



Emirates Aviation University Presents

# SUMMER CAMP '23





# WHAT IS A SUMMER CAMP?

**THE SUMMER CAMP IS SPECIFICALLY DESIGNED FOR HIGH SCHOOL STUDENTS TO GAIN KNOWLEDGE ABOUT THE AVIATION INDUSTRY AND EXPLORE CAREER OPPORTUNITIES AS AERONAUTICAL, AEROSPACE, OR AVIONICS ENGINEERS.**





**AIM**

**THE AIM IS TO OFFER HIGH SCHOOL STUDENTS  
ACADEMIC AND PRACTICAL ACTIVITIES THAT FOCUS  
ON THE AVIATION ENGINEERING INDUSTRY.**

# OBJECTIVE FOR THE STUDENTS

**TO HAVE A BASIC UNDERSTANDING OF AERONAUTICAL & AVIONICS  
ENGINEERING SUBJECTS.**

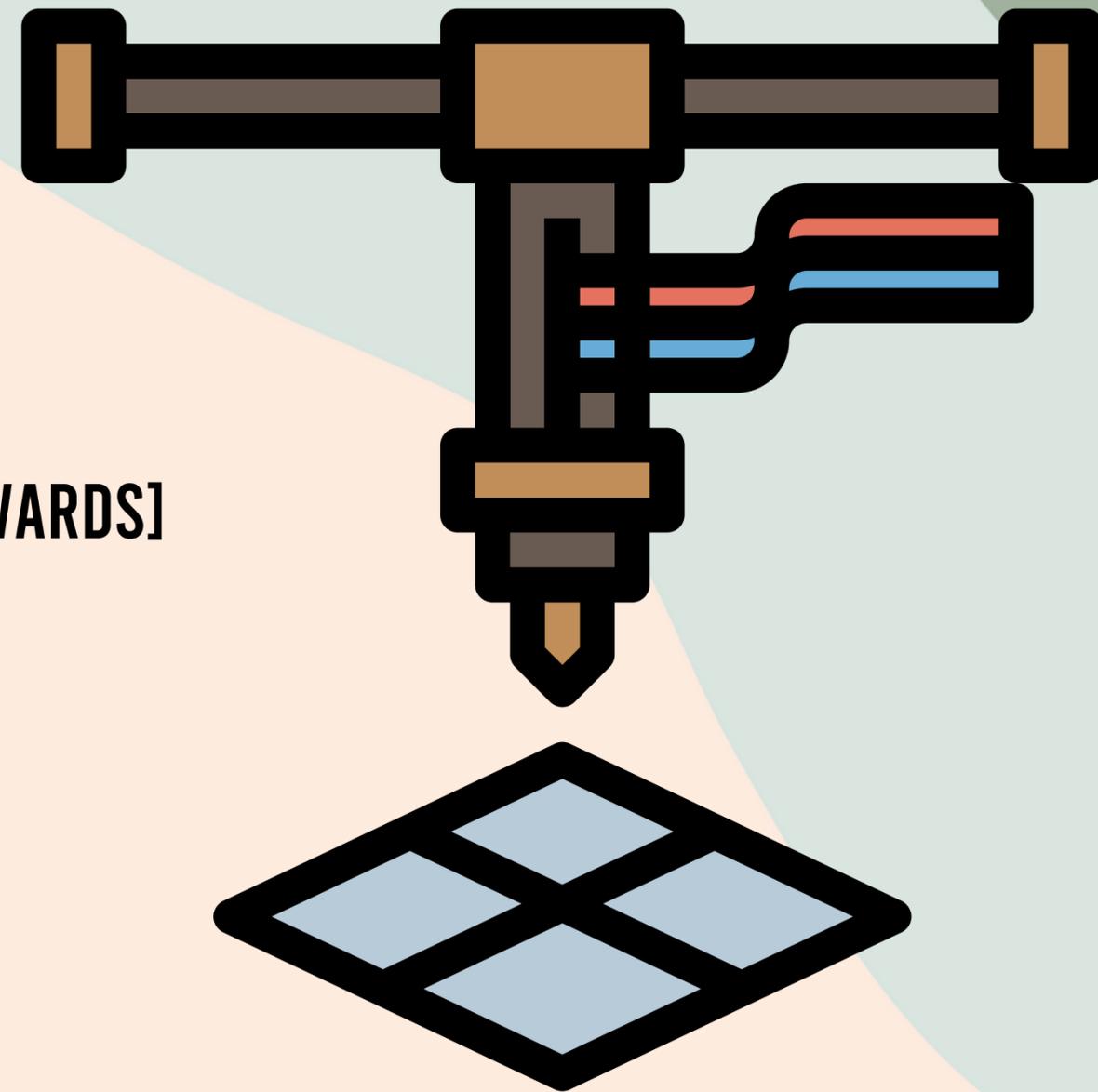
**TO CONDUCTE BASIC MECHANICAL, ELECTRICAL EXPERIMENTS.**

**TO HAVE APPLIED CLASSROOM KNOWLEDGE TO EDUCATIONAL  
ACTIVITIES.**



# ELIGIBILITY

- ✓ HIGH SCHOOL STUDENTS AGED 17-19 YEARS [11TH GRADE ONWARDS]
- ✓ STUDENTS WITH STEM BACKGROUND



# SUMMER CAMP DETAILS

## WEEKLY PLAN

**EACH SESSION WILL  
RUN FOR 1 WEEK  
[5 DAYS]**

## MONTHLY PLAN

**SUMMER CAMP WILL  
RUN FOR 3 SESSIONS,  
I.E. 3 WEEKS**

## PER SCHOOL

**MAXIMUM 4 STUDENTS  
FROM EACH SCHOOL,  
I.E. 5 SCHOOLS PER  
SESSION**

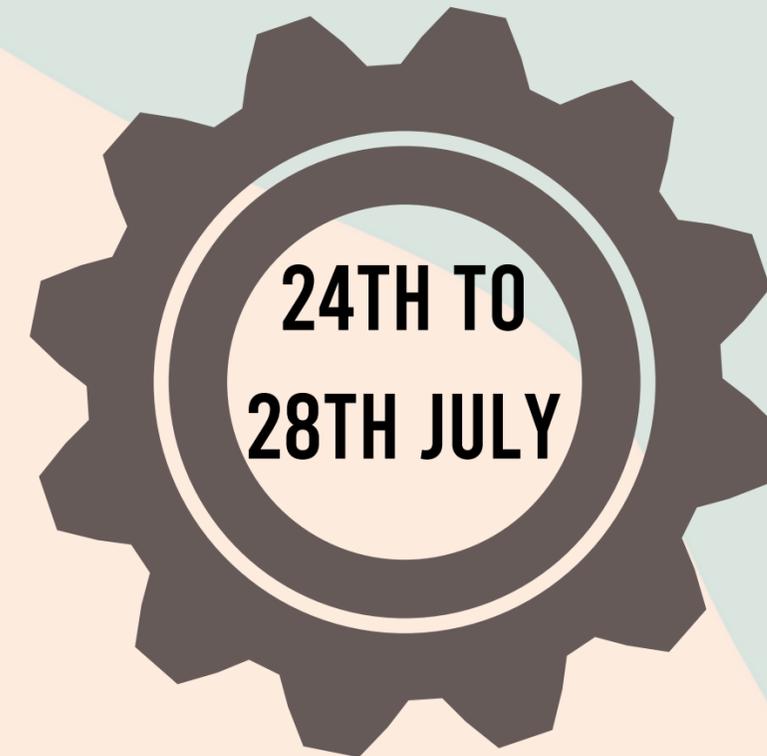
## TOTAL SCHOOLS

**A TOTAL OF 15 - 20  
SCHOOLS AND 60  
STUDENTS WILL  
PARTICIPATE**



# WHEN AND WHERE

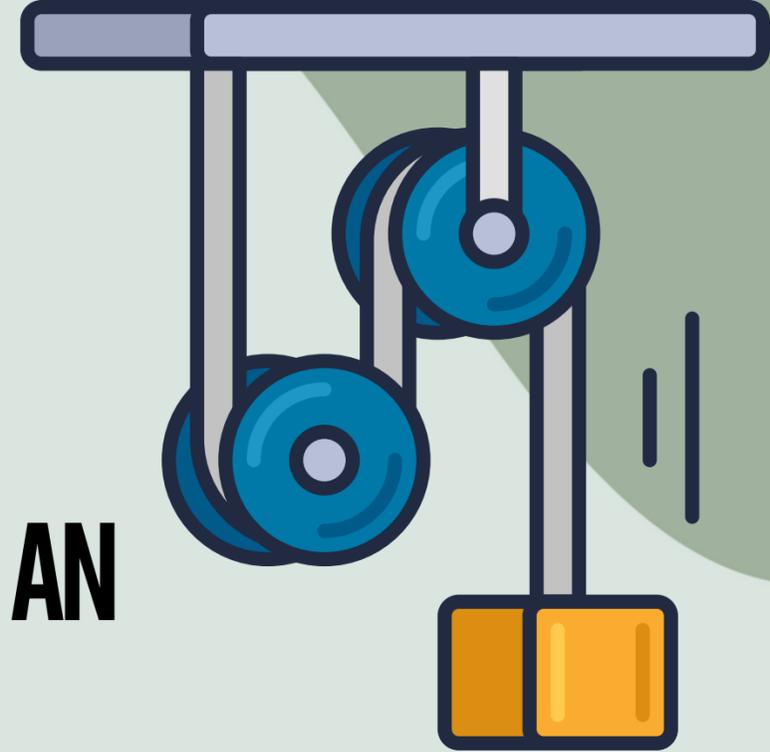
**SUMMER CAMP WILL RUN FROM 10TH JULY TO 28TH JULY, 2023**



**THE EMIRATES AVIATION UNIVERSITY CAMPUS WILL BE THE VENUE FOR ALL SUMMER CAMP SESSIONS AND ACTIVITIES.**

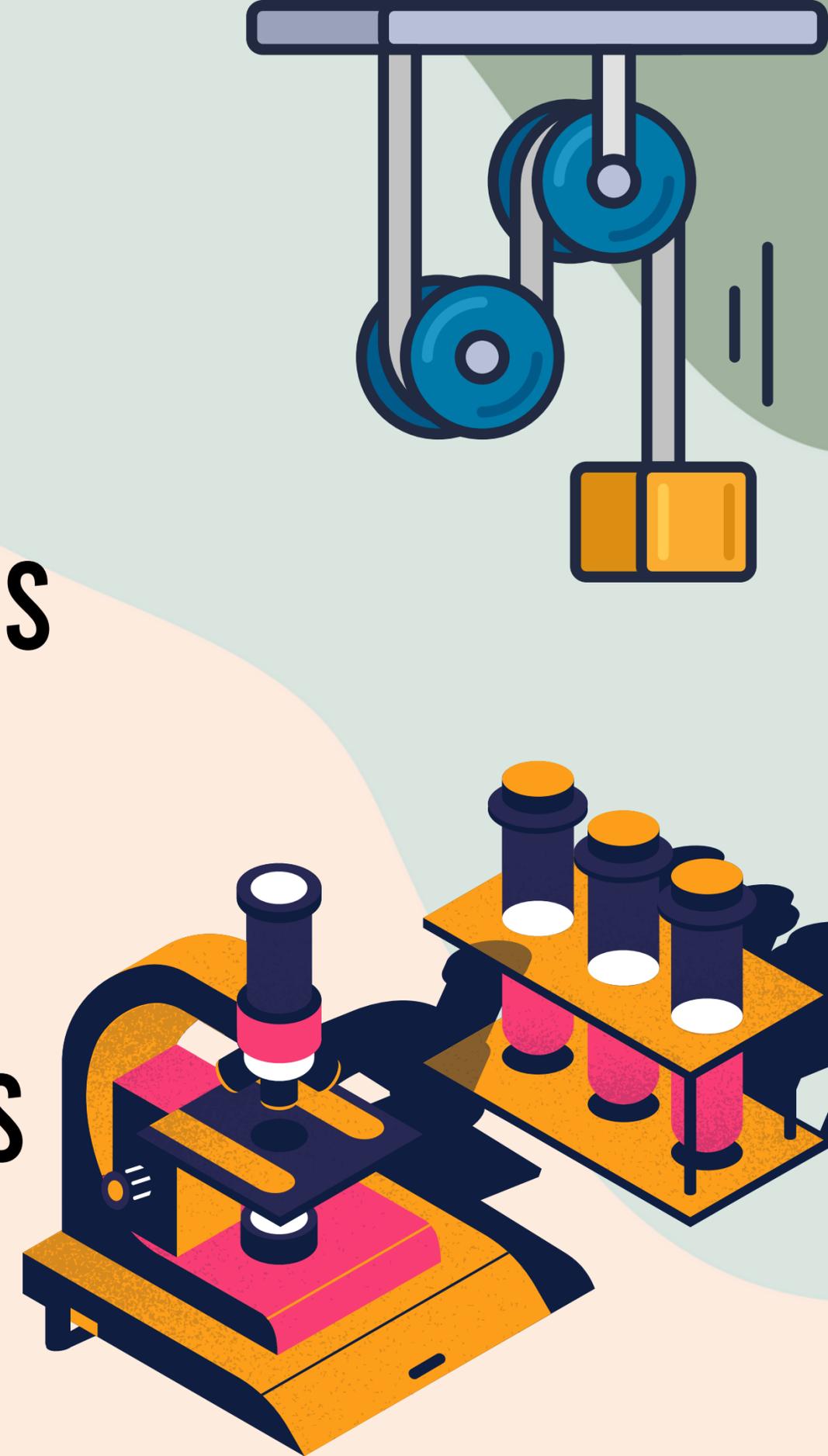
# EXPERIMENTS

- **WIND TUNNEL EXPERIMENT TO STUDY AERODYNAMICS OF AN AIRCRAFT WING**
- **EXPERIMENT TO STUDY THE BASIC LAWS OF ELECTRONICS**
- **ENGINE WORKSHOP**
- **COMPUTER NUMERICAL CONTROLLED SYSTEMS [3D PRINTING, MILLING, AND LATHE]**



# ACTIVITIES

- **DRONE SYSTEMS**
- **HYDRAULIC AND PNEUMATIC SYSTEMS**
- **MOBILE CONTROLLED PAPER PLANE**
- **WATER ROCKET**
- **FLIGHT SIMULATOR**
- **AUTOMATION AND CONTROL SYSTEMS**



# REGISTRATION

- PARTICIPATION IN THE SUMMER CAMP IS RESTRICTED TO STUDENTS FROM GRADE 11 AND ABOVE.
- EACH SCHOOL CAN ENROLL A MAXIMUM OF FOUR STUDENTS ONLY.
- REGISTRATION WILL BE ON A FIRST-COME, FIRST-SERVED BASIS AND LIMITED TO 20 SLOTS PER SESSION.
- THE REGISTRATION FEE PER PARTICIPANT IS **AED 1000**.
- KINDLY COMPLETE THE REGISTRATION FORM AND SEND IT TO [AVIATIONCAMP@EAU.AC.AE](mailto:AVIATIONCAMP@EAU.AC.AE) TO REGISTER FOR THE SUMMER CAMP.





# REGISTRATION

**FOR MORE INFORMATION, PLEASE CONTACT:  
MR. ALA EDDINE AJENGUI**

**TELEPHONE: 04 605 0242**

**EMAIL: AVIATIONCAMP@EAU.AC.AE**

**LOCATION: EMIRATES AVIATION UNIVERSITY,  
ACADEMIC CITY, DUBAI.**



# SCHEDULE

Time	8:30 9:00	9:00 9:30	9:30 10:00	10:00 10:30	10:30 11:00	11:00 11:30	11:30 12:00	12:00 12:30	12:30 13:00	13:00 13:30	13:30 14:00	14:00 14:30	14:30 15:00	15:00 15:30	
Mon			Welcome to Our World <i>(Introduction &amp; Campus Tour)</i> 			Elevate Your Energy <i>(Break Refreshments)</i> 		The Power of Smart Systems <i>(Sensors and Actuators WS)</i> 			Transforming Concepts to Reality <i>(AutoCAD &amp; 3D Printing)</i> 				
Tue	Powering Innovation <i>(Electrical &amp; Electronic Principles)</i> 		Automation and Control Systems <i>(Robotics - PT1)</i> 			Boost Station <i>(Break Refreshments)</i> 		Automation and Control Systems <i>(Robotics - PT2)</i> 			The Future of Flight <i>(Drone System Lecture)</i> 		The Art of Drones <i>(Drone Building - PT1)</i> 		
Wed	The Science of Airflow <i>(Aerodynamics)</i> 		Engineering in Action <i>(Wind Tunnel &amp; Hydraulics Experiments)</i> 			Quick Bite Break <i>(Break Refreshments)</i> 		The Art of Drones <i>(Drone Building - PT2)</i> 			Fine Tuning Your Drone <i>(Drone Calibration)</i> 				
Thur	Taking it to the Skies <i>(Drone Flying)</i> 			The Magic of Combustion <i>(Engine Activity)</i> 		Snack Attack Break <i>(Break Refreshments)</i> 		The Magic of Flight in Your Hands <i>(Mobile Controlled Paper Plane)</i> 			Rocket Science Made Fun <i>(Water Rocket Construction)</i> 				
Fri	From Concept to Launch <i>(Water Rocket Launching)</i> 			Experience the Thrill of Flight <i>(Flight Simulator Activity &amp; Flight Mechanics)</i> 				Energy Recharge Hub <i>(Break Refreshments)</i> 			The Grand Finale <i>(Closing Ceremony)</i> 				