

Y A A N T R I K A 2019

HOME:

Strife of Masterminds

Yaantrika, the national level technical symposium of Hindusthan College of Engineering and Technology Coimbatore is glorifying the inter college technical meet from 2006. It has been centre of attraction for the thoughts and daze dreams of the dexterous brains. Every year students from all over Tamil Nadu had glorified the fest at the most, the main motive behind yaantrika is to organize a matrix of events to resemble the machine minds and innovative world inside the mechanical engineers. The technical hunt which gives great epic of the hero of the engineering, we the department of mechanical engineering have come up with a great innovative and thirst of knowledge in you, by the ways of fray of mechanical brains.

Department of Mechanical Engineering

The mission of the department of mechanical engineering is to produce mechanical graduates who will acquire the perspicacity, competence and adroitness needed to enter, succeed and leading in professional practice or post graduate studies. The goal is to provide learning and nurturing environment that simulates faculty and students to collaborate in solving problems motivates lifelong and helps reach their highest potential

Mechanical engineering is one of the most creative, broadest and most versatile of the engineering professions. mechanical engineering have initiated and implemented commendable progress in innovative areas like robotics, bio-engineering, micro processor control, energy conversion, fluid dynamics, power plantations, machine design, computer-aided design, solving real problems in these areas and with this experience they help develop students as transformational leaders.

Hindusthan College of Engineering & Technology

INITIATE, INNOVATE, INCULCATE

Hindusthan College of Engineering and Technology aims at providing the best education which will mould the students as the right characters, who will cater to the needs of the society. While providing the various inputs for the best education, Hindusthan College of Engineering and Technology will constantly thrive upon continual improvement with the utmost commitment for the complete satisfaction of the students.

Hindusthan College of Engineering & Technology pursues a philosophy of perpetual acquisition of knowledge. Apart from academic, equally important is our policy to provide value based education and exalt the hidden potentials in students that equip them to approach life with optimism.

To impart quality technical education to meet the industrial and social needs the college gears to set a professional pace for the careers of tomorrow. We offer a perfect mix of academic excellence, great employment prospects and amicable surroundings.

Paper Presentation

Rules & Regulations:

- ✚ Maximum of three authors.
- ✚ Submission of abstract (in a word document which is given below format) for not more than 300 words before the due date to yaantrika2019@gmail.com.
- ✚ The presentation is 6 minutes maximum. There will be at 2 minutes query and answer session following it.
- ✚ The organizers reserve the right to change/update the rules of the contest at any point of time and will do their best to inform the participants of the same. However, it is ultimately the responsibility of the teams to keep themselves updated. Violation of any rule can result in rejection of paper.
- ✚ The oral presentation should be in the form of Microsoft power point slides which contains the brief of your paper, not to exceed 15 slides.
- ✚ All the team members may be present during the event. There will be an interactive session with the judges, other participants and students during the time allotted for the event.
- ✚ The selected participants should submit a hard copy of the paper with abstract in the beginning in A4 sheets (including references, tables and figures)

For any queries contact:

yaantrika2019@gmail.com

PAPER FORMAT

Title of the article (Times New Roman- 14 front size, Bold and left aligned)

(one space of 10)

A. Author¹, B. B. Author², C. C. C. Author³ (Times New Roman Front size 12)

¹Department of (Name of the Department), Affiliated Institution, Address with pin code, Country.

²Department of (Name of the Department), Affiliated Institution, Address with pin code, Country.

³Department of (Name of the Department), Affiliated Institution, Address with pin code, Country.

Abstract (Times New Roman- 10 front size- Bold)

Abstract in English 150-200 words highlight the brief information of the paper.

Line spacing: Single; Front size: 10; Front: Times New Roman

Keywords: Keyword 1; Keyword 2; Keyword 3; ... (Maximum six).

1. Introduction (Times New Roman – 10 Front size Bold)

Introduction section should have minimum of 500 words and maximum of 1000 words about the overview of the research work, brief literature background, objectives formulated in the research work and methodology adopted to provide solution to the work. Manuscripts are submitted in English by e-mail (the mail address, mohanrajrac@yahoo.co.in and ictaes2018@gmail.com). The front size should be 10 and using Times New Roman. The manuscript should not exceed 10 pages (with total word count of about 5000). It also includes schematic diagrams, photographs, tables, and supporting formulae, etc. The margins should be 3 cm on top and bottom sides. For the left and right sides, the margins should be about 3.2 cm. At the end of introduction section, the detailed nomenclature should be provided. The following points shall be considered for preparing the manuscript:

- Manuscripts should be submitted in Word.
- Use a normal, plain font (e.g., 10-point Times Roman) for text.
- Use italics for emphasis.
- Presentation should be in double column.
- Use the automatic page numbering function to number the pages.
- Do not use field functions.
- Use tab stops or other commands for indents, not the space bar.
- Use the table function, not spreadsheets, to make tables.
- Use the equation editor or MathType for equations. Save your file in docx format (Word 2007 or higher) or doc format (older Word versions).
- Please use no more than three levels of displayed headings.

- Abbreviations; Abbreviations should be defined at first mention and used consistently thereafter.
- Footnotes can be used to give additional information, which may include the citation of a reference included in the reference list.
- They should not consist solely of a reference citation, and they should never include the bibliographic details of a reference.
- The numbers in the text should be enclosed in brackets [1], [2, 3], [4–10], etc., set on the text line.
- They should also not contain any figures or tables.
- Acknowledgments: Acknowledgments of people, grants, funds, etc. should be placed in a separate section on the title page. The names of funding organizations should be written in full.

2. Experiments (or) Materials and Methods (Times New Roman – 10 Front size Bold)

2.1 Experimental Setup

- Detailed description of experimental setup
- Instrumentation and uncertainty analysis.

2.2 Experimental procedure

Detailed experimental procedure

3. Modeling

(If the paper presents the modelling)

This section should contain the detailed equations and assumptions with proper justifications.

4. Results and Discussion

The results should be more comprehensive and compared with some reported investigations. The discussions should also more comprehensive.

GREAT DESIGNER

Rules & Regulations:

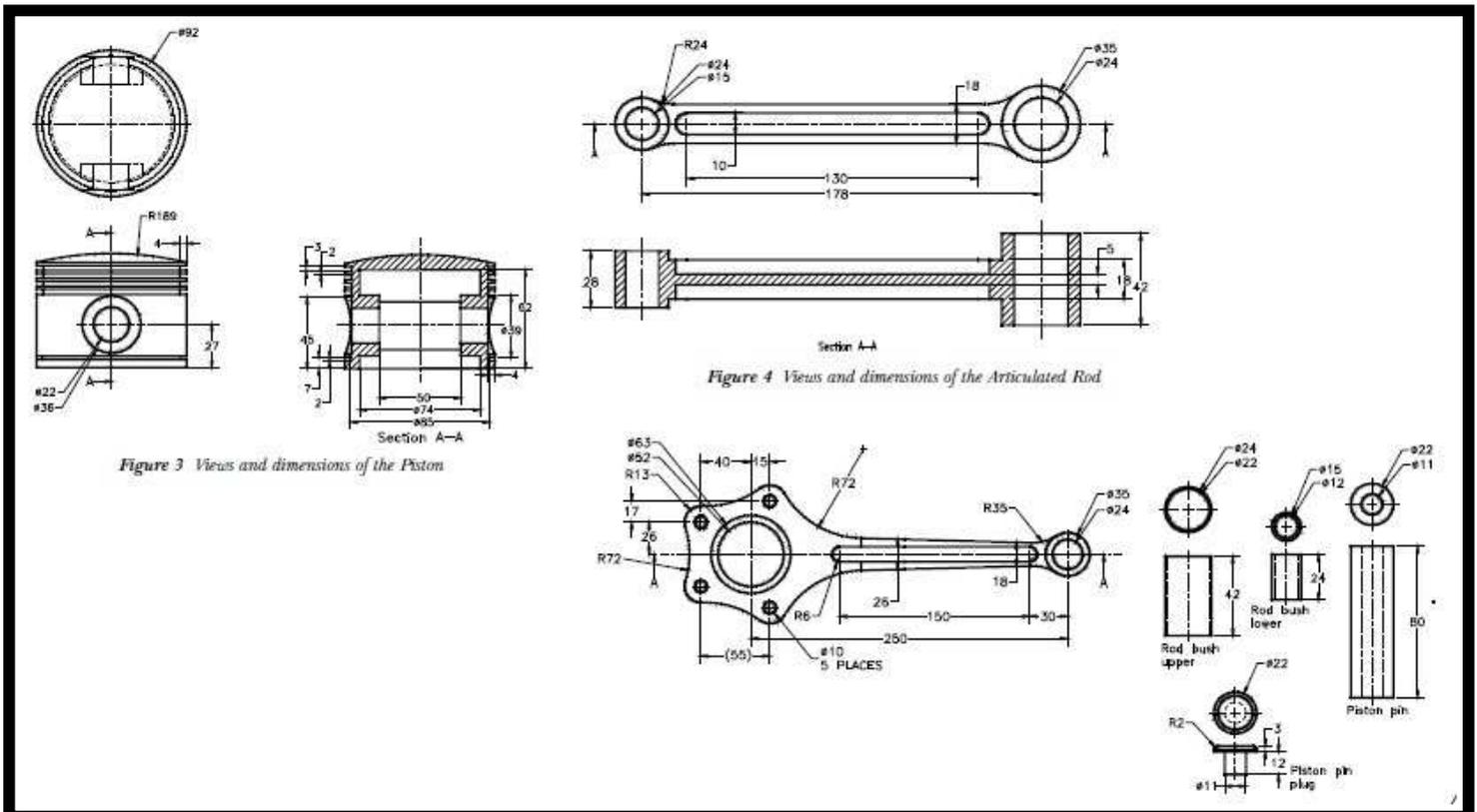
Moto Instincts consists of:

Elimination Round:

CAD MODELLING

- ✚ Max 2 members/team can participate in this round.
- ✚ The Components will be given at the time of event
- ✚ Team must be complete the 2D and 3D models (as per the given format which was given below) within one and half hours.
- ✚ The selected teams shall have to appear for the final round.

Example:

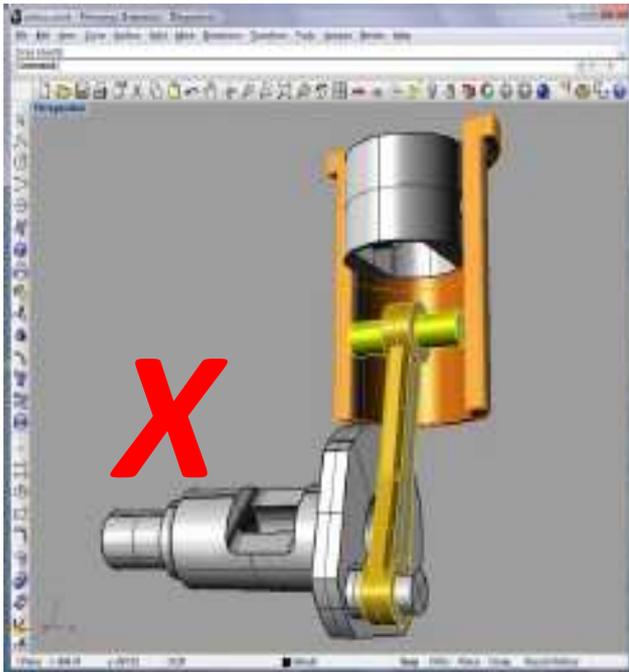


Final Round:

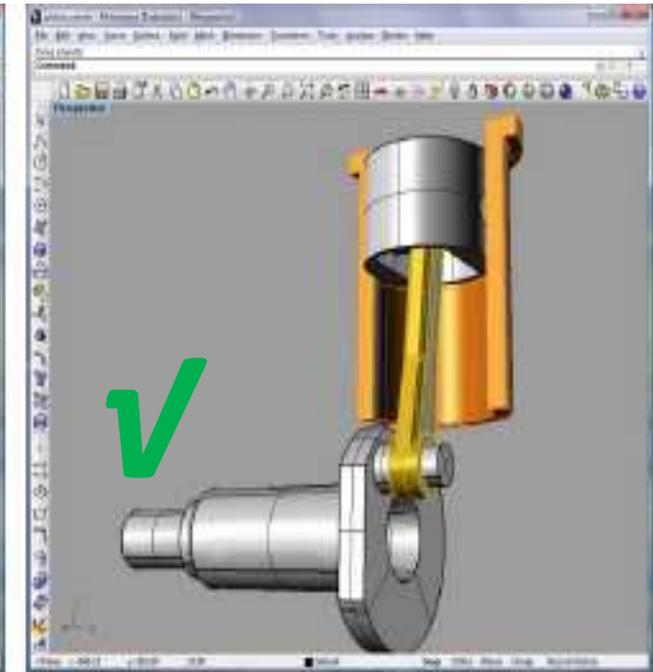
COMPONENT ASSEMBLY and ANIMATION

- ✚ This round involves Part Assembly which is given in round 1
- ✚ The Assembled components must be complete the proper motion.

Example:



(a)



(b)

For any queries contact:

yaantrika2019@gmail.com

Mr. Mechanic

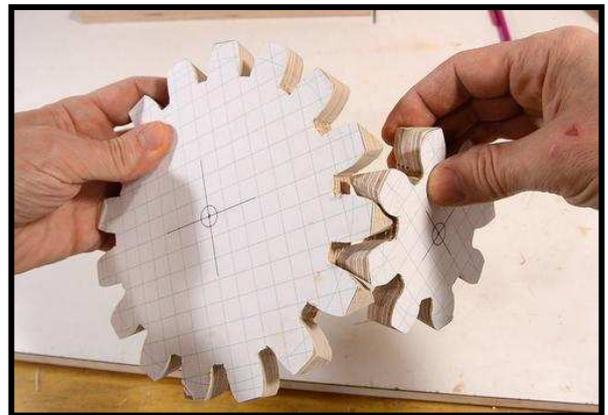
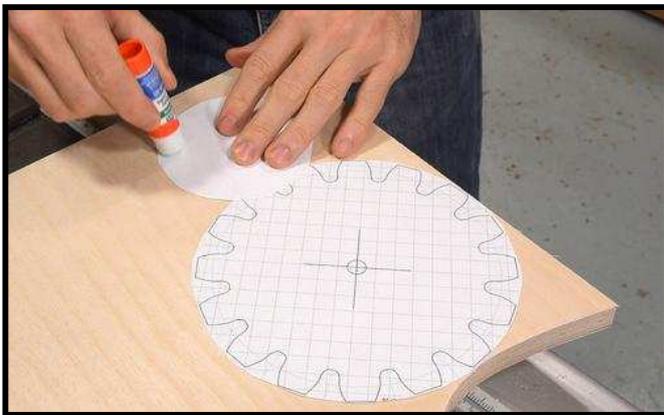
Elimination Round: MATERIAL SELECTION & PROCESS PLAN

- ✚ Max 2 members/team can participate in this round.
- ✚ Identify the manufacturing process and materials of the given component
- ✚ The selected teams shall have to appear for the final round.

Final Round: MAKE A MODEL

- ✚ The Raw materials (Sheet metal (or) wood (or) thermo coal (or) paper (or) any Ferrous Metals) will be given at the time of event.
- ✚ The Assembled components must be complete the proper motion.

EXAMPLES:



For any queries contact:

yaantrika2019@gmail.com

Technical Quiz



Technical Quiz Rules

- ✚ A team shall consist of max two students and only one team from each participating college can participate.
- ✚ The decision of the quiz-master will be final and will not be subjected to any change.
- ✚ Participants shall not be allowed to use mobile or other electronic instruments.
- ✚ Questions shall be in the form of multiple choice, True / False statement, Visuals, Specific-answer question etc.
- ✚ Audience shall not give any hints or clues to the competitors.

Elimination Round:

- ✚ Each team would be given a set of question paper containing 20 multiple choice objective type questions.
- ✚ Time limit - 20 minutes.
- ✚ Only 6 Teams would be selected for final stage rounds.
- ✚ In case of tie between 2 or more teams, further 5 questions would be asked for final selection.
- ✚ The selected teams shall have to appear for the final round.

Final Round:

- ✚ Each team would be asked 2 questions each.(Objective type or specific answer questions)
- ✚ 10 marks for each correct answer.
- ✚ If a team cannot answer the question, they can pass the question & then the question would be forwarded to the next team.
- ✚ Answering time is only 20 seconds.
- ✚ Team discussion is allowed.



For any queries contact:

yaantrika2019@gmail.com

Business Plan

- ✚ Business plans may be submitted by individuals or by teams.
- ✚ There must not be more than 3 in a team.

Final-round submission will be judged according to the following criteria:

- ✚ Is the business financially feasible?
- ✚ Quality of products, services and/or solutions
- ✚ Market opportunities and competition
- ✚ Team qualifications
- ✚ Overall attractiveness of the venture



For any queries contact:

yaantrika2019@gmail.com

General Instructions

- ✚ All the participants are required to be present at the venue 15 minutes before the commencement of each event.
- ✚ Regarding the results of the competition the decision of judges will be final
- ✚ Any form of miss conduct & indiscipline from the participants will result in termination of the team or college from the participation.
- ✚ All students must have their college ID card to attend and participate in events.
- ✚ All events have on-spot registration. The fee for registration is Rs.150 per person.