      | Dr. M. Srividya        |  |
|      | Ms. K.H. Vani          |  |
|      | Ms J. Rathika          |  |
| 6    | S Ashvadarshini        | A Survey on Artificial Neural Networks in Early Detection of Breast Cancer             |
|      | B Kumutha Nandhini     |  |
|      | K Sasruthisri          |  |
|      | R Shree ruthi rakshana |  |

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|   |                    |  |
|---|--------------------|--|
| 7 | Prakalya           | FIFA Analysis  |
|   | Ranjeyan           |  |
|   | Riya Thomas        |  |
|   | Sneghaa            |  |
|   | Dr. M. Srividya    |  |
|   | Ms. K.H. Vani      |  |
|   | Ms J. Rathika      |  |
| 8 | Mathew Valan D L   | A Review of AI Techniques in Detecting Brain Tumours |
|   | Kedareeshwar K S   |  |
|   | Dineshkumar S      |  |
|   | Suriya Prashanna J |  |

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Session 7: 11.12.2021 & 3.30 – 4.30 PM

Session Chair: Mr M Karthikeyan

Session Co-chair: Ms Rathika J

Link: <https://meet.google.com/hnu-ewxj-erg>

Student In-charge: Pranav E & Nandhakumar M

MoC: Hari Raghavan & SateeshKumar

| S.No | Name of the Authors      | Title of the Paper  |
|------|--------------------------|---|
| 1    | Harin N                  | Ambulance Tracking System   |
|      | Manokarthi J             |   |
|      | Sellamuthu Selvabharathi |   |
| 2    | Shwethambari V           | Data Analysis on Job Recruitment of People                            |
|      | Sruthi R                 |   |
|      | Yazhini Karthik          |   |
|      | Dr. M. Srividya          |   |
|      | Ms. K.H. Vani            |   |
|      | Ms J. Rathika            |   |
| 3    | Anbarasan P M            | Online Counselling for Undergraduate Programs in Foreign Universities |
|      | Avudaiappan S            |   |
|      | Kishore Kumar G          |   |
|      | Shri Rama Moorthy S      |   |
|      | Dr. M.Srividya           |   |
|      | Ms. K.H.Vani             |   |
|      | Ms J. Rathika            |   |
| 4    | Anuvarshini G B          | Data Analysis on IPL Matches  |
|      | KeerthanaDevi A          |   |
|      | Keerthana S              |   |
|      | Varshaa D                |   |
|      | Dr. M.Srividya           |   |
|      | Ms. K.H.Vani             |   |
|      | Ms J. Rathika            |   |
| 5    | Balaji                   | Student Performance Analysis  |
|      | Dhanush                  |   |
|      | Sri Dharan               |   |
|      | Theeraj Subhakaar        |   |
|      | Dr. M.Srividya           |   |
|      | Ms. K.H.Vani             |   |
|      | Ms J. Rathika            |   |

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**10<sup>th</sup> & 11<sup>th</sup> December, 2021**

|   |                   |                           |
|---|-------------------|---------------------------|
| 6 | Balaji            | Data Analysis on COVID 19 |
|   | Dhanush           |                           |
|   | Sri Dharan        |                           |
|   | Theeraj Subhakaar |                           |
|   | Dr. M.Srividya    |                           |
|   | Ms. K.H.Vani      |                           |
|   | Ms J. Rathika     |                           |

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**10<sup>th</sup> & 11<sup>th</sup> December, 2021**

Session 8: 11.12.2021 & 3.30 – 4.30 PM

Session Chair: Mr R S Mohan Kumar

Session Co-chair: Dr M Sujithra

Link: <https://meet.google.com/ryg-tqmh-iis>

Student In-charge: Kaushik S & Sarvesh R

MoC: Sachin V & Mukesh

| S.No | Name of the Authors | Title of the Paper   |
|------|---------------------|--|
| 1    | Nandhakumar S S     | Google Play Store Analysis   |
|      | Navin S             |  |
|      | SripathyRam A M     |  |
| 2    | Abinaya R           | AI – A Eye: A New AI based Technology in Wearables for Visually Impaired                   |
|      | Dharini K           |  |
|      | PriyaDarsini N      |  |
|      | Vivekan S           |  |
| 3    | IndhuSree S         | Detecting Fake News on Social Media using Machine Learning Algorithms                      |
|      | Dr Sujithra M       |  |
| 4    | Suruthi R           | Consumer Sentiment Analysis of Twitter Data using Machine Learning Algorithms              |
|      | Dr Sujithra M       |  |
| 5    | Aishwarya K         | Classification of Documents for Coronavirus Disease 2019 (COVID-19) Literature             |
|      | Neha K V            |  |
|      | Dr Sujithra M       |  |
| 6    | Divya H             | Online Store Review Analysis   |
|      | Nandhini S          |  |
|      | Dr Sujithra M       |  |
| 7    | Arthi B             | Sentiment Analysis on Publics Opinion on COVID 19 Vaccine Administration using Data Mining |
|      | BalaVidhyaSree K C  |  |
|      | Dr Sujithra M       |  |