



09th Meeting of the Board of Studies - B.Tech (Aeronautical Engineering)

Agenda

Date: 22th June 2024

Time: 10:00 to 13:30 Hours

Venue:

Collaborative Teaching Learning Class Room
(Internal Members)

Google Meet Link:

<https://meet.google.com/dxg-kovh-eip>
(External Members)

Item No	Item Details
1	Welcome Address by the Chairperson, BoS
2	Confirmation of Minutes of Meeting of 08th Meeting of BoS and To Note Actions Taken
3	To discuss and finalize the syllabus for third year - V Semester of 02 Revision curiculum 1. 2AEPC301 - Aircraft Performance 2. 2AEPC302 - Aircraft Stability and Control 3. 2AEPC303 - High Speed Aerodynamics 4. 2AEPE304 - Analyzing Aircraft Structures using FEA 5. 2AEPE305 - Internal and External Flow Analysis using CFD 6. 2AEPE306 - Autonomous Navigation and Flight Control 7. 2AEPE307 - Airframe and Aero Engine Maintenance 8. 2AEVS308 - Geometric Dimensions and Tolerances (GD&T) 9. 2AEVS309 - Non Destructive Testing (NDT) 10. 2AEEL310 - Industrial Training
4	To discuss and finalize the Minor Course Syllabus 1. 2AEUV301 - UAV Electronics and Sensors 2. 2AEAT301 - Airport Operations and Air Traffic Control 3. 2AEAV301 - Aircraft Systems and Instruments
5	To discuss and finalize the Honours Program Course Syllabus 1. 2AEAD301 - Industrial Aerodynamics 2. 2AEPR301 - Electric and Hybrid Propulsion 3. 2AEAS301 - Theory of Elasticity 4. 2AECD301 - Helicopter Dynamics
6	Revisiting the Course Structure of VI Semester : 2AEVS324 - Virtual Instrumentation using LabView
7	Revision of SY III Semester Course : 2AEPC203 - Fluid Mechanics





Members of Board of Studies

SL.No	Name of the Member and Designation	Position
1	Mr. K. M. Kiran Babu, Head of the Department, Department of Aeronautical Engineering, ADCET, Ashta	Chairperson
2	Dr. R K Satapathy, Professor, Department of Aerospace Engineering, Defence Institute of Advanced Technology, (DIAT), Pune	Vice Chancellor Nominee
3	Dr. Vijayakumar M Scientist - E, Aero Data Generation & Design Modification Aeronautical Development Establishment (ADE), Bangalore Defence Research and Development Organisation (DRDO)	Industry Representative
4	Dr. Shashidhar S. Principle Engineer, Collins Aerospace, Bengaluru	Industry Representative
5	Dr S. Nadaraja Pillai, Professor of Aerospace Engineering, Shanmugha Arts, Science, Technology & Research Academy (SASTRA), Thanjavur	Academic Expert
6	Dr. Tejinder Kumar Jindal, Professor, Aerospace Engineering, Punjab Engineering College (Deemed to be University), Chandigarh	Academic Expert
7	Shri. Uday Kale Director, KUB Quality Services, Pune Chairman - ISNT Pune Chapter	Special Invitee Industry Expert in Non Destructive Testing
8	Mr. Pravin Christoper, Executive Quality Assurance Engineer, TATA Advanced Systems, Hyderabad.	Special Invitee Industry Expert in Aircraft Maintenance
9	Dr. Nikhil Shende Director, S & I Engineering Solutions Pvt. Ltd.	Special Invitee Industry Expert in CFD & FEA
10	Shri. Thaariq Ahmad COO - NextLeap Aeronautics, eVTOL, Unmanned Aerial systems	Special Invitee Industry Expert in UAV Systems
11	Mr. Ganesh Malgunde, Collins Aerospace, Bengaluru	Alumni Representative
12	Mr. Reju R, Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member Secretary
13	Dr. S. Sendhil Kumar Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member





Sant Dnyaneshwar Shikshan Sanstha's
Annasaheb Dange College of Engineering and Technology, Ashta
DEPARTMENT OF AERONAUTICAL ENGINEERING

ADCET
An Autonomous Institute

Sl.No	Name of the Member and Designation	Position
11	Dr. S. Yuvaraj Associate Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
12	Dr. A. K. Vivekanandan Associate Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
13	Dr. Sudharson Murugan Associate Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
14	Mr. Yogesh B. Kumbhar, Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
15	Mr. Sanoj P. Suresh. Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
16	Mr. L. Oblisamy, Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
17	Mr. Sabarishwaran R, Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
18	Mr. A. Basithrahman. Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
19	Mr. P. Kaleeswaran. Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member
20	Mr. Karthik Pullela Assistant Professor, Department of Aeronautical Engineering, ADCET, Ashta	Member





09th Meeting of the Board of Studies - B.Tech (Aeronautical Engineering)

Minutes of Ninth Board of Studies Meeting

Date: 22th June 2024

Time: 10:00 to 13:30 PM

Venue:

Collaborative Teaching Learning Class Room
(Internal Members)

Google Meet Link:

<https://meet.google.com/dxg-kovh-eip>
(External Members)

Members Present:

Sl.No	Name of the Member and Designation	Position	Signature
1	Mr. K. M. Kiran Babu, Head of the Department, Department of Aeronautical Engineering, ADCET, Ashta	Chairperson	
2	Dr. R K Satapathy, Professor, Department of Aerospace Engineering, Defence Institute of Advanced Technology, (DIAT), Pune	Vice Chancellor Nominee	(Online Mode)
3	Dr. Vijayakumar M Scientist - E, Aero Data Generation & Design Modification, Aeronautical Development Establishment (ADE), Bangalore, Defence Research and Development Organisation (DRDO)	Industry Representative	(Online Mode)
4	Dr. Shashidhar S, Principle Engineer, Collins Aerospace, Bengaluru	Industry Representative	(Online Mode)
5	Dr S. Nadaraja Pillai, Professor of Aerospace Engineering, Shanmugha Arts, Science, Technology & Research Academy (SASTRA), Thanjavur	Academic Expert	(Online Mode)
6	Shri. Uday Kale Director, KUB Quality Services, Pune Chairman - ISNT Pune Chapter	Special Invitee Industry Expert in Non Destructive Testing	(Online Mode)
7	Mr. Pravin Christoper, Executive Quality Assurance Engineer, TATA Advanced Systems, Hyderabad.	Special Invitee Industry Expert in Aircraft Maintenance	(Online Mode)





Sant Dnyaneshwar Shikshan Sanstha's
Annasaheb Dange College of Engineering and Technology, Ashta
DEPARTMENT OF AERONAUTICAL ENGINEERING

ADCE
An Autonomous Institute

Sl.No	Name of the Member and Designation	Position	Signature
8	Dr. Nikhil Shende Director, S & I Engineering Solutions Pvt. Ltd.	Special Invitee Industry Expert in CFD & FEA	(Online Mode)
10	Shri. Thaariq Ahmad COO - NextLeap Aeronautics, eVTOL, Unmanned Aerial systems	Special Invitee Industry Expert in UAV Systems	(Online Mode)
11	Mr. Ganesh Malgunde, Collins Aerospace, Bengaluru	Alumni Representative	(Online Mode)
12	Mr. Reju R, Assistant Professor	Member Secretary	
13	Dr. S. Sendhil Kumar Professor	Member	
11	Dr. S. Yuvaraj Associate Professor	Member	
12	Dr. A. K. Vivekanandan Associate Professor	Member	
13	Dr. Sudharson Murugan Associate Professor	Member	
14	Mr. Yogesh B. Kumbhar, Assistant Professor	Member	
15	Mr. Sanoj P. Suresh, Assistant Professor	Member	
16	Mr. L. Oblisamy, Assistant Professor	Member	
17	Mr. Sabarishwaran R, Assistant Professor	Member	
18	Mr. A. Basithrahman, Assistant Professor	Member	
19	Mr. P. Kaleeswaran, Assistant Professor	Member	
20	Mr. Karthik Pullela Assistant Professor,	Member	





ITEM No: 09-BOS-1.1	For Information of Academic Council
Welcome Address by the Chairperson, BoS and Introduction of Members	
<p>The Head of Aeronautical Engineering Department, ADCET, Ashta chairperson of the Board of Studies (BOS) formally welcomed all the members of the BoS for its 09th Meeting called for discussing and approving the second revision course contents & policies for Third Year (Fifth Semester).</p> <p>A brief presentation about the Department of Aeronautical Engineering at ADCET, Ashta was presented to the members and the external members were informed of the Empowered Autonomous Status received by the Institute. The taught process and the procedure followed for preparing the syllabus/course contents was briefed to the external members through the presentation.</p>	
ITEM No: 09-BOS-1.2	For Information of Academic Council
Confirmation of Minutes of Meeting of 08th Meeting of BoS and To Note Actions Taken	
<p>The Minutes of 08th Board of Studies meeting held on 27th July 2023 in the hybrid mode was presented before the committee for confirmation and the action taken based on the suggestions given by the members was briefed to the members, and the members of BoS confirmed the Minutes of 08th Board of Studies.</p>	
ITEM No: 09-BOS-1.3	For Approval of Academic Council
To discuss and finalize the syllabus for third year - V Semester of 02 Revision curriculum <ul style="list-style-type: none">1. 2AEPC301 - Aircraft Performance2. 2AEPC302 - Aircraft Stability and Control3. 2AEPC303 - High Speed Aerodynamics4. 2AEPE304 - Analyzing Aircraft Structures using FEA5. 2AEPE305 - Internal and External Flow Analysis using CFD6. 2AEPE306 - Autonomous Navigation and Flight Control7. 2AEPE307 - Airframe and Aero Engine Maintenance8. 2AEVS308 - Geometric Dimensions and Tolerances (GD&T)9. 2AEVS309 - Non Destructive Testing (NDT)10. 2AEEL310 - Industrial Training	
<p>The proposed curriculum contents of Third Year V Semester was presented before the members of Board of Studies for the detailed discussion and deliberations. The following were the comments and suggestions made by the members of BoS,</p> <ul style="list-style-type: none">1. 2AEPC301 - Aircraft Performance - Dr. R. K. Satapathy recommended to look for the possibility to cover the military aircraft performance in the course.2. 2AEPE307 - Airframe and Aero Engine Maintenance - Ganesh Malgunde, Alumni Member is	





suggest to cover the types of airframe damages and repair techniques in the curriculum contents. Also highlighted in the curriculum propeller design is not extensively covered.

3. 2AEVS309 - Non Destructive Testing (NDT) - Dr. R. K. Satapathy recommended to include Infra Red Thermography in the curriculum contents, which was seconded by Shri. Uday Kale, Chairman of ISNT Pune Chapter.
4. 2AEVS308 - Geometric Dimensions and Tolerances (GD&T) - Shri. Thariq Ahamed recommended to include Tolerances Stackup basics in the GD&T curriculum.

ITEM No: 09-BOS-1.4	For Approval of Academic Council
To discuss and finalize the Minor Course Syllabus <ul style="list-style-type: none"> 1. 2AEUV301 - UAV Electronics and Sensors 2. 2AEAT301 - Airport Operations and Air Traffic Control 3. 2AEAV301 - Aircraft Systems and Instruments 	For Approval of Academic Council

The proposed curriculum contents of Third Year V Semester (Minor Steam Courses) was presented before the members of Board of Studies for the detailed discussion and deliberations. The members of Board of Studies approved the curriculum contents of the Third Year V Semester (Minor Steam Courses).

ITEM No: 09-BOS-1.5	For Approval of Academic Council
To discuss and finalize the Honours Program Course Syllabus <ul style="list-style-type: none"> 1. 2AEAD301 - Industrial Aerodynamics 2. 2AEPR301 - Electric and Hybrid Propulsion 3. 2AEAS301 - Theory of Elasticity 4. 2AECD301 - Helicopter Dynamics 	For Approval of Academic Council

The proposed curriculum contents of Third Year V Semester (Hounor Steam Courses) was presented before the members of Board of Studies for the detailed discussion and deliberations. The members of Board of Studies approved the curriculum contents of the Third Year V Semester (Honour Steam Courses).

ITEM No: 09-BOS-1.6	For Approval of Academic Council
Revisiting the Course Structure of VI Semester : 2AEVS324 - Virtual Instrumentation using LabView	For Approval of Academic Council

The course structure of VI Semester was proposed to be modified as 2AEVS324 - Virtual Instrumentation using LabView with course on Predictive Maintenance using the MATLAB Toolbox, based on the suggestions by the expert members. The BoS Members recommended the changes, and to be placed in the Academic Council for approval.





ITEM No: 09-BOS-1.7	For Approval of Academic Council
Revision of SY III Semester Course : 2AEPC203 - Fluid Mechanics	
The course contents of 2AEPC203 - Fluid Mechanics was proposed to be modified based on the recommendations of Dr. Sudhaarson Murugan, the following course contents were recommended for inclusion in the curriculum contents.	
Basics of Flow Control and Measurement Introduction to flow control and measurement - applications of Bernoulli and Venturi principle; flow meters and its types - volumetric, velocity, mass, and Coriolis, etc; Optical Flow measurement techniques – intrusive and Non-intrusive	
The member of BoS Approved the inclusion of above contents in the course contents of 2AEPC203 - Fluid Mechanics .	

The meeting ended with the Vote of Thanks by the Head, Department of Aeronautical Engineering, ADCET, Ashta.



Member Secretary



Chairperson