

# IGNITE 2022



## Water Rocket Challenge 2022 - Special Edition

### Editor in Chief

**Dr. Srinivasan Alavandar**  
Principal, ACT

### Editors

**Ms. Mary Surya Kala, ASP - S&H**  
**Ms. P. Nivedha, AP - S&H**  
**P. Mokeshwar, Student - AI&DS**

### Special Edition Editors

**Dr. S. K. Narendranathan, Head - ASE**  
**Mr. A. Shankar, AP - ASE**  
**Mr. S. Prasanth, AP - ASE**  
**U. Devadharshini, Student - ASE**

## SEDS – AGNI CHAPTER



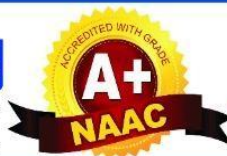
SEDS (Students for the Exploration and Development of Space) was founded in 1980 at MIT, Princeton University, and Yale University by Peter Diamandis, Robert D. Richards, and Todd B. Hawley and consists of an international group of high school, undergraduate, and graduate students from a diverse range of educational backgrounds with their common interest towards space. SEDS envisions a space-faring human civilization and believes that the only way to achieve this would be to utilize the immense potential of our youth by empowering them. SEDS – AGNI CHAPTER was founded in 6<sup>th</sup> March 2022

BE AN ACTIONeer, Aspire To BE the BEST



# Agni College of Technology

Approved by AICTE / UGC, New Delhi, Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
 ISO 9001:2015 Certified Institution: Estd.2001  
 OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 www.act.edu.in



**OFFICE BEARERS**

**DEVADHARSHINI U**  
President



**OMPRAKASH S**  
Vice President



**YUKESH M**  
Event Head



**BHUVANESHWARI A**  
Treasurer



**JEEVANANTHAM S**  
Head, Projects



**SANDHIYA S**  
Head, Outreach Programmes

BE AN ACTioneer, Aspire To BE the BEST

# INTRA-COLLEGE WATER ROCKET CHALLENGE - 2022

BE AN ACTIONeer, Aspire To BE the BEST

**Agni College of Technology**  
Approved by AICTE / UGC, New Delhi. Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 609 130. Phone: 044 6740 9441 Mobile: 9445024081 www.act.edu.in

**ACT CHENNAI**

**DEPARTMENT OF AEROSPACE ENGINEERING & SEDS - AGNI CHAPTER**

Jointly Organizes

**Intra College WATER ROCKET Challenge**

**10.11.2022 10.00am**

**Student Co-ordinator**  
U.Devadharshini  
President: SedS Agni

**Faculty Co-ordinator**  
Mr. S. Prasanth  
AP-ASE

**Faculty Co-ordinator**  
Mr. A. Shankar  
AP-ASE

**Dr. S. K. Narendranathan**  
Hod-Aerospace Engg.

**Dr. Srinivasan Alavandar**  
Principal - ACT

BE AN ACTIONeer, Aspire To BE the BEST

**Agni College of Technology**  
Approved by AICTE / UGC, New Delhi. Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 609 130. Phone: 044 6740 9441 Mobile: 9445024081 www.act.edu.in

**ACT CHENNAI**

**Intra College WATER ROCKET Challenge**

**Guidelines:**

1. Only plastic soft drink bottles and cardboard are to be used for the rocket body.
2. All energy given to the rocket must only come from the water/air pressure combination. No other source of energy is allowed. You can only compress air manually, with a foot or bicycle pump.
3. Only tap water shall be used in the rocket, and the water shall be provided by the organizers. Water brought by the team shall not be allowed in the rockets.
4. No chemical or aerated water will be added for launching.

**Competition Rules:**

Rule No.1: The competitors add the desired amount of water to their rockets prior to being pressurized to competition pressure (20-80 psi).  
Rule No.2: Competitors select the desired launch angle.  
Rule No.3: Each rocket is officially launched and judged only once.  
Rule No.4: Rockets considered unsafe to launch by the judges will be disqualified.  
Rule No.5: The distance from the launcher to the closest part (possibly detached) of the fully-at-rest rocket is measured by the judges.

**Student Co-ordinator**  
U.Devadharshini  
President: SedS Agni

**Faculty Co-ordinator**  
Mr. S. Prasanth  
AP-ASE

**Faculty Co-ordinator**  
Mr. A. Shankar  
AP-ASE

**Dr. S. K. Narendranathan**  
Hod-Aerospace Engg.

**Dr. Srinivasan Alavandar**  
Principal - ACT

The Department of Aerospace Engineering & SEDS - AGNI CHAPTER has organized an INTRA-COLLEGE WATER ROCKET CHALLENGE - 2022 on 10<sup>th</sup> November 2022 under the guidance of Dr. S. K. Narendranathan, Head and Mr. S. Prasanth and Mr. A. Shankar, faculty coordinators of SEDS - AGNI CHAPTER. The event was held in the presence of Dr. Srinivasan Alavandar, Principal.

## PARTICIPANTS



**ARISTOPHILE – CSE - II**  
Nithyasri V G  
Sakshi Rajesh Bhavsar



**ELITE – EEE - III**  
Hariharan R  
Kasirajan T  
Ajith Krishnan T



**BEST TRIOS FOREVER – CME - II**  
Sanjana O A  
Dhanush P

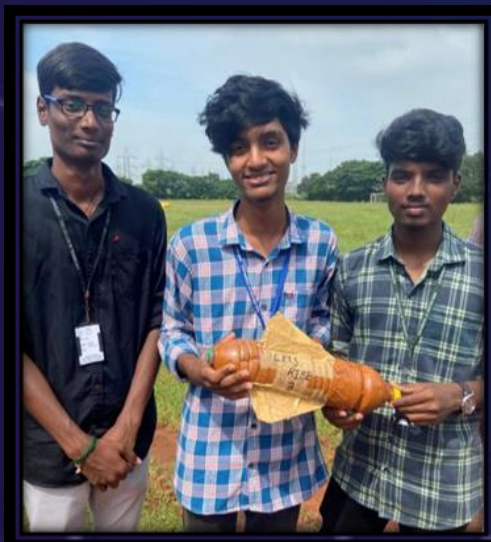
BE AN ACTIONeer, Aspire To BE the BEST



**MHT II**  
Yogapriyan L  
Sivanesh N  
Ragul R



**MAE II**  
Venkateshwaran T S  
Vignesh M  
Sibi Raynord U



**MHT II**  
Naveen Kumar A  
Mahdi Immamudeen H  
Arun Prasath A



**LET'S RISE - MHT II**  
Anwar Firthos M  
Kannan S  
Arun Prasanth A

BE AN ACTIONeer, Aspire To BE the BEST



## MAVERICKS – MHT II

Parvish J  
Hari Prasath D  
Harini P



## TEAM H<sub>2</sub>O – ASE III

Bhuvaneshwari A  
Sandhiya S



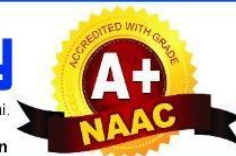
## SPACE BOYS – ASE II

Prathip Kumar S  
Ajay S

BE AN ACTIONeer, Aspire To BE the BEST

# Agni College of Technology

Approved by AICTE / UGC, New Delhi, Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 [www.act.edu.in](http://www.act.edu.in)





## MOON WALKERS – ASE III

Varinder Kumar Mourya

Mutharasi M

Sanjay Krishna B

## VR\_2 – MHT IV

Vidhyasagar N

Rohith B



## GALLERY

BE AN ACTIONeer, Aspire To BE the BEST

**Agni College of Technology**

Approved by AICTE / UGC, New Delhi, Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 www.act.edu.in

**DEPARTMENT OF AEROSPACE ENGINEERING**  
&  
**SEDS - AGNI CHAPTER**  
Jointly Organizes

Intra College  
**WATER ROCKET**  
Challenge

10.11.2022 10.00am

|                                                                       |                                                          |                                                         |                                                                                |                                                    |
|-----------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|
| Student Co-ordinator<br><b>U.Devadharshini</b><br>President-Seds Agni | Faculty Co-ordinator<br><b>Mr. S. Prasanth</b><br>AP-ASE | Faculty Co-ordinator<br><b>Mr. A. Shankar</b><br>AP-ASE | Faculty Co-ordinator<br><b>Dr. S. K. Narendranathan</b><br>Hod-Aerospace Engg. | Principal - ACT<br><b>Dr. Srinivasan Alavandar</b> |
|-----------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------|



BE AN ACTIONeer, Aspire To BE the BEST

**Agni College of Technology**

Approved by AICTE / UGC, New Delhi, Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 www.act.edu.in



## GALLERY

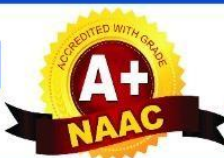


BE AN ACTIONeer, Aspire To BE the BEST



# Agni College of Technology

Approved by AICTE / UGC, New Delhi, Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 [www.act.edu.in](http://www.act.edu.in)



## VALEDICTORY FUNCTION



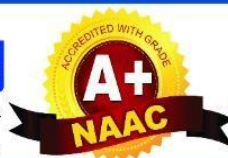
Dr. L. Ranganathan, Head, Department of Mechanical Engineering & Dr. S. K. Narendranathan, Head, Department of Aerospace Engineering distributed the Cash Award to the winners and Participation Certificates to the Participants.

BE AN ACTIONeer, Aspire To BE the BEST



### Agni College of Technology

Approved by AICTE / UGC, New Delhi, Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 [www.act.edu.in](http://www.act.edu.in)



## PRIZE WINNERS



### AKATSUKI - MHT - II

Karthik K  
Kabilan R  
Aisho I S

**Rocket Range - 83 m**



### MHT - II

Naveen Kumar A  
Mahdi Immamudeen H  
Arun Prasath A  
**Rocket Range - 70.3 m**



### FOC CREW - ASE - II

Surya K  
Suriya kanthan K  
Samson S

**Rocket Range - 69 m**

BE AN ACTIONeer, Aspire To BE the BEST

# Agni College of Technology

Approved by AICTE / UGC, New Delhi, Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 www.act.edu.in



# CONSOLATION PRIZE



## HAKUNAMATATA – ASE - II

Selvakumar B

Balachandar R

Karthi U K

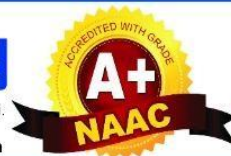
Rocket Range – 93 m



BE AN ACTIONeer, Aspire To BE the BEST

# Agni College of Technology

Approved by AICTE / UGC, New Delhi, Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 www.act.edu.in



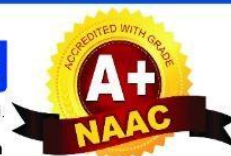
# GALLERY



BE AN ACTIONeer, Aspire To BE the BEST

## Agni College of Technology

Approved by AICTE / UGC, New Delhi, Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 www.act.edu.in



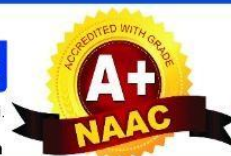
## GALLERY



BE AN ACTIONeer, Aspire To BE the BEST

# Agni College of Technology

Approved by AICTE / UGC, New Delhi, Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 www.act.edu.in



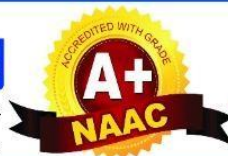
## GALLERY



BE AN ACTIONeer, Aspire To BE the BEST

# Agni College of Technology

Approved by AICTE / UGC, New Delhi, Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 www.act.edu.in



## CURTAIN DOWN



The HoD and the faculty members of the department appreciate the coordinators and the organizing team of **SEDS - AGNI CHAPTER** for their immense conduct of the event **INTRA-COLLEGE WATER ROCKET CHALLENGE - 2022.**

BE AN ACTIONeer, Aspire To be the BEST



# Agni College of Technology

Approved by AICTE / UGC, New Delhi, Accredited by NAAC & NBA, Affiliated to Anna University, Chennai.  
ISO 9001:2015 Certified Institution: Estd.2001  
OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 www.act.edu.in

