Saptha '24

70th Anniversary Celebrations of Mar Athanasius College Association

All Kerala Inter School Science/Technical Competition/Exhibition

The Prestigious Mar Athanasius College Association, Kothamangalam is organizing an All Kerala Inter School Science/Technical Competition/Exhibition as part of its 70th anniversary celebrations to showcase the talents of younger generation on 26-28th September 2024

Event Summary

Event	Date & Time	No.of Partcipants in a team	Contact Number	Event venue
Mathematics Quiz	26-09-2024 10.00 am	2	Dr. Latha S. Nair: 9847055911 Serein Elezabeth Joy: 9496308834	Students Centre, Mar Athanasius College
Animation	26-09-2024 01.30 pm	1	Prof. Pristy Paul: 9544354974 Alan Antony: 79070 20552	Room No. L-312, Electronics Block, Mar Athanasius College of Engineering
Web Design	26-09-2024 09.30 am	1	Prof. Sibu Skaria: 9447024547	Room No. MPV-110 and MPV-112, MP Varghese Block, Mar Athanasius College of Engineering
Science Quiz	27-09-2024 10.00 am	2	Dr. Joby Joseph: 9846090321	Students Centre, Mar Athanasius College
Ideathon	27-09-2024 09.30 am	1-3	Bifin James: 9645228789 Neha Savy: 8590924239	Room No. L-312, Electronics Block, Mar Athanasius College of Engineering
Working Model	27-09-2024 09.00 am	2	Dr. Georgekutty S Mangalath: 9048995510	Mar Athanasius College of Engineering
Still Model	27-09-2024 09.00 am	2	Prof. Paul George: 9349458957	Mar Athanasius College

General Rules

1. Competitions are open to 10th,11th and 12th standard students of recognized schools in Kerala.
2. Exhibitions are open to all.
3. Participants must produce ID proof from their school authority.
4. Participants should report to the registration desk 30 minutes before the commencement of event.
5. All participants must adhere to the guidelines and rules of the participating event.
6. Participants are required to maintain a fair and honest approach throughout the competition.
7. Decisions of judges of each event will be final.
8. Registration fee for each event is Rs.200/-.
9. Registration Fee can be paid to the following account number or by scanning the QR Code
    i. Account Name: Principal, Mar Athanasius College of Engineering
    ii. Account Number: 19990200002195
    iii. Bank Name and Branch: Federal Bank, Kothamangalam Town
    iv. IFSC: FDRL0001999
10. Visit www.mace.ac.in for registration.
11. Registration fee paid will not be refunded.

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Event Rules and Guidelines

Mathematics Quiz	1. *Each school can send a maximum of two teams, each consisting of two students* 2. *The preliminary round will begin at 10:30 am, followed by the final round.* 3. *Participation certificates will be issued to all participants.* 4. *The decision of the quiz master is final.* 5. *Contact: Dr. Latha S. Nair- 9847055911 or Serein Elezabeth Joy-9496308834 for more details.*
Animation	1. *The time duration of the competition will be 90 minutes.* 2. *The topic will be given 10 minutes before the starting of the competition.* 3. *OpenToonz in Ubuntu operating system should be used for creating the animation.* 4. *The created animation should be at least 45 seconds of duration.* 5. *The movie created should be exported to AVI format.* 6. *Participants can register as individual.* *Criterions of Evaluation* 1. *The association, expression and novelty of animation – 20%* 2. *Appearance and composition of characters generated – 20%* 3. *Expertise in using technology and effective movement of characters – 40%* 4. *Color combination and proportion -20%*

Web Design	1. ***Team Size***: *This will be an individual event.*
	 2. ***Duration***: *Duration of the competition will be one hour.*
	 3. ***Languages to Use***: *Only HTML and CSS shall be used to create the web pages. No other programming/ scripting languages or frameworks are allowed.*
	 4. ***Software Tools***: *Participants can use gedit /notepad text editors to write their code. Use of any software that automatically generates code is strictly prohibited.*
	 5. ***Theme Announcement***: *Theme for designing the website will be announced ten minutes before starting the competition.*
	 6. ***Resources***: *Participants can use only the resources available on the computer given to them, which includes images, videos, audios etc. No external resources, files, or online materials are permitted.*
	
	 Submission Requirements:
	
	 Website Structure:
	
	 1. *The website may consist of multiple pages.*
	 2. *All files related to the website (HTML files, images, videos, etc.) should be stored in the same folder where the web pages are being created.*
	 3. *The web pages should use relative paths referencing this folder.*
	 4. *Homepage: The homepage of the website shall be named as index.html .*
	 5. *Once finished, the participants should demonstrate the web pages to the judges before leaving the competition hall.*
	
	 Evaluation Criteria:
	
	 1. *Relevance to the Topic and Content Accuracy.*
	   a. *The content must be relevant to the given topic.*
	   b. *Proper use of language and grammar will be assessed.*
	 2. *Design and Aesthetics*
	   a. *The attractiveness and visual appeal of the page.*
	   b. *Simplicity and readability of the web pages.*
	 3. *Technical Excellence*
	   a. *Proper use of HTML and CSS tags.*
	   b. *Effective navigation between web pages.*
	   c. *Accuracy of hyperlinks and multimedia integration.*
	   d. *The website should include a reasonable number of pages, demonstrating a comprehensive understanding of web development.*
	 4. *User Experience*
	   a. *Ease of navigation and overall user experience.*

Science Quiz	1. *Each team can have a maximum of two members.* 2. *Individual participation is allowed .* 3. *Cross-School teams are not allowed.* 4. *There is no specific theme for the competition (general quiz).*

	5. *The decision of the Quiz Master will be final.*
Ideathon	*Guidelines:* 1. *Each team consists of 1 to 3 members.* 2. *Socially relevant topics will be given for ideation.* 3. *Students will prepare ppt or any other software to present their solution aligning the problem statement.* 4. *Students will present their ideas and solution in front of the judges.* 5. *The presentation should include an introduction to the problem, proposed solution, feasibility analysis, and potential social impact.* 6. *Teams should be ready to explain their idea and answer any questions from the judges.* 7. *Evaluation will be based on their idea, feasibility, presentation, teamwork, social impact, etc.* 8. *Mentorship will be provided during the ideathon to help participants refine their ideas.* 9. *Duration: 3 hours* *Event Structure:* 1. *The ideathon will begin with a briefing session where the themes and event rules will be explained.* 2. *Participants will have a set period to develop their ideas and prepare their presentations.* 3. *The final presentation session will be held before a panel of judges, followed by a Q&A.* 4. *The decision of the judges will be final and no sort of disputes will be entertained.*
Working Model	***Rules for registration*** 1. *A school team may be represented by a maximum of two students per exhibit and one Mentor/Supervisor/Escort Teacher.* 2. *A team member can participate in only one project presentation.* 3. *The team should display their project throughout the event schedule.* 4. *Failing this the team may be liable for disqualification.* 5. *Participants should bring their requirements along with them on the day of the event.* 6. *The participating school/team will have to bear all expenses related to participation in the event.* 7. *The participating teams will have to make their own lodging/boarding arrangements at the venue city of exhibition.* 8. *Students from any discipline can participate.* ***Guidelines for the Project*** *1. The exhibit/model may be either* - *A working model* - *An investigation-based project* *2. The exhibit/project may include* - *working model to explain a concept, principle, or a process* - *an indigenous design of a machine/device* - *an innovative/inexpensive design or technique* - *application of basic principles of Science/Technology* - *Scheme/design of a device or machine to reduce production cost* - *Investigation based study* *3. Greater emphasis may be given to investigation-based innovative projects to kindle scientific method and scientific approach in the students.* *4. A brief write-up about the main-theme and sub-themes is enclosed for reference. The participating teams may prepare the exhibits/projects on any one of the sub-themes satisfying one or more of the stated parameters.* *5. It is mandatory to submit a neatly typed brief write up (approximately 100 words) about the exhibit at regional as well as national level at the time of registration.* ***Criteria for Evaluation*** 1. *Novelty and innovations in the exhibit/ model (20%)* 2. *Scientific thought/ principle/ approach (20%)* 3. *Design (20%)* 4. *Technical skill, workmanship, and craftsmanship (15%)* 5. *Utility/educational value for layman, children, etc.; (15%)*

6. *Presentation - aspects like demonstration, explanation, and display (10 per cent).*

Note:

- *The decision of the judges will be final and no sort of disputes will be entertained.*
- *Rules may be changed without prior notice to the participants.*

How to Display the Exhibits and Models in the Exhibition

- *Names of the student(s) and guiding teacher(s), name of the school and brief description about the exhibit.*

Still Model	1. **Team Composition:** *Students can participate individually or in teams of up to 2 members accompanied by a teacher.*
	2. **Registration:** *All participants must register by the specified deadline. Late entries will not be entertained. Participants should submit a copy of the ID cards and an authorization letter from their school authority.*
	3. **Model Specifications**
	  a. **Theme Adherence:** *All models must align with the competition theme*
	  b. **Size Limits:** *Models should not exceed specified dimensions (122cm x122cm x 100cm) to ensure they fit within the display space.*
	  c. **Materials:** *Models must be made using safe, non-toxic, and eco-friendly materials. The use of recycled or upcycled materials is encouraged.*
	  d. **Functionality:** *Models should demonstrate a clear concept, with moving parts or interactive elements where applicable.*
	  e. **Power Supply:** *If the model requires electricity, only battery-operated systems are allowed. No direct electrical connections will be provided.*
	4. **Presentation and Documentation**
	  a. **Oral Presentation:** *Each team must give a brief presentation (3-5 minutes) explaining the concept, design process, and environmental benefits of their model.*
	  b. **Written Report:** *A report (1-2 pages) detailing the science behind the model, the materials used, and how it contributes to sustainability must be submitted along with the model.*
	  c. **Labeling:** *All models must be clearly labelled with the project title, participants' names, and school name which are removable.*
	5. **Judging Criteria**
	  a. **Innovation & Creativity (30%)**: *Originality of the concept and creative use of materials.*
	  b. **Scientific Accuracy (25%)**: *How well the model demonstrates scientific principles and green technology.*
	  c. **Practicality & Real-World Application (20%)**: *Potential of the model to be implemented in real-world scenarios.*
	  d. **Presentation & Communication (15%)**: *Clarity and effectiveness of the oral presentation and written report.*
	  e. **Sustainability (10%)**: *Use of eco-friendly materials and the model's potential environmental impact.*
	6. **Competition Rules**
	  a. **Time Limits:** *Participants will have a set amount of time to set up their models (e.g., 30 minutes) before judging begins.*
	  b. **Supervision:** *Models must be set up and operated by the participants without any external help during the competition.*
	  c. **Safety Compliance:** *All models must be safe to handle and operate. Any model deemed unsafe by the organizers will be disqualified.*
	  d. **Respectful Conduct:** *Participants are expected to maintain a respectful and sportsmanlike attitude throughout the competition.*
	7. **Disqualification**
	  a. **Non-Compliance:** *Any team that does not adhere to the rules and regulations may be disqualified.*
	8. **Additional Considerations**
	  a. **Judges' Decisions:** *All decisions made by the judges are final and any disputes will not be entertained.*
	  b. **Property Rights:** *All models remain the property of the participants but may be displayed by the organizers after the competition.*