



Sant Dnyaneshwar Shikshan Sanstha's
Annasaheb Dange College of Engineering and Technology, Ashta
(An Autonomous Institute)
DEPARTMENT OF AERONAUTICAL ENGINEERING

Minutes of the Fifth Board of Studies Meeting

Date: 06th February 2020

Time 11:30 AM - 12:30 PM

Venue:

Department Meeting Room, ADCET, Ashta + Online Mode for the External Members through G-Meet, Google Meet Link: <https://meet.google.com/bxi-qzjv-oje>

Members Present:

Sl.No	Name of the Member & Designation	
1	Dr. L. Mallick, HoD/Aeronautical Engineering, ADCET, Ashta	Chairman
2	Dr. Rajkumar S Pant, Professor, Department of Aerospace Engineering, IIT Bombay, Mumbai	Vice Chancellor Nominee
3	Dr. Kishore Nath, Scientist G, Program Director VEDA, DRDL, Hyderabad	Industry Representative
4	Dr. Premkumar, Associate Professor, Department of Aeronautical Engineering, Kumaraguru College of Technology, Coimbatore	Academic Expert
5	Dr. N. V. Raghavendra, Associate Professor, Aeronautical Engineering, ADCET, Ashta	Member
6	Prof. T. M. Naidu, Visiting Faculty, Aeronautical Engineering, ADCET, Ashta	Member
7	Mr. K. M. Kiran Babu, Assistant Professor, Aeronautical Engineering, ADCET, Ashta	Member Secretary
8	Mr. Nikhil Franklin, Assistant Professor, Aeronautical Engineering, ADCET, Ashta	Member
9	Mr. Yogesh B Kumbhar, Assistant Professor, Aeronautical Engineering, ADCET, Ashta	Member
10	Mr. Reju R, Assistant Professor, Aeronautical Engineering, ADCET, Ashta	Member
11	Mr. Sanoj P Suresh, Assistant Professor, Aeronautical Engineering, ADCET, Ashta	Member
12	Ms. Pooja B Patil, Assistant Professor, Aeronautical Engineering, ADCET, Ashta	Member
13	Mr. Sushant Sale, Assistant Professor, Aeronautical Engineering, ADCET, Ashta	Member
14	Mr. Noble Sharma, Assistant Professor, Aeronautical Engineering, ADCET, Ashta	Member





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15	Mrs. Soumya Kumari, Assistant Professor, Aeronautical Engineering, ADCET, Ashta	Member
16	Mr. Anumodh Menon, Assistant Professor, Aeronautical Engineering, ADCET, Ashta	Member
17	Ms. Priyanka Hankare, Ph.D Research Scholar, IIT Bombay, Mumbai	Alumni Representative
18	Mr. Vikas D. Patil, QuEST Global, Belgaum	Alumni Representative

Dr. L. Mallick, Chairman (BOS), & Head of Aeronautical Engineering Department chaired the meeting and welcomed all the members to the Fifth Board of Studies(BoS) Meeting of the Department of Aeronautical Engineering, with the brief outline of agenda of the Fifth BoS Meeting.

ITEM No: 05-BOS-1.2	For Information of Academic Council
Confirmation of Minutes of Meeting of 4th Meeting of BoS and To Note Action Taken	
<p>The Minutes of Meeting of the 04th Meeting of Board of Studies held on 01st December 2019, was confirmed by all the Members of the Board of Studies, The Following is the brief summary of the discussions in the Fourth Board of Studies.</p> <p>The First Revision of the Curriculum was to be carried out with the Inputs of AICTE Model Curriculum, the Existing Curriculum, The Inputs from the Industry and Alumni. The following are the significant changes in the curriculum.</p> <ol style="list-style-type: none">1. Open Electives have increased compared to the previous curriculum, to promote interdisciplinary knowledge among the students.2. Self Learning Courses of 1 Credit is included in the curriculum to promote Life-Long Learning Skill among the students.3. The Program structure is designed such that all the courses that are related to the GATE examination are covered by the sixth semester so that students will be fully prepared for the GATE Examination by the beginning of the Seventh Semester.4. The Elective Courses are framed with a policy of having each course of specialization domains in the program Aerodynamics, Propulsion, Structures, Aviation and Maintenance and the also the elective courses which are available on the MOOCs platforms so that students can refer to the MOOCs for elective courses. <p>❖ The BoS resolved that the suggestions made by the BoS will be included and will be sent for the approval in the AAC.</p>	





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ITEM No: 05-BOS-1.3	For Approval of
To discuss and finalize the detailed syllabus of Third Year B.Tech Aeronautical Engineering for the Academic Year 2021 - 2022 (170 Credits)	Academic Council
<ul style="list-style-type: none">❖ The detailed course wise curriculum of the 1st Revision of Third Year B.Tech Aeronautical Engineering was presented before the Board of Studies.❖ The BoS Members Approved the contents of the following courses after the discussion and deliberations,<ul style="list-style-type: none">➤ 1AEPC301- Aircraft Structures➤ 1AEPC302 - Flight Dynamics➤ 1AEPC303 - High Speed Aerodynamics➤ 1AEPC304 - Aerospace Propulsion➤ 1AEPC305 - Vibrations and Structural Dynamics➤ 1AEPC306 - Computational Fluid Dynamics➤ 1AEPC307 - Space Dynamics➤ 1AEHS352 - Communication Skills and Competencies➤ 1AEHS353 - Constitution of India➤ 1AEPC356 - Aircraft Structures Laboratory➤ 1AEPC357 - Flight Dynamics Laboratory➤ 1AEPC358 - Vibration and Structural Dynamics Laboratory➤ 1AEPC359 - Computational Fluid Dynamics Laboratory❖ The BoS Members, Prof. Pant emphasized on the need for Aircraft Design Course, which is a core course to be included in the curriculum, and Dr. Kishorenath and Prof. T. M. Naidu emphasized on the need for Composite Materials and Structures, which needs to be included in the curriculum.❖ Self Learning Course Assessment Policy: Self Learning Courses of 1 Credit is included in the curriculum to promote <u>Life-Long Learning Skill</u> among the students, the evaluation strategy is finalized.❖ Department Internship Policy: The internship is mandatory as a part of the curriculum. Students will not graduate unless they complete the internship as prescribed. The detailed policy for the Internship was discussed in the BoS and was approved by the BOS Members❖ The Program structure is designed such that all the courses that are related to the GATE examination are covered by the sixth semester so that students will be fully prepared for the GATE Examination by the beginning of the Seventh Semester.❖ The List of Program Elective I and II, Open Elective I and II were discussed and after the detailed elaboration, the following list is approved. The BoS Members resolved to	





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adapt the course contents of the below electives from the 190 Credits curriculum as they were added with enough deliberations.

1AEPE305 - 310 Professional Elective - 1 (Fifth Semester)

- 1AEPE305 - Experimental Aerodynamics
- 1AEPE306 - Heat and Mass Transfer
- 1AEPE307 - Material Testing and Characterization
- 1AEPE308 - Engineering Design Optimization
- 1AEPE309 - Helicopter Theory
- 1AEPE310 - Lighter-Than-Air Systems

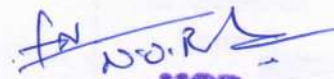
1AEPE316 - 320 Professional Elective - 2 (Sixth Semester)

- 1AEPE316 - Hypersonic Aerodynamics
- 1AEPE317 - Advanced Propulsion Systems
- 1AEPE318 - Advanced Mechanics of Solids
- 1AEPE319 - Introduction to Air Transportation and Flight Scheduling
- 1AEPE320 - Introduction to Aircraft Design

1AEOE312 - 315 Open Elective

- 1AEOE323 - Introduction to Flight
- 1AEOE324 - Introduction to Experimental Aerodynamics
- 1AEOE325 - Introduction to Gas Dynamics and Jet Propulsion
- 1AEOE326 - Introduction to Unmanned Aerial Vehicles

- ❖ Prof. Pant Suggested a mechanism to keep Professional Electives in the General List instead of grouping them into a particular semester, and keep floating the same so that students will have choices of choosing the subjects based on their interest and position.

ITEM No: 04-BOS-1.4	For Approval of Academic Council
To discuss and finalize the Modifications in the PSO's	
As per the recommendations by the NBA Expert Committee recommendations and after the deliberations held within the department faculty members, we have identified the need for modifying the existing Program Specific Outcomes (PSO's). The following statements are put forward before the Members of the Board of Studies for their approval in the 05th Meeting of Board of Studies held on 06th Feb 2021.	
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Existing PSO's :

- ❖ **PSO1** - Apply the knowledge of Aeronautical Engineering in the Design and Development, Operating, Maintaining and overhauling of the products enhancing the mobility in the society.
- ❖ **PSO2** - Develop frameworks and subsystems of the Aerospace and aviation components to progress towards becoming technocrats
- ❖ **PSO3** - Solve the difficulties faced by Aviation Industry with regards to operating and maintaining Innovative Solutions.

Proposed PSO's : (For Modification)

- ❖ **PSO1** - Apply the knowledge of aeronautical engineering in the Design and Development, Operating, Maintaining and overhauling of the products enhancing the mobility in the society.
- ❖ **PSO2** - Develop aeronautical and aviation frameworks, and subsystems to overcome the challenges faced by the aviation industry through innovative solutions leading to employability and entrepreneurial development.

The above proposed PSO's have been discussed and approved by the BOS.

ITEM No: 04-BOS-1.5	For Information of Academic Council
To discuss and analyze the Autonomous Results of the Academic Year 2019 - 2020	
<ul style="list-style-type: none">• The Departmental Exam Coordinator made a presentation of the results of the Academic Year 2019 - 2020 before the members of the BoS. The results were satisfactory, the BoS members suggested to focus the examinations more on the Higher Cognitive Levels.• As per the suggestions made by the 06th Academic Council Meeting, Courses with result less than 70% will be considered for remedial classes in the Academic Year 2020 - 2021.	

ITEM No: 04-BOS-1.6	For Information of Academic Council
To discuss and analyze the Placement and Higher Education statistics of Academic Year 2019 - 2020 , Road Map for Placement and Higher Education in AY: 2020 - 2021	

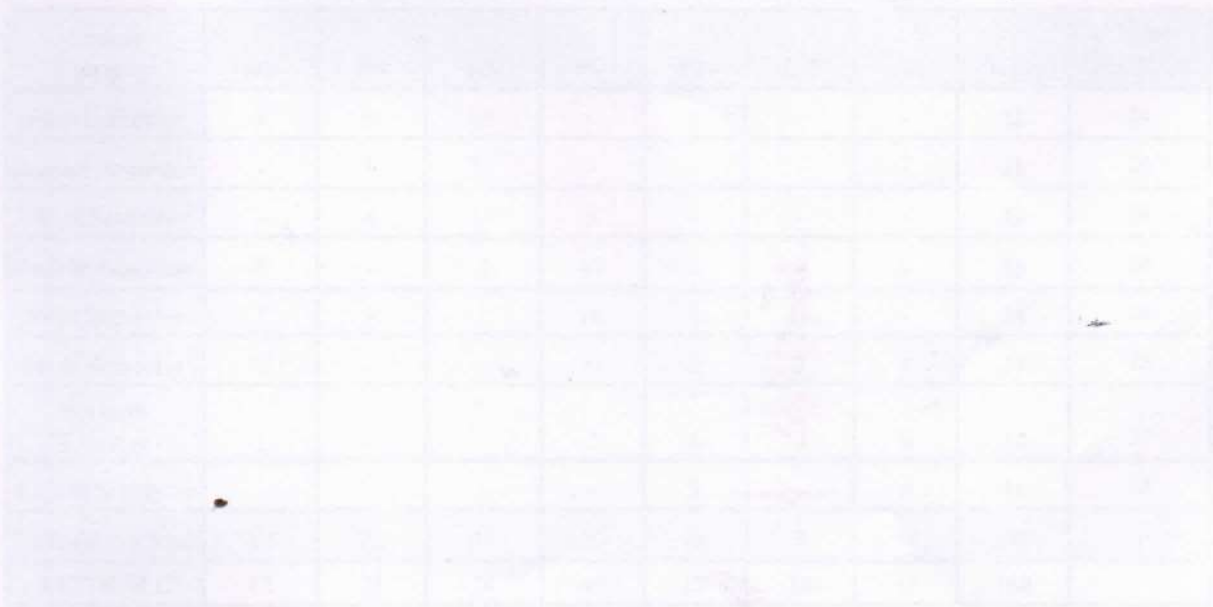




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- The Training and the Placement Coordinator presented the report of Placement and Higher Education statistics of Academic Year 2019 - 2020, highlighting the On-campus and Off-campus placement drives and offers received by the students.
- The resolution was made to introduce Value Added Courses based on the Job Verticals Identified by the Department, through the collaborative efforts from the Faculty and Industry People.

The meeting ended with the Vote of Thanks by Dr. L. Mallick, Chairman (BOS), & Head of Aeronautical Engineering Department.



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MOD

(Dr. N. V. RAGHAVENDRA)
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