

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited with "A" Grade by NAAC

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.



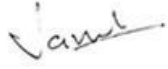


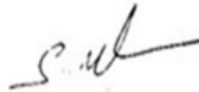
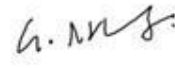
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SCHOOL OF MECHANICAL ENGINEERING
DEPARTMENT OF AERONAUTICAL ENGINEERING
BOARD OF STUDIES MEETING HELD ON 17.12.2021

Members present:

External Members	Signature	Internal Members	Signature
Dr. Paramasivam Professor, Madras Institute, of Technology, Chennai		Dr.S. Prakash, Dean/Faculty of Mechanical	
Er. James Michael Amulu, Senior Product Development Leader, SAP, Bangalore		Dr.P. Boomadevi, Head/Aeronautical Engineering	
		Dr.A. Anderson, Professor, Aeronautical Engineering	
		Dr. S. Manigandan, Assistant Professor, Aeronautical Engineering	
		Mr. G. Madhan Kumar, Assistant Professor, Aeronautical Engineering	



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Minutes of the Board of Studies meeting

Board of Studies meeting for the Department of Aeronautical Engineering was held on 27th June 2020 through virtual mode (zoom) with the following agenda:

1. Revision of Course "SAEA3001 Theory of Elasticity"
2. Revision of Course "SAEA3003 Airframe Maintenance and Repair Practices"

Welcome Address

Dr.S.Prakash, Dean, school of Mechanical Engineering chaired the meeting and welcomed all the members to the BOS meeting. He also introduced the Academic staff members Sathyabama Institute of science and Technology. At the outset, he informed the members about the academic activities and newly introduced courses in this curriculum. Having confirmed the quorum of the meeting, the agenda of the meeting was taken up for discussion. The following points were discussed during the meeting:

Agenda item # 1

Modifications proposed for 2021 batch Bachelors of Engineering– Aeronautical Engineering students in SAEA3001 Theory of Elasticity.

Head of the department informed that the department teams have been working on the modification of curriculum and in this direction the following changes were made on SAEA3001 Theory of Elasticity.

- (a)Inclusion of the following topics in Unit V: Euler's column buckling load: clamped-free, clamped-hinged, clamped-clamped and pin-ended, Numerical Problem.

Resolutions: The External members considered the revision made and discussed regarding the revision. Dr. P. Boomadevi pointed out that the removal of topics was necessary. These topics are covered in applications of Aircraft Structures.



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Agenda item # 2

Modifications proposed for 2020 batch Bachelors of Engineering– Aeronautical Engineering students in SAEA3003 Airframe Maintenance and Repair Practices.

Head of the department informed that the department teams have been working on the modification of curriculum and in this direction the following changes were made SAEA3003 Airframe Maintenance and Repair Practices.

- (a) Inclusion of the following topics in Unit – IV: Calculation of Weight of Completed Repair; Effect Of Weight – Change On Surrounding Structure.

Resolutions: The External members considered the revision made and discussed regarding the revision. Dr. P. Boomadevi pointed out that the removal of topics was necessary. These topics are not covered in any of the core courses and it is very important to estimate the weight of the structure.

This BoS members accepted the changes after a discussion about the contents of the syllabus. The course revision was approved for inclusion in the Curriculum. BoS members accepted the changes and approved the syllabus.

The revised syllabus of the course is enclosed in Annexure-1.

Vote of Thanks

Dr.P. Boomadevi thanked the expert members for accepting the invitation for attending the BoS meeting. She thanked them for their valuable suggestions on the agenda items presented. She also thanked Dr.S. Prakash, Dean and Dr.A. Anderson, Professor for their contribution towards the conduct of this BoS meeting.


Dean/CHAIR



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Agenda item # 1

Modifications proposed for SAEA1502 Aerospace Propulsion.

S.No.	Existing Syllabus R2020	Corrected Syllabus
1	<p>UNIT-V Thermal Stress and Elastic Stability 9 Hrs.</p> <p>Thermo elastic stress strain relations, equations of equilibrium, thermal stresses in thin circular discs and in long circular cylinders.</p>	<p>UNIT-V Thermal Stress and Elastic Stability 9 Hrs.</p> <p>Thermo elastic stress strain relations, equations of equilibrium, thermal stresses in thin circular discs and in long circular cylinders. Euler's column buckling load: clamped-free, clamped-hinged, clamped-clamped and pin-ended, Numerical Problem.</p>

Agenda item # 2

Modifications proposed for SAEA1504 Finite Element methods for Aircraft Structures.

S.No.	Existing Syllabus R2020	Corrected Syllabus
1	<p>UNIT - IV Maintenance of Aircraft Structural Components 9 Hrs.</p> <p>Equipments Used In Welding Shop And Their Maintenance - Ensuring Quality Welds - Welding Jigs And Fixtures - Soldering And Brazing - Laser Welding. Sheet Metal Repair And Maintenance: Selection Of Materials; Repair Schemes; Fabrication Of Replacement Patches; Tools - Power/Hand; Repair Techniques; Peening - Close Tolerance Fasteners; Sealing Compounds; Forming/Shaping; Sheet Metal Inspection - N.D.T. Testing. Riveted Repair Design - Damage Investigation - Reverse Engineering.</p>	<p>UNIT - IV Maintenance of Aircraft Structural Components 9 Hrs.</p> <p>Equipments Used In Welding Shop And Their Maintenance - Ensuring Quality Welds - Welding Jigs And Fixtures - Soldering And Brazing - Laser Welding. Sheet Metal Repair and Maintenance: Selection Of Materials; Repair Schemes; Fabrication Of Replacement Patches; Tools - Power/Hand; Repair Techniques; Peening - Close Tolerance Fasteners; Sealing Compounds; Forming/Shaping; Calculation Of Weight Of Completed Repair; Effect Of Weight - Change On Surrounding Structure. Sheet Metal Inspection - N.D.T. Testing. Riveted Repair Design - Damage Investigation - Reverse Engineering.</p>