



# JAWAHARLAL COLLEGE OF ENGINEERING AND TECHNOLOGY

## DEPARTMENT OF AERONAUTICAL ENGINEERING - NEWS LETTER

ISSUE 1 | VOLUME 5

### AARSH 2K18

**JALA VIHAAGA**

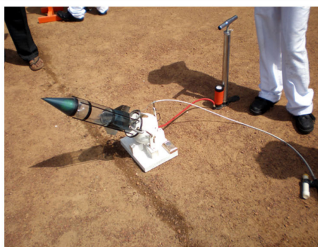
**PLANEADOR**

**AEROGAMI**

**BEST AERO  
ENGINEER**

**CAD MAQUETTE**

AARSH 2K18 is the annual science and technology festival of Jawaharlal College of Engineering and Technology, Palakkad. It also refers to the independent body of students who organize this event along with many other social initiatives and outreach programs around the year. As the part of AARSH 2K18 Department of Aeronautical Engineering, had conducted various technical events & games.

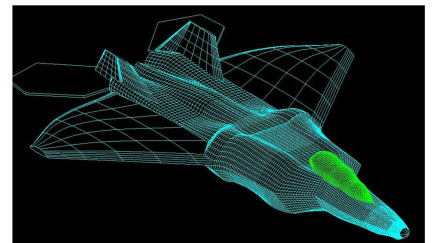


#### JALA VIHAAGA

3...2... 1... Lift Off Welcome to Aqua strike. Your mission should you choose to accept it... is to build an unrivalled water rocket that can survive the trials because when it comes down to the seas, only the smartest fish survive. Speed, Range, Accuracy, you've got to excel in them all. Rocketeer, do you accept?

#### CAD MAQUETTE

World of designing is running more than the speed of light. Now it's time to express your imagination power. Now the battle has begun, so challenge your mind.



#### BEST AERO ENGINEER

Knowledge is power. This has never rung truer than in the quizzing world. It's survival of the smartest, so you have got to bring your A game. If you know all the answers, you hold all the cards, nothing else to it. Sharpen those grey cells and prepare for an intellectual extravaganza like no other.

#### AEROGAMI

Flying paper planes was a hobby that fascinated us as kids and the beauty involved in it's principles unravel as we delve deeper into science. The wonders of flying planes hold an unknown realm of secrets beneath it's wings. Based on the origami of air planes, the event AEROGAMI is about designing miniature planes and understanding the working of real size aero planes. The group who made the plane which sustains maximum time in the air will be the winners

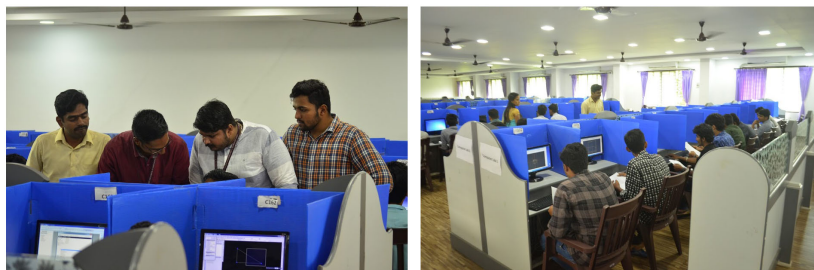




## VORTEX2K18

VORTEX2K18 a STATE LEVEL TECH FEST, conducted on 25th July 18 organized by Department of Aeronautical Engineering and Department of Mechanical Engineering of Jawaharlal College of Engineering and Technology, Palakkad. As the part of VORTEX2K18, following events were conducted.

1. CAD MODELLING
2. TECHNICAL QUIZZ



CAD modeling takes many different forms depending on the type of project. Some models are simple two-dimensional representations of various views of an object. Others are elaborate three-dimensional cross-sections that show every detail in great depth. Some CAD models are even animated, showing how all of the components of the model work together to complete its function.

### CAD MODELLING

### TECHNICAL QUIZZ



A technical quiz is a form of game or mind sport, attempt to answer questions correctly. It is a game to test knowledge about a certain subject. Many student's from different colleges had actively





## Entrepreneurship

Awareness session has been conducted to the students of Aeronautical Engineering department handled by Asst. Professor Ashif Maheen and his Team



A Technical talk on ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING has been handled by Mr.RAVINDRAN-OPERATIONS MANAGER, and Mr.KUMARAN-Artificial Intelligence and Data Analytics Expert of Aerofolic Business Solution Aerofolic Business Solution, VetriGarden, Peelamedu, Coimbatore, Tamil Nadu 641004 on 17th November 18.

## SEMINAR ON AI & ML

## Ponnonam 2018

Students of aeronautical engineering had participated at onam celebration (Ponnonam 2018) hosted by Jawaharlal college of Engineering and Technology and performed various arts.





## INDEPENDANCE DAY



As of every year Jawaharlal college of Engineering and Technology had celebrated independence day . Students of Aeronautical Engineering department have participated in the same.

## PECSAGA 2018



Jawaharlal college of Engineering and Technology kabaddi team was the runner up of Private Engineering and Technology Sports and Games (PECSAGA 2018). Gokul AP of Semester 4 (2016- 2020 batch) was part of the team.



A day to remember in the history of Nehru Group of Institutions. Here are some of the best moments celebrated in the campus as the official curtain raiser of the much anticipated tech fest Aarsh2K18 organized by the students of Lakkidi Jawaharlal College of Engineering and Technology. Students of aeronautical engineering department have conducted a flash mob with regards to it

## RANK DETAILS

The following is the list of students ranked according to the marks achieved in university examinations (University of Calicut 2013-2017batch).

### FIRST RANK



VISHNUMAYA NAIR

### SECOND RANK



SREELAKSHMI

### THIRD RANK



NIKHIL K

### FOURTH RANK



SREEDATHA V



# VISION OF THE AERONAUTICAL DEPARTMENT

To build a strong community of dedicated graduates with expertise in the field of Aeronautical Engineering to meet the Industrial needs and to face the ever changing requirements in aeronautical and aerospace industry.

## MISSION OF THE AERONAUTICAL DEPARTMENT

- To provide excellent technical education and basics of all fundamental methods to achieve professional success in their careers.
- To inculcate research and development activities to meet the technological changes of the society
- To inspire students to become successful entrepreneurs and educate them professional ethics, human values for the better society.
- To groom industry ready aeronautical engineers through industry institute relationship and value added industrial programs for lifelong learning.

### PROGRAM OUTCOMES (POs)

PO 1	<b>Engineering Knowledge</b> Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
PO 2	<b>Problem Analysis</b> Identify, formulate, review research literature, and <b>analyze</b> complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO 3	<b>Design / Development of Solutions</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO 4	<b>Conduct Investigations of Complex Problems</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO 5	<b>Modern Tool Usage</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
PO 6	<b>The Engineer and Society</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO 7	<b>Environment and Sustainability</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO 8	<b>Ethics</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO 9	<b>Individual and Team Work</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO 10	<b>Communication</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO 11	<b>Project Management and Finance</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO 12	<b>Life-long Learning</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO 1	Able to utilize the knowledge of Aeronautical/Aerospace Engineering in innovative, dynamic and challenging environment for design and development of new products.
PSO 2	Students will demonstrate the knowledge of advanced software tools for design specification, development such as fabrication, analysis such as testing and operation of the physical systems, components and processes involved in Aeronautical Engineering.

### PROGRAM EXIT OUTCOMES(PEOs)

- **Excellence in Career** –To prepare and provide student with an academic environment for students to excel in postgraduate programs or to succeed in industry / technical profession and the life-long learning needed for a successful professional career in Aeronautical Engineering and related fields .\
- **Professional Effectiveness and Contribution to Society** –To provide students with a solid foundation in mathematical, scientific and engineering fundamentals required to solve engineering problems and also to pursue higher studies (Core Competence).
- **Continuing Education** -To train students with good scientific and engineering breadth so as to comprehend, analyze, design, and create novel products and solutions for the real life problems.
- **Exercising Leadership** -To inculcate in students professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context (Professionalism).