

Different activities conducted in the Academic year 2015-16

SL. No	Date	Event	Topic	Resource person with designation
1	01-09-15	Freshers welcome Invited talk	Aerospace Technology Challenges and Opportunities.	Mr. E Janardhan Rao Retd. Scientist ISRO
2	01-09-15	Guest lecture	Career Prospects in Defense sector	Mr. Vedaprakash Sarasaya Retd. Air force Officer
3	1-02-16	Guest talk	Aerodynamics and Gas Dynamics	Prof. S A Khan IIUM, Kuala Lumpur, Malaysia
4	18-03-16	Expert talk	Aerospace engineering	Mr. P Ramesh Kumar HAL, Bangalore
5	08-04-16	Lab Tour	Experiments on Dynamics & vibrations: Centre for System Design at	Prof Gangadharan K V NITK, Surathkal

1	01-09-15	Freshers welcome Invited talk	Aerospace Technology Challenges and Opportunities.	Mr. E Janardhan Rao Retd.Scientist ISRO
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About Resource Person:

Mr. E JANARDHANA Rao have done his Engineering graduation from NITK Surathkal in 1968 and Post-Graduation (ME) in “Aeronautics” from Indian Institute of Science Bangalore in 1970. He joined Indian Space Research Organization (ISRO) during 1970 at Vikram Sarabhai Space Centre (VSSC), Trivandrum as Aerodynamic engineer. Subsequently he worked in various capacities for the Design & development of advanced launch vehicles like, ASLV, PSLV & GSLV. He also specialized in the area of launch vehicle and mission design. He received the Astronautical Society Award for outstanding contribution in the area of rockets and related technologies. He also got ISRO award for meritorious contribution for the rocket system designs.



Mr. E Janardhan Rao Retd.Scientist ISRO delivered a talk on Aerospace Technology Challenges and Opportunities

About the Event:

The students of the department of Aeronautical Engineering of the "Mangalore Institute of Technology and Engineering" had the opportunity to witness and to be a part of the technical talk by Mr. Janardana Rao on the topic “Aerospace Systems Development and Prospective”.

The interactive session was filled with interest as the speaker shared his vast knowledge among the student graduates. The talk began with the discussion based upon the 'history of development of Indian rockets' and 'rockets which are used by India'. The talk went on when the speaker narrated about the detailed working of the satellites and their functions.

2	01-09-15	Guest lecture	Career Prospects in Defense sector	Mr. Vedaprakash SaralayaRetd. Air force Officer
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About Resource Person:

Mr. Vedaprakash Saralaya is a leading entrepreneur in electronic security industry providing the electronic security solutions. He was being a soul mate of Indian air force for 26 years. He did his diploma and engineering degrees from Indian air force in the department of Electronics and Communication engineering, and he has also been honored with Aircraft Maintenance Engineer license by DGCA government of India. He also has a master degree in public administration from Annamalai University.



Mr. Vedaprakash SaralayaRetd. Air force Officer delivered a talk on Career Prospects in Defense sector

About the Event:

Mr. Vedaprakash Saralaya shared his working experience in Indian air force for 2 decades by holding the various posts such as, Maintenance engineer of radio navigation – Dornier and unmanned aerial vehicle systems. He is also being trained at Israel aircraft division, Israel. He also shared his knowledge, experience and work ethics to the students by serving as an instructor, senior instructor, chief instructor, faculty at various organizations for more than a decade. His hunger to serve the nation doesn't stop here; he is a philanthropist who has inspired many students by his motivational and personality development programs.

3	1-02-16	Invite Lecture	Aerodynamics and Gas Dynamics	Prof. S A Khan IIUM, Kuala Lumpur, Malaysia
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About Resource Person:

Dr. S.A. Khan completed his B.Sc in Engineering from Aligarh University in 1982. He further went to complete his M.Tech in aerospace engineering at IIT Kanpur in the year of 1984, and doctorate degree in the field of Gas dynamics in 2001 at IIT Kanpur. He is highly experienced in the teaching field and has been appointed as professor and principal in various colleges like; Z.H College of engineering and technology, AMV, Aligarh; Beary's institute of technology, Mangalore; PA college of engineering, Mangalore. He is presently working as a professor at international Islamic University, Kuala Lumpur, Malaysia.



Dr. S.A. Khan Delivered a talk on Aerodynamics and Gas Dynamics

Dr. S.A. Khan Delivered an interactive session on Aerodynamics and Gas Dynamics. He explained the recent developments in the field of gas dynamics. He also shared some of his research



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Department of Aeronautical Engineering

experience with students and also encouraged students to take up research oriented projects. His talk concluded with question and answer session.

4	18-03-16	Expert Lecture	Aerospace engineering	Mr. P Ramesh Kumar HAL, Bangalore
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About Resource Person:

Mr. P Ramesh Kumar is the wise man with young mind who have come across all the hurdles and struggles that HAL have seen since early 70's. He joined HAL in the year 1972 as a technical engineer and served the nation by his sound techniques in the field of flight control and system group. He served HAL in various capacities for its growth and development for a thumbing 27 years. He involved in the development of aircrafts such as AJEET, KIRAN and TEJAS. He vows his service to the nation for almost 3 decades by holding several position and developments. He joined JET AIRWAYS as engineering instructor to teach the young minds and motivate them towards the systems and structural repair for aircraft like, B737, B777, A330 and ATR72. He is an approved instructor by DGCA and holds DGCA license. His research works and ideas earned him a place in NAL to modify SARAS flight control system and joined the light transport aircraft design group.

About the Event:

Mr. Ramesh Kumar shared his experience in modification of GNAT aircraft to AJEET which had wet wing and flight control with modified hydraulic system. Later on he went on to put his aeronautical knowledge in the field of stability by developing yaw damper on KIRAN aircraft for stability augmentation. He also briefed about development of Light Combat aircraft TEJAS. Mr. Ramesh Kumar mentioned that his continuous efforts and passion towards aircraft be built the first Iron bird to test the flight controls, Hydraulic system, Navigation system, put together to test the handling of the aircraft, since it was the first FBW aircraft built in India. He insisted students to think out of the box on the most advanced topics of the aerospace field. He motivated students to work on innovative ideas and projects. "Learning artificial intelligence and IOT along with aerospace engineering gives you great future" said by Mr. P.RameshKumar. The session concluded with interaction and question answer session.

5.	08-04-16	Lab Tour	Experiments on Dynamics & vibrations: Centre for System Design at NITK	Prof Gangadharan K V NITK, Surathkal
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About Resource Person:

Prof. Gangadharan K V has got his B Tech from Calicut University in 1989, ME from NIT Trichy in 1992 and Ph.D. from IIT Madras in 2001. Presently he is working as a professor in the department of Mechanical Engineering, NITK, and Surathkal. His research interests are Machine Dynamics, Vibration and its Control, Experimental Methods in Vibration and Acoustics, Applications of smart materials in Vibration Control, Mechatronics System & System Design, Structural Health Monitoring & Condition Monitoring etc. His significant projects are Virtual Lab (vlabs.ac.in or solve.nitk.ac.in) - NMEICT, MHRD, GOI; Remote triggered Lab (rtlabs.nitk.ac.in) - NMEICT, MHRD, GOI; Centre for System Design (MHRD and M/s National Instruments ltd).



Lab Tour to Centre for System Design at NITK

Students are given on day training on Experiments on Dynamics & vibrations in Centre for System Design at NITK Surathkal. Students are also encouraged to use the virtual lab facilities for their project work.