

WORKSHOP SCHEDULE

Day 1 – Introduction & Rocket Design

9:00 – 9:30 AM:

- Introduction to Model Rocketry & Workshop Overview

9:30 AM – 12:00 PM: Basics of Rocket Design

- Components of a model rocket
- Stability and aerodynamics
- Factors influencing performance

1:00 – 3:30 PM: Open Rocket Designing

- Rocket modelling and simulation
- Design review and feedback

3:30 – 4:00 PM: Rocketry Quiz

Day 2 – Construction & Launch

9:00 AM – 12:30 PM: Rocket Construction

- Step-by-step assembly
- Quality checks

1:30 – 2:30 PM: Preparing for Launch

- Safety protocols
- Launch pad setup
- Final inspections

2:30 – 4:00 PM: Rocket Launch & Flight Analysis



CONTACT US

Coordinators

- Dr. Elizabeth Varghese
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VENUE

MAR BASELIOS COLLEGE OF ENGINEERING
AND TECHNOLOGY (Autonomous)
Mar Ivanios Vidyanagar
Nalanchira P.O, Thiruvananthapuram,
Kerala, India, Pin: 695015



Scan this QR code or click the below link to register :

<https://forms.gle/AzeqvqxqVM5UhorB58>



MAR BASELIOS
COLLEGE OF ENGINEERING AND TECHNOLOGY
— AUTONOMOUS —



TWO-DAY HANDS-ON BASIC

MODEL ROCKETRY WORKSHOP

ORGANIZED BY

CONTROL SYSTEMS RESEARCH GROUP, DEPT. OF
ELECTRICAL AND ELECTRONICS ENGINEERING
IN ASSOCIATION WITH ILLUMINA

&

THRUST TECH INDIA PVT. LTD.

7 - 8 MARCH 2026



ABOUT THE INSTITUTION

Mar Baselios College of Engineering and Technology (MBCET) was established in the Year 2002 by the Major Archdiocese of Trivandrum with the noble objective of providing quality technical education based on fundamental human values, without distinction of caste, creed or religion. Being a proud part of the Mar Ivanios Vidyanagar on the blessed Bethany Hills, deriving the inner strength of truth and goodness from the visionary patrons. MBCET inspires the aspirations of the generations of knowledge seekers. MBCET offers B.Tech Programmes in seven specializations, M.Tech Programmes in seven Specializations, and PhD programs. Five B. Tech Programs are accredited by NBA Tier I and the institution is accredited by NAAC with 'A'Grade since 2016. The UGC has conferred Autonomous status on MBCET which has been notified by the KTU as per the direction of the Govt. of Kerala in 2020.

ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering was established in the year 2002. Department is catering to the needs of moulding Engineers in one of the prime and emerging fields that emphasize the fundamental concepts of the Electrical Engineering comprising the topics of Power systems, Power Electronics and Drives. The basic skills are augmented with a blend of knowledge in Control and Industrial Automation, Electronics, Integrated Circuits, Communication Engineering, Computer Technology and so on. The Department offers two Undergraduate programmes, one Postgraduate programme and Ph.D programme.

ABOUT THE WORKSHOP

The Two-Day Basic Model Rocketry Workshop, conducted by Thrust Tech – the Registered Space Tutor of ISRO – is a comprehensive hands-on program designed to introduce Higher Secondary and B.Tech students to the fundamentals of rocket design and aerospace engineering. The workshop integrates theory with practical application, covering rocket components, aerodynamics, stability, and performance principles, followed by software-based rocket design using professional simulation tools. Participants will then construct their own model rockets under expert guidance and culminate the experience with a live rocket launch and performance analysis session. This program aims to ignite scientific curiosity, strengthen concepts, and provide real-world exposure to space technology and engineering practices.

WHO CAN APPLY?

- B.Tech /M.Tech Students (All Branches)
- Higher Secondary School Students (Science Stream)

REGISTRATION FEE

The registration fee for the Two-Day Basic Model Rocketry Workshop is Rs.1600/- per participant.

The fee includes:

- Registration charges
- Workshop materials and kit
- Lunch & Refreshments
- Certificate of Participation

HOW TO APPLY?

- Workshop will be conducted in **OFFLINE** mode
- Interested participants must complete the registration by filling out the google form using the link :
<https://forms.gle/AzeqvqxqVM5UhorB58>
- Upload the screenshot of the successful payment transaction and a valid School or College ID card in the Google Form.
- **Registration will be confirmed only after verification of payment and submitted details.**
- It is desirable to have individual laptops.

ACCOUNT DETAILS

Account Name: M/S ILLUMINA

Account Number: 0483053000013508

IFSC Code: SIBL0000483

South Indian Bank, Nalanchira branch

IMPORTANT DATES

- **Last date of registration : 02-03-2026**
- **Intimation of selection : 03-03-2026**

Seats are limited. Registration will be based on first come first serve basis.

ACCOMODATION

Limited accommodation facilities are available for outstation participants on chargeable basis, subject to prior request and availability. Interested participants are requested to contact the coordinators to confirm availability of rooms.