

Mangalore Institute of Technology and Engineering
(ISO 9001:2015 Certified Institution)
Department of Aeronautical Engineering

Different activities conducted during the Academic year 2019-20

SL. No	Date	Event	Topic	Resource person with designation
1	05/09/2019	FRESHER'S WELCOME 2019-20 & Technical Talk	Technical Talk on 'Overview of design philosophies and fatigue design practices	Dr. Kishore Brahma, Former Scientist, NAL
2	14/09/2019	Talk	START A START UP	Mr. Sunil Kumar B U Founder and CEO, DEFAIR Integrations
3	28/09/2019	Technical Talk	A Review of Chandrayan Missions,	Prof. Janardhan Rao Retd. ISRO Scientist
4	30/09/2019 01/10/2019	VAYUYAN A 3.0	R C Plane Modelling workshop	ARIENO Team
5	03/10/2019	Quiz	Space Quize	ARIENO Team
6	18/10/2019	Technical Talk	Robotic Process Automation – RPA	Mr. Raghavendra Ganiga, Founder & CEO, Mobiezy and Dinesh, CFO, Mobiezy, Mobiezy
7	24/10/2019	Opportunities through CAT/GRE	information about opportunities through CAT/ GRE for higher studies and jobs	career guidance cell MITE
8	21/02/2020 to 22/02/2020	Vayuyana 3.5	R C Plane Modelling workshop	ARIENO Team
9	24/02/2020 to 26/02/2020	Orientation Course	Orientation Course in Aerospace and Defense Domain	Dr. K BadariNaryana Former Scientist ISRO
10	11/06/2020	Webinar	Aerospace Technical Publication Overview	Mr. Ansari H BridgeNow Academy
11	26/06/2020	Webinar	Webinar on Opportunities and Preparedness for an Aeronautical Engineer	Mr. Manjunath Lingam, Managing Director, May's Chem.
Industrial Visits				
1.	20/08/2019	Industrial Visit to Bharathi Defence and Infrastructure for 5th Semester Students.		
2	14/09/2019	Industrial Visit to JBF Industries Limited for 3 rd sem		



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All India Council for Technical Education (AICTE) Activity Program

1.	11 to 20 January 2020	Contribution to National level Initiative of Government of India: Swach Bharath
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1	05/09/2019	AURA – FRESHER’S WELCOME 2019-20	Overview of design philosophies and fatigue design practices	Dr. Kishore Brahma, Former Scientist, NAL
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Aeronautical Union of Rising Aviators (AURA) of Mangalore Institute of Technology and Engineering on September 5 2019 inaugurated the activities for the academic year 2019-20. Dr Kishore Brahma, former scientist at National Aerospace Laboratory (NAL) and consultant at P3 Consulting Private Limited Bengaluru inaugurated the event. Speaking to the students, Dr Brahma said, one can achieve heights with perseverance, determination and dedication. Aeronautical Engineering is a branch that neither has boundaries nor restrictions; a branch so broad that it can be linked to any domain.



Inaugural Function of AURA 2019-20

Dr Kishore Brahma, delivered a technical talk on Product life cycle Management, Design Philosophies and Career Opportunities in Aeronautical Engineering. He spoke in length about



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the various career opportunities for an Aeronautical graduate. Dr Kishore addressed the opportunities ahead in public, private and government sector. An Aeronautical Engineer can also work in the army, air force and navy as engineers, aircraft maintenance engineers, design or stress engineers and also as IT engineers he said. The talk stressed on quality and planning required by Aeronautical engineers to be industry ready. He also threw light on the entrepreneurial ventures one can take up. He said, for startups, the mission, team, idea, planning, location, marketing and competition should be kept in mind.

Dr Divakar Shetty, dean academics presided over the function and insisted that students should master time management. He appreciated the activities conducted by the association AURA and congratulated the students for winning technical events of national repute. Ajith Kumar faculty coordinator AURA welcomed the dignitaries. Sanjay MV, student president AURA, presented the annual report which included the events conducted by AURA, faculty achievements, internships attended. Head of the Aeronautical Engineering Dr G Purushotham, faculty members and students were present at the event.

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2	14/09/2019	Talk	START A START UP	Mr. Sunil Kumar B U Founder and CEO, DEFAIR Integrations, Bangalore
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A Talk on **START A START UP** was delivered by Mr. Sunil Kumar B U Founder and CEO, DEFAIR Integrations on 14-09-2019. DEFAIR incorporated in year 2018 and was started with a passion to serve and excel in the area of electrical interconnection solutions & connectors assemblies focusing on the niche and quality driven needs of Defense & Aerospace Industry.

Mr. Sunil Kumar B U emphasized on how to begin with an idea and to succeed as a start up entrepreneurs. He mentioned that DEFAIR is the first company in India who brought up with a virtual manufacturing facility to facilitate & attract the global companies to work with them for launching their products in India at very low manufacturing set up cost & provide end to end solution architect including TOT transfer, manufacturing, distribution, warehouse management & CRM. He gave a detailed deliberation on starting with an idea to marketing of the product. He also motivated students to start with a small capital for a start up and mentioned about the joy of learning as an entrepreneur. Mr. Lohit R Cofounder and COO DEFAIR Integrations also interacted with our students and shared his view and experience in difficulties and opportunities with a Start Up. The Session was concluded with the question and answer session about the start up and the support, resources required.



Inaugural session and talk

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3	28/09/2019	Technical Talk	A Review of Chandrayan Missions and History of ISRO,	Mr. Janardhan Rao Retd. ISRO Scientist
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On 28th September 2019, a technical talk was held for the students of Aeronautical Engineering of Mangalore Institute of Technology and Engineering by Mr. E. Janardana Rao, a retired ISRO scientist. The event was graced by the presence of our chief guest, Head of the Department, dean academics, faculties and students. The talk began with the “History of ISRO” followed by “A Review of Chandrayan Missions”. The talk went on when the speaker narrated about the detailed working of the satellites and their functions. He also briefed the students about the different Indian Space Programs, specially Mangalayaana and Chandrayan 2. He gave a detailed deliberation on Indian Space Programme Perspectives. The interactive session and distinguished speaker shared his experiences left a positive impact on the students as they were influenced by his shared experience. A total of 156 students from Aeronautical Engineering participated and benefited in this event.



Technical Talk: History of ISRO & A Review of Chandrayan Missions by Mr. Janardhan Rao
Retd. ISRO Scientist

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4	30/09/2019 01/10/2019	VAYUYANA 3.0	R C Plane Modelling workshop	ARIENO Team
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Vayuyana v3.0 – A 2 day workshop was held in Mangalore Institute of Technology and Engineering by the Department of Aeronautical Engineering conducted by Team AIREINO for students of MITE and other Institutions on 30th September 2019 to 1st October 2019. The event was graced by the presence of our chief guest, dean academics, club coordinator, faculties and participants. The chief guest, Mr. Srinath R, former Asst. Professor at MITE who is currently teaching in Dayanand Sagar University quoted that confidence and determination are the keys to success. The academic dean stressed on the fact how students should be practically oriented and gain knowledge in various other domains by being part of the different clubs. AIREINO Captain, Mr. Arpith Jain briefed the participants about AIREINO and its achievements over the years. Vayuyana v1.0 was held in 2017 and the 2nd version in 2018 where a total of 12 teams participated. This time, around 20 teams participated with a total of 180 participants. During the workshop, the participants were explained the concepts of aerodynamics, propulsion, stability and control, and also taught how the planes are designed. The event was concluded with a flying session of in which each team being given a chance to fly planes built by them during the workshop.



Participants and faculty members with RC Models

5	3/10/2019	Quiz	Space Quize	ARIENO Team
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The Space quiz was organized under the mentorship of the ambassador for the National Students' Space Challenge (NSSC). The quiz was conducted in four rounds. The First round had participation of 50 teams of three students in each team. The quiz had multiple choice, problem statement analysis, visual rounds, audio rounds and Space movie time. A team from Electronics and Communication won the quiz in the final round. Final winners are nominated from the Institute for NSSC space quiz national-level event purely dedicated towards space and space technologies.



Inaugural Session on Space quiz event

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6	18/10/2019	Technical Talk	Robotic Process Automation – RPA	Mr. Raghavendra Ganiga, Founder & CEO, Mobiezy and Dinesh, CFO, Mobiezy, Bengaluru
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Students from the Aeronautical department attended a technical talk on **Robotic Process Automation – RPA**, by Mr. Raghavendra Ganiga, Founder & CEO, Mobiezy and Dinesh, CFO, Mobiezy, Mobiezy on 18th October 2019. Mr. Raghavendra Ganiga enlightened students on technology that empowers SMBs (Small Business Owners) with products that are simple and impactful at the same time. He gave detailed deliberations on Robotic process Automation. He talked about the innovative products that are a result of extensive study of understanding the micro market, user behavior & psychology, gaps in the current ecosystem Mr. Dinesh also interacted with students and talked about the our studies with state of art technology that translates into a range of products that are simple to use, powerful, extensive, extendable. The talk was concluded with a interactive session on Cloud, Analytics, IoT, AI (Artificial Intelligence), Cloud, Analytics, IoT and Robotic Automation Testing.



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Inaugural Session on **Robotic Process Automation – RPA**

7	24/10/2019	Invite Talk	Opportunities through CAT/ GRE for higher studies and jobs	Mr. Ganesh Hebbar T.I.M.E Mangalore
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A session on CAT/GRE preparation was conducted by Mr. Ganesh Hebbar from T.I.M.E Mangalore for pre-final and final year students, event was organized by career guidance cell MITE. Students from the Department of Aeronautical Engineering participated in the event. Students were motivated and given the information about opportunities through CAT/ GRE for higher studies and jobs. Attendees of this programme got an insight on the preparation strategies for competitive examinations for higher education in reputed universities of India and abroad.



CAT/GRE for higher studies and jobs talk was given by TIME faculty

8	21/02/2020 to 22/02/2020	Vayuyana 3.5	RC plane modelling workshop	Team AIRENO
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The workshop introduced the process of RC Airplane building and flying for the first year engineering students of MITE. In Total there were 18 teams of 6 members each. Vayuyana 3.5 took off with a formal inauguration program. The theory session included basics of Aerodynamics, Propulsion, Structures. RC Plane kits were distributed to the students. After a day -long building of planes, the teams were called for a flying session. The teams were judged on the design, innovation, stability and maneuverability in flight.



Participants and faculty members with RC Models

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9	24/02/2020 to 26/02/2020	3 Day workshop	Workshop on Aerospace and Defense	Dr. K Badari Narayana, Former Scientist ISRO
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Inaugural function

A 3 day workshop on **Orientation Course in Aerospace and Defense Domain** was organized by the Department of Aeronautical Engineering during 24th to 26th February 2020. The workshop was organized for the Students of 4th and 6th Semester of Aeronautical Engineering was conducted by the Center of Excellence in Aerospace and Defence; Bengaluru , inaugurated on 24th February 2020. Mr. Ajith Kumar, Coordinator for the workshop welcomed all the delegates followed by chief address. Dr. K Badari Narayana, Former Scientist ISRO, Senior Consultant at Ornnova Information Technology and services was the chief guest for the event. Inaugural function was chaired by Dr. G L Easwara Prasad, Principal MITE. Head of the department of Aeronautical Engineering Dr. G Purushotham addressed the students on this occasion.

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Date	Session	Topic	Resource Person
24-Feb- 2020 (Day-1)	Forenoon Session	Introduction of CoE , Aerodynamics Aircraft Structures, Aircraft Materials	Dr. Badari Narayana Former Scientist ISRO, Senior Consultant at Ornnova Information Technology and services, Bangalore
	Afternoon Session	3DEXPERIENCE (CATIA)	Mr. Nicky Harris COE, Aerospace & Defence VTU, Bangalore

The first day of the workshop is started by a technical theory session on Aerodynamics, Aircraft structures and material by Dr. K Badari Naryana Former Scientist ISRO, Senior Consultant at Ornnova Information Technology and services, Bangalore. He interacted with students and motivated them to utilize the time in a best way to enhance their skills and learning. Forenoon Session was taken by **Mr. Nicky Harris** COE, Aerospace & Defence VTU, Bangalore. Mr. Nicky Harris introduced the software 3D experience to students, in which he illustrated the part design module of 3D experience(CATIA).



Day-1 : Session by Dr. Badari Naryana and Mr. Nicky Harris

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Date	Session	Topic	Resource Person
25-Feb- 2020 (Day-2)	Forenoon Session	Finite Element Analysis	Mr. Mandar COE, Aerospace & Defence VTU, Bangalore
	Afternoon Session	Delmia-Digital Manufacturing	Mr.Hemanth COE, Aerospace & Defence VTU, Bangalore

Day-2 of the workshop was started with a technical session on Simulation module of 3D Experience by Mr. Mandar COE, Aerospace & Defence VTU, and Bangalore. He emphasized on Finite element methods and demonstrated the simulation of few problem in hands on session. Afternoon session was conducted by **Mr. Hemanth COE, Aerospace & Defence VTU, Bangalore, on Delmia digital manufacturing**. Hands on session were conducted for students in the afternoon session on both Finite element methods and Digital manufacturing.



Day 2-Session by Mr. Mandar and Mr. Hemanth

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26-Feb- 2020 (Day-3)	Forenoon Session	Dymola-Model Based System Engineering	Mr. Chetan Rao S COE, Aerospace & Defence VTU, Bangalore
	Afternoon Session	Electrical Harness	Mr. Madhu COE, Aerospace & Defence VTU, Bangalore

Day-3 event was started with a session on Mr. Madhu COE Aerospace and Defence VTU Bangalore. Hands on training on electrical harness were conducted by him. Afternoon session on systems engineering was conducted by Mr. Chethan S Rao COE Aerospace and Defence VTU Bangalore .He gave detailed deliberations on Systems engineering with reference to an Aircraft. Further the session was concluded by hands on training on 3D experience flat forms of Dassault systems.



Day-3 Session by Mr. Madhu and Mr. Chethan S Rao

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10	11/06/2020	Webinar	Aerospace Technical Publication Overview	Mr. Ansari H BridgeNow Academy
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Department of Aeronautical Engineering
(Accredited by NBA)

In association with
BridgeNow Academy, Bangalore

BridgeNow Academy

Presents Webinar on
“Aerospace Technical Publication Overview”

Speaker:

Mr. Ansari H
BridgeNow Academy

Date: 11th June 2020
Time: 03:00 PM

Contact:
hodaer@mite.ac.in
ajithkumar@mite.ac.in
Phone: 9901225235

Registration link:
<https://forms.gle/tdSnTFv3vnARjC1p9>

A webinar on “Aerospace Technical Publication Overview” was organized by the Department of Aeronautical Engineering in Association with the BridgeNow Academy; Bangalore .Mr. H Ansari gave detailed deliberations on Aerospace Technical Publication including creation, update, and publication of different types of user manuals that are used at the time of maintenance of an aircraft. He also spoke in length about the types of manuals used for referring at the time of maintenance activities like Aircraft Maintenance Manual (AMM), Component Maintenance Manual (CMM), Aircraft Illustrated Parts Catalogue (AIPC), Structural Repair Manual (SRM) etc. Webinar was concluded with an interactive session in which students asked questions on career opportunities and preparedness required for industry jobs.

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11	11/06/2020	Webinar	Opportunities and Preparedness for an Aeronautical Engineer	Mr. Manjunath Lingam, Managing Director, May's Chem.
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MITE MANGALORE
Mangalore Institute of Technology & Engineering
(A unit of Rajalaxmi Education Trust, Mangalore)
Moodabidri, DK Dist - 574225

MITE Career Guidance Cell presents a Webinar on
Opportunities & Preparedness for an Aeronautical Engineer

Speaker
Mr. MANJUNATH LINGAM
Managing Director
May's Chem

DATE & TIME
JUNE 26TH 2020
FRIDAY, 10:00AM

Register Here
mite.ac.in/interaction

mite.ac.in | MITEdedu
9741731309 | 08258-262695/96-99 | 0824-2441581 / 2441582

A webinar on 'Opportunities and Preparedness for an Aeronautical Engineer' was conducted for students of Aeronautical Engineering. Mr. Manjunath Lingam, Managing Director, May's Chem, delivered the talk. He gave detailed deliberation on the importance of fundamental knowledge in their respective domains. He explained about the job opportunities in the aviation industry, defence establishments, and civil aviation departments for aeronautical engineers. Webinar was concluded with questions and answer sessions in which questions related to the industry requirements. A total of 164 students from the department of aeronautical engineering participated and benefited from the webinar.

Industrial Visits

20/08/2019	Industrial Visit to Bharathi Defence and Infrastructure for 5 th Semester Students.
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A team of 55 students visited the industry along with 3 faculty. The students gained knowledge about building cargo, cruise and defense ships. Bharati Defence and Infrastructure Limited has state of the art shipbuilding and fabrication facilities in, Dabhol, Ratnagiri, Goa, Mangalore, Chennai and Kolkata.



Industrial visit to Bharathi Defence and Infrastructure Mangalore

14/09/2019	Industrial Visit to JBF Industries Limited for 3rd Semester Students
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A team of 56 students visited the industry along with 2 faculty. **JBF** is commissioning a 1.25 MMT p.a capacity PTA plant. 114 acres of land has been allotted in Mangalore SEZ for the plant. Technology has been provided by British Petroleum and engineering, procurement and construction management of project have been awarded to Technip, India & Italy. Raw material tie-up has been completed with OMPL (a subsidiary of MRPL).



Industrial visit to JBF Industries Limited, Mangalore

All India Council for Technical Education (AICTE) Activity Program

1.	11 to 20 January 2020	Contribution to National level Initiative of Government of India: Swach Bharath
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As part of All India Council for Technical Education (AICTE) activity point program, the students of III Sem Aeronautical Engineering visited Beluvai village to contribute to Swach Bharath, a National level initiative of Government of India. The swach Bharath campaign was held at the Beluvai village. Swach Bharath Abhiyana is one of the most significant and popular mission to have taken place in India. Swachh Bharath Abhiyana is a great step towards the Clean India.

All the students along with the four faculty coordinators actively participated in this event. Student teams collected waste plastics, plastic bottles and many unwanted plastic materials from the Beluvai Village and cleaned the environment to create awareness in local residents. They also spread the awareness on disposal of plastics and how plastic affect the human life and environment. Team motivated locals toward the clean India. This campaign was important for the overall development of citizen in terms of health and well being.

