



Hindusthan College of Engineering and Technology
(An Autonomous Institution, Approved by AICTE, New Delhi,
Accredited with 'A' Grade by NAAC, Affiliated to Anna University)
Valley Campus, Pollachi Highway, Coimbatore – 641032



Date: 02.06.2023

BOARD OF STUDIES MEETING

Name of the Department: **Aeronautical Engineering**

The Eleventh Board of Studies meeting of Regulation 2022 for the academic year 2023-24 ODD semester was conducted on 02-06-2023 (Wednesday) 10.00 am to 12.00 pm through hybrid mode.

Venue: Library board room, HiCET.

(Meet Link: <https://meet.google.com/mkb-sxvz-hbo>)

The following members were present.

Sl.No	Name of the Person	Department	Position
1	Dr. V. T. Gopinathan	Associate Professor & Head, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Chairman
2	Dr.S.Periyasamy	Associate Professor, Department of Mechanical Engineering, Government College of Technology, Coimbatore.	University Nominee
3	Dr.R. Arravind	Professor & Head, Department of Aeronautical Engineering, Paavai Engineering College, Namakkal	Academic Expert
4	Dr.S.Venkatachalam	Associate Professor, Department of Aerospace Engineering, Coimbatore , Institute of Technology and Coimbatore	Academic Expert
5	Dr.S Gurusideswar	Assistant Professor, Department of Aerospace Engineering, SRM Institute of Science & Technology, Chennai.	Member From QS Rated Institution
6	Mr. Asvath Arunraj	Manager, Vibrant NDT Services Pvt. Ltd. Coimbatore.	Industry Expert

7	Mr.Alexander A	Deputy Manager, Multi-Research & Competitive Quest Global. Bengaluru	Alumni Member
8	Mr.Maheswaran N	Assistant Professor, Department of Aeronautical Engineering, Hindusthan Institute of Technology, Coimbatore.	Member from sister concern
9	Dr Ganesh M	Associate Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology. Coimbatore	Autonomous Coordinator
10	Mr Arulmozhinathan T	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology. Coimbatore	DAC Coordinator
11	Dr. P N Karthikeyan	Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology. Coimbatore	Member
12	Mr. Saravanan R	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology. Coimbatore	Member
13	Mr. Arunraja KK	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology. Coimbatore	Member
14	Mr. Manojkumar K	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology. Coimbatore	Member
15	Mr. Sivaraman S	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology. Coimbatore	Member
16	Mr. Saravana kumar V	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology. Coimbatore	Member
17	Mr Tamilvenda D	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology. Coimbatore	Member
18	Mr. Mageshkumar M	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology. Coimbatore	Member
19	Ms. Gopika G Nair	IV YEAR AERO	Student Member
20	Mr. Alex Narayanan B	IV YEAR AERO	Student Member

21	Ms. Sailakshmi Kore	IV YEAR AERO	Student Member
22	Mr. Harivasanth P	III YEAR AERO	Student Member
23	Mr. Bharathi T	III YEAR AERO	Student Member

The Chairman-BoS welcomed all the members for the 11th Board of Studies meeting.

- Followed by Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held on 20.02.2023 was approved.
- The feedback collected on curriculum by the stakeholders was presented by the Chairman.
- The Chairman gave an outline of the views expressed by the members of 11th Department Advisory Committee (DAC) related to the curriculum and Syllabus. The Board of Studies Members' suggestion has been sought in this regard.
- Chairman, BoS has elaborated the Regulations 2022 Curriculum, newly introduced courses and their syllabus, Minor , Honours/Honours with specialization vertical subjects to the members.
- Chairman presented the Semester V (R2019 (admitted in 2021) & R2022) subjects with syllabus for Minor & Honours/Honours with specialization, and noted the experts suggestions.
- Chairman conveyed to the members that, the Minor & Honours/Honours with specialization scheme is to be implemented in R2019 (for the students who have admitted in 2021-22 and onwards).
- The curriculum and syllabi of Third semester subjects is discussed for 2022 regulation.

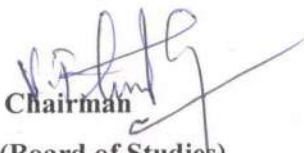
Recommendations by BoS members (Subject Related)

1. For course 22AE3202 - Solid Mechanics
 - a. The topics from IV unit and V unit can be combined and elaborated.
 - b. Recent edition books can be prescribed as text and reference books.
 - c. Pressure vessels can be given more weightage.
2. Experiments in Models can be included in Unit three for course 22AE3252 - Engineering Fluid Mechanics.
3. Topics like Basics of propulsion can be replaced with gaseous equations in course 22AE3251 - Aero Engineering Thermodynamics as it is already given in course 22AE3201 - Elements of Aeronautics.
4. In course 22AE3002 - Aircraft Component Drawing Laboratory
 - a. The eighth experiment can be reordered before third and fourth.

- b. Experiment 10 can be replaced with sheet metal work instead of CNC component design
5. For minor degree courses, company and opportunity suitable can be added in units 3, 4, & 5 in Course 22AE5231- Fundamentals of Aeronautics offered in Semester V for other department students.
6. For honors degree students more choices can be given from the department side.
7. All members are accepted to incorporate the above Value Added Courses.
8. Skill Development courses introduced for member's approval
 - 19 LSZ401 –General Studies for Competitive Examinations
 - 19 LSZ402 – Human Rights, Women's Rights and Gender Equality
 - 19 LSZ403 – Indian Ethos and Human Values
 - 19 LSZ404 – Indian Constitution and Political System
 - 19 LSZ405 – Yoga for Human Excellence
9. Employability Enhancement courses introduced for member's approval.
 - 22HE3071 – Soft Skills – II (Passed by S&H board)
 - 22HE3072 – Fundamentals of JAVA Programming (Passed by CSE board)
10. In general, the members suggested to ensure mapping of Course objectives and Course outcomes with course contents.
11. The Chairman, BoS and all members accepted to incorporate the above in the curriculum.

The following resolution was made in the Board of Studies meeting,

- The syllabi of III semester of the UG Programmes (22MA3102 - Complex Analysis and Transforms, 22HE3071 - Soft Skills -II) for the students admitted during the academic year 2022 - 2023 and onwards was passed by S&H Board of Studies and permitted to move on Academic Council.
- The syllabi of I semester of the UG Programmes for the students admitted during the academic year 2023 - 2024 and onwards was passed by S&H Board of Studies and permitted to move on Academic Council


Chairman
(Board of Studies)
Chairman - BoS
AERO - HiCET

Enclose:

1. Previous BoS Minutes-ATR

2. Copy of Regulation 2022
3. Curriculum and Syllabi

Copy:

1. The Principal
2. Dean Academics
3. Controller of Examinations
4. All the Members of BoS
5. File



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Date: 13.12.2023

BOARD OF STUDIES MEETING

Name of the Department: **Aeronautical Engineering**

The 12th Board of Studies meeting of Regulation 2022 for the academic year 2023-24
EVEN semester was conducted on 13-12-2023 (Wednesday) 09.30 am to 11.30 am through
hybrid mode.

Venue: Aero board room, HiCET.

(Meet Link: <https://meet.google.com/mkl-sfhz-gfb>)

Sl.No	Name of the Person	Department	Position
1	Dr. V.T. Gopinathan	Associate Professor & Head, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Chairman
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12	Mr. Saravanan R	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
13	Mr. Arunraja KK	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
14	Mr. Manojkumar K	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
15	Mr. Saravana kumar V	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
16	Mr Tamilvenda D	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
17	Mr. Mageshkumar M	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
18	Ms. Gopika G Nair	IV YEAR AERO	Student Member
19	Mr. Aashik Hilahi B	IV YEAR AERO	Student Member

20	Mr. Bharathi T	III YEAR AERO	Student Member
21	Mr. Benadic Richard A	II YEAR AERO	Student Member

The Chairman-BoS welcomed all the members for the 11th Board of Studies meeting.

- Followed by Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held on 02.06.2023 was approved.
- The feedback collected on curriculum by the stakeholders was presented by the Chairman.
- The Chairman gave an outline of the views expressed by the members of 12th Department Advisory Committee (DAC) related to the curriculum and Syllabus. The Board of Studies Members' suggestion has been sought in this regard.
- Chairman presented the Semester VI (R2019 -admitted in 2021 & R2022) subjects with syllabus for Minor & Honours/Honours with specialization, and noted the experts suggestions.
- The curriculum and syllabi of Fourth semester subjects is discussed for 2022 regulation.

Recommendations by BoS members (Subject Related)

1. For course 22AE4201 - Aerodynamics – I, topics like Ideal flow, Magnus effect, D'Alembert's paradox can be included in Unit II.
2. In course 22AE4202-Mechanics of machines,
 - Topics like vibrations of systems, wobbling can be included
 - Unit -4 title 'Force analysis' can be replaced.
3. In course 22AE4203- Gas Turbine Propulsion, topics like HHV – LHV can be expanded in detail.
4. For course 22AE4251- Aircraft Structures-I,
 - Elastic supported beam experiment can be included.
 - Flexural rigidity of various beam can be included.
 - Principle of virtual work can be included in unit 3.
 - S-N curve can be included in unit 5.
 - Credit for this course can be increased to 4
5. For course 22AE4002- Propulsion Laboratory, open source software related experiment could be included and revisit the experiments related to Aircraft propulsion.
6. For Minor degree course 21AE6232- Aircraft Materials and Processes,
 - 'Introduction to 3-D printing' topic can be included.
 - Unit 3 and 4 can be swapped.
7. For Honors with Specialization in Space Technology,

- In course 21AE6205- Heat Transfer in Aerospace Applications, Unit -5 can be revisited.
8. For Honors with Specialization in Applied Aerodynamics,
- In course 21AE6206- Experimental methods in fluid mechanics, Unit -1 title can be changed.
 - Topics in Units-1, 2 & 3 can be minimized in course 21AE6206- Experimental methods in fluid mechanics.
 - In course 21AE6206- Experimental methods in fluid mechanics, in Unit -5 more analysis of experimental data methods can be included.
 - In course 21AE6207- Introduction to turbulence, syllabus can be revisited.
 - In course 21AE6207- Introduction to turbulence, in Unit-5 recent advancement can be included.
9. Skill Development courses introduced for member's approval
- 22HE4101- IPR and Start-ups (Passed by Mechanical board)
10. Employability Enhancement courses introduced for member's approval.
- 22HE4071 – Soft Skills – III (Passed by S&H board)
11. In general, the members suggested ensuring mapping of Course objectives and Course outcomes with course contents.
12. The Chairman, BoS and all members accepted to incorporate the above in the curriculum.

The following resolution was made in the Board of Studies meeting,

- The syllabi of IV semester of the UG Programmes (22MA4151 - Probability And Statistics with R Programming, 22HE4071 - Soft Skills - III) for the students admitted during the academic year 2022 - 2023 and onwards was passed by S&H Board of Studies and permitted to move on Academic Council.
- The syllabi of I semester of the UG Programmes for the students admitted during the academic year 2023 - 2024 and onwards was passed by S&H Board of Studies and permitted to move on Academic Council


Chairman

(Board of Studies)

Chairman - BoS
AERO - HiCET

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