HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST

HICET

Hindusthan

College of Engineering and Technology

(An Autonomous Institution Affiliated to Anna University | Approved by AICTE, New Delhi)
Accredited with 'A++' Grade by NAAC | Accredited by NBA (ECE, MECH, EEE, IT, CSE, AERO, AUTO, CIVIL, MCTS)
Valley Campus, Pollachi Highway, Coimbatore 641 032. | www.hicet.ac.in

Board of Studies – Minutes & Action Taken Report

Academic Year (2024 – 2025) – Odd Semester

Departments – UG & PG

1. **Aeronautical Engineering**
2. **Automobile Engineering**
3. **Civil Engineering**
4. **Mechanical Engineering**
5. **Mechatronics Engineering**
6. **Agricultural Engineering**
7. **Food Technology**
8. **Chemical Engineering**
9. **Computer Science Engineering**
10. **Electrical and Electronics Engineering**
11. **Electronics and Communication Engineering**
12. **Electronics and Instrumentation Engineering**
13. **Information Technology**
14. **Biomedical Engineering**
15. **Artificial Intelligence & Machine learning**
16. **Computer Science Engineering (Cyber Security)**
17. **Science and Humanities**
18. **M.B.A**
19. **M.C.A**

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Accredited by NAAC 'A++' Grade with CGPA of 3.69 out of 4 in Cycle 2
Valley Campus, Coimbatore – 641 032, Tamil Nadu, INDIA
Tel: +91 422 4242424 www.hicet.ac.in

Ref: HICET / OAA /AY 2023 – 2024 / EVEN / BoS / 02 02.04.2024

CIRCULAR

Dear Professors,

Greetings.

The Chairman of the Board of Studies of various programs of our institution has been requested to convene the BoS meeting and complete the process on or before **April 30, 2024**, in physical / hybrid mode. As per the request, we are attaching a soft copy of the scheme of Curriculum 2022-2023 for your reference.

It is expected that the following will be completed and presented in the BoS for the new Regulation 2022, Regulation 2019 with Amendments, PG Regulation 2020 and PG new Regulation 2024.

1. Curriculum & Syllabus for the courses to be completed in the AY 2024-2025 Odd semester.
2. Curriculum & Syllabus offered for the Minor degree and Honours degree verticals by the individual U.G Program under Regulation 2019 with Amendments for the batch admitted during AY 2021-2022 and for the batch admitted AY 2022-2023 onwards under Regulation 2022.
3. Revision/updation / new courses introduced, if any, in the Curriculum & Syllabus of the UG Program under Regulation 2019 with Amendments, Regulations 2022 & PG Program under Regulation 2020.
4. Ratification for the syllabus offered for the Minor degree and Honours degree verticals by the individual UG programme under Regulations 2019 for the batch admitted during AY 20220-2021.
5. Syllabus passed in the S&H board and service courses from the other boards to be presented for consent.
6. Value-added courses to be presented for consent.
7. Stakeholders' feedback and analysis.
8. Panel for question paper setting & evaluation for the individual Program.
9. ATR for the previous BoS.
10. DAC minutes.

We kindly request your cooperation in this matter.

Thank you.

2/4/2024

Dean - Academics
Hindusthan College of Engineering and Technology,
Valley Campus: Pollachi Highway, Coimbatore - 641032
Tamil Nadu, India.

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Valley Campus, Pollachi Highway, Coimbatore – 641032

Date: 20-05-2024

BOARD OF STUDIES MEETING

Name of the Department: **Aeronautical Engineering**

The 13th Board of Studies members for Regulation 2022 (for the students to be admitted from 2024-25 onwards) for the academic year 2024-25 odd semester was conducted on 20-05-2024 (Monday) 11.30 am to 1.30 am through hybrid mode.

Venue: Library conference Hall, HiCET.

(Meet Link: https://meet.google.com/bpe-tdko-pwu)

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. P R Thyla	Professor, Department of Mechanical Engineering, PSG College of Technology, Coimbatore.	University Nominee
3	Dr C Ramesh	Associate Professor, Department of Aeronautical Engineering, Hindustan Institute of Technology & Science, Chennai.	Academic Expert
4	Dr. M. Senthilkumar	Associate Professor & Head, Department of Aeronautical Engineering, Kumaraguru College of Technology, Coimbatore.	Academic Expert
5	Dr.Ganapathi Ammasai Sengodan	Lecturer in Aircarft Structures, University of Salford, Manchester, UK.	Member From QS Rated Institution
6	Mr Balasridhar S J	Lead Engineer, Airbus, Bangalore.	Industry Expert

7	Mr.Karunakaran M	Associate Manager, Collins Aerospace, Bengaluru.	Alumni Member
8	Mr. Moses Devaprasanna	Associate Professor Department of Aeronautuical Engineering, HiTECH.	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. Saravana kumar V	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
16	Mr Tamilvendan D	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
17	Mr. Mageshkumar M	Assistant Professor,	Member

		Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	
18	Mr. Sivaram Y	II YEAR AERO	Student Member
19	Mr. Benadic Richard A	II YEAR AERO	Student Member

The Chairman-BoS welcomed all the members for the 12th 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 13-12-2023 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 13th 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 VII (R2019 -admitted in 2021) subjects with syllabus for Minor & Honours/Honours with specialization, and noted the experts suggestions.
- The curriculum and syllabi of Third and Fifth semester subjects is discussed for 2022 regulation.

Recommendations by BoS members (Subject Related)

1. In course 22AE5314 Civil Aviation Regulations, New Drone certifications & guidelines can be included.
2. In course 22AE5317- Additive Manufacturing and Tooling, Unit II Content related to geometric modeling could be made concise and fifth unit content on Rapid Tooling could be merged with Unit II, and also include STL and AMF file formats, Slicer modules.
3. In course 22AE5313-Airframe Maintenance and Repair, topics such as Nano engineered composites and environmental impact of composites can added in Unit-3.
4. In course 22AE5315-Aircraft Engine Maintenance and Repair, regulatory requirements for engine overhauling, including compliance with FAA regulations (FAR Part 33) can be included.
5. For Honors degree courses,
   - In course 21AE7203- Missiles Guidance and Control, in the application module, UAV guidance can be added.
   - In course 21AE7204- Satellite attitude dynamics and control, attitude determination and attitude measuring sensors used in satellites can be added.
6. Skill Development courses introduced for member's approval

- 22HE1072-Entrepreneurship & Innovation (Passed by S&H board)
- 22AE3072- Introduction to MATLAB

7. Employability Enhancement courses introduced for member's approval.
   - 22HE1073- Introduction To Soft Skills (Passed by S&H board)
   - 22HE3071 – Soft Skills – 2 (Passed by S&H board)
   - 22HE5071 – Soft Skills – 4 (Passed by S&H board)
8. In general, the members suggested ensuring mapping of Course objectives and Course outcomes with course contents.
9. 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 & V semester of the UG Programmes (22MA3104 - Fourier analysis and Numerical Techniques, 22HE3071 - Soft Skills -2, 22HE5071 - Soft Skills -4) 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 (22PH1153 - Physical Properties of Materials) for the students admitted during the academic year 2024 - 2025 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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(An Autonomous Institution, Affiliated to Anna University, Chennai)

Othakalmandabam Post, Coimbatore

Department of Aeronautical Engineering

Date: **15.06.2024**

Action Taken Report on BoS

Name of the Department: Aeronautical Engineering

The 13th Board of Studies meeting of Regulation 2022 (for the students to be admitted from 2024-25 onwards) for the academic year 2024-25 was conducted on 20-05-2024 (Monday) 11.30 am to 1.30 am through hybrid mode

Venue: Library conference Hall, HiCET.

(Meet Link: https://meet.google.com/bpe-tdko-pwu)

(i) Courses Introduced under Regulation 2022 & 2019:

S.No.	Regulation	Course code with name		Credits
1.	2022	22PH1153	Physical Properties of Materials	3
2.	2022	22AE5201	Flight Dynamics	3
3.	2022	22AE5202	Aerodynamics - II	3
4.	2022	22AE5251	Aircraft structures - II	3
5.	2022	22AE5001	Aircraft Systems and Maintenance Laboratory	2
6.	2022	22HE5071	Soft Skills -4/Foreign languages	1
7.	2022	22AE5301	Theory of Elasticity	3
8.	2022	22AE5302	Experimental Stress Analysis	3
9	2022	22AE5303	Composite Materials and Structures	3
10.	2022	22AE5304	Wind Tunnel Techniques	3
11.	2022	22AE5305	Boundary layer Theory	3
12.	2022	22AE5306	Helicopter Aerodynamics	3
13.	2022	22AE5307	Advanced Propulsion System	3
14.	2022	22AE5308	Heat Transfer	3
15.	2022	22AE5309	Combustion in Aerospace Engineering	3
16.	2022	22AE5310	Control Engineering	3

17.	2022	22AE5311	Microprocessor and Applications	3
18.	2022	22AE5312	Drone Electronics	3
19.	2022	22AE5313	Airframe Maintenance and Repair	3
20.	2022	22AE5314	Civil Aviation Regulations	3
21.	2022	22AE5315	Aircraft Engine	3
22.	2022	22AE5316	Manufacturing Technology	3
23.	2022	22AE5317	Additive Manufacturing and Tooling	3
24.	2022	22AE5318	Lean Manufacturing	3
25.	2022	22AE5231	Fundamentals of Aeronautics	3
26.	2022	22AE5203	Space Flight Mechanics	3
27.	2022	22AE5204	Wind Engineering	3
28.	**2019**	21AE7231	Aircraft General Maintenance	3
29.	**2019**	21AE7232	Introduction to Unmanned Aerial Vehicle Systems	3
30.	**2019**	21AE7203	Missiles Guidance and Control	3
31.	**2019**	21AE7204	Satellite attitude dynamics and control	3
32.	**2019**	21AE7205	Space Vehicle Aerodynamics	3
33.	**2019**	21AE7206	Computational Heat Transfer and fluid flow	3

General Recommendations:

S.No.	Suggestion given in the BoS experts	Action taken
1	In Engineering Practices laboratory, Aviation domain experiments can be included.	Considered
2	Aviation safety engineering related subjects can be included in PE.	Considered
3	Aeronautical domain related software like ANSYS, CATIA, and HYPERMESH can be offered through value added courses.	Considered

CHAIRMAN
BoS/AERO

Chairman - BoS
AERO - HiCET

Hindusthan
College of Engineering and Technology
Coimbatore-641032

HICET

DEPARTMENT OF AUTOMOBILE ENGINEERING

Date: 21.05.2024

THIRTEENTH BOS MEETING MINUTES

The Thirteenth BOS meeting of regulation R2022 and R2019R for the academic year 2024-2025 (ODD Semester) was conducted on 20.05.2024 in hybrid mode (online using Google Meet) and offline in Automobile department seminar hall). The objective of the meeting was to discuss the curriculum and syllabi for R2022 (First and Fifth Semester) and R2019 (Seventh Semester) with all professional elective courses minor and honor degree courses, open elective courses and newly added courses.

Note: Google meeting link: https://meet.google.com/fvw-qtms-ors

The following members were present

S.No.	Name of the Expert	Affiliation	Nomination
1	**Dr Sabarinathan C**	Professor and Head / Automobile Engineering, Hindusthan College of Engineering and Technology	**Chairman**
2	**Dr Thyla,**	Professor Department of Mechanical Engineering, PSG College of Technology, Coimbatore Email ID: prt.mech@psgtech.ac.in	**University Nominee**
3	**Dr Mothilal T**	Professor and Head, Department of Automobile Engineering, KCG College of Technology, Chennai. Email Id: hodauto@kcgcollege.com Contact No: 9840442207	**Subject Expert 1**
4	**Dr Ganesh V**	Associate Professor, Department of Automobile Engineering, Sri Venkateswara College of Engineering, Chennai. Email Id: vinaganesh@svce.ac.in Contact No: 6380883699	**Subject Expert 2**
5	**Mr Rajeev T K**	Director,	**Industry Expert 1**

		Suprajiv Technical and Management Studies OPC Pvt. Ltd., Bangalore Email Id: suprajiv.trg@gmail.com Contact No: 7217813975	
6	**Mr Prasanthkumar Palani**	Chief Technical Consultant – Electric Vehicle, Haritha Mobility, Tirupur Email Id: prasanthkumar.palani@haritha-mobility.com Contact No: 9786196955	**Industry Expert 2**
7	**Dr Nadaraja Pillai S**	Associate Dean – Academics, School of Mechanical Engineering, Sastra Deemed University, Thanjavur. Email Id: nadarajapillai@mech.sastra.edu Contact No: 9176520125	**QS Rated Institution**
8	**Dr.S.R.Rajabalayanan**	Professor and Head / Mechanical Engineering, Hindusthan Institute of Technology	**Special Invitee**
9	**Mr Karthick K**	New Product Development Engineer, Hyundai Motors India Pvt. Ltd., Chennai. Email Id: sivirikarthick@gmail.com Contact No: 6374230113	**Alumni**
10	Mrs Anitha Kumari P (M/o Ambadi A, IV yr)	Teacher, - Govt Town UP school Kayamkulam, Alappuzha district, Kerala.	Parent
11	Mrs. Mekalai R (M/o. Siddharth S M, III yr)	Headmistress - Lisieux CMI International School, Coimbatore – 641 011	Parent
12	Mr. Sampath PhD (F/o Dhivahar, II Yr)	General Manager, Indo – Nor Aqua Farm PVT, Chennai	Parent
13	Dr.Sankar Ganesh R	Asso.Professor / Automobile Engg.	Member
14	Mr Yogaraja J	Asst.Professor / Automobile Engg.	Member
15	Dr Krishnaraj J	Asst.Professor / Automobile Engg.	Member
16	Mr Ragu S	Asst.Professor / Automobile Engg.	Member
17	Mr Mujiburrahman K	Asst.Professor / Automobile Engg.	Member
18	Mr Prabhu G	Asst.Professor / Automobile Engg.	Member
19	Mr Satheesh Kumar K	Asst.Professor / Automobile Engg.	Member
20	Mr Prakash R S	Asst.Professor / Automobile Engg.	Member
21	Mr Gowtham T	Final Year Automobile Engineering	Student Member
22	Mr Balaji C	Third Year Automobile Engineering	Student Member
23	Mr. Aneesh Akthar	Second Year Automobile Engineering	Student Member

The chairman of the BOS, welcomed all the dignitaries for the meeting. He has presented the department vision and mission statements to the forum. Also, he has given an outline of the institution and department and salient features of the new Regulation 2022 Curriculum and Syllabi.

Followed by he has also presented the suggestions given by the experts and the action taken during the Twelfth BOS meeting which was held during 13.12.2023 and action taken report on the suggestions.

The chairman has presented the curriculum and syllabus of R2019 with Minor and Honor Degree courses, and curriculum of R2022 with syllabus of Vth semester courses.

Comments given by BoS members:

Dr Thyla, (University Nominee)

- Suggested to change the course name from Fundamentals of Thermodynamics to Engineering Thermodynamics.
- Suggested to include Design of machine Elements in IVth Semester.
- Suggested to include the course "Computational Fluid Dynamics"
- Suggested to include the course "Finite Element Analysis"
- Suggested to introduce Vehicle Dynamics Laboratory.
- Suggested to move vehicle Dynamics from sixth semester to seventh semester.

Dr Ganesh V (Subject Expert 2):

- He suggested check the Total credit points.
- He suggested to add new reference and text books in Two and Three wheeler.
- He suggested to include different kinds of Fuel standards in Automotive fuels and Lubricants.
- He suggested to include the course Automotive chassis in Regulation 2022.
- He suggested to include the Automotive Engine Components Design Lab.
- He suggested to include MATLAB in the curriculum for 22 Regulation.

Mr Rajeev T K (Industry Expert 1):

- He appreciated the inclusion of Safety and Maintenance aspects in the Curriculum.
- He suggested to add details of heavy vehicle specification in the Automotive Chassis.
- He suggested to add design aspects in Component design.

- He suggested to add a greater number of tools in material Handling.
- He suggested to include different kind of safety aspects like Human safety, tools safety and machine safety.
- He suggested to include about charging stations in "Electric Vehicle Technology".
- He suggested to include content on Assembly Line, Quality and Inspection.

Mr. Sampath PhD (Parent):

- He suggested to include recent developments in syllabus.
- He suggested to add more practical oriented contents.

Mr Karthick K(Alumni):

- He suggested to add one more Electronics Lab in Vth Semester.
- He suggested to include the course "Autotronics"
- He suggested to include the topics like "PLC, M Control and M process"
- He suggested to upgrade and include "Industry 5.0"

Mr.Gowtham T (Student Member):

- He has suggested that exposure to cutting-edge tools and techniques would give students a competitive advantage in the job market.

Recommendations by BoS members (Subject Related)

The following points were summarized by chairman as per the suggestions of BoS members and stakeholders

In R2022:

- The following courses are approved for I semester

S.No	Course Code	Course Name	Category
		THEORY	
1	**22MA1101**	Matrices and Calculus	BSC
2	**22ME1201**	Engineering Drawing	ESC
		THEORY WITH LAB COMPONENT	
3	**22HE1151**	English for Engineers	HSC
4	**22PH1151**	Physics for Non-Circuit Engineering	BSC
5	**22AU1201**	**Fundamentals of Automotive Engineering**	**ESC**
		EEC COURSES (SE/AE)	
6	**22HE1072**	ENTREPRENEURSHIP & INNOVATION (Common to all branches)	AEC
7	**22HE1073**	Introduction to Soft Skills	SEC
		MANDATORY COURSE	
8	**22MC1093/ 22MC1094**	தமிழர் மரபு / Heritage of Tamils	MC
9	**22MC1095**	Universal Human Values	MC

- The following courses are approved for III semester

S. No	Course Code	Course Title	Category
		THEORY	
1.	22MA3104	Fourier analysis and numerical techniques	BSC
2.	22AU3201	Fundamentals of Automotive Engines	PCC
3.	22AU3202	Fundamentals of Thermodynamics	PCC
4.	22AU3203	Mechanics of Materials	PCC
		THEORY WITH LAB COMPONENT	
5.	22AU3251	Manufacturing Technology	PCC
		PRACTICAL	

6.	22AU3001	Automotive Components Lab	ESC
7.	22AU3002	Mechanics of Materials Lab	PCC
EEC COURSES (SE/AE)			
8.	22HE3071	Soft Skills -2	SEC
9.	22AU3072	Machine Drawing	AEC
10.	22MC3092	Essence of Indian Traditional Knowledge	AEC

- The following courses are approved for V semester

S. No	Course Code	Course Title	Category	L	T	P	C	TCP	CIA	ESE	Total
THEORY											
1.	**22AU5201**	Vehicle design and data characteristics	PCC	3	0	0	3	4	40	60	100
2.	**22AU5202**	Automotive Fuels and Lubricants	PCC	3	0	0	3	3	40	60	100
3.	**22AU53XX**	Professional Elective-1	PEC	3	0	0	3	3	40	60	100
4.	**22AU53XX**	Professional Elective-2	PEC	3	0	0	3	3	40	60	100
5.	**22AU53XX**	Professional Elective-3	PEC	3	0	0	3	3	40	60	100
THEORY WITH LAB COMPONENT											
6.	**22AU5251**	Two and Three-wheeler Technology	PCC	2	0	2	3	4	50	50	100
PRACTICAL											
7.	**22AU5001**	Automotive Fuels and Lubricants Laboratory	PCC	0	0	4	2	4	60	40	100
EEC COURSES (SE/AE)											
8.	**22HE5071**	Soft Skills -4/Foreign languages	SEC	1	0	0	1	1	100	0	100
			TOTAL	**18**	**0**	**6**	**21**	**25**	**410**	**390**	**800**

Details of Vertical I: MODERN MOBILITY SYSTEMS

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	22AU5301	Automotive Materials, Components, Design & Testing	PEC	3	0	0	3	3
2	22AU5302	Conventional and Futuristic Vehicle Technology	PEC	3	0	0	3	3
3	22AU5303	Renewable Powered Off Highway Vehicles and Emission Control Technology	PEC	3	0	0	3	3

Details of Vertical II: PRODUCT AND PROCESS DEVELOPMENT

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	22AU5304	Value Engineering	PEC	3	0	0	3	3
2	22AU5305	Additive Manufacturing	PEC	3	0	0	3	3
3	22AU5306	CAD/CAM	PEC	3	0	0	3	3

Details of Vertical III: ROBOTICS AND AUTOMATION

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	22AU5307	Sensors and Instrumentation	PEC	3	0	0	3	3
2	22AU5308	Electrical Drives and Actuators	PEC	3	0	0	3	3
3	22AU5309	Embedded Systems and Programming	PEC	3	0	0	3	3

Details of Vertical IV: DIGITAL AND GREEN MANUFACTURING

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	22AU5310	Digital Manufacturing and IoT	PEC	3	0	0	3	3
2	22AU5311	Lean Manufacturing	PEC	3	0	0	3	3
3	22AU5312	Modern Robotics	PEC	3	0	0	3	3

Details of Vertical V: CLEAN AND GREEN ENERGY TECHNOLOGIES

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	22AU5313	Bioenergy Conversion Technologies	PEC	3	0	0	3	3
2	22AU5314	Carbon Footprint estimation and reduction techniques	PEC	3	0	0	3	3
3	22AU5315	Energy Conservation in Industries	PEC	3	0	0	3	3

Details of Vertical VI: CORE ELECTIVE

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	22AU5316	Automotive Chassis	PEC	3	0	0	3	3
2	22AU5317	Automotive Transmission	PEC	3	0	0	3	3
3	22AU5318	Alternate Fuels and Energy Systems	PEC	3	0	0	3	3

Minor Degree - **Automotive Vehicle Technology (Offered by Automobile Engineering)**									
S.No	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**	**CIA**	**ESE**	**TOTAL**
1	22AU5601	Automotive Engines	3	0	0	3	40	60	100

Honors Degree - **Electric and hybrid vehicle development**									
S.No	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**	**CIA**	**ESE**	**TOTAL**
1	22AU5204	Fundamentals of Electric and Hybrid Vehicles	3	0	0	3	40	60	100

Honors Degree - **Motorsport Engineering**									
S.No	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**	**CIA**	**ESE**	**TOTAL**
1	22AU5205	Composite Structure	3	0	0	3	40	60	100

Honors Degree - **Vehicle Development and Validation**									
S.No	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**	**CIA**	**ESE**	**TOTAL**
1	22AU5206	Automotive Product Design and Development	3	0	0	3	40	60	100

2021 – 2025 BATCH VII SEM

SEMESTER VII

S.No.	Course Code	Course Title	Course Category	L	T	P	C	CIA	ESE	TOTAL
THEORY										
1	21AU7201	Advanced Electrical and Electronics*#$	PC	3	f	0	3	40	60	100
2	21AU7202	Engine and Vehicle Management Systems*#$	PC	3	0	0	3	40	60	100
3	21AU73XX	Professional Elective – 3	PE	3	0	0	3	40	60	100
4	21XX74XX	Open Elective – 2	OE	3	0	0	3	40	60	100
THEORY WITH LAB COMPONENT										
5	21AU7251	Electric and Hybrid Vehicle$$	PC	2	0	2	3	50	50	100
PRACTICAL										
6	21AU7001	Advanced Electrical and Electronics Lab*#$	PC	0	0	3	1.5	50	50	100
7	21AU7002	Vehicle Maintenance Laboratory*#	PC	0	0	3	1.5	50	50	100
PROJECT										
8	21AU7901	Project Work – Phase I	EEC	0	0	4	2	50	50	100
		Total		**14**	**0**	**12**	**20**	**360**	**440**	**800**

PROFESSIONAL ELECTIVE III										
1	21AU7301	Automotive Vehicle Maintenance	3	0	0	3	40	60	100
2	21AU7302	Digital Supply Chain Management	3	0	0	3	40	60	100
3	21AU7303	Engine Auxiliary Systems	3	0	0	3	40	60	100
4	21AU7304	Tribology and Terotechnology	3	0	0	3	40	60	100
5	21AU7305	Entrepreneurship Development	3	0	0	3	40	60	100
6	21AU7306	Automotive Embedded Systems	3	0	0	3	40	60	100

Minor Degree - **Automotive Vehicle Technology (Offered by Automobile Engineering)**									
S.No	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**	**CIA**	**ESE**	**TOTAL**
1	21AU7601	Automotive Electronics	3	0	0	3	40	60	100
2	21AU7602	Intelligent vehicular systems	3	0	0	3	40	60	100

Honors Degree - **Electric and hybrid vehicle development**									
S.No	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**	**CIA**	**ESE**	**TOTAL**
1	21AU7203	Advanced Automotive Safety Systems	3	0	0	3	40	60	100
2	21AU7204	Special Purpose Electric Vehicle	3	0	0	3	40	60	100
Honors Degree - **Motorsport Engineering**									
S.No	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**	**CIA**	**ESE**	**TOTAL**
1	21AU7205	Motorsports Vehicle Body Engineering	3	0	0	3	40	60	100
2	21AU7206	Motorsports Race Electronics and Control Systems	3	0	0	3	40	60	100
Honors Degree - **Vehicle Development and Validation**									
S.No	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**	**CIA**	**ESE**	**TOTAL**
1	21AU7207	Testing and Measurement Systems	3	0	0	3	40	60	100
2	21AU7208	Homologation	3	0	0	3	40	60	100

The following resolutions were made in the Board of Studies meeting,

- Department Vision and Mission - The vision and mission statements of the department were found to be good and accepted without any changes.
- In almost all the courses, changes have been done as per the current needs.
- The curriculum and syllabus of Regulation 2022 for the I semester subjects were passed by the Science and Humanities board and permitted to move on Academic Council by the BoS members of Automobile Engineering for the students admitted during the academic year 2024-2025 and onwards.
- As per the suggestion of CDC, the Honors degree verticals such as 'Electric and hybrid vehicle development', 'Motorsport Engineering', 'Motorsports racing circuits and Design' 'Vehicle research and validation' and minor degree vertical of Automobile Engineering are to be added to the R2019 regulation students admitted during the academic year 2021 - 2022.
- Also, the minor degree program and honors degree program to be added to the regulation of students admitted during the academic year 2021 - 2022.

- The Chairman conveyed that; the Suggestions given by the Board of Studies members are to be incorporated in all years of R2019 and R2022 curriculum.
- Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

With these words the chairman thanked the gathering for their presence in the BOS meeting.

Overall Percentage of New Concepts Introduced – 35.29%

CHAIRMAN
Dr.C.Sabarinathan
Chairman - BoS
AUTO - HiCET

Hindusthan College of Engineering and Technology
Accredited with 'A' Grade by NAAC, Affiliated to Anna University)
Valley Campus, Pollachi Highway, Coimbatore – 641032

Date: 21.05.2024

Action taken report on Thirteenth BoS

Name of the Department: **Automobile Engineering**

The Thirteenth BOS meeting of regulation R2022 and R2019-R for the academic year 2024 – 25 was conducted on 20.05.2024 in hybrid mode (online using Google Meet) and offline in Automobile department seminar hall). The objective of the meeting was to discuss the curriculum and syllabi for R2022 for Ist, IIIrd and Vth semester and R2019 with all professional elective courses, open elective courses, newly added courses, Minor and Honor Degree courses for VIIth.

Note: Google meeting link: https://meet.google.com/fvw-qtms-ors

(I) Courses under Regulation 2019R

S.No.	Regulation	Course code with name		Credits
1.	2019R	21AU7201	Advanced Electrical and Electronics	3
2.	2019R	21AU7202	Engine and Vehicle Management Systems	3
3.	2019R	21AU7251	Electric and Hybrid Vehicle	3
4.	2019R	21AU7001	Advanced Electrical and Electronics Lab	1.5
5.	2019R	21AU7002	Vehicle Maintenance Laboratory	1.5
6.	2019R	21AU7901	Project Work – Phase I	2

PROFESSIONAL ELECTIVE III				
S.No.	**Regulation**	**Course code with name**		**Credits**
1.	2019R	21AU7301	Automotive Vehicle Maintenance	3
2.	2019R	21AU7302	Digital Supply Chain Management	3
3.	2019R	21AU7303	Engine Auxiliary Systems	3

4.	2019R	21AU7304	Tribology and Terotechnology	3
5.	2019R	21AU7305	Entrepreneurship Development	3
6.	2019R	21AU7306	Automotive Embedded Systems	3

S.No.	Regulation	Course name		Credits
Minor Degree - Automotive Vehicle Technology				
1	2019R	21AU7601	Automotive Electronics	3
2	2019R	21AU7602	Intelligent vehicular systems	3
Honors (Electric and Hybrid Vehicle)				
3	2019R	21AU7203	Advanced Automotive Safety Systems	3
4	2019R	21AU7204	Special Purpose Electric Vehicle	3
Honors (Motorsports Engineering)				
5	2019R	21AU7205	Motorsports Vehicle Body Engineering	3
6	2019R	21AU7206	Motorsports Race Electronics and Control Systems	3
Honors (Vehicle Development and Validation)				
7	2019R	21AU7207	Testing and Measurement Systems	3
5	2019R	21AU7208	Homologation	3

(II) Courses Introduced under Regulation 2022 Batch (2022-2026)

S. No	Course Code	Course Title	Category	L	T	P	C	TCP	CIA	ESE	Total
THEORY											
1.	**22AU5201**	Vehicle design and data characteristics	PCC	3	0	0	3	4	40	60	100
2.	**22AU5202**	Automotive Fuels and Lubricants	PCC	3	0	0	3	3	40	60	100
3.	**22AU53XX**	Professional Elective-1	PEC	3	0	0	3	3	40	60	100
4.	**22AU53XX**	Professional Elective-2	PEC	3	0	0	3	3	40	60	100
5.	**22AU53XX**	Professional Elective-3	PEC	3	0	0	3	3	40	60	100
THEORY WITH LAB COMPONENT											

6.	**22AU5251**	Two and Three-wheeler Technology	PCC	2	0	2	3	4	50	50	100
PRACTICAL											
7.	**22AU5001**	Automotive Fuels and Lubricants Laboratory	PCC	0	0	4	2	4	60	40	100
EEC COURSES (SE/AE)											
8.	**22HE5071**	Soft Skills -4/Foreign languages	SEC	1	0	0	1	1	100	0	100
			TOTAL	**18**	**0**	**6**	**21**	**25**	**410**	**390**	**800**

Details of Vertical I: MODERN MOBILITY SYSTEMS

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	22AU5301	Automotive Materials, Components, Design & Testing	PEC	3	0	0	3	3
2	22AU5302	Conventional and Futuristic Vehicle Technology	PEC	3	0	0	3	3
3	22AU5303	Renewable Powered Off Highway Vehicles and Emission Control Technology	PEC	3	0	0	3	3

Details of Vertical II: PRODUCT AND PROCESS DEVELOPMENT

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	22AU5304	Value Engineering	PEC	3	0	0	3	3
2	22AU5305	Additive Manufacturing	PEC	3	0	0	3	3
3	22AU5306	CAD/CAM	PEC	3	0	0	3	3

Details of Vertical III: ROBOTICS AND AUTOMATION

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	22AU5307	Sensors and Instrumentation	PEC	3	0	0	3	3
2	22AU5308	Electrical Drives and Actuators	PEC	3	0	0	3	3
3	22AU5309	Embedded Systems and Programming	PEC	3	0	0	3	3

Details of Vertical IV: DIGITAL AND GREEN MANUFACTURING

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	22AU5310	Digital Manufacturing and IoT	PEC	3	0	0	3	3

2	22AU5311	Lean Manufacturing	PEC	3	0	0	3	3
3	22AU5312	Modern Robotics	PEC	3	0	0	3	3

Details of Vertical V: CLEAN AND GREEN ENERGY TECHNOLOGIES

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	22AU5313	Bioenergy Conversion Technologies	PEC	3	0	0	3	3
2	22AU5314	Carbon Footprint estimation and reduction techniques	PEC	3	0	0	3	3
3	22AU5315	Energy Conservation in Industries	PEC	3	0	0	3	3

Details of Vertical VI: CORE ELECTIVE

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1	22AU5316	Automotive Chassis	PEC	3	0	0	3	3
2	22AU5317	Automotive Transmission	PEC	3	0	0	3	3
3	22AU5318	Alternate Fuels and Energy Systems	PEC	3	0	0	3	3

Minor Degree - **Automotive Vehicle Technology (Offered by Automobile Engineering)**									
S.No	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**	**CIA**	**ESE**	**TOTAL**
1	22AU5601	Automotive Engines	3	0	0	3	40	60	100

Honors Degree - **Electric and hybrid vehicle development**									
S.No	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**	**CIA**	**ESE**	**TOTAL**
1	22AU5204	Fundamentals of Electric and Hybrid Vehicles	3	0	0	3	40	60	100

Honors Degree - **Motorsport Engineering**									
S.No	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**	**CIA**	**ESE**	**TOTAL**
1	22AU5205	Composite Structure	3	0	0	3	40	60	100

Honors Degree - **Vehicle Development and Validation**									
S.No	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**	**CIA**	**ESE**	**TOTAL**
1	22AU5206	Automotive Product Design and Development	3	0	0	3	40	60	100

Batch (2023-2027)

S. No	Course Code	Course Title	Category
THEORY			
1.	22MA3104	Fourier analysis and numerical techniques	BSC
2.	22AU3201	Fundamentals of Automotive Engines	PCC
3.	22AU3202	Fundamentals of Thermodynamics	PCC
4.	22AU3203	Mechanics of Materials	PCC
THEORY WITH LAB COMPONENT			
5.	22AU3251	Manufacturing Technology	PCC
PRACTICAL			
6.	22AU3001	Automotive Components Lab	ESC
7.	22AU3002	Mechanics of Materials Lab	PCC
EEC COURSES (SE/AE)			
8.	22HE3071	Soft Skills -2	SEC
9.	22AU3072	Machine Drawing	AEC
10.	22MC3092	Essence of Indian Traditional Knowledge	AEC

Batch (2024-2028)

S.No	Course Code	Course Name	Category
THEORY			
1	**22MA1101**	Matrices and Calculus	BSC
2	**22ME1201**	Engineering Drawing	ESC
THEORY WITH LAB COMPONENT			
3	**22HE1151**	English for Engineers	HSC
4	**22PH1151**	Physics for Non-Circuit Engineering	BSC

5	**22AU1201**	**Fundamentals of Automotive Engineering**	**ESC**
EEC COURSES (SE/AE)			
6	**22HE1072**	ENTREPRENEURSHIP & INNOVATION (Common to all branches)	AEC
7	**22HE1073**	Introduction to Soft Skills	SEC
MANDATORY COURSE			
8	**22MC1093/ 22MC1094**	தமிழர் மரபு / Heritage of Tamils	MC
9	**22MC1095**	Universal Human Values	MC

(III) General Recommendations:

S.No.	Suggestions / Comments given by the Members for 2019 Regulation	Action Taken	Report
1	**Dr Thyla, University Nominee suggested to include the course "Finite Element Analysis"**	Suggestion accepted	FEA Subject included in the curriculum
2	**Swap the Vehicle Dynamics subjects from VI to VII Sem**	Suggestion accepted	Vehicle Dynamics Subjects Swapped
3	**Suggested to add Computational Fluid Dynamics in any of the PE**	Suggestion accepted	We are in the process of finding the slots to incorporate this subject
4	**Dr Ganesh V, Subject Expert suggested to add latest edition of reference book in the Two and Three Wheeler Subject**	Suggestion Incorporated	Latest Edition book titles added in the subject
5	**Various fuel standards need to added in the Automotive Fuel and Lubricants**	Suggestion Incorporated	Fuel standards added in the AFL subject
6	**Suggested to introduce Automotive Chassis sub in R 2022**	Suggestions are well taken	Automotive Chassis subject introduced in the Professional Elective
7	**Suggested to include Automotive Engine Components Lab and MAT Lab in the curriculum**	Suggestions are well taken	We are in the process of incorporate on the above suggestions

8	**Mr Rajeev TK, Industry Expert suggested to add of heavy vehicle specification in the Automotive Chassis components design**	Suggestion Incorporated	Heavy Vehicle Specification Added in the Syllabus
9	**Suggested to include about charging stations in "Electric Vehicle Technology".**	Suggestion Incorporated	Charging Station topic included in the subject
10.	**He is appreciated the inclusion of Safety and Maintenance aspects in the Curriculum**	-	Team Automobile Engineering Honoured the Appreciation

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

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Coimbatore - 641 032

DEPARTMENT OF CIVIL ENGINEERING

Date: 29.05.2024

BOARD OF STUDIES MEETING

Name of the Department: Civil Engineering

The Board of Studies meeting (13th BoS) of Civil Engineering to discuss the curriculum & syllabus of Regulation 2019 & 2022 for the academic year 2023-2024 (Even Semester)was conducted on 27.05.2024 at 11.30 am in the hybrid mode through Google Meet.

(Meeting Link:https:https://meet.google.com/ope-bmtx-got)

The following members were present.

S.No	Name of the Person	Department	Position
1.	**Dr. K. Akil**	Professor and Head, Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore.	**Chairman**
2	**Dr. M. Palanikumar**	Professor, Department of Civil Engineering, PSG College of Technology, Coimbatore.	**University Nominee**
3	**Dr. J. Jeyanthi**	Professor and Head, Department of Civil Engineering (Environmental Engineering) , Government College of Technology, Coimbatore.	**Academic Expert**
4	**Dr. M. P. Muthuraj**	Associate Professor and Head, Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore.	**Academic Expert**
5	**Er. J. Prem Kumar**	Principal Consultant, M/s Infinustech, Coimbatore.	**Industry Member**
6	**Dr. Murari R. R. Varma**	Associate Professor and Head, Department of Civil Engineering, Birla Institute of Technology and Science, Pilani, Hyderabad.	**QS Rated Institution Member**

7	**Dr. J. Jaya**	Principal, Hindusthan College of Engineering and Technology, Coimbatore.	**Principal**
8	**Dr. K. Karunakaran**	Chief Executive Officer, Hindusthan College of Engineering and Technology, Coimbatore.	**Chief Executive Officer**
9	**Dr. P. N. Magudeshwaran**	Dean (Academics) Hindusthan College of Engineering and Technology, Coimbatore.	**Dean**
7	**Dr. S. Deepa Shri**	Professor Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore.	**Member**
8	**Mr. R. Senthil Kumar**	Assistant Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore.	**Member**
9	**Mr. A. Alex Livingston Raja**	Assistant Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore.	**Member**
10	**Ms. K. Saraswathi**	Assistant Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore.	**Member**
11	**Ms. V. Suresh**	Assistant Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore.	**Member**
12	**Mr. V. Muthalagappan**	Assistant Cost Manager, Turnur and Townsend Pvt. Ltd Bangalore.	**Alumni Member**
13	**Mr. K. Arun**	IV Year Student Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore.	**Student Member**
14	**Mr. S Sugumaran**	III Year Student Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore.	**Student Member**
15	**Mr. P. Rajadurai**	II Year Student Department of Civil Engineering, Hindusthan College of Engineering and Technology, Coimbatore.	**Student Member**

- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the eleventh Board of Studies meeting.
- Chairman disseminated Vision and Mission of the Institution and the Department,Programme Educational Objectives (PEOs), Programme Specific Outcomes (PSOs), Programme Outcomes (POs)
- Chairman also presented the new regulation 2022 and the curriculumgiven by the Curriculum Development Cell (CDC) &Department Advisory Committee (DAC).
- Followed by, Chairmanpresented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during **19.12.2023**was approved.

For Regulations 2022:

- Changes have been done as per the current needs in curriculum and syllabus of Regulation 2022.
- Based on Regulation 2022, the revised curriculum and syllabi for I, III and V semesters of R2022 were reviewed for the B.E Civil Engineering program for the students admitted in the academic year 2022 - 2023 and onwards and permitted to move on to the Academic Council.

For Regulations 2019:

- Changes have been done as per the current needs in curriculum and syllabus of Regulation 2019.
- Based on Regulation 2019, the revised curriculum and syllabi for VII semesters of R2019 were reviewed for the B.E Civil Engineering program for the students admitted in the academic year 2021 - 2022 and onwards and permitted to move on to the Academic Council.

Value added Courses:

- Revit Architecture, STAAD. Pro to be introduced as value added courses for IV Semester & VI Semester respectively.

Following are the Comments put forth by the Experts:

Course Code & Title	Suggestions Given
21CE7201-Water Resources and Irrigation Engineering	Academic Expert (Dr. J. Jeyanthi) suggested that, Sedimentation Control topic may be added
21CE7207 - Open Source GIS	Academic Expert (QS Rated Institution) (Dr. Murari R R Varma) suggested that, the course can be renamed as Geographical Information System
22CE5072 - Survey Camp	Academic Expert (QS Rated Institution) (Dr. Murari R R Varma) and Industry Expert (Er. J. Premkumar) suggested that, Drone Surveying Experiment can be added
22CE5301- Repair and Rehabilitation of Structures	Academic Expert (Dr. M. P. Muthuraj) suggested that, Unit 3 can be removed and & Unit 4 can be split into 2 units
22CE5317 - Air and Noise Pollution Control Engineering	Academic Expert (QS Rated Institution) (Dr. Murari R R Varma) suggested that, Air Quality Index may be included
22CE3203 - Water Supply and Wastewater Engineering	Academic Expert (Dr. J. Jeyanthi) suggested that, Stages of Wastewater Treatment can be added

- Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with thanks by the Chairman at 1.30 p.m.

Chairman - BoS
CIVIL - HiCET

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DEPARTMENT OF CIVIL ENGINEERING

Date: 29.05.2024

ACTION TAKEN REPORT ON BOS

Name of the Department: **CIVIL ENGINEERING**

The Board of Studies meeting (13th BOS) of Regulation 2019 & 2022 for the academic year 2024 - 2025 was conducted on 27.05.2024 at 11.30 p.m. at hybrid.

This report consolidates the findings of the panel and the suggestions and area of improvements possible in the future put forth by the panel.

(i) Syllabus Revision:

S. No	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1.	22CE5251 Construction Project Management	Suggestion passed on the standing committee	100%
2.	22CE5001 Design and Drawing of RC Structures	Suggestion passed on the standing committee	50%
3.	22CE5072 Survey Camp	Suggestion passed on the standing committee	50%
4.	22CE5301 Repair and Rehabilitation of Structures	Suggestion passed on the standing committee	30%
5.	22CE5307 Geo- Environ mental Engineering	Suggestion passed on the standing committee	100%
6.	22CE5310 Total Station and GPS Surveying	Suggestion passed on the standing committee	100%
7.	22CE5316 Climate Change Adaptation and Mitigation	Suggestion passed on the standing committee	100%
8.	22CE5302 Advanced Structural Analysis	Suggestion passed on the standing committee	100%
9.	22CE5305 Construction Equipment and Machinery	Suggestion passed on the standing committee	100%
10.	22CE5311 Remote Sensing Concepts	Suggestion passed on the standing committee	100%
11.	22CE5314 Traffic Engineering and Management	Suggestion passed on the standing committee	40%

12.	22CE5317	Air and Nosie Pollution Engineering	Suggestion passed on the standing committee	30%
13.	22CE5306	Sustainable Construction and Lean Construction	Suggestion passed on the standing committee	100%
14.	22CE5309	Soil Dynamics and Machine Foundations	Suggestion passed on the standing committee	100%
15.	22CE5312	Satellite Image Processing	Suggestion passed on the standing committee	100%
16.	22CE5315	Urban Planning and Development	Suggestion passed on the standing committee	100%
17.	22CE5322	Water Resources Systems Engineering	Suggestion passed on the standing committee	100%
18.	22CE7301	Dynamics and Earthquake Resistant Structures	Suggestion passed on the standing committee	100%
19.	22CE7303	Energy Efficient Buildings	Suggestion passed on the standing committee	100%
20.	22CE7305	Pile Foundation	Suggestion passed on the standing committee	100%
21.	22CE7307	Airborne and Terrestrial laser Mapping	Suggestion passed on the standing committee	100%
22.	22CE7309	Pavement Engineering	Suggestion passed on the standing committee	100%
23.	22CE7311	Environmental Policy and Legislations	Suggestion passed on the standing committee	100%
24.	22CE7313	Urban Water Infrastructure	Suggestion passed on the standing committee	100%
25.	22CE7302	Wind and cyclone Effect on Structures	Suggestion passed on the standing committee	100%
26.	22CE7304	Green Buildings	Suggestion passed on the standing committee	100%
27.	22CE7306	Tunneling Engineering	Suggestion passed on the standing committee	100%
28.	22CE7308	Hydrographic Surveying	Suggestion passed on the standing committee	100%
29.	22CE7310	Transportation planning Process	Suggestion passed on the standing committee	100%
30.	22CE7312	Environment, Health and Safety	Suggestion passed on the standing committee	100%
31.	22CE7314	Water Quality and Management	Suggestion passed on the standing committee	100%
32.	21CE7204	Advanced Steel Structures	Suggestion passed on the standing committee	100%
33.	21CE7205	Solid and Hazardous Waste Management	Suggestion passed on the standing committee	100%

34.	21CE7206	Advanced Foundation Engineering	Suggestion passed on the standing committee	100%
35.	21CE7207	Geographical Information System	Suggestion passed on the standing committee	100%
36.	21CE7208	Design of Steel-Concrete Composite Structures	Suggestion passed on the standing committee	100%
37.	21CE7209	Environmental Impact and Risk Assessment	Suggestion passed on the standing committee	100%
38.	21CE7210	Foundation in Expansive Soils	Suggestion passed on the standing committee	100%
39.	21CE7211	Modern Surveying	Suggestion passed on the standing committee	100%
40.	21CE7601	Structural Analysis and Design	Suggestion passed on the standing committee	100%
41.	21CE7602	Water and Wastewater Treatment	Suggestion passed on the standing committee	100%
42.	21CE7603	Materials for Energy Sustainability	Suggestion passed on the standing committee	100%
43.	21CE7604	Green Technology	Suggestion passed on the standing committee	100%

- Chairman conveyed that the suggestions given by the Board of Studies members shall be incorporated with the approval of standing committee.

Signature of the Chairman (BoS)

Chairman - BoS
CIVIL - HiCET

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DEPARTMENT OF CIVIL ENGINEERING

DETAILS OF CHANGES CARRIED OUT IN CURRICULUM & SYLLABUS

CBCS PATTERN

UNDERGRADUATE PROGRAMMES

(Thirteen Board of studies Meeting)

No. of Courses revised in the Thirteen Board of studies Meeting	
Total No. of Courses	69
No. of Courses revised	5
Percentage of Courses revised	7.2%

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Academic Year: 2024-2025 ODD

13th Board of Studies Meeting Minutes

The meeting of 13th Board of Studies in the Department of Mechanical Engineering Undergraduate programme for the academic year 2024-25 was conducted on 20.05.2024 at 11.00 a.m in Hybrid Mode.

The following members were present:

S.No.	Name of the Expert	Nomination	Remarks
1	**Dr. K. SIVA** Professor and Head, Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Chairman	Present
2	**Dr. P.R. THYLA** Professor & Head, Department of Mechanical Engineering, PSG College of Technology, Coimbatore.	Anna University Nominee	Present
3	**Dr. L. GODSON ASIRVATHAM,** Professor and Head, Department of Mechanical Engineering, Karunya institute of technology and science, Coimbatore	Academic Expert	Present
4	**Dr. P. ASHOKAVARTHANAN,** Professor & Head, Department of Mechanical Engineering, Sri Krishna College of engineering and Technology, Coimbatore.	Academic Expert	Absent
5	**ANANDAKRISHNAN N** Managing Director, F-MAX SYSTEMS INDIA PVT. LTD. Coimbatore.	Industry Expert	Absent
6	**Dr. M.S. BOBJI,** Professor, Department of Mechanical Engineering, Indian Institute of Science, Bangalore.	Members from QS Rated Institution's	Absent
7	**Dr. S.R. RAJABALAYANAN** Professor and Head, Mechanical Engineering Department, Hindusthan Institute of Technology	Members from Sister Concern – HiTECH	Present
8	**Dr. M. MOHANRAJ** Professor, Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
9	**Dr. C. NITHYANANDAM** Associate Professor, Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
10	**Dr. J. MANIKANDAN** Associate Professor, Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present

11	**Dr. V. SENTHILMURUGAN** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
12	**Dr. Y. RASMATHEW** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
13	**Mr. A.F. BAGGIO,** Managing Director, Redeem Tissues, 195/2D, Sundarapuram, LIC Colony, Coimbatore	Alumnus	Absent
14	**Mr. C. Milan Harsish (III)** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	21-25 Batch Student	Present
15	**Mr. B. Sakthivel (II)** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	22-26 Batch Student	Present
16	**Mrs N. Selvi** Ward Councillor, Othakalmandapam, Coimbatore	Parent Member	Absent

The chairman of the BOS, welcomed all the dignitaries for the meeting. He introduced the BoS members. Also, he gave an outline of the institution and department along with the salient features of the Curriculum and Syllabi.

During the presentation he emphasized the importance of employability enhancement courses, life skill, soft skill, design thinking and IPR related subjects.

Further, the following points are discussed

- The Chairman –BoS (Dr. K. Siva) welcomed all the members for the 13th Board of Studies meeting.
- The Chaiman, BoS elaborated the Regulations 2022 Curriculum scheme to the members Also, he explained the new inclusion categories in the curriculum like Professional elective verticals, Minor Degree , Honours degree , SEC, AEC etc., with internal mark weightage system.

Recommendations by BoS members (Subject Related)

The following recommendations are put forth by the BoS Members,

Dr. P.R. THYLA (University Nominee)

- First semester subject 'Entrepreneurship & Innovation' credit allottment is to be checked with as per Anna University norms.
- 'தமிழரும்தொழில்நுட்பமும்' subject should be given one credit as followed by Anna University.
- Regulation 2022 'Project Work/Granted Patent' subject title is to be changed as 'Project work'.

Dr. P. ASHOKAVARTHANAN (Academic Expert)

- Regulation 2022 'Modern Mobility Systems' vertical is to be checked and modified if required.
- In 'Computational Engineering' vertical 'CAD and CAE' subject is to be moved to any other suitable verticals.
- 'Dynamics of machinery' theory with lab component subject can be given 4 credits.

Dr. L. GODSON ASIRVATHAM (Academic Expert)

- 'Renewable energy' vertical may be changed as 'Energy Technology'
- 'Machine drawing' subject reference to be checked and updated with latest references.
- 'Internet of Things for Mechanical Engineers' subject application with reference to mechanical engineering is to be included

General Suggestions

- The course objectives and outcomes are to be formulated more specifically using blooms taxonomy.
- Text books and reference books for all the courses are to be updated with latest editions.
- Credits are to be distributed according to the weightage of the subject.
- Verticals of elective and Minor degree courses are to be consolidated according to the specialisation.
- In theory with lab component subjects, experiment topics can be listed as per syllabus order.

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

- The syllabi of V semester of the UG Programmes for the students admitted during the academic year 2022 - 2023 and onwards was passed and permitted to move on Academic Council.

Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with thanks to the Chair at 01.30 P.M.

Chairman / Chairperson (BoS)

Chairman - BoS
MECH - HiCET

Enclosure:

1. Previous BoS meeting Minutes
2. Action Taken Report
3. Curriculum and Syllabi (R2019)
4. Curriculum and Syllabi (R2022)

Copy:

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

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Othakalmandabam Post, Coimbatore

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Department of Mechanical Engineering

Date: 21.05.2024

Action Taken Report - UG

The meeting of the 13th Board of Studies for the Department of Mechanical Engineering Undergraduate Programme for the academic year 2024-25 was conducted on 20.05.204 at 11.00 a.m in Physical Mode

Syllabus related Recommendations:

S. No	Course Code & Course Name	Suggestions given by BoS experts	Action taken
1.	22ME5251 Dynamics of Machines	credit allottment is to be checked with as per Anna University norms.	Suggestion passed and to be incorporated in the forthcoming Even semester of Academic year 2023-24.
2.	22MC2094 தமிழரும் தொழில்நுட்பமும்	should be given one credit as followed by Anna University.	
3	22ME8901 Project Work	Project Work/Granted Patent' subject title is to be changed as 'Project work'.	
4	22ME6310 Advanced Statistics and Data Analytics	CAD and CAE' subject is to be chnage	
5	ENERGY TECHNOLOGY BE – Hons Vertical	'Renewable energy' vertical may be changed as 'Energy Technology'	
6	22ME5302 Internet of Things for Mechanical Engineers	application with reference to mechanical engineering is to be included	

Chairman BOS/Mech

Chairman - BoS
MECH - HiCET

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Academic Year: 2024-2025 ODD

13th Board of Studies Meeting Minutes

The meeting of 13th Board of Studies in the ME CAD/CAM Postgraduate programme for the academic year 2024-25 was conducted on 20.05.2024 at 11.00 a.m in hybrid Mode.

The following members were present:

S.No.	Name of the Expert	Nomination	Remarks
1	**Dr. K. SIVA** Professor and Head, Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Chairman	Present
2	**Dr. P.R. THYLA** Professor & Head, Department of Mechanical Engineering, PSG College of Technology, Coimbatore.	Anna University Nominee	Present
3	**Dr. L. GODSON ASIRVATHAM,** Professor and Head, Department of Mechanical Engineering, Karunya institute of technology and science, Coimbatore	Academic Expert	Present
4	**Dr. P. ASHOKAVARTHANAN,** Professor & Head, Department of Mechanical Engineering, Sri Krishna College of engineering and Technology, Coimbatore.	Academic Expert	Absent
5	**ANANDAKRISHNAN N** Managing Director, F-MAX SYSTEMS INDIA PVT. LTD. Coimbatore.	Industry Expert	Absent
6	**Dr. M.S. BOBJI,** Professor, Department of Mechanical Engineering, Indian Institute of Science, Bangalore.	Members from QS Rated Institution's	Absent
7	**Dr. S.R. RAJABALAYANAN** Professor and Head Mechanical Engineering Department, Hindusthan Institute of Technology	Members from Sister Concern – HiTECH	Present
8	**Dr. M. MOHANRAJ** Professor, Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
9	**Dr. C. NITHYANANDAM** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present

10	**Dr. J.MANIKANDAN** Associate Professor, Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
11	**Dr. V. SENTHILMURUGAN** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
12	**Dr. Y. RASMATHEW** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
13	**Mr. A.F. BAGGIO,** Managing Director, Redeem Tissues, 195/2D, Sundarapuram, LIC Colony, Coimbatore	Alumnus	Absent
14	**Mr. C. Milan Harsish (III)** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	21-25 Batch Student	Present
15	**Mr. B. Sakthivel (II)** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	22-26 Batch Student	Present
16	**Mrs N. Selvi** Ward Councillor, Othakalmandapam, Coimbatore	Parent Member	Absent

The chairman of the BOS, welcomed all the dignitaries for the meeting. He introduced the BoS members. Also, he gave an outline of the institution and department along with the salient features of the Curriculum and Syllabi.

During the presentation he emphasized the importance of employability enhancement courses, life skill, soft skill, design thinking and IPR related subjects.

Further, the following points are discussed

- The Chairman –BoS (Dr.K.Siva) welcomed all the members for the 13th Board of Studies meeting.
- The Chaiman, BoS elaborated the Regulations 2022 Curriculum scheme to the members Also, he explained the new inclusion categories in the curriculum like Professional elective and with internal mark weightage system.

Recommendations by BoS members (Subject Related)

The following recommendations put forth by the BoS Members,

Dr. P.R. THYLA (University Nominee)

- Anna university nominee appreciated the Curriculum scheme of 2022 regulations and accepted.

Dr. P. ASHOKAVARTHANAN (Academic Expert)

- Suggested to add Design Calculation topics in Computer Aided Design subject.

The Chairman, BoS and all members accepted to incorporate the above said modification.

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

- The syllabi of I semester of the PG Programmes for the students admitted during the academic year 2024 - 2025 and onwards was passed and permitted to move on Academic Council.

Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with thanks to the Chair at 01.30 P.M.

Chairman / Chairperson (BoS)

Chairman - BoS
MECH - HiCE

Enclose:

1. Previous BoS meeting Minutes
2. Action Taken Report
3. Curriculum and Syllabi (R2019)
4. Curriculum and Syllabi (R2022)

Copy:

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

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Department of Mechanical Engineering

TÜVRheinland CERTIFIED

Date: 21.05.2024

Action Taken Report - PG

The meeting of the 13th Board of Studies for the CAD/CAM Postgraduate Programme for the academic year 2024-25 was conducted on 20.05.2024 at 11.00 a.m in Physical Mode

Syllabus related Recommendations:

S. No	Course Code & Course Name	Suggestions given by BoS experts	Action taken
1.	24CC1201 Computer Aided Design	Suggested to add Design Calculation topic.	Suggestion passed and to be incorporated in the forthcoming Even semester of Academic year 2023-24.
2.	22CC1203 Computer Aided Manufacturing	Suggested to add Optimization topic.	

Chairman BOS/Mech

Chairman - BoS
MECH - HiCET

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DEPARTMENT OF MECHATRONICS ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Mechatronics Engineering**

Date: 21.05.2024

The 13th Board of Studies meeting of regulation R2022 for the academic year 2024-2025odd Semester was conducted on 20.05.2024 at 10.00a.m.in library board room,Hindusthan College of Engineering and Technology.

The following members were present:

S.No.	Name of the Member	Position
1.	Dr. P.T.Saravanakumar Professor & Head, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Chairman
2.	Dr. Thyla, Professor, Department of Mechanical Engineering, PSG College of Technology, Coimbatore	University Nominee
3.	Dr.A.Murugarajan Head of the Department Department of Robotics and Automation Sri Ramakrishna Engineering College, Coimbatore	Academic Expert
4.	Dr.A.P.Karthikeyan Professor Department of Automobile Engineering, PSG College of Technology, Coimbatore.	Academic Expert
5.	Mr.Gomathinayagam Deputy General manager, Design & Analysis Product Development Centre,, Larsen & Toubro, Coimbatore - 641044	Industry Expert
6.	Dr.A.ArockiaRajan Professor Solid Mechanics Division, Department of Applied Mechanics, Indian Institute of Technology Madras,Chennai – 600 036.	Member from QS Rated Institution
7.	Dr.B.Paulchamy Professor and Head, Department of Electronics and communication Engineering Hindusthan College of Technology, Coimbatore	Member from Sister Concern (HiTech)
8.	Dr.T.Vandarkuzhali Professor, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Internal Member

9.	Dr.R.Madhusudhanan Associate Professor, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Internal Member
10.	Dr.Pradeep Johnson Associate Professor, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Internal Member
11.	Mr.S.PremAnand Assistant Professor, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Internal Member
12.	Mr.SangeethkumarAthiannan Assistant Vice President - Automotive Benchmarking Operation Caresoft Global Coimbatore	Alumni Member
13.	Ms.L.Dinosha Third year Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Student Member

- The Chairman welcomed University nominee, Subject experts, special invitees and all the internal members for the Board of Studies meeting.
- The chairperson briefly explained the Salient features of Regulation 2019& 2022 to all the BoS members
- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell (CDC) &Department Advisory Committee (DAC).
- The feedback received on curriculum by the stakeholders was presented.
- As per the direction of Curriculum Development Cell (CDC), B.Tech honor courses of single vertical can be reframed to three verticals for the R2022 & R2019 (Batch 2022-2026) & (Batch 2021-2025).and also we introduce for minor degrees for R2019 (Batch 2022-2026)& (Batch 2021-2025).
- Curriculum & Syllabus for the courses to be passed in the 2024-2025 ODDsemester.
- Syllabus offered for the Minor degree and Honour degree (5th Semester only) by the individual U.G Programme under Regulation 2022 for the batch admitted during 2022-23.
- Employability Enhancement Courses can be update in R2022 curriculum
- Vision & Mission of the department are discussing to reframe according to the PEO.
- Skill Enhancement courses are opted as a value-added course in upcoming Odd/Even Semester

- Followed by, Chairmanpresented the suggestions given by the BoS experts and the action taken report during the Previous BoS meeting, which was held during 28.11.2023, was approved.

The following are the recommendations put forth by the BoS members,

1. For R2022"22MT3251 - Manufacturing Process", Dr. Thyla suggested replacing the case studies and insert as Case Study 2: Manufacturing of Aerospace components. Case Study 3: Manufacturing of Robotic Assembly.
2. For R2022 "22MT3072 – Home Automation" Mr.Gomathinayagam suggested to incorporate mini project instead of the course home automation insert Mini Project.
3. For R2022 "22MT5201 - Machine Design & 22MT5001 Computer Aided Analysis Laboratory" Dr.A.Murugarajan suggested to replace and introduce the course CNC Technology and CNC laboratory.
4. For R2022 "22MT5251 – Embedded System" Dr.A.P.Karthikeyan suggested to convert the theory paper into theory cum practical with few lab components like Study of ARM Cortex M0,M1, M3,M4, LCD & LED Stepper Motor ,UART interfacing with ARM Cortex-M3.
5. For R2022 "22MT5202 – Control System"Dr.A.Murugarajan suggested to segregate the unit 3 Stability analysis has into 2 units and remove the unit 4 : state space analysis and replace Unit 3 as"Frequency response analysis" and Unit 4 as "Concept of stability analysis".

General Recommendations:

1. Chairman conveyed that; the Suggestions given by the Board of Studies members to be incorporated in R2022.
2. Course objectives and Course Outcomes should be follow the bloom's Taxonomy.
3. Chairman conveyed about the Consideration of MOOC courses like NPTEL/Coursera / Edxetc as Additional credit courses so that students can get wide exposure on knowledge sharing.

The following resolutions were made in the Board of Studies meeting,

The syllabi of V semester of the UG Programmes 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.

Chairman conveyed that, suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with thanks to the chair at 12.30 pm.

Chairman

(Board of studies)

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 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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DEPARTMENT OF MECHATRONICS ENGINEERING

13th BOS- ATTENDANCE SHEET

Date: 20.05.2024

S.No.	Name of the Member	Position	Signature
1.	Dr. P.T.Saravanakumar Professor & Head, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Chairman	
2.	Dr. Thyla, Professor, Department of Mechanical Engineering, PSG College of Technology, Coimbatore	University Nominee	
3.	Dr.A.Murugarajan Head of the Department Department of Robotics and Automation Sri Ramakrishna Engineering College, Coimbatore	Academic Expert	
4.	Dr.A.P.Karthikeyan Professor Department of Robotics and Automation Engineering, PSG College of Technology, Coimbatore.	Academic Expert	ONLINE
5.	Mr.Gomathinayagam Arumugam DGM - Design & Analysis Larsen & Toubro - PDC, Coimbatore	Industry Expert	
6.	Dr.A.Arockia Rajan Professor Solid Mechanics Division, Department of Applied Mechanics, Indian Institute of Technology Madras,Chennai – 600 036.	Member from QS Rated Institution	ONLINE
7.	Dr.B.Paulchamy Professor and Head, Department of Electronics and communication Engineering Hindusthan College of Technology, Coimbatore	Member from Sister Concern (HiTech)	ABSENT
8.	Mr.Sangeethkumar Athiannan Assistant Vice President - Automotive Benchmarking Operation Caresoft Global Coimbatore	Alumni Member	
9.	Mrs.D.Santhi Managing Director Surya Stalls, Kallakuruchi	Parent Member	

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Date: 21.05.2024

ACTION TAKEN REPORT ON BoS

Name of the Department: Mechatronics Engineering

The meeting of Thirteenthboard of studies of Regulation 2019& Regulation 2022 for the Department of Mechatronics Engineering, Under GraduateProgramme was conducted on 20.05.2024 at 10.00 am, in Library Board room, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision for the Regulations 2019

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1.	NIL		

Overall Percentage of revision made in the BoS: NIL

(II) Syllabus Revision for the Regulations 2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	22MT3251 - MANUFACTURING PROCESS	INSERTION	10%

Overall Percentage of revision made in the BoS: 10%

(III) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1	2022	22MT3901 – Mini Project	2
2	2022	22MT5201 - CNC Technology	3
3	2022	22MT5202 - Control System	4
4	2022	22MT5251 - Embedded System	3
5	2022	22MT5001 - CNC laboratory	3

6	2022	22MT5301 - Database Management System	3
7	2022	22MT5302 - Data Science	3
8	2022	22MT5303 - Data Visualization	3
9	2022	22MT5304 - Product Design and Development	3
10	2022	22MT5305 - Advance Manufacturing	3
11	2022	22MT5306 - Material Handling System	3
12	2022	22MT5307 - Principles of Management	3
13	2022	22MT5308 - Disaster Management	3
14	2022	22MT5309 - Supply Chain Management	3
15	2022	22MT5310 - Non-Traditional Machining Techniques	3
16	2022	22MT5311- Computer Integrated Manufacturing	3
17	2022	22MT5312 - Flexible Manufacturing System	3
18	2022	22MT5313 - Automobile System	3
19	2022	22MT5314 - Automotive Electronics	3
20	2022	22MT5315 - Electrical Vehicles	3
21	2022	22MT5316 - Mobile Robotics	3
22	2022	22MT5317 - Soft Robotics	3
23	2022	22MT5318 - Micro Robotics	3
24	2019	21MT7601 - PLC and SCADA	3
25	2019	21MT7602 - Industrial Robotics	3
26	2019	21MT7203 - Advanced PLC	3
27	2019	22MT7204 - Distributed Control System	3
28	2019	21MT7205 - Radiological Equipment	3
29	2019	21MT7206 - Biomaterials	3
30	2019	21MT7207 - Collaborative Robotics	3
31	2019	21MT7208 - Robot Operating Systems	3

(IV). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	Dr. Thyla suggested to replace the case studies in specific as Case Study 2: Manufacturing of Aerospace components. Case Study 3: Manufacturing of Robotic Assembly.	Considered

2.	Dr.A.Murugarajan suggested to segregate the unit 3 Stability analysis has into 2 units and remove the unit 4 : state space analysis	Considered
3.	Dr.A.P.Karthikeyan suggested to convert the theory paper into theory cum practical with few lab components	Considered

Chairman
(Board of Studies)

Dean Academics

Department of Mechatronics Engineering

Syllabus Revision carried out in 2024-2025 ODD Semester

2022 Regulation – 2022 Batch III & V semester- Syllabus revision

S. NO	YEAR	SEM	COURSE CODE& NAME	SUGGESTION BY EXPERTS	EXISTING CONTENT	REVISED CONTENT	TYPE OF REVISION	% OF REVISION
1	II	III	22MT3251 - MANUFACTURING PROCESS	Dr. Thyla suggested to replace the case studies in specific	Erection of Boilers and manufacturing of sports equipment's and products	Case Study 2: Manufacturing of Aerospace components. Case Study 3: Manufacturing of Robotic Assembly.	INSERTION	10%
							Total Percentage Changes	**10%**

2019 Regulation – 2021 Batch VII semester- Syllabus revision

S. NO	YEAR	SEM	COURSE CODE& NAME	SUGGESTION BY EXPERTS	EXISTING CONTENT	REVISED CONTENT	TYPE OF REVISION	% OF REVISION
NIL								
							Total Percentage Changes	**Nil**

Syllabus Revision carried out in 2024-2025 ODD Semester

2022 Regulation (2022 batch) - IV semester = 10 %

2019 Regulation (2021 batch) - VI semester = NIL

Over all Percentage 10% of Change Effected in the syllabus

Chairman, Board of studies

Dean Academics

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DEPARTMENT OF AGRICULTURAL ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Agricultural Engineering** **Date:** 17.05.2024

The Eleventh Board of Studies meeting of regulation 2019 Regulation with amendments and 2022 Regulation (for the students to be admitted from 2021-2022, 2022-2023, 2023-2024 and 2024-2025 onwards) for the academic year 2024-2025 ODD Semester was conducted on 16.05.2024 at 10.00 A.M in the Board Room – Corporate relation cell (Hybrid mode), Hindusthan College of Engineering and Technology, Coimabtore.

Google Meet link: https://meet.google.com/oce-xwdq-hnj

The following members were present:

S.No.	Name of the Member	Position
1	Dr Sridhar N Associate Professor & Head, Department of Agricultural Engineering, HiCET.	Chairman
2	Dr. Palanikumar, Professor, Department of Civil Engineering, PSG College of Technology, Coimbatore.	University Nominee
3	Dr.T.Arumuganatha, Principal Scientist (Farm Machinery and Power), ICAR-Sugarcane Breeding Institute, Coimbatore.	Academic Expert
4	Dr.A.P.Mohan Kumar Assistant Professor Dept.of Farm Machinery and Power, AEC & RI, TamilNadu Agricultural University, Coimbatore.	Academic Expert
5	Dr.Pankaj B Pathare Associate Professor, Dept.of Soil and Water & Agricultural Engineering College of Agricultural & Maraine Sciences, Sultan Qaboos University, Oman	Academic Expert
6	Dr.Lakshmanan Chandran , Director (Sales and Marketing), Greenzy Agro Pvt.Ltd, Coimbatore.	Industry Expert
7	Er.Guhan E V, Graduate Agri Trainee	Alumni

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	Mahindra & Mahindra Pvt.Ltd Mumbai.	
8	Mr.Seerangurayar T Assistant Professor Department of Agricultural Engineering, HiCET.	Member
9	Dr. Dinesh Kumar S Assistant Professor Department of Agricultural Engineering, HiCET.	Member
10	Mrs.Kalaiselvi M Assistant Professor Department of Agricultural Engineering, HiCET.	Member
11	Ms.Sowmiya V Assistant Professor Department of Agricultural Engineering, HiCET.	Member
12	Dr.Dhayalan V Assistant Professor Department of Agricultural Engineering, HiCET.	Member
13	Mrs.K.Ramya Assistant Professor Department of Agricultural Engineering, HiCET.	Member
14	Dr.Rajaravi C Associate Professor Department of Agricultural Engineering, HiCET.	Member
15	Mr. Manogaran P	Parents
16	Siddhartha B D Department of Agricultural Engineering, HiCET.	Parents
17	Jeba Jeni J Department of Agricultural Engineering, HiCET.	Student Member
18	Sibin Department of Agricultural Engineering, HiCET.	Student Member

The university Nominee Dr. Palanikumar and all the other external members attended the meeting in physical mode whereas Dr.Pankaj B Pathare and Er.Guhan E V via online (Google Meet)

- The Chairman-BoS welcomed the University nominee, Subject Experts, special invitees and all the internal members for the Eleventh Board of Studies meeting.
- Chairman presented the suggestions given by the experts and the action taken report of the previous BoS meeting held on 13.12.2023. Members of the BOS approved the same.
- The feedback received on curriculum by the stakeholders was presented by the Chairman-BoS

HINDUSTHAN COLLEGE OF ENGG & TECH. - CBE - 32.

- Chairman also gave an outline of the changes to be made in the curriculum given by the Department Advisory Committee (DAC) and emphasized the importance of curriculum to be in line with the industry needs.
- Chairman explained about the integration of curriculum with Indian Institute of Technology, Kharagpur (Department of Agricultural, Food, and Artificial Intelligence in Agriculture) under regulation 2022 for skill development and its importance to BoS members.
- Chairman indicated that the syllabus of B.Tech (Hons) has been added in the current syllabus related to IIT, Kharagpur for skill development and explained the value added courses.
- As recommended by DAC members, syllabus revision/updation under regulation 2019 Regulation with amendments and 2022 Regulation Odd semester in Theory, Theory with lab components and laboratory experiments for Agricultural Engineers were discussed in the meeting.
- The Chairman discussed the verticals of B.Tech (Hons) of syllabus under regulation 2022 of 2021 batch and 2022 batch students.

The following are the recommendations put forth by the BoS members,

For the Regulations 2022 Curriculum

1. Suggested to have modifications in I and II semester curriculum to have core subjects.

2. Academic Expert Dr.T.Arumuganatha recommended 30% changes in **22AG1251 - Principles and Practices of crop production** and suggested to delete the topics "field crop production and horticulture" from Unit I, "Systems of crop production" from Unit II, "crop water requirement" from Unit III and add the topic "wet and dry nursery" in Unit II. Modification need to made in Unit IV and V syllabus content.

3. Academic Expert Dr.Pankaj B Pathare recommended 30% changes in **22AG3202R - Fluid Mechanics and Pumps** and suggested to delete the topics "Mass density – specific weight, specific volume – specific gravity - equation of state – perfect gas - Viscosity – vapour pressure – compressibility and elasticity - surface tension – capillarity– simple, differential and micro manometers – Mechanical gauges – calibration" from Unit I, "sharp edged orifice discharging free – submerged orifice –

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mouth piece - Flow through orifice under variable head – time of emptying a tank with and without inflow gradual and sudden closure of valves " from Unit III.

4. University Nominee Dr. Palanikumar recommended 6% changes in **22AG3252R - Surveying and Levelling** and suggested to delete the experiments Plane table Surveying - Radiation Method, Plane table Surveying – Intersection Method

5. Suggested to include advances in agriculture and employability course in the curriculum.

6. Suggested to allow the students for NPTEL and other online MOOC courses integrated with agricultural courses.

For the Regulations 2019 with amendments curriculum and Syllabus

1. Academic Expert Dr.T.Arumuganatha recommended 21% changes in **21AG7301- Postharvest Technology** and suggested to add the topics "Moisture Content expressions" in Unit I and to delete the topics "moisture meters", to Add the topics "methods of drying" after deleting moisture content expression and to add "Performance of dryer" in Unit II, to Add the topics "screening-types of screens – screen openings" and "cyclone separator" in Unit III.

2. Academic Expert Dr.A.P.Mohan Kumar recommended 15% changes in **21AG7201- Agriculture Extension** and suggested to add the topic "Transfer of technology -meaning, importance and major components – communication definition, meaning, scope and importance-functions and types- communication process - elements and models" in Unit IV.

3. Industrial Expert Dr.Lakshmanan Chandran recommended 15% changes in **21AG7251- Precision Farming and Protected Cultivation** and suggested to delete the topic "Conceptual features of protected cultivation in horticultural crops " in Unit I, delete the topic "cut foliages and fillers" in Unit III and to delete the topic "Remote sensing" in Unit IV

4. Er.Guhan E V Suggested to change 21AG7255 - Design And Installation of Agrivoltaics System as theory with lab components

5. Dr. Sridhar N suggested the course 21AG7252 - Energy Conservation and Management in Farm Power and Machinery as theory with lab components subject.

6. Ms.Sowmiya V suggested the course 21AG7253 - Modelling Soil [illegible]sion Processes as theory with lab components subject.

HINDUSTHAN COLLEGE OF ENGG & TECH - CBE - 32

7. Mr.Seerangurayar suggested the course 21AG7254 - Food Process Modelling as theory with lab components subject.

8. Dr.Dinesh Kumar S suggested the course 21AG7602 - Non-Conventional Energy Sources as Minor course.

9. Mrs.K.Ramya suggested the course 21AG7601 - Fundamentals of Food Process Engineering as Minor course.

10. 21VAAG05 – Design of farm and farm structures, 22AGVA04 - Food Safety and Quality Management and 22AGVA03 - Soil testing and water analysis are recommended value added courses by the University Nominee Dr. Palanikumar.

General Recommendations:

1. University Nominee suggested to create awareness among students related to MOOC Courses and credit transfer.
2. Siddhartha B D and Jeba Jeni J Suggested to invite the industrial expert to conduct the hands on training to the students.

The following resolutions were made in the Board of Studies meeting,

For Regulations 2019 with amendments:

- The curriculum and syllabus of 2019 regulation with amendments along with revision and updation for the VII semester Courses of B.E Agriculture Engineering program for the students admitted during the academic year 2021-2022 and onwards was suggested to move on to Academic Council.

For Regulation 2022:

- The curriculum and syllabus for Semester – I under regulation 2022 passed by the Agricultural Engineering board are permitted to move on Academic Council by the members of Agricultural Engineering with modification
- The curriculum and syllabus for Semester – III under regulation 2022 passed by the Agricultural Engineering board are permitted to move on Academic Council by the members of Agricultural Engineering with modification.
- The curriculum and syllabus for Semester – V under regulation 2022 passed by the Agriculture Engineering board are permitted to move on Academic Council by the members of Agricultural Engineering as newly introduced courses.

HINDUSTHAN COLLEGE OF ENGG & TECH. CBE. 32.

- Chairman has confirmed that, the suggestions given by the subject experts will be considered and the syllabus will be updated based on the suggestions given in this BoS meeting.

  The meeting ended with thanks to the Chair at 1.00 PM.

Chairman

(Board of studies)

Chairman - BoS
AGRI - HiCET

Enclose:

1. Previous BoS Minutes- ATR
2. Regulation 2019 and 2022 with amendments
3. Curriculum and Syllabi

Copy:

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

HINDUSTHAN COLLEGE OF ENGG & TECH - CBE - 32

Hindusthan College of Engineering and Technology

Approved by AICTE, New Delhi, Accredited with 'A++' Grade by NAAC
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore – 641 032

Date: 20.05.2024

ACTION TAKEN REPORT ON 11th BOS

Name of the Department: **Agricultural Engineering**

The meeting of Eleventh Board of studies of regulation 2019 Regulation with amendments and 2022 Regulation (for the students to be admitted from 2021-2022, 2022-2023, 2023-2024 and 2024-2025 onwards) for the academic year 2024-2025 ODD Semester was conducted on 16.05.2024 at 10.00 A.M in the Board Room – Corporate relation cell (Hybrid mode), Hindusthan College of Engineering and Technology, Coimabtore.

(I) Syllabus Revision for the Regulations 2019 with Amendments (2021 Batch) , Regulation 2022 (2023 Batch and 2024 Batch)

S.No	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1	21AG7201 - Agriculture Extension	Revision included and Modified	15%
2	21AG7301 - Post harvest Technology	Revision included and Modified	21%
3	21AG7251 - Precision Farming and Protected Cultivation	Revision included and Modified	15%
4	22AG3202R - Fluid Mechanics and Pumps	Revision included and Modified	30%
5	22AG3252R - Surveying and Levelling	Revision included and Modified	6%
6	22AG1251 - Principles and Practices of Crop Production	Revision included and Modified	30%

Syllabus Revision carried out in 2024-2025 ODD Semester

2022 Regulation (2023 Batch) - I semester = 3.2 %
2022 Regulation (2022 Batch) - III semester = 5.3 %
2019 Regulation with amendments (2021 Batch) - VII semester = 7.1 %
Overall Syllabus Revision carried out in 2024-2025 ODD Semester = 15.6 %

(II) New Course Introduced:

S.No	Subject Code	Name of the Subject
1	22AG5202	Tractors and Engine Systems
2	22AG5301	Farm Power & Machinery Management
3	22AG5302	Tractor Systems and Controls
4	22AG5303	Tractor Design and Testing
5	22AG5304	Watershed planning and Management
6	22AG5305	Groundwater and Well Engineering
7	22AG5306	Design of Micro- irrigation system
8	22AG5307	Biomass Management for Fodder & Energy
9	22AG5308	Renewable Energy Sources
10	22AG5309	Renewable Energy Technology
11	22AG5310	Heat and Mass Transfer for Agricultural Engineering
12	22AG5311	Food Process Equipment and Design
13	22AG5312	Food Plant Design and Management
14	22AG5313	Integrated Farming System
15	22AG5314	Agri Business Management
16	22AG5315	Sustainable Agriculture and Food Security
17	22AG5316	Automation in Agriculture
18	22AG5317	Electric and Hybrid Vehicle
19	22AG5318	Foundation of Robotics and Drone
20	22AG5251	Irrigation and Drainage Engineering
21	22AG5252	Food and Dairy Engineering
22	22AG5001	Renewable Energy Laboratory

(III) Additional Credit Courses Introduced:

S.No.	Course Code with Name
1.	21VAAG05 – Design of farm and farm structures.
2.	22AGVA04 - Food Safety and Quality Management
3.	22AGVA03 - Soil testing and water analysis

(IV) B. Tech (HONS) and Minor Degree Agricultural Engineering curriculum under Regulation 2022 (2022 Batch)

S.No	Course Code	Course Title	Credit
		B.Tech (Hons)	
	22AG5202	Off-Road Vehicle Engineering	3
	22AG5203	Open Channel Flow	3
	22AG5204	Industrial Processing of Foods and	3



V4	22AG5205	Solar radiation and measurements	3
V5	22AG5206	Big Data Processing	3
B.Tech (Minor)			
1.	22AG5601	Agriculture for Engineers	3

B. Tech (HONS) and Minor Degree Agricultural Engineering curriculum under Regulation 2022 (2021 Batch)

S.No	Course Code	Course Title	Credit
B.Tech (Hons)			
V1	21AG7203	Tractor Systems Design -II	3
	21AG7252	Energy Conservation and Management in Farm Power and Machinery	3
V2	21AG7204	Water Systems Simulation And Modelling	3
	21AG7253	Modelling Soil Erosion Processes	3
V3	21AG7205	Robotics in Food Processing and Handling	3
	21AG7254	Food Process Modelling	3
V4	21AG7206	Analysis of Agrivoltaics system for Energy food and water production	3
	21AG7255	Design and installation of Agrivoltaics System	3
V5	21AG7207	Graph Machine Learning: Foundations and Applications	3
	21AG7256	AI Applications in Agriculture	3
B.Tech (Minor)			
1.	21AG7601	Fundamentals of Food Process Engineering	3
2.	21AG7602	Non-Conventional Energy Sources	3

(V). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1	Suggested to create awareness among students related to MOOC Courses and credit transfer.	Considered
2	Recommended to arrange more internship opportunities for the students	Considered

Chairman
(Board of Studies)

HINDUSTHAN ACADEMIC COUNCIL Chairman

Dean Academics

Date: 13.05.2024

DEPARTMENT OF FOOD TECHNOLOGY

MINUTES OF THE BOARD OF STUDIES MEETING

Name of the Department: **Food Technology**

The **Eleventh Board of Studies meeting** of regulation 2019 and regulation 2022 (for the students to be admitted from 2022-23 onwards) for the academic year 2024-2025 Odd semester was conducted on 13.05.2024 at 10.00 a.m. in the conference room, Library, HICET, Coimbatore through physical Mode.

The following members are present and the attendance sheet is attached.

S. No.	Name of the Person	Designation and Department	Position
1.	Dr Jeevarathinam G	Associate Professor & Head, Department of Food Technology, HICET.	Chairman
2.	Dr Jeyanthi J	Professor and Head, Department of Industrial Biotechnology, Government College of Technology, Coimbatore.	University Nominee
3.	Dr Manikantan M R	Principal Scientist, Physiology, Biochemistry and Post Harvest Technology Division, ICAR –Central Plantation Crops Research Institute, Kasaragod-671 124, India.	Subject Expert
4.	Dr Thirupathi V	Professor, Centre for Post harvest Technology (PHTC), Tamil Nadu Agricultural University, Coimbatore -641003.	Subject Expert
5.	Dr Arun Viswanathan S K	Founder and CEO, Dnd foods, 7 Sathyamoorthy road, Ramnagar Coimbatore 641009.	Industry Expert
6.	Dr Kingsly Ambrose R P	Professor, Agricultural & Biological Engineering and University Faculty Scholar	Member from QS rated Institution

		West Layafette, Indiana, United States.	
7.	Dr Visvanathan R	Professor, Department of Food Technology, Hindusthan College of Engineering and Technology	Member
8.	Dr Deepa J	Professor, Department of Food Technology, Hindusthan College of Engineering and Technology	Member
9.	Dr Navarasam R	Associate Professor, Department of Food Technology, HICET.	Member
10.	Ms Nivetha T	Assistant Professor, Department of Food Technology, HICET.	Member
11.	Ms Swathi K	Assistant Professor, Department of Food Technology, Hindusthan College of Engineering and Technology	Member
12.	Ms Thahaaseen A	Assistant Professor, Department of Food Technology, Hindusthan College of Engineering and Technology	Member
13.	Ms Thivya S	Assistant Professor, Department of Food Technology, Hindusthan College of Engineering and Technology	Member
14.	Ms Nageswari G	Assistant Professor, Department of Food Technology, HICET.	Member
15.	Mr Dillwyn S	Assistant Professor, Department of Food Technology, HICET.	Member
16.	Mr Charan Adithya S	Assistant Professor, Department of Food Technology, HICET.	Member
17.	Ms Sasirekha P	QHSE, Zenith food solutions Pvt Ltd, Chennai.	Alumni Member
18.	Ms Kowsalya A	Student, Department of Food Technology, HICET	Student Member
19.	Mr Akkash S B	Student, Department of Food Technology, HICET	Student Member
20.	Ms Janani B	Student, Department of Food Technology, HICET	Student Member
21.	Mr Subramanian A	Parent	Parent Member

- The chairman of the BoS, **Dr Jeevarathinam G** welcomed the university nominee, Subject Experts, special invitees and all the internal members for the XI Board of Studies meeting. The chairman introduced the BoS members.
- The Chairman presented the Vision, and Mission of the department and institution. The Vision, Mission and PEOs of the department shall be disseminated to the entering students.
- The Chairman presented the suggestions given by the experts and the action taken report of the previous BoS meeting held on 06.05.2024. Members of BOS approved the same.
- The inputs from the stakeholders for the forthcoming curriculum syllabus were discussed.
- The consolidated feedback on curriculum by the stakeholders was presented by the Chairman-BoS.
- CO-PO mapping was discussed in PAC was presented for the upcoming semester courses (III, V & VII semesters).
- Assessment levels for the courses were set by PAC was discussed. The points discussed in PAC was approved.
- The chairman gave an outline of the suggestions given by the members of Department Advisory Committee (DAC) related to the curriculum and syllabus. The Board of Studies member's suggestion had been sought in this regard.
- The following points were discussed.

The following Discussion on Curriculum and Syllabus took place:

- The Chairman briefed the curriculum and Syllabus for the Regulation 2019 and 2022.
- The chairman presented the curriculum and syllabus for I, III and V Semester for the R 2022 and VII Semester for the R 2019

The following are the recommendations were put forth by the BoS members:

For the Regulations 2022 Curriculum

In almost all the courses, changes have been done as per the current needs and the stakeholder's feedback

1. Suggested to change the title of the unit from preservation to processing in the course "Principles of Food Processing" and Fundamentals of Food Processing" under the component professional core in Semester I and II of R2022 respectively.
2. Suggested to include portions related to antioxidants can be included in the course "Food chemistry". Also suggested to separate the Food

Chemistry theory with laboratory component into Food Chemistry and Food Chemistry Laboratory, in Semester III.

3. Suggested changes in the second, third and fourth unit of Food Microbiology in semester III.

4. Suggestions were provided to include Microbial Quality analysis in baked foods and quality standards-oriented topics in the course "Baking and Confectionery Technology"

5. Academic Expert suggested to shift Fundamentals of Heat and Mass Transfer to IV semester and Principles of Thermodynamics to III semester.

6. Suggested to merge Food Analysis and Quality Control theory and laboratory and move the theory with lab component semester V for the upcoming Batch (2023-2027) students

7. Industry Expert suggested to move Baking and Confectionery Technology to IVth Semester with separate Laboratory for the upcoming Batch (2023-2027) students.

General Recommendations

- The subject expert suggested to provide more NPTEL Courses and course link in the reference for the courses.
- Internships can be classified based into academic (NIFTEM/ Govt. Institutes – Instrumentation based internships) and industry-based internships.

The following resolutions were made in the Board of Studies meeting,

For Regulation 2019:

- The curriculum and syllabus of 2019 with update for the VIIth semester courses of B.Tech. Food Technology program for the students admitted during the academic year 2021-2022 and onwards was suggested to move on to Academic council.
- The syllabus for the value-added courses for the semester III and V.

- The syllabus for the Honors and Minor Degree Program to be offered in semester VII was suggested to move on to Academic council.

For Regulation 2022:

- The curriculum under regulation 2022 for the students admitted from the academic year 2023-2024 and 2022-2023 onwards for the B.Tech. Food Technology and the same were presented and discussed. It was suggested to move on to Academic council.
- The syllabus for the Semester – I under regulation 2022 passed by the Board of Science and Humanities, Information Technology, Mechanical Engineering are permitted to move on Academic Council by the members of Food Technology.
- The syllabus for the Honors and Minor Degree Program to be offered in semester V was suggested to move on to Academic council.
- The syllabus for the value-added course for the semester VII.
- Chairman has confirmed that, the suggestions given by the subject experts will be considered and the syllabus will be updated based on the suggestions given in this BoS meeting.

The meeting ended with thanks to the Chair at 11.30 p.m.

Chairman
(Board of Studies)

Chairman - BoS
FT - HiCET

Enclose:

1. Previous BoS meeting Minutes
2. Action Taken Report
3. Regulation 2019 with amendments
4. Curriculum and Syllabi

Copy:

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

Hindusthan College of Engineering and Technology

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Approved by AICTE, New Delhi & Accredited by NAAC with 'A' Grade)
Valley Campus, Pollachi Highways, Coimbatore, Tamilnadu.

Date: 13.05.2024

DEPARTMENT OF FOOD TECHNOLOGY
ATTEDANCE SHEET - BOARD OF STUDIES MEETING

S. No.	Name of the Person	Position	Signature
1	Dr Jeevarathinam G	Chairman	
2	Dr Jeyanthi J	University Nominee	
3	Dr Manikantan M R	Subject Expert	online
4	Dr Thirupathi V	Subject Expert	online
5	Dr Arun Viswanathan S K	Industry Expert	online
6	Dr Kingsly Ambrose R P	Member from QS rated Institution	online
7	Dr Visvanathan R	Member	
8	Dr Deepa J	Member	
9	Dr Navarasam R	Member	
10	Ms Nivetha T	Member	
11	Ms Swathi K	Member	
12	Ms Thahaaseen A	Member	
13	Ms Thivya S	Member	
14	Ms Nageswari G	Member	
15	Mr Dillwyn S	Member	
16	Mr Charan Adithya S	Member	
17	Ms Sasirekha P	Alumni Member	
18	Ms Kowsalya A	Student Member	
19	Mr Akkash S B	Student Member	
20	Ms Janani B	Student Member	
21	Mr Subramanian A	Parent Member	

Chairman - BoS
Chairman - BoS
FT - HiCET

Hindusthan College of Engineering and Technology
Accredited with 'A^{++}' Grade by NAAC, Affiliated to Anna University
Valley Campus, Pollachi Highway, Coimbatore – 641032

Date: 18.05.2024

DEPARTMENT OF FOOD TECHNOLOGY

ACTION TAKEN REPORT on BoS

The Eleventh Board of Studies meeting for the regulation 2019 and regulation 2022 for the academic year 2024-2025 Odd semester was conducted on 13.05.2024 at 11.00 a.m. at the Library Conference Hall, HICET, Coimbatore.

(I) Syllabus Revision for the regulation 2022

S. No	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1.	22FT2251 Food Biochemistry & Nutrition	Revision	20%
2.	22FT3201 Food Microbiology	Revision	50%
3.	22FT3204 Principles of Thermodynamics	Revision	25%
4.	22FT5251 Baking and Confectionery Technology	Revision	15%

Overall Syllabus Revision: 24.24%

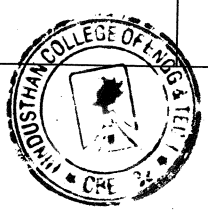
(III) Courses Introduced in R2022

S. No	Course Code & Course Name	Action taken
1.	22FT1101 Principles of Food Science	Introduced
2.	22FT2201 Fundamentals of Food Processing	Introduced
3.	22FT3003 Food Chemistry Laboratory	Introduced
4.	22FT5251 Baking and Confectionery Technology	Introduced
5.	22FTXXXX Radiation Preservation and Processing of Food Products	Introduced

(IV) General Recommendations:

S.No.	Suggestions / Comments given by the Members for 2019 Regulation	Action Taken	Report
1.	The Following new courses were suggested to be introduced • 22FT1101 Principles of Food Science • 22FT2201 Fundamentals of Food Processing	Suggestion passed	Suggestion approved

	• 22FT3003 Food Chemistry Laboratory • 22FT5251 Baking and Confectionery Technology • 22FTXXXX Radiation Preservation and Processing of Food Products		
2.	Stakeholders Suggestions for changes of courses from the Batch 2023-2027 in R 2022 • Suggested to merge Food Analysis and Quality Control theory and laboratory and move the theory with lab component semester V for the upcoming Batch (2023-2027) students • Industry Expert suggested to move Baking and Confectionery Technology to IVth Semester with separate Laboratory for the upcoming Batch (2023-2027) students.	Suggestion passed	Suggestion approved
3.	The Syllabus for the following Honors degree courses to be offered in the odd semester was discussed: **R 2019** 1. 21FT7204 Beverage Technology 2. 21FT7251 Processing and Value Addition of Tuber Crops **R 2022** 1. 22FT5203 Technology of Milk and Milk Products	Suggestion passed on the standing committee	Suggestion Approved
4.	The Syllabus for the following Minor degree courses under R 2019 was discussed **R 2019** 1. 21FT7601 Processing of milk and milk products 2. 21FT7602 Technology of Baking and Confectionery **R 2022** 1. 22FT5601 Food Quality Analysis	Suggestion passed on the standing committee	Suggestion Approved



5.	The revision of course content for the following courses under R2022 were proposed 1. 22FT2251 Food Biochemistry & Nutrition 2. 22FT3201 Food Microbiology 3. 22FT3204 Principles of Thermodynamics 4. 22FT5251 Baking and Confectionery Technology 5. 22FT5252 Food Analysis and Quality Control	Suggestion passed on the standing committee	Suggestion Approved
6.	The syllabus for the following value-added courses to be offered in III, V and VII Semesters were presented	Suggestion passed on the standing committee	Suggestion Approved

S.No	General Suggestions / Comments given by the Members	Action Taken	Report
1.	The subject expert suggested to provide more NPTEL Courses and course link in the reference for the courses.	Suggestion passed on the standing committee	Suggestion Approved
2.	Internships can be classified based into academic (NIFTEM/ Govt. Institutes – Instrumentation based internships) and industry based internships.	Suggestion passed on the standing committee	Suggestion Approved

Chairman
(Board of Studies)

Chairman - BoS
FT - HiCET

Dean Academics

Dean (Academics)
HiCET

KUMARAGURU COLLEGE OF ENGG & TECH

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
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DEPARTMENT OF CHEMICAL ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Chemical Engineering** **Date:** 13.05.2024

The X Board of Studies meeting of regulation 2019 with amendment and regulation 2022 for the academic year 2024-2025 ODD Semester was conducted on 13.05.2024 at 10.30 a.m. in the Library Board room, Hindusthan College of Engineering and Technology.

The following members were present:

S.No.	Name of the Member	Position	Stutus
1.	**Dr Seenuvasan M** Professor & Head, Department of Chemical Engineering, HICET.	Chairman	Present
2.	**Dr Jayanthi J** Professor and Head Department of Industrial BioTechnology Government College of Technology Coimbatore	University Nominee	Present
3.	**Dr Renganathan S** Professor, Department of Biotechnology Anna University Chennai	Academic Expert	Present
4.	**Dr Gomadurai C** Associate Professor, Department of Chemical Engineering, Kongu Engineering College Perundurai,Erode-638060.	Academic Expert	Present
5.	**Dr Rashmi Gangasa Walvekar** Associate Professor, School of Engineering,Faculty of Innovation and Technology Taylors University Malaysia (Attended through online: Google Meet: https://meet.google.com/yka-ckga-huw)	Academic Expert	Present
6.	**Mr.Venkatesan Jayraman** Product Engineering Manager-Acid Gas Products Schlumberger, Cameron India,III floor,TIDEL Park Coimbatore	Industry Expert	Present
7.	**Dr Vijayakumar L** Associate Professor & Head Department of Pharmaceutical Technology Hindusthan Institute of Technology Coimbatore	Member-Special Invitee(Sister Concern-HiTECH)	
8.	**Ms Sugashini K**		Present

	Executive officer Acidus Management Solutions,Tidel park Coimbatore	Alumini	
9.	**Mr Nagul Dev S** Assistant Professor Department of Chemical Engineering, HICET	Member	Present
10.	**Mr.Dinesh Kumar.M** Assistant Professor Department of Chemical Engineering, HICET	Member	Present
11.	**Mr Sathish J** Assistant Professor Department of Chemical Engineering, HICET	Member	Present
12.	**Ms Charubala B** Student, Department of Chemical Engineering, HICET	Student Member	Present
13.	**Mr Gowthaman K** Student, Department of Chemical Engineering, HICET	Student Member	Present
14.	**Mr M.Mohamed Iqbal** Parent	Parent Member	Present

- The Chairman-BoS welcomed the University nominee, Experts, special invitees and all the internal members for the X Board of Studies meeting.
- Chairman presented the suggestions given by the experts and the action taken report of the previous BoS meeting. Members of the BOS approved the same.
- The feedback and analysis required on curriculum by the stakeholders was presented by the Chairman-BoS.
- Chairman also gave an outline of the changes to be made in the curriculum given by the Department Advisory Committee (DAC) and emphasized the importance of curriculum to be in line with the industry needs.
- As recommended by DAC members, syllabus revision/Updation for the Odd semester under regulation 2022 in Chemical Reaction Engineering-II, Process Instrumentation Dynamics & Control, Mass Transfer operations lab, Natural gas engineering, Pulp and Paper technology, Multi Component Distillation, Biomass conversion and Bio Refinery, Transport Phenomena and Chemical process optimization, were discussed in the meeting.
- The Chairman discussed about the shifting of Introduction to Chemical Engineering from second semester theory to the first semester as theory with lab component.
- The Chairman discussed the 2 courses in Minor and 4 courses in Professional Elective and 3 course in Honour which should be passed in BOS.

The following are the recommendations put forth by the BoS members,

1. [redacted] (For the Batch admitted from 2021 – 2024 onwards).
2. [redacted] has been recommended (For the Batch admitted from 2022 – 2023 onwards).
3. [redacted] has been recommended (For the Batch admitted from 2022 – 2023 onwards).
4. [redacted] has been recommended (For the Batch admitted from 2021 – 2024 onwards).
5. [redacted] has been recommended (For the Batch admitted from 2021 – 2024 onwards).
6. [redacted] has been recommended (For the Batch admitted from 2024 – 2025 onwards).
7. [redacted] has been recommended (For the Batch admitted from 2022 – 2023 onwards).
8. [redacted] has been recommended (For the Batch admitted from 2022 – 2023 onwards).
9. [redacted] has been recommended (For the Batch admitted from 2022 – 2023 onwards).
10. [redacted] has been recommended as theory with Lab component and shifting of Unit III and Unit IV with experiments as separately (For the Batch admitted from 2024 – 2025 onwards).
11. The new courses introduced- Process Heat and Mass Transfer, Reaction Engineering, Pinch Technology, Bio Chemistry, Bioprocess Technology, Fermentation and Bioprocessing, Petroleum Geology, Petroleum Reservoir Engineering, Petroleum Production Engineering, Blue Economy Entrepreneurship (under regulation 2019 with amendment and regulation 2022 for the students admitted.
12. The additional credit course Industrial automation) and Fundamentals of AI and its Chemotropic applications recommend as value added course.
13. Course objectives have to be reframed for the course Introduction to Chemical Engineering (Dr Rashmi Gangasa Walvekar)
14. Suggest ensuring the courses that is supported by use of simulation software such as Aspen Plus or Hysys etc. Also suggested to ensure the courses or contents on energy storage technologies, renewable energy, Plant design and simulation in the Curriculum (Dr Rashmi Gangasa Walvekar).

15. "Preparation of Biodiesel" has to be included in Unit-III in course Biomass Conversion and Biorefinery (Dr Renganathan S)
16. Introduced of micro and macro algae in Unit-III in course Biomass Conversion and Biorefinery (Dr Renganathan S)
17. Recent topics has to be included in the course Introduction to Chemical Engineering(Dr Gomadurai C)
18. Employability Enhance course passed and recommended by the member's

[redacted]

General Recommendations:

1. Recommended more Industry Integration for Curriculum Enrichment.
2. Recommended to provide more opportunities towards skill development courses.
3. Recommended more awareness towards MOOC courses

The following resolutions were made in the Board of Studies meeting, For Regulations 2019:

- The curriculum and syllabus for the VII semester Minor and Honor courses passed by the Chemical Engineering board and permitted to move on Academic Council by the BoS members of Chemical Engineering.

For Regulation 2022:

- The syllabus for Semester – V under regulation 2022 passed by the Board ofChemical Engineering are permitted to move on Academic Council by the members of Chemical Engineering.
- The syllabus for Semester – III under regulation 2022 passed by the Board ofChemical Engineering are permitted to move on Academic Council by the members of Chemical Engineering.
- The syllabus for Semester – I under regulation 2022 passed by the Board of Science & Humanities & Board of Chemical Engineering are permitted to move on Academic Council by the members of Chemical Engineering.
- The curriculum and syllabus for the V semester Honor courses passed by the Chemical Engineering board and permitted to move on Academic Council by the BoS members of Chemical Engineering.
- Chairman has confirmed that, the suggestions given by the subject experts will be

considered and the syllabus will be updated based on the suggestions given in this BoS meeting.

The meeting ended with thanks to the Chair at 12.30 PM.

Chairman (Board of studies)

Chairman - BoS
CHE - HiCET

Enclose:

1. Previous BoS Minutes- ATR
2. Updated Curriculum and Syllabi under regulation 2019 with amendment & regulation 2022

Copy:

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

Hindusthan College of Engineering And Technology

Approved by AICTE, New Delhi, Accredited with 'A' Grade by NAAC
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore – 641 032

Date: 28.11.2023

ACTION TAKEN REPORT

Name of the Department: Chemical Engineering

The meeting of X board of studies of Regulation 2019 with ammendment & Regulation 2022 for the Department of Chemical Engineering Under Graduate Programme was conducted on 13.05.2024 at 10.30 a.m through Offline & Online mode, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision under the Regulations 2022

S.No	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1.	[redacted]	Modified	25%
2	[redacted]	Modified	25%
3	[redacted]	Modified	20%
4	[redacted]	Modified	20%
5	[redacted]	Modified	20%
6	[redacted]	Modified	20%
7	[redacted]	Modified	20%
8	[redacted]	Modified	25%
9	[redacted]	Modified	20%
10	[redacted]	Modified	20%

[redacted] **(10/39)**

(II) New Course Introduced (R2019 with amendment):

S. No	Regulation	Course Code with Name	Credits
1	**R2019**	21CH67231- Process Heat and Mass Transfer.	4
2	**R2019**	21CH7232-Reaction Engineering	3
3	**R2019**	21CH6601- Fluid Flow Operations in Chemical Engineering	3
4	**R2019**	21CH6602- Fundamentals of Chemical Thermodynamics	3
5	**R2019**	21CH7207-Petroleum Production Engineering	3
6	**R2019**	21CH7208-Petroleum Reservoir Engineering	3
7	**R2019**	21CH7311-Blue Economy Entrepreneurship	3
8	**R2022**	22CH5306-Pinch Technology	3
9	**R2022**	22CH5307-BioChemistry	3
10	**R2022**	22CH5308-Bio Process Technology	3
11	**R2022**	22CH5309- Fermentation & Bioprocessing	3
	R2022	22CH5207-Petroleum Geology	3

(III) Additional Credit Courses (R2019):

S.No.	Course Code with Name
1.	22VACH03- Industrial automation
2.	21VACH05- Fundamentals of AI and its Chemotropic applications

(IV) Course in the Updated Curriculum under R2022

S.No.	Course Code	Course Title	Credits
1.	22MA1101	Matrices and Calculus (Common)	4
2.	22HE1151	English for Engineers (Common)	3
3.	22PH1151	Physics of Materials	3
4.	22ME1201	Engineering Drawing	3
5.	22IT1151	Python Programming and Practices	3
6.	22HE1071	Universal Human Values (Common)	2
7.	22HE1072	Entrepreneurship & Innovation (Common)	1
8.	22MC1091/ 22MC1092	அறிவியல்தமிழ்/Indian Constitution	0
9	22HE2151	Effective Technical Communication(Common)	3
10	**22MA2104**	Fourier Analysis and Laplace Transforms	4

11	**22PH2101**	Basics of Material Science	2
12	**22CY2101**	Environmental Studies	2
13	22CH2201	Introduction to Chemical Engineering	3
14	**22CY2151**	Chemistry for Engineers	3
15	22ME2001	Engineering Practices (Common)	2
16	22HE2071	Design Thinking (Common)	2
17	**22HE2072**	Soft Skills and Aptitude-I	1
18	22MC2091/ 22MC2092	Heritage of Tamil	0
19	22MC3091	Essence of Indian Traditional Knowledge	
20	22MA3107	Numerical Methods	4
21	22CH3201	Chemical Process Calculations	4
22	22CH3202	Fluid Flow Operations	3
23	22CH3203	Chemical Engineering Thermodynamics – I	3
24	22CH3251	Mechanical Operations	3
25	22ME3253	Basic Mechanical Engineering	3
26	22CH3001	Fluid Flow Operations Lab	2
27	22CH3002	Technical Analysis Lab	2
28	22HE3071	Soft Skills -2 (Common)	1
29	22HE4101	IPR and Start-ups(Common)	2
30	22CH4201	Mass Transfer Operations - I	3
31	22CH4202	Chemical Engineering Thermodynamics – II	3
32	22CH4203	Process Heat Transfer	3
33	22CH4204	Chemical Process Industries	2
34	22EE4251	Basics of Electrical &Electronics Engineering	2
35	22CH4251	Chemical Reaction Engineering-I	3
36	22MA4151	Probability and statistics with R programming	3
37	22CH4001	Heat Transfer Lab	2
38	22HE4071	Soft Skills -3(Common)	1
39	22CH5201	Mass Transfer Operations - II	3
40	22CH5202	Process Instrumentation Dynamics & Control	3
41	22CH53XX	Professional Elective-1	3
42	22CH53XX	Professional Elective-2	3
43	22CH53XX	Professional Elective-3	3
44	22CH5251	Chemical Reaction Engineering-II	3
45	22CH5001	Mass Transfer Operations Lab	2
46	22HE5071	Soft Skills -4/Foreign languages	1
47	22CH6201	Transport Phenomena	3
48	22HE6101	Professional Ethics (Common)	3
49	22CH63XX	Professional Elective-4	3
50	22CH63XX	Professional Elective-5	3
51	22XX64XX	Open Elective – 1*	3
52	22XX64XX	Open Elective – 2*	3
53	22CH6001	Process Control Lab	2
54	22CH6002	Computational Chemical Engineering Lab	2
55	22HE6071	Soft Skills – 5(Common)	2
56	22CH7201	Process Economics and Engineering Management	3
57	22CH7202	Process Equipment Design	4
58	22CH73XX	Professional Elective-6	3
59	22XX74XX	Open Elective – 3*	3

60	22XX74XX	Open Elective – 4*	3
61	22CH7001	Design and Simulation Lab	2
62	22CH7701	Internship	2
63	22CH8901	Project Work/Granted Patent(Common)	10
		OPEN ELECTIVE I AND II	
64	22CH6401	Biomass and Bio refinery	3
		OPEN ELECTIVE III	
65	22CH7401	Waste to Energy Conversion	3
		OPENELECTIVE IV	
66	22LS7401	General studies for competitive examinations	3
67	22LS7402	Human Rights, Women Rights and Gender equity	3
68	22LS7403	Indian ethos and Human values	3
69	22LS7404	Financial independence and management	3
70	22LS7405	Yoga for Human Excellence	3
71	22LS7406	Democracy and Good Governance	3
72	22LS7407	NCC Level – II	3
		PROFESSIONAL ELECTIVE COURSES	
		DETAILS OF VERTICAL I : PETROLEUM PROCESS TECHNOLOGY	
73	22CH5301	Petroleum Chemistry and Refining Fundamentals	3
74	22CH5302	Primary Refining Technology	3
75	22CH5303	Secondary Refining Technology	3
76	22CH6301	Refinery Advancements and Environmental Regulations	3
77	22CH6302	Petroleum Equipment Design	3
78	22CH7301	Petrochemical Technology	3
		DETAILS OF VERTICAL II : ENERGY ENGINEERING	
79	22CH5304	Bioenergy	3
80	22CH5305	Renewable Energy Resources	3
81	22CH5306	Pinch Technology	3
82	22CH6303	Hydrogen And Fuel Cell Technology	3
83	22CH6304	Power Plant Engineering	3
84	22CH7302	Non-Renewable Energy Sources	3
		DETAILS OF VERTICAL III : BIOCHEMICAL ENGINEERING	
85	22CH5307	Biochemistry	3
86	22CH5308	Bioprocess Technology	3
87	22CH5309	Fermentation & Bioprocessing	3
88	22CH6305	Bio separation & Downstream Processing	3
89	22CH6306	Enzyme Immobilization Technology	3
90	22CH7303	Bioreactor Design	3
		DETAILS OF VERTICAL IV: ENVIORNMENTAL AND SAFETY ENGINEERING	
91	22CH5310	Biochemistry	3
92	22CH5311	Bioprocess Technology	3
93	22CH5312	Fermentation & Bioprocessing	3
94	22CH6307	Bio separation & Downstream Processing	3
95	22CH6308	Enzyme Immobilisation Technology	3
96	22CH7304	Bioreactor Design	3
		DETAILS OF VERTICAL V: COMPUTATIONAL ENGINEERING	
97	22CH5313	Computational Techniques	3

98	22CH5314	Optimization of Chemical Processes	3
99	22CH5315	Process Modeling and Simulation	3
100	22CH6309	Pinch Analysis and Heat Exchange Network Design	3
101	22CH6310	Chemical Process Flow sheeting	3
102	22CH7305	Computational Fluid Dynamics	3
DETAILS OF VERTICAL VI : COMPUTATIONAL ENGINEERING			
103	22CH5316	Chemical Plant Design	3
104	22CH5317	Plant Layout	3
105	22CH5318	Design Safety	3
106	22CH6311	Material Selection	3
107	22CH6312	Statutory Requirements & Customer Care	3
108	22CH7306	Process Plant Utilities	3
VERTICALS FOR MINOR DEGREE **CHEMICAL ENGINEERING OFFERING MINOR DEGREE** Minor Specialization in Chemical Engineering			
108	22CH5231	Introduction to Chemical Process	3
109	22CH6231	Fluid Flow Operations in Chemical Engineering	4
110	22CH6232	Fundamentals of Chemical Thermodynamics	3
111	22CH7231	Process Heat and Mass Transfer	3
112	22CH7232	Reaction Engineering	3
113	22CH8231	Unit Operations and Process Laboratory	2
Additional courses for Minor Degree			
VERTICAL I: FINTECH AND BLOCK CHAIN			
114	22MB5231	Financial Management	3
115	22MB6231	Fundamentals of Investment	3
116	22MB6232	Banking, Financial Services and Insurance	3
117	22MB7231	Introduction to Block chain and its Applications	3
118	22MB7232	Fintech Personal Finance and Payments	3
119	22MB8231	Introduction to Fintech	3
VERTICAL II: ENTREPRENEURSHIP			
120	22MB5232	Foundations of Entrepreneurship	3
121	22MB6233	Team Building & Leadership Management for Business	3
122	22MB6234	Creativity & Innovation in Entrepreneurship	3
123	22MB7233	Principles of Marketing Management For Business	3
124	22MB7234	Human Resource Management for Entrepreneurs	3
125	22MB8232	Financing New Business Ventures	3
VERTICAL III: ENVIRONMENT AND SUSTAINABILITY			
126	22CE5232	Sustainable infrastructure Development	3
127	22AG6233	Sustainable Agriculture and Environmental Management	3
128	22BM6233	Sustainable Bio Materials	3
129	22ME7233	Materials for Energy Sustainability	3
130	22CE7233	Green Technology	3
131	22CE8232	Environmental Quality Monitoring and Analysis	3
B Tech (Hons) Chemical Engineering with Specialization in Computer Aided Process			

		Engineering	
132	22CH5205	Process Flow Sheeting	3
133	22CH6203	Transport Phenomena	4
134	22CH6204	Advanced Process Optimization	3
135	22CH7203	Artificial Intelligence in Process Engineering	3
136	22CH7204	Digital Twin and Soft Computing in Process Modelling	3
137	22CH8201	Advanced Process Modelling and Simulation	2
B Tech (Hons) Chemical Engineering with Specialization in Polymer Technology			
138	22CH5206	Polymer Chemistry	3
139	22CH6205	Processing Technology	3
140	22CH6206	Rubber Technology	3
141	22CH7205	Polymer Product Design, Blends, and Alloys	3
142	22CH7206	Polymer Structure and property relationships	3
143	22CH8202	Polymer Compounding Technology	3
B Tech (Hons) Chemical Engineering with Specialization in Petroleum Engineering			
144	22CH5207	Petroleum Geology	3
145	22CH6207	Petroleum Exploration	3
146	22CH6208	Drilling Technology	3
147	22CH7207	Petroleum Production Engineering	3
148	22CH7208	Petroleum Reservoir Engineering	3
149	22CH8203	Offshore Engineering	3
B Tech (Hons) Chemical Engineering with Specialization in Instrumental Chemical Analysis			
150	22CH5208	Principles of Mass Spectrometry	3
151	22CH6209	Advanced Analytical Separation Techniques	3
152	22CH6210	Advanced Spectrometry: ICP-MS and LC-MS	4
153	22CH7209	Instruments for Morphology and Structural Characterization	3
154	22CH7210	Statistical Analysis and Data Processing Laboratory	2
155	22CH8204	Troubleshooting Analytical Methods and Instruments	3

(V). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1	Course objectives have to be reframed for the course "Introduction to Chemical Engineering"	Incorporated
2	Suggest ensuring the courses that is supported by use of simulation software such as Aspen Plus or Hysys etc. Also suggested to ensure the courses or contents on energy storage technologies, renewable energy, Plant design and simulation in the Curriculum	Ensured the availability
3	"Preparation of Biodiesel" has to be included in Unit-III in course Biomass Conversion and Biorefinery	Incorporated
4	To Introduce of micro and macro algae in Unit-III in course Biomass Conversion and Biorefinery	Incorporated
5	Recent topics has to be included in the course Introduction to Chemical Engineering	Incorporated

Chairman
(Board of Studies)

Dean Academics

Chairman - BoS
CHE - HiCET

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Tel: +91 422 4242424 www.hicet.ac.in

TÜVRheinland CERTIFIED

Date: 18.05.2024

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **COMPUTER SCIENCE AND ENGINEERING**

The 14th Board of Studies meeting of regulation R2019 & R2022 for the academic year 2024 -2025 Odd Semester was conducted on 18.05.2024 at 10.00 a.m. in Hybrid mode, Hindusthan College of Engineering and Technology. (Google Meet: meet.google.com/vkk-mdwf-yjs).

The following members were present:

S. No.	Name of the Member	Position
1	**Dr Shankar S** **Professor & HOD** Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Chairman
2	**Dr. G. R. Karpagam,** Professor, Department of Computer Science and Engineering, PSG College of Technology, Coimbatore grk.cse@psgtech.ac.in	Anna University Nominee
3	**Dr. D. Karthika Renuka, M.E., Ph.D, Post Doc(USA) ,INDO-US WISTEMM FELLOW** Associate Dean - Students Welfare, Professor - Department of IT, PSG College of Technology ,Coimbatore - 641 004 9976128726 dkr.it@psgtech.ac.in	Subject Expert
4	**Dr. D Sivaganesan** Professor / CSE PSG Institute of Technology and Applied Research, sivaganesan@psgitech.ac.in 9942237029	Subject Expert
5	**Dr Surendiran B** Associate Professor Dept of Computer Science and Engineering, National Institute of Technology, Puducherry.	Member from QIS rated Institution

6	**Mr. Ramakrishna Rama,** Principal Director, Microsoft Corporation , Bengaluru.	Industry Expert
7	**Mr.M.Dinesh Raja,** Managing Director, Haqto Technologies, Coimbatore	Meritorious Alumni & Industry Expert
8	M.Balamukesh 7338920527 bala.mukesh@gmail.com	Alumni
9	**Dr .Jameer Basha A** **Professor & HOD** Department of Computer Science and Engineering, Hindusthan Institute of Technology	Member from sister concern
10	**Dr Satheesh Kumar D** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Autonomous Coordinator & BoS Member
11	**Ms.Sathya S** Assistant Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Autonomous Coordinator & BoS Member
12	**Dr. S. Uma,** Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Senior Faculty Member
13	**Mr Mahesh D** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Senior Faculty Member
14	**Mr. Dhanaselvan J U** 720721104076 - IV BE CSE B Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
15	**Mr. Sri Prasanna S** 720722104169 - III BE CSE C Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
16	**Mr. Jayaprakash.T** Parent Member F/o. **Mr. Dhanaselvan J U** 720721104076 - III BE CSE B	Parent Member

17	**Mr. Sakthivel.E** Parent Member F/o, **Mr.Sri Prasanna S** 720722104169 - II BE CSE C	Parent Member

- Dr.S.Shankar, Chairman, Board of Studies, welcomed the University nominee, Subject experts, Special Invitees and all the internal members for the fourteen 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 during **09.12.2023**,was approved.

- The feedback received on the curriculum by the stakeholders was presented.

- Chairman gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell (CDC) & Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC) and emphasized the importance of including the employability enhancement courses, soft skills, and IPR related courses in the curriculum to be in line with the industry needs.

- Chairman presented the Semester VII (R2019 -admitted in 2021) subjects with syllabus for Minor & Honours/Honours with specialization, and noted the experts suggestions.
- The curriculum and syllabi of First, Third and Fifth semester subjects is discussed for 2022 regulation.

The following are the recommendations put forth by the BoS members,

- Curriculum under R2022
- Syllabus for the courses of the I, III, V and VII semester (Under R2022, R2019 with amendments)
- Revisions in the courses for the existing batch students (R2022, R2019 with amendments)
- R2022 Curriculum is designed in such a way that its inline with CO, PO, PSO & PEO.
- Syllabus for the courses of Honours and Minor Degree Program

- Introduction of value added course

*For **2021-2022** batch students, the following courses has been introduced or revised*

1. 21CS7601 - Introduction to Machine Learning course is introduced as new Minor degree course in the semester VII with 3 credits.
2. 21CS7602 - Introduction to cyber security course is introduced as new Minor degree course in the semester VII with 3 credits.
3. 21CS7203 - IOT for smart cities course is introduced as new Honours degree course in the semester VII with 3 credits.
4. 21CS7204 - Internet of Medical Things course is introduced as new Honours degree course in the semester VII with 3 credits.
5. 21CS7205 - Smart Contracts and Solidity course is introduced as new Honours degree course in the semester VII with 3 credits.
6. 21CS7206 - Block chain and distributed ledger technology course is introduced as new Honours degree course in the semester VII with 3 credits.
7. 21CS7207 - Nosql Databases with Mongo DB course is introduced as new Honours degree course in the semester VII with 3 credits.
8. 21CS7208 - DevOps course is introduced as new Honours degree course in the semester VII with 3 credits.

- *For **2022-2023** batch students, the following courses has been introduced or revised*

1. 22CS5252 - Machine Learning course is a theory with lab component course and it is introduced as new course in semester V with credit 3.
2. 22CS5202 – Computer Networks course is revised 20% in the semester V with 3 credits.
3. Professional Elective courses with various domains like AIML, Creative Media, Cloud computing, Cyber security and data Privacy, Computer vision and AR/VR, Full Stack Development domains is a theory course and it is introduced as new course in semester V with credit 3.
4. 22CS5206 - Data warehouse and Mining course is introduced as new Honours degree course in the semester V with 3 credits.

- *For **2023-2024** batch students, the same courses has been forwarded*

Skill Development courses introduced for member's approval

- 22HE1072-Entrepreneurship & Innovation (Passed by S&H board)

Employability Enhancement courses introduced for member's approval.

- 22HE1073- Introduction To Soft Skills (Passed by S&H board)

- 22HE3071 – Soft Skills – 2 (Passed by S&H board)
- 22HE5071 – Soft Skills – 4 (Passed by S&H board)

The following are the recommendations put forth by the BoS members,

1. The subject expert Dr.Surendiran Suggested to include open source big data tools like Stats IQ, Atlas.ti, Couch DB in the Big Data Analytics (PE) syllabus.
2. The Industry expert Ramakrishna Rama Suggested to include topics like Hub, Switches, Router, Gateway in Unit-1 and Mobile Networks as case study in unit-5 in Computer Networks Course
3. Dr.Karpagam G.R , Anna University Nominee Suggested to include scenario based questions in lab component courses.
4. The subject expert Karthika renuka Suggested to include MLOPS topic in UNIT -5 of Devops (Full Stack Domain-Honors)course.
5. The ACM Expert Suggested to swap from Honors vertical in Full Stack Development domain to Professional Elective Vertical.
6. The ACM Expert Suggested to swap from Professional Elective vertical Data Science domain to Honors Vertical
7. Value added course is introduced in every semester, which includes various courses for the students to enhance their technical skills.

Value added course	Name of the Course
23CSV03	Real Time Application Development Using Python
22CSV05	Mobile Application Development Using Android
21CSV07	Web Application Development Using Java

General Recommendations:

1. Dr .Karpagam,Anna University Nominee appreciated for including industrial oriented courses and agreed that students would be surely benefitted and suggested to provide sufficient time to students to complete the courses.
2. The subject expert Dr.Karthika Renuka, Suggested to include recent editions of text and reference books in the syllabus. Also suggested that, if one text book covers all the units then one text book is enough. Otherwise, more than one text books may be included in the syllabus.
3. In general, the members suggested ensuring mapping of Course objectives and Course outcomes with course contents.

The Chairman, BoS and all members accepted to incorporate the above in the curriculum.

The following resolutions were made in the Board of Studies meeting,

- The curriculum and syllabi of 2019 Regulation with Amendments for the VII semester was passed by the Computer Science and Engineering board and permitted to move on Academic Council by the BoS members of CSE for the students admitted during the academic year 2021 - 2022 and onwards.
- The curriculum and syllabi of 2022 Regulation for the V semester Courses, Elective, Minors, Honors subject were introduced and passed by the Computer Science and Engineering board and permitted to move on Academic Council for the students admitted during the academic year 2022 - 2023 onwards.
- The curriculum and syllabi of 2022 Regulation for the III semester Courses were passed by the Computer Science and Engineering board and permitted to move on Academic Council for the students admitted during the academic year 2023 - 2024 onwards.
- The Curriculum and Syllabus of Regulation 2022 for the I Semester Subjects- 22MAXXX, 22CHXXX, 22HEXXX, and 22MCXXX were introduced and passed by Science and Humanities board and permitted to move on Academic Council for the students admitted during the academic year 2024-2025 onwards.

• Chairman conveyed that, the Suggestions given by the Board of Studies members are to be incorporated in Regulation 2022.

• Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved

1. <<if Department specific Board of Studies resolutions/Common Suggestions: >>

- Panel Members Suggested more new courses can be introduces in the new regulation which can be useful for placement and higher studies.

The meeting came to an end at 11 am with vote of thanks.

Chairman

(Board of studies)

Chairman - BoS
CSE - HiCET

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 2022
3. Curriculum and Syllabi

Copy:

1. The Principal
2. Dean Academics
3. Controller of Examinations
4. All the members of BoS

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Date: **18.05.2024**

ACTION TAKEN REPORT ON BoS

Name of the Department: **COMPUTER SCIENCE AND ENGINEERING**

The 14th Board of Studies meeting of regulation R2019 & R2022 for the academic year 2024 -2025 Odd Semester was conducted on 18.05.2024 at 10.00 a.m. in Hybrid mode, Hindusthan College of Engineering and Technology.

(Google Meet: meet.google.com/vkk-mdwf-yjs).

(I) Syllabus Revision for the Regulations 2019 & 2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	Computer networks	Introduced	20%
2	Machine Learning	Introduced	100%

Overall Percentage of revision made in the BoS: 38%

(II) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1	2019	21CS7601 - Introduction to Machine Learning	3
2	2019	21CS7602 - Introduction to cyber security	3
3	2019	21CS7203 - IOT for smart cities	3
4	2019	21CS7204 - Internet of Medical Things	3
5	2019	21CS7205 - Smart Contracts and Solidity	3
6	2019	21CS7206 - Block chain and distributed ledger technology	3
7	2019	21CS7207 - Nosql Databases with Mongo DB	3
8	2019	21CS7208 - DevOps	3
9	2022	22CS5252 - Machine Learning	3

(VI) The following recommendations given by stakeholders are considered and incorporated.

1. The subject expert Dr.Surendiran Suggested to include open source big data tools like Stats IQ, Atlas.ti, Couch DB in the Big Data Analytics (PE) syllabus.
2. The Industry expert Ramakrishna Rama Suggested to include topics like Hub, Switches, Router, Gateway in Unit-1 and Mobile Networks as case study in unit-5 in Computer Networks Course
3. Dr.Karpagam G.R , Anna University Nominee Suggested to include scenario based questions in lab component courses.
4. The subject expert Karthika renuka Suggested to include MLOPS topic in UNIT -5 of Devops (Full Stack Domain-Honors)course.
5. The ACM Expert Suggested to swap from Honors vertical in Full Stack Development domain to Professional Elective Vertical.
6. The ACM Expert Suggested to swap from Professional Elective vertical Data Science domain to Honors Vertical

(VII). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1	1.Dr .Karpagam,Anna University Nominee appreciated for including industrial oriented courses and agreed that students would be surely benefitted and suggested to provide sufficient time to students to complete the courses.	Incorporated
2	2.The subject expert Dr.Karthika Renuka, Suggested to include recent editions of text and reference books in the syllabus. Also suggested that, if one text book covers all the units then one text book is enough. Otherwise, more than one text books may be included in the syllabus.	Incorporated
3	3.In general, the members suggested ensuring mapping of Course objectives and Course outcomes with course contents.	Incorporated

Chairman
(Board of Studies)

Chairman - BoS
CSE - HiCET

Dean Academics

Dean (Academics)
HiCET

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(An Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore – 641 032

HICET

Date: 18.05.2024

MINUTES OF THE BOARD OF STUDIES MEETING

Name of the Department: **M.E COMPUTER SCIENCE AND ENGINEERING**

The Board of Studies meeting for the M.E CSE programme of Regulation 2024 & Regulation 2020 for the academic year 2024-2025 was conducted on 18.05.2024 at 10.00 a.m. in Hybrid mode, Hindusthan College of Engineering and Technology. (Google Meet: meet.google.com/vkk-mdwf-yjs).

The following members were present:

S. No.	Name of the Member	Position
1	**Dr Shankar S** **Professor & HOD** Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Chairman
2	**Dr. G. R. Karpagam,** Professor, Department of Computer Science and Engineering, PSG College of Technology, Coimbatore grk.cse@psgtech.ac.in	Anna University Nominee
3	**Dr. D. Karthika Renuka, M.E., Ph.D, Post Doc(USA) ,INDO-US WISTEMM FELLOW** Associate Dean - Students Welfare, Professor - Department of IT, PSG College of Technology ,Coimbatore - 641 004 9976128726 dkr.it@psgtech.ac.in	Subject Expert
4	**Dr. D Sivaganesan** Professor / CSE PSG Institute of Technology and Applied Research, sivaganesan@psgitech.ac.in 9942237029	Subject Expert
5	**Dr Surendiran B** Associate Professor Dept of Computer Science and Engineering, National Institute of Technology, Puducherry.	Member from QIS rated Institution
6	**Mr. Ramakrishna Rama,** Principal Director, Microsoft Corporation , Bengaluru.	Industry Expert
7	**Mr.M.Dinesh Raja,** Managing Director, Haqto Technologies, Coimbatore	Meritorious Alumni & Industry Expert
8	M.Balamukesh 7338920527	Alumni

	bala.mukesh@gmail.com	
9	**Dr .Jameer Basha A** **Professor & HOD** Department of Computer Science and Engineering, Hindusthan Institute of Technology	Member from sister concern
10	**Dr Satheesh Kumar D** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Autonomous Coordinator & BoS Member
11	**Ms.Sathya S** Assistant Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Autonomous Coordinator & BoS Member
12	**Dr. S. Uma,** Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Senior Faculty Member
13	**Mr Mahesh D** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Senior Faculty Member
14	**Mr. Dhanaselvan J U** 720721104076 - IV BE CSE B Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
15	**Mr. Sri Prasanna S** 720722104169 - III BE CSE C Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
16	**Mr. Jayaprakash.T** Parent Member F/o. **Mr. Dhanaselvan J U** 720721104076 - III BE CSE B	Parent Member
17	**Mr. Sakthivel.E** Parent Member F/o, **Mr.Sri Prasanna S** 720722104169 - II BE CSE C	Parent Member

- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees, and all the internal members for the Board of Studies meeting.
- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell (CDC) & Pre-Board of studies/ Department Advisory Committee (DAC).
- The feedback received on the curriculum by the stakeholders was presented.
- The Chaiman -BoS elaborated the Regulation 2024 Curriculum Schemes to the members and also the inclusion of Professional electives .

Recommendations by BoS members (Subject Related)

- Dr.Karpagam– University nominee, appreciated the Regulation 2024 curriculum and syllabus of the Semester I.

The following resolutions are made in the Board of Studies meeting

- In almost all the courses, changes have been done as per the current needs.
- All the courses in the curriculum are framed based on the Employability, Skill development, and Entrepreneurship context to meet the industry needs.
- The syllabi of I semester of the PG Programmes for the students admitted during the academic year 2024 - 2025 and onwards was passed and permitted to move on Academic Council
- The Board Members Emphasized to include new Text books in the Syllabus.

The meeting ended with thanks by the Chairman at 11.00 A.M

Chairman

(Board of studies)

Chairman - BoS
CSE - HiCET

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 2022
3. Curriculum and Syllabi

Copy:

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

Hindusthan College of Engineering and Technology

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Department of Computer Science and Engineering

Date: 18.05.2024

Action taken report on BoS

Action taken report for the Board of Studies meeting for ME CSE Post graduate programme of Regulation 2024 & 2020 for the academic year 2024-2025 was conducted on 18.05.2024 at 10.00 AM in Hybrid Mode. (Google Meet: meet.google.com/vkk-mdwf-yjs).

General Recommendations:

BOS Members Suggestions			
Subject Name	**Suggestions**	**Explanation / Action Taken**	**Remarks**
For I - IV Semester subjects	The curriculum and syllabus of all semesters were reviewed and accepted without any changes	Nil	

Chairman
(Board of Studies)

Chairman - BoS
CSE - HiCET

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Valley Campus, Pollachi Highway, Coimbatore 641032.

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 24.05.2024

The meeting of 13th Board of Studies in the Department of Electrical and Electronics Engineering Undergraduate programme for the academic year 2024-25 was conducted on 24.05.2024 at 2.30 pm in Regular Mode with all the members present.

The following members were present:

S.No.	Name of the Member	Position
1	Dr.N.P.Ananthamoorthy Professor and Head	BoS, Chairman
2	Dr.B.Baby Priya Associate Professor Department of EEE Government College of Engineering Erode - 638 316	Anna University Nominee
3	Dr.P.Maruthapandian Associate Professor. Department of EEE Government College of technology Coimbatore	Subject Expert
4	Dr.B.Kishore Associate Professor / EEE Dr Mahalingam College of Engineering and Technology, Pollachi	Subject Expert
5	Mr.K.Gowtham Director S&G Solutions OEM Circuit Board Manufacturer Irugur Road Ondipudur,Coimbatore	Representative from Industry
6	Dr.D.Sakthivadivel Associate professor /EEE Vellore Institute of Technology ,	QS rated Institution Member
7	Dr.Sabarinathan Assistant Professor, Department of Electrical Engineering, Kongu College of Engineering Erode.	Alumini
8	Dr.K.Sekar Professor	Member
9	Dr.Mathan.K Associate Professor	Member
10	Dr R.Rajesh kanna Associate Professor	Member
11	Mr.M.P.Viswanathan Assistant Professor	Member

HINDUSTHAN COLLEGE OF ENGG & TECH - CBE - 32

12	Mrs.B.Nandhini Assistant Professor	Member
13	Mr.G.Muthuram Assistant Professor	Member
14	Mr.S.Joshua Daniel Assistant Professor	Member
15	Mr.K.Saravana Kumar Assistant professor	Member
14	Mr.N.Mahesh kumar Assistant Professor	Member
15	Mr.O.Suresh P/O Ms.S.Awini SF 26 A JothiNagar, Mallumichampatt,Coimbatore	Parent Member
16	Mr.K.V.Abhishek(III EEE)	Student Member
17	Mr.S.Jayaprasanth (II EEE)	Student Member
18	Ms.S.Awini (II EEE)	Student Member

The Chairman-BoS (Dr.N.P.ananthamoorthy) welcomed all the members for the 13th 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 18.12.2023 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 13th Department Advisory Committee (DAC) related to the curriculum and Syllabus. The Board of Studies Members' suggestion has been sought in this regard.
- Chaiman, 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 (R2022) subjects with syllabus, and for Minor & Honours/Honours with specialization courses VII (R2019 (admitted in 2021) and noted the experts suggestions.
- Chairman conveyed to the members that, the Minor & Honours/Honours with specialization scheme has been implemented in R2019 (for the students who have admitted in 2021-22 and onwards).

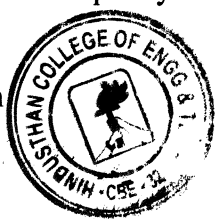
Recommendations by BoS members (Subject Related)

The following recommendations put forth by the BoS Members,

- Dr.T.Baby priya– University nominee, appreciated the Regulation 2022 curriculum and syllabus for Minor & Honours / Honours with specialization courses (Sem V)

HINDUSTHAN COLLEGE OF ENGG & TECH. CBE-32

- Dr.T.Baby priya– University nominee appreciated the subject Fundamentals of Electrical Science in I Semester
- Dr.P.Maruthapandian - Subject Expert, suggested by including topics such as FET,MOSFET and also to exclude communication systems in "Basics of Electronics Engineering ".and the name of the subject to be change as "Solid State Devices "
- Chairman agreed to incorporate the above suggestions.
- Dr.P.Maruthapandian – Subject Expert recommended to include Recent edition of Text books and Reference books for Sem V, Honours & Minor course syllabus.
- Chairman agreed to incorporate the above suggestions.
- Dr.D.Sakthivadivel– Member form QS Rated Institution, appreciated the R2022 Curriculum, Minor & Honours / Honours with specialization vertical subjects.
- Dr.P.MaruthaPandian- Subject Expert, suggested to include Stepper motor topic and Concept of PMSM in "Electrical Machines II
- Dr.B.Kishore – Subject Expert suggested to add Miniproject in Microprocessor and Microcontroller Laboratory and also add Applications in Microprocessor and Microcontroller
- Chairman accepted to include the above suggestions.
- Dr.D.Sakthivadivel– Subject Expert, suggested to modify the Honours subjects and advised to include battery management topic in "Fundamentals of EV"
- Chairman agreed to incorporate the above suggestions.
- All members are accepted to incorporate the above course revision.
- In general, Members recommended to use standard keywords in Course Objectives & Course Outcomes for CO-PO-PSO mapping and fulfill the OBE.
- Also, members suggested to increase the Instruction Hours for Value Added Course (VAC) from 30 to 35 or 40 hours.
- Chairman informed that, the following courses can be given as Value Added Course in ODD semester and Syllabus were discussed.
    - (i) 24VE2303 - SCILAB for Beginners
    - (ii) 24VE2205 - Embedded System Using ARDUINO
    - (iii) 24VE2107 -Battery Management System for Electric Vehicle
- All members are accepted for the above VAC.
- Skill Development courses introduced for member's approval
    - 21 LSZ401 –General Studies for Competitive Examinations
    - 21 LSZ402 – Human Rights, Women's Rights and Gender Equality
    - 21 LSZ403 – Indian Ethos and Human Values
    - 21 LSZ404 – Indian Constitution and Political System



- 21 LSZ405 – Yoga for Human Excellence

- Employability Enhancement courses introduced for member's approval.
  - 22HE5071 – Soft Skills – IV (Passed by S&H board)
- The Chairman, BoS and all members are accepted to incorporate the above recommendations in the syllabus.

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

- The syllabi of V semester of the UG Programmes (22HE5071 - Soft Skills -IV) 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 2024 - 2025 and onwards was passed by S&H Board of Studies and permitted to move on Academic Council.

10. Introduce Course:

Following new courses are introduced(R2022) for the students admitted in the year 2022-23 and onwards (Semester V)

- 22EE5201 – Electrical Machines -II: Credit 3
- 22EE5202 - Microprocessors and Microcontrollers: Credit 3
- 22EI5251 - Control Systems: Credit 3
- 22EE5001 - Electrical Machines –II Laboratory: Credit 1.5
- 22EE5002 - Microprocessors and Microcontrollers Laboratory: Credit 1.5
- 22EE1201 - Fundamentals of Electrical Science :Credit 3

The meeting came to an end at 4.30 p.m with vote of thanks.

Chairman
(Board of studies)

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 2022
3. Curriculum and Syllabi

Copy:

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

HINDUSTHAN COLLEGE OF ENGG & TECH. CBE-32

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Coimbatore – 641 032

Date: 16. 06. 2023

ACTION TAKEN REPORT ON BoS

Name of the Department: ELECTRICAL AND ELECTRONICS ENGINEERING

The meeting of 13th Board of Studies of Regulation 2019 & Regulation 2022 for the Department of Electrical and Electronics Engineering B.E Programme was conducted on 24.05.2024 at 2.30 pm, in Regular Mode, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision for the Regulations 2019: Nil

Overall Percentage of revision made in the BoS: 30.9%

(II) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1.	2022	22EE5201 – Electrical Machines -II	3
2.	2022	22EE5202 – Microprocessors and Microcontrollers	3
3.	2022	22EI5251 – Control Systems	3
4.	2022	22EE5001 – Electrical Machines –II Laboratory	1.5
5.	2022	22EE5002 – Microprocessors and Micro controllers Laboratory	1.5
6.	2022	22EE5301- Flexible AC Transmission Systems	3
7.	2022	22EE5302-High Voltage Engineering	3
8.	2022	22EE5303-Smart Grid	3
9.	2022	22EE5304-Design of Electrical Machines	3
10.	2022	22EE5305-Special Electrical Machines	3
11.	2022	22EE5306-Power Semiconductor Devices	3
12.	2022	22EE5307-Embedded System	3
13.	2022	22EE5308-Microcontroller Based System Design	3
14.	2022	22EE5309-Software for Embedded Systems	3
15.	2022	22EE5310-Electric Vehicle Architecture	3
16.	2022	22EE5311-Automotive Electronics	3
17.	2022	22EE5312-Design of Motor and Power Converters for Electric Vehicles	3
18.	2022	22EE5313-Process Modeling and Simulation	3
19.	2022	22EE5314-Computer Control of Processes	3
20.	2022	22EE5315-Model Based Control	3
21.	2022	22EE5316-Energy Storage Systems	3
22.	2022	22EE5317-Hybrid Energy Technology	3
23.	2022	22EE5318-Design and Modelling of Renewable Energy Systems	3
24.	2022	22EE1201 - Fundamentals of Electrical Science	3

(III) Mandatory Courses

S.No.	Course Code with Name
1.	22HE5071- Soft Skills - IV

HINDUSTHAN COLLEGE OF ENGG & TECH · CBE · 32.

(IV) Additional Credit Courses Introduced:

S.No.	Course Code with Name
1.	24VE2303 - SCILAB for Beginners (VAC)
2.	24VE2205 - Embedded System Using ARDUINO (VAC)
3.	24VE2107 -Battery Management System for Electric Vehicle

(VI). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	Practical classes and Mini project can be given for minor degree students	Considered
2.	Suggested to incorporate Recent editions of Text and Reference books in the syllabus.	Considered

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

Dean Academics
Dean (Academics)
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HINDUSTHAN COLLEGE OF ENGG & TECH. CBE-32.

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 24.05.2024

The meeting of 13th Board of Studies in the ME Embedded Systems Postgraduate programme for the academic year 2024-25 was conducted on 24.05.2024 at 2.30 pm in Physical Mode with all the members present.

The following members were present:

S.No.	Name of the Member	Position
1	Dr.N.P.Ananthamoorthy Professor and Head	BoS, Chairman
2	Dr.B.Baby Priya Associate Professor Department of EEE Government College of Engineering Erode - 638 316	Anna University Nominee
3	Dr.P.Maruthapandian Associate Professor. Department of EEE Government College of technology Coimbatore	Subject Expert
4	Dr.B.Kishore Associate Professor / EEE Dr Mahalingam College of Engineering and Technology, Pollachi	Subject Expert
5	Mr.K.Gowtham Director S&G Solutions OEM Circuit Board Manufacturer Irugur Road Ondipudur,Coimbatore	Representative from Industry
6	Dr.D.Sakthivadivel Associate professor /EEE Vellore Institute of Technology ,	QS rated Institution Member
7	Dr.Sabarinathan Assistant Professor, Department of Electrical Engineering, Kongu College of Engineering Erode.	Alumini
8	Dr.K.Sekar Professor	Member
9	Dr.Mathan.K Associate Professor	Member
10	Dr R.Rajesh kanna Associate Professor	Member
11	Mr.M.P.Viswanathan Assistant Professor	Member

12	Mrs.B.Nandhini Assistant Professor	Member
13	Mr.G.Muthuram Assistant Professor	Member
14	Mr.S.Joshua Daniel Assistant Professor	Member
15	Mr.K.Saravana Kumar Assistant professor	Member
14	Mr.N.Mahesh kumar Assistant Professor	Member
15	Mr.O.Suresh P/O Ms.S.Awini SF 26 A JothiNagar, Mallumichampatt,Coimbatore	Parent Member
16	Mr.K.V.Abhishek(III EEE)	Student Member
17	Mr.S.Jayaprasanth (II EEE)	Student Member
18	Ms.S.Awini (II EEE)	Student Member

The Chairman-BoS (Dr.N.P.ananthamoorthy) welcomed all the members and also gave an outline of the institution and department along with salient features of the Curriculum.

Following points are discussed

- The Chairman -Bos Welcomed all the members for the 13th Board of studies Meeting .
- The Chaiman -BoS elaborated the Regulation 2024 Curriculum Schemes to the members and also the inclusion of Professional electives .

Recommendations by BoS members (Subject Related)

- Dr.T.Baby priya– University nominee, appreciated the Regulation 2024 curriculum and syllabus of the Semester I.

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

- The syllabi of I semester of the PG Programmes for the students admitted during the academic year 2024 - 2025 and onwards was passed and permitted to move on Academic Council

The meeting came to an end at 4.30 p.m with vote of thanks.

HINDUSTHAN COLLEGE OF ENGG & TECH. - CBE - 32.

Chairman
(Board of studies)
Chairman - BoS
EEE - HiCET

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 2022
3. Curriculum and Syllabi

Copy:

1. The Principal
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Valley Campus, Pollachi Highway, Coimbatore 641032.

Date: 16. 06. 2023

ACTION TAKEN REPORT ON BoS

Name of the Department: ELECTRICAL AND ELECTRONICS ENGINEERING

The meeting of 13th Board of Studies for Embedded Systems Postgraduate Programme of Regulation 2024 was conducted on 24.05.2024 at 2.30 pm, in Physical Mode.

(I) Syllabus Revision for the Regulations 2024: Nil

Chairman
(Board of Studies)

Chairman - BoS
EEE - HiCET

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MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Electronics and Communication Engineering** **Date: 18.06.2024**

The Fourteenth Board of Studies members for BE-Electronics and Communication Engineering for the academic year 2024-25, odd semester was conducted on 18.06.24 at 10.00am in Hybrid mode using Google meet.

The following members were present for the meeting.

S. No.	Name of the Person	Department	Position
1.	Dr.P.Vijayalakshmi Professor Hindusthan College of Engineering and Technology	ECE Dept	Chairperson
2.	Dr.G.Thirugnanam, Associate Professor, Govt. College of Technology, Coimbatore.	ECE Dept	University Nominee
3.	Dr.Vijayakumar V R, Professor, MIT, Chennai	ECE Dept	Subject Expert
4.	Dr. Ramesh J, Professor, PSG College of Technology, Coimbatore	ECE Dept	Subject Expert
5.	Dr. Prakasam P HOD, Communication Engineering, VIT, Chennai	School of Electronics Engineering	Member from QS rated Institution
6.	Mr. Dinesh S, Assistant Project Manager, Robert Bosch, Coimbatore	Assistant Project Manager	Industry Expert
7.	Mrs.Preethi N M, Senior Data Engineer, L&T Mindtree, Coimbatore	ECE Dept	Alumni
8.	Dr.B.Paulchamy, Professor, Hindusthan Institute of Technology, Coimbatore	ECE Dept	Member from sister concern

9.	Dr.K.Kalaiselvi Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member & Autonomous Coordinator
10.	Dr.P.F.Khaleelur Rahiman, Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
11.	Dr.J.Ramya Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
12.	Dr. P. K. Poonguzhali Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
13.	Ms. Vishnu Kaniska V S, II ECE B Hindusthan College of Engineering and Technology	ECE Dept	Student Member
14.	Ms. Deva Priya S, III ECE A Hindusthan College of Engineering and Technology	ECE Dept	Student Member
15.	Ms.Durga II ECE A Hindusthan College of Engineering and Technology	ECE Dept	Student Member
16.	Mr. Velumani R, F/o Vishnu Kaniska V S, II ECE B	ECE Dept	Parent Member

Chairman

(Board of Studies)

Chairman - Bos
ECE - HiCET

Dean-Academics

Dean (Academics)
HiCET

- Vision, Mission, PEO and PSO of the program are disseminated to the stack holders.
- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the Fourteenth Board of Studies meeting.
- Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous Thirteenth BoS meeting which was held on 11.12.23.
- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell & Department Advisory Committee (DAC) and emphasized the importance of including the cutting-edge technology courses as electives in the curriculum to be in line with the industry needs.
- Chairman presented the syllabus for
    - R-2022-I Semester (for the students admitted from 2024 onwards),
    - R-2022-III Semester (for the students admitted from 2023 onwards),
    - R-2022-V Semester (for the students admitted from 2022 onwards),
    - R-2019A-VII Semester (for the students admitted from 2021 onwards),
    - R-2020-III Semester (for the third semester M.E Communication Systems Students) and
    - R-2024-I Semester (for the first semester M.E Communication Systems Students)
- Chairman also presented the syllabus for Honors and Minor degree courses offered during this odd semester under R-2022 (for the students admitted from 2023&2022 onwards) d R-2019A (for the students admitted from 2021 onwards).
- Chairman gave an outline of the feedback on curriculum received from the various stakeholders in the meeting.

Regulation 2022 :

1. Dr. Ramesh J, Subject Expert suggested to include any other course instead of Telecommunication Switching Networks in Honour Vertical-II Advanced Communication Systems
2. Dr.Prakasam P, Member from QS rated Institution suggested to include ARM Processors in the course Embedded and IoT.

3. Dr.Vijay Kumar V R, Subject Expert suggested to revise in the Digital Communication both theory and Lab
4. Dr.Ramesh J, Subject Expert & Dr.Thirugnanam G, University Nominee suggested to revise the topics in the course Microprocessor and Micro Controller and revision in titles for Honor Vertical II.
5. Dr. Vijay Kumar V R, Subject Expert suggested to change the course Artificial Intelligence as Artificial Intelligence and Machine Learning and include the topics on ML.
6. All members of BoS appreciated the Honor Degree Verticals offered to students admitted in 2020-2021

Regulation 2019A:

1. Subject Expert Dr. Ramesh J, & University Nominee Dr.G.Thirugnanam, suggested revising the titles for project phase I & II.

Regulation R2022:

Chairman presented the syllabi for the Honor Degree Verticals I, II, III and the Minor Degree Courses.

Regulation R2020:

Chairman presented the syllabi for the M.E Communication Systems offered during the third semester under R-2020.

Regulation R2024:

Chairman presented and analyzed the syllabi for the M.E Communication Systems offered during the first semester under R-2024.

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Honor Degree Verticals I, II, III and the Minor Degree Courses.

	Regulation	Course Name	Name	Credits
Honor Degree Vertical 1				
Sensor Technologies and IoT				
1	R2022	22EC5305	Realtime Embedded Systems	3
2	R2022	22EC6305	Sensor for IoT applications	3
3	R2022	22EC6306	Advanced Processor Architectures	3
4	R2022	22EC7304	IOT Processors	3
5	R2022	22EC7305	Wearable Devices	3
6	R2022	22EC8301	Industrial IoT and Industry 4.0	3
Honor Degree Vertical 1I				
Advanced Communication System				
1	R2022	22EC5306	Cognitive Radio Network	3
2	R2022	22EC6307	Remote Sensing	3
3	R2022	22EC6308	Rocketry and Space Mechanics	3
4	R2022	22EC7306	Underwater Navigation Systems	3
5	R2022	22EC7307	Massive Mimo Networks	3
6	R2022	22EC8203	Advanced Wireless Communication Techniques	3
Honor Degree Vertical III				
Semiconductor Chip Design and Testing - TESSOLVE Semiconductors				
1	R2022	22EC5307	Wide Bandgap Devices	3
2	R2022	22EC6309	Validation and Testing Technology	3
3	R2022	22EC6310	Low Power VLSI	3
4	R2022	22EC7308	VLSI Testing and Design for Testability	3
5	R2022	22EC7309	Mixed Signal IC Design Testing	3
6	R2022	22EC8202	Analog IC Design	3
Minor Degree Vertical				
Embedded and IoT				
1	R2022	22EC5231	Electronics for Embedded Systems	3
2	R2022	22EC6231	Microcontroller and its Applications	3

3	R2022	22EC6232	Sensor and Embedded Systems	3
4	R2022	22EC7231	Fundamentals of IoT	3
5	R2022	22EC7232	Industrial IoT	3
6	R2022	22EC8231	IoT for Smart Systems	3

% revision in the syllabus(BE ECE)

S.No	Course code	Course name	% revision
Regulation 2022			
1	22EC5203	Microprocessor and Micro controller	20
2	22EC5201	Digital Communication	20
3	22EC5001	Microprocessors and Microcontrollers Lab	10
4	22EC5002	Digital Communication Lab	25
5	22EC6307	Artificial Intelligence and Machine Learning	25
Regulation 2019A			
6	19EC7901	Project Work I	5

Courses Introduced

S.No	Course code	Course name	% revision
1	22EC5306	Cognitive Radio Network	100
2	22EC1152	Fundamentals of Electronics and Communication Engineering	100

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% Revision in the Curriculum

Total number of courses passed in this BOS	28(regular)+(6*3=)18(Honors)+(1*6=)6 (Minor) = 52
No. of courses revised	6
% revision in courses	21 %

The following resolutions were made in the Board of Studies meeting,

Regulations 2019 with amendments:

- In almost all the courses, changes have been done as per the current needs and suggestions.
- The syllabi of VII semester courses under Regulations 2019 with amendments of B.E Electronics and Communication Engineering program for the students admitted during the academic year 2021 – 2022 and onwards was permitted to move on to Academic Council.

Regulations 2022:

- In almost all the courses, changes have been done as per the current needs.
- The syllabi for V semester courses under Regulations 2022 of B.E Electronics and Communication Engineering program for the students admitted during the academic year 2022- 2023 and onwards was permitted to move on to Academic Council.
- The syllabi for III semester courses under Regulations 2022 of B.E Electronics and Communication Engineering program for the students admitted during the academic year 2023- 2024 and onwards was permitted to move on to Academic Council.
- The syllabi for I semester course under Regulations 2022 of B.E Electronics and Communication Engineering program for the students admitted during the academic year 2024- 2025 and onwards was permitted to move on to Academic Council.
- Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

  In almost all the courses, changes have been done as per the current needs and suggestions.

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The following resolutions were made in the Board of Studies meeting

The following Syllabi was permitted to move on to Academic Council members under various regulations, after incorporating the suggestions and corrections given by BoS members.

- Syllabi for
  - R-2022-I Semester (for the students admitted from 2024 onwards),
  - R-2022-III Semester (for the students admitted from 2023 onwards),
  - R-2022-V Semester (for the students admitted from 2022 onwards),
  - R-2019A-VII Semester (for the students admitted from 2021 onwards),
  - R-2020-III Semester (for the third semester M.E Communication Systems Students) and
  - R-2024-I Semester (for the first semester M.E Communication Systems Students)

- The syllabi for Honors and Minor degree courses offered during this odd semester under R-2022 (for the students admitted from 2022 onwards), R-2019A (for the students admitted from 2021 onwards).

The meeting ended with thanks to the Chair at 12.00 P.M.

Chairman

(Board of Studies)

Chairman - Bos
ECE - HiCET

Enclose:

1. CDC Minutes
2. DAC meeting Minutes –ATR
3. Previous BoS Minutes-ATR
4. Regulation 2022
5. Curriculum and Syllabi of R2019A and R2022

Copy:

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

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Date: 18.07.24

ACTION TAKEN REPORT ON BOS

Name of the Department: BE Electronics and Communication Engineering

The Fourteenth Board of Studies meeting for BE-Electronics and Communication Engineering for the academic year 2024-25, odd semester was conducted on 15.06.24 at 10.00am in hybrid mode using Google meet link.

Recommendations & Modifications:

S. No.	Course Title	Suggestions Given	Actions Taken
Regulations 2022			
1.	22EC5203 Microprocessor and Micro controller	• Revision of Units I and V • ARM processors have to be included	Suggestions are incorporated
2.	22EC5201- Digital Communication	• Revision of Units I and III • Include topics like Passband Transmission model -Geometric Representation of signals - Generation, detection, PSD & AMP; BER	Suggestions are incorporated
3.	22EC5002- Digital Communication Lab	• Revision in discrete component experiments • Extra simulation experiments added	Suggestions are incorporated

4.	22EC6307- Artificial Intelligence and Machine Learning	• Include Machine learning oriented concepts.	Suggestions are incorporated
Regulations 2019A			
5.	19EC7901 - Project Work I	• Changes in subject title	Considered and incorporated

New Introduced Courses

S.No	Course Title	Suggestions Given	Actions Taken
1	22EC5306 Cognitive Radio Network	• Subject Expert suggested to include any other course instead of Telecommunication Switching Networks	Considered and introduced
2	22EC1152 Fundamentals of Electronics and Communication Engineering	• Subject Expert suggested to include foundation course of Electronics and Communication Engineering	Considered and introduced

CHAIRMAN
BOS/ECE
Chairman - Bos
ECE - HiCET

DEAN
ACADEMICS
Dean (Academics)
HiCET

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Date: 18.07.24

ACTION TAKEN REPORT ON BOS

Name of the Department: PG-(ME-Communication Systems)

The 12th Board of Studies meeting for BE Electronics and Communication Engineering for the academic year odd 2024-25 was conducted on 15.06.2024 at 10.00am in Hybrid mode. Google meet.

- No Modifications has been suggested in the Regulation 2020
- Anna University Syllabi followed for Regulation 2024 which was appreciated and approved by BoS members.

CHAIRMAN
BOS/ECE
Chairman - Bos
ECE - HiCET

DEAN
ACADEMICS
Dean (Academics)
HiCET

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Board of Studies Meeting
14thbos Meeting for the Academic Year 2024-2025 (Odd)
15.06.2024
ATTENDANCE

S. No.	Particulars	Signature
1	**CHAIRMAN BoS** **Dr. P. Vijayalakshmi** HOD / Dept. of ECE	P. Hay
2	**University Nominee** **Dr. Thirugnanam G** Associate Professor, Department of Electronics Engineering, Government College of Technology, Coimbatore.	G. Thi 15/6/24
3	**Subject Expert 1** **Dr.Vijayakumar V R,** Professor, Department of Electronics Engineering, Madras Institute of Technology, Chennai	15/06/24
4	**Subject Expert 2** **Dr. Ramesh J,** Professor, ECE, PSG College of Technology, Coimbatore	15/6/24
5	**Industry Expert** **Mr. Dinesh S,** Assistant Project Manager, Robert Bosch, Coimbatore	15/6/24.
6	**Member from QS rated Institution** **Dr. Prakasam P** HOD, Communication Engineering, School of Electronics Engineering, Vellore Institute of Technology, Chennai	online.
7	**Alumni** **Mrs.Preethi N M** Senior Data Engineer, L&T Mindtree, Coimbatore	15-6-2024
8	**STUDENT MEMBERS** Ms. Vishnu Kaniska V S, II ECE B	
9	Ms. Durga M, II ECE A	M. Durga
10	Ms. Deva Priya S, III ECE A	
11	**PARENT** Mr. Velumani R, F/o Vishnu Kaniska V S	online
12	SENIOR FACULTY MEMBER FROM VARIOUS SPECILISATION Dr.Kalaiselvi K, Associate Professor	K. Kalaiselvi

13	Dr.Khaleelur Rahiman P F, Associate Professor	
14	Dr.Ramya J, Associate Professor	
15	Dr.P K Poonguzhali, Associate Professor	
16	**SPECIAL INVITEE** (SISTER CONCERN - HiTECH) **Dr.B.Paulchamy** Professor & HoD, ECE Department, Hindusthan Institute of Technology, Coimbatore	

Chairman (BoS)

Chairman - Bos
ECE - HiCET

Dean + Academics

Dean (Academics)
HiCET

Principal

HINDUSTHAN COLLEGE OF ENGG & TECH ★ ACADEMIC COUNCIL ★
Chairman

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: ELECTRONICS AND INSTRUMENTATION ENGINEERING

Date:24.05.2024

The meeting of 13th Board of Studies in the Department of Electronics and Instrumentation Engineering Undergraduate programme for the academic year 2024-25 was conducted on 24.05.2024 at 10.30 am in Hybrid Mode.

The following members were present:

S.No.	Name of the Member	Position
1	Dr.B.Anand Professor and Head	BoS, Chairman
2	Dr.B.Baby Priya Associate Professor Department of EEE Government College of Engineering Erode - 638 316	Anna University Nominee
3	Dr.K.Baskaran Associate Professor & HoD Department of EEE Alagappa Chettiar Govt. College of Technology - Karaikudi – 630004	Subject Expert
4	Dr.V.Dinesh Kumar, Associate Professor & HoD, Department of EIE, Kumaraguru College of Technology, Coimbatore – 641049	Subject Expert
5	Dr.S.Tamilarasu, Technical Lead, ROBERT BOSCH, Coimbatore- 641035	Representative from Industry
6	Dr.V.Karthikeyan , Assistant Professor, Department of Electrical Engineering, National Institute of Technology, Calicut , Kerala – 673601	Member from QS Rated Institution

7	Mr.D.Deivasigamani Assistant Professor	Member& Department Autonomous Coordinator
8	Dr.M.Karpagam Professor	Member
9	Dr.P.Moniya Associate Professor	Member
10	Mr.D.Vijayanandh Assistant Professor	Member
11	Mr.R.Vinothkumar Assistant Professor	Member
12	Mr.M.Sudagar Assistant Professor	Member
13	Mrs.N.Kavitha Assistant Professor	Member
14	Mr.M.Mohammed Rafik Sr. Engineer (Technical & Quality testing) Pricol Limited, Coimbatore – 641020.	Alumni
15	Mr.S.Divakarvel P/o D.Kanishk 272, SMD complex Chinna kadai veethi st, Salem – 636001.	Parent Member
16	Mr.D.Kanishk	Student Member
17	Mr. P .S Gowtham	Student Member
18	Ms.K.Hemasri	Student Member

The Chairman-BoS (Dr.B.Anand) welcomed all the members for the 13th Board of Studies meeting.

- Chairman Introduced all the members of the newly constituted Board of Studies.
- Followed by Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held on 11.12.2023 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 13th Department Advisory Committee (DAC) related to the curriculum and Syllabus. The Board of Studies Members' suggestion has been sought in this regard.

- Chaiman, 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 (R2022) subjects with syllabus, and for Minor & Honours/Honours with specialization courses VII(R2019 (admitted in 2021) and noted the experts suggestions.
- Chairman conveyed to the members that, the Minor & Honours/Honours with specialization scheme has been implemented in R2019 (for the students admitted in 2021-22 and onwards).

Recommendations by BoS members (Subject Related)

The following recommendations put forth by the BoS Members,

- Dr.B.Baby priya– University nominee, appreciated the Regulation 2022 curriculum and syllabus for Minor & Honours / Honours with specialization courses (Sem VII)
- Dr.K.Baskaran - Subject Expert, suggested to revise the Units I, III by including Applications, Case studies topics in "22EI5201 - Industrial Instrumentation - II ".
- Chairman agreed to incorporate the above suggestions.
- Dr. K.Baskaran – Subject Expert recommended to include Recent edition of Text books and Reference books for Sem V, Honours & Minor course syllabus.
- Chairman agreed to incorporate the above suggestions.
- Dr.V.Karthikeyan– Member form QS Rated Institution, appreciated the R2022 Curriculum, Minor & Honours / Honours with specialization vertical subjects.
- Dr.K.Baskaran - Subject Expert, suggested to include Case studies , Application oriented topics in "22EI5301 - Powerplant Instrumentation " also insisted to ensure the mapping of Program outcomes 10 and 11 with PSO.
- Chairman accepted to include the above suggestions.
- Dr. V, Dinesh Kumar– Subject Expert, suggested to modify the Unit Il & III in "22EI5302 - Industrial Pollut ion Control" by replacing the following topics like"pollutant sampling, measurement techniques, Air and water pollution control equipments."
- Chairman agreed to incorporate the above suggestions.
- Industry Expert (Dr.S.Tamilarasu) appreciated the R2022 curriculum and suggested to include applications in medical imaging and security systems in "22EI5306 - Digital Image Processing", so that students can get wide knowledge on Image classification and pattern recognition.

- Chairman agreed to incorporate the above suggestions.
- Dr. V, Dinesh Kumar– Subject Expert, recommended to include additional subjects in the Honours/Honours with specialization verticals(in spite of 6 courses) so that, students can get more options to choose to enhance their basics on that corresponding domain.
- Chairman accepted and said, the suggestion is forwarded to standing committee for approval.
- In 1st Sem, R-2022 , the course "22EI1251– Fundamentals of Electrical, Electronics and Instrumentation Engineering" can be renamed as ""22EI1251– Basic Electrical and Electronics Engineering" as Theory with Lab component with modifications in Unit V.
- All members are accepted to incorporate the above course revision.
- In general, Members recommended to use standard keywords in Course Objectives & Course Outcomes for CO-PO-PSO mapping and fulfill the OBE.
- Also, members suggested to increase the Instruction Hours for Value Added Course (VAC) from 30 to 35 or 40 hours.
- Chairman informed that, the following courses can be given as Value Added Course in ODD semester and Syllabus were discussed.

  (i) 22EIVAC01 - ARDUINO Programming

  (ii) 22EIVAC02 - Virtual Instrumentation and HMI

  (iii) 21EIVAC03 - PCB Design using ORCAD
- All members are accepted for the above VAC.
- Skill Development courses introduced for member's approval
  - 21 LSZ401 –General Studies for Competitive Examinations
  - 21 LSZ402 – Human Rights, Women's Rights and Gender Equality
  - 21 LSZ403 – Indian Ethos and Human Values
  - 21 LSZ404 – Indian Constitution and Political System
  - 21 LSZ405 – Yoga for Human Excellence

- Employability Enhancement courses introduced for member's approval.
  - 22HE5071 – Soft Skills – V (Passed by S&H board)

- The Chairman, BoS and all members are accepted to incorporate the above recommendations in the syllabus.

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

- The syllabi of V semester of the UG Programmes (22HE5071 - Soft Skills -IV) 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 2024 - 2025 and onwards was passed by S&H Board of Studies and permitted to move on Academic Council.

1. Percentage of Programmes where syllabus revision was carried out in BoS:

    - Semester I: 22EI1251– Basic Electrical and Electronics Engineering (R 2022): Credit 3 (25 % of Syllabus revisions made)

2. Introduce Course:

    Following new courses are introduced(R2022) for the students admitted in the year 2022-23 and onwards (Semester V)

    - 22EI5201 – Industrial Instrumentation -II: Credit 3
    - 22EE5202 - Microprocessors and Microcontrollers : Credit 3
    - 22EI5251 - Control Systems: Credit 3
    - 22EI5001 - Industrial Instrumentation Laboratory: Credit 1.5
    - 22EE5002 - Microprocessors and Microcontrollers Laboratory: Credit 1.5
    - 22EI5301 – Power plant Instrumentation: Credit 3
    - 22EI5302 – Industrial Pollution Control: Credit 3
    - 22EI5303 – Safety Instrumented Systems: Credit 3
    - 22EI5304 – Bio-medical Instrumentation: Credit 3
    - 22EI5305 – Telemetry and Telecontrol : Credit 3
    - 22EI5306 – Digital Image Processing: Credit 3
    - 22EI5307 – Micro Electro Mechanical Systems: Credit 3
    - 22EI5308 – Wireless Instrumentation: Credit 3
    - 22EI5309 – Wearable Technology: Credit 3
    - 22EI5310 – Embedded Systems : Credit 3
    - 22EI5311 – Communication Engineering: Credit 3
    - 22EI5312 – Fundamentals of Nanotechnology and Nanoelectronics : Credit 3
    - 22EI5313 – Plant Automation and IIOT: Credit 3
    - 22EI5314 – PC based Instrumentation: Credit 3
    - 22EI5315 – Introduction to Soft Computing: Credit 3
    - 22EI5316 – Instrumentation control in Paper Industries: Credit 3
    - 22EI5317 – System Identification: Credit 3
    - 22EI5318 – Industrial Data Communication: Credit 3
    - 21EI7203/22EI7202 – IoT for Industry Automation : Credit 3
    - 21EI7204/22EI7203 – Optical sensors and photonics: Credit 3
    - 21EI7205/22EI7204 – Unit Operation and Control: Credit 3

- 21EI7206/22EI7205– Advanced Instrumentation Systems: Credit 3
- 21EI7207/22EI7206 – Machine vision system: Credit 3
- 21EI7208/22EI7207 – SCADA systems and its Applications: Credit 3
- 21EI7601/22EI7601 – Industrial Data Communication: Credit 3
- 21EI7602/22EI7602 – Power plant Instrumentation: Credit 3

The meeting came to an end at 12.30 p.m with vote of thanks.

Chairman

(Board of studies)

Chairman - BoS
EIE - HiCET

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 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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Coimbatore – 641 032

Date: 27. 05. 2024

ACTION TAKEN REPORT ON BoS

Name of the Department: ELECTRONICS AND INSTRUMENTATION ENGINEERING

The meeting of 13th board of studies of Regulation 2019& Regulation 2022 for the Department of Electronics and Instrumentation Engineering was conducted on 24.05.2024 at 10.30 am in Hybrid Mode.

(I) Syllabus Revision for the Regulations 2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1.	22EI1251– Basic Electrical and Electronics Engineering	Modified	25%

Overall Percentage of revision made in the BoS: 27.2%

(II) New Courses Introduced:

S. No	Regulation	Course Code with Name	Credits
1.	2022	22EI5201 – Industrial Instrumentation -II	3
2.	2022	22EE5202 - Microprocessors and Microcontrollers	3
3.	2022	22EI5251 - Control Systems	3
4.	2022	22EI5001 - Industrial Instrumentation Laboratory	1.5
5.	2022	22EE5002 - Microprocessors and Microcontrollers Laboratory	1.5
6.	2022	22EI5301 – Power plant Instrumentation	3
7.	2022	22EI5302 – Industrial Pollution Control	3
8.	2022	22EI5303 – Safety Instrumented Systems	3
9.	2022	22EI5304 – Bio-medical Instrumentation	3
10.	2022	22EI5305 – Telemetry and Telecontrol	3
11.	2022	22EI5306 – Digital Image Processing	3
12.	2022	22EI5307 – Micro Electro Mechanical Systems	3
13.	2022	22EI5308 – Wireless Instrumentation	3
14,	2022	22EI5309 – Wearable Technology	3
15.	2022	22EI5310 – Embedded Systems	3
16.	2022	22EI5311 – Communication Engineering	3
17.	2022	22EI5312 – Fundamentals of Nanotechnology and Nanoelectronics	3
18.	2022	22EI5313 – Plant Automation and IIOT	3
19.	2022	22EI5314 – PC based Instrumentation	3

20.	2022	22EI5315 – Introduction to Soft Computing	3
21.	2022	22EI5316 – Instrumentation control in Paper Industries	3
22.	2022	22EI5317 – System Identification	3
23.	2022	22EI5318 – Industrial Data Communication	3
24.	2022	21EI7203/22EI7202 – IoT for Industry Automation	3
25.	2022	21EI7204/22EI7203 – Optical sensors and photonics	3
26.	2022	21EI7205/22EI7204 – Unit Operation and Control	3
27.	2022	21EI7206/22EI7205– Advanced Instrumentation Systems	3
28.	2022	21EI7207/22EI7206 – Machine vision system	3
29.	2022	21EI7208/22EI7207 – SCADA systems and its Applications	3
30.	2022	21EI7601/22EI7601 – Industrial Data Communication	3
31.	2022	21EI7602/22EI7602 – Power plant Instrumentation	3

(III) Mandatory Courses:

S.No.	Course Code with Name
1.	22MC1093/ 22MC1094 - தமிழரமரபு / Heritage of Tamil
2.	22MC3191 - Essence of Indian Traditional Knowledge
3.	22HE5071- Soft Skills -IV

(IV) Non-credit Mandatory Courses:

S.No.	Course Code with Name
1.	22HE1073 - Introduction to Soft Skills (Common to all branches)
2.	22MC1095 - Universal Human Values (Common to all branches)

(V) Value Added Courses :

S.No.	Course Code with Name
1.	22EIVAC01 - ARDUINO Programming
2.	22EIVAC02 - Virtual Instrumentation and HMI
3.	21EIVAC03 - PCB Design using ORCAD

(VI). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	Suggested to incorporate Recent editions of Text and Reference books in the syllabus.	Considered
2.	Recommended to use standard keywords in Course Objectives & Course Outcomes for CO-PO-PSO mapping and fulfill the OBE.	Considered
3.	Suggested to increase the Instruction Hours for Value Added Course (VAC) from 30 to 35 or 40 hours	Considered
4.	Recommended to include additional subjects in the Honours/Honours with specialization verticals (irrespective of 6 courses) so that, students can get more options to choose to enhance their basics on that corresponding domain.	Forwarded to Standing Commitee

Chairman
(Board of Studies)

Chairman - BoS
EIE - HiCET

DEPARTMENT OF INFORMATION TECHNOLOGY

MINUTES OF BOARD OF STUDIES MEETING

Date: 18.05.2024

The Fourteenth Board of Studies meeting for the department of Information Technology for the academic year 2024 -2025 ODD Semester was conducted on 18.05.2024 at 12.00 p.m. in Hybrid mode.

The following members were present:

S. No.	Name of the Member	Position
1	**Dr. Sabrigiriraj M** Professor and Head Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Chairman
2	**Dr. Karpagam G R** Professor, Department of Computer Science and Engineering, PSG College of Technology, Coimbatore	University Nominee
3	**Dr. Ponnusamy R** Professor and Dean, Department of Computer Science and Engineering, Chennai Institute of Technology, Chennai	Subject Expert
4.	**Dr. Anantha Narayanan V** Associate Professor, Dept of CSE, Amrita Vishwa Vidyapeetham, Coimbatore	Subject Expert
5.	**Dr. Goh Wei Wei** Associate Professor and Head, School of Computer Science, Taylors University, Malaysia	QS rated institution member
6.	**Mr. Rajavel P.** Senior Technical Specialist, Sony India, Bangalore	Industry Expert

7	**Mr. Deepan Kumar S** Advanced Technical leader, Delphy Automotive, Bangalore	Alumni
8	**Dr. DuraiPandian M** Professor and HoD Department of Information Technology, Hindusthan Institute of Technology, Coimbatore-641032	Member from sister concern
9	**Dr. Rajiv Suresh Kumar G** Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
10	**Dr. Ganesan M** Assistant Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
11	**Ms Revathi P** Associate Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	BoS Coordinator
12	**Ms. Yamuna N** Assistant Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
13	**Ms. SakthiSree T** Assistant Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
14	**Mr. Ilayaraja N** Assistant Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
15	**Mr. Ajay Kumar V** Student (IV Year-IT) Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
16	**Mr. Irshad M Y** Student (IV Year-IT) Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member

17	**Mr. Jegan K** Student (III Year-IT) Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
18	**Mr. Jayachandran. V** Parent Member Associate Consultant(C3B), Tata Consultancy Services, Branch: Chennai , Thorraipakkam, Chennai.	Parent Member

- Dr. M. Sabrigiriraj, Chairman, Board of Studies, welcomed the University nominee, Subject experts, Industry Experts, Special Invitees and all the internal members for the Fourteenth Board of Studies meeting.

- Followed by it, Chairman recalled the suggestions given by the experts during the Previous BoS meeting, which was held on 09.12.2023 along with the action taken report and was approved.

- The analysis of feedback received on the curriculum from the stakeholders was presented.

- Chairman also gave an outline of the changes made in the curriculum given by the Curriculum Development Cell (CDC) & Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC) and emphasized the importance of including the Skill Development related courses in the curriculum to be in line with the industry needs.

- The Chairman then presented the R2019 Curriculum and Syllabus for the batch 2021, followed by R2022 Curriculum and Syllabus for the batches 2022, 2023, 2024 incorporating the recommendations proposed by various Stakeholders. The following were included in the presentation:
  - Scheme of Regulation 2022 for the academic 2024-2025
  - Syllabus passed in the S&H board was presented for the consent.
  - Curriculum and Syllabus for courses in R2022.
  - Syllabus for the courses of the Third semester.
  - Syllabus for the courses of fifth semester including Professional Electives, Honours and Minor courses.
  - Regulation 2019 Curriculum of the Seventh semester.
- Value added course proposed for the forthcoming third semester and fifth semester students was presented and was approved.
- *For **2021-2025** batch students, the following courses has been introduced or revised*

1. 21IT7202 – Data Science and Analytics course is revised by 20% in the semester VII with 3 credits
2. 21IT7002 - Data Analytics Laboratory course is revised by 20% for the semester VII with 1.5 credits.
3. 21IT7205 – Applied Natural Language Processing (Hons) is a theory course and it is introduced as new course in semester VII with credit 3.
4. 21IT7206 – Ethics and Artificial Intelligence (Hons) is a theory course and it is introduced as new course in semester VII with credit 3.
5. 1IT7204 – Big Data with Security Theory course is introduced as new course in semester VII with credit 3 (IBM).
6. 21IT7003 - Big Data with Security Laboratory is introduced as new course in semester VII with credit 1.5 (IBM).

- For **2022-2026** batch students, the following Professional Elective courses were introduced and was approved.

Vertical I Data Science	**Vertical II Full Stack Development for IT**	**Vertical III Cloud Computing and Data Centre Technologies**	**Vertical IV Internet of Things**	**Vertical V Creative Media**	**Vertical VI Emerging Technologies**
22IT5301 Exploratory Data Analysis	**22IT5304** Software Testingand Automation	**22IT5307** Data Warehousing and Data Mining	**22IT5310** Smart Cities	**22IT5313** Multimedia Data Compression and Storage	**22IT5316** Augmented Reality
22IT5302 Recommender Systems	**22 IT5305** UI and UXDesign	**22IT5308** Virtualization	**22IT5311** IoT Architectures and Protocols	**22IT5314** Multimedia and Animation	**22IT5317** Cyber Security
22IT5303 Computer Vision	**22IT5306** Cloud Services Management	**22IT5309** Cloud Computing	**22IT5312** Industry 4.0	**22IT5315** Digital Marketing	**22IT5318** Tamil Computing

- 22IT5252 – Business Intelligence is introduced as new course in semester V with credit 3 (IBM).

The following are the recommendations put forth by the BoS members:

1. Dr. Karpagam G R. University Nominee suggested to have courses like Devops and coding standards in the curriculum so as to train students and they would be updated in latest industrial courses.
2. Dr. Ponnusamy R., Subject Expert suggested to motivate students to enroll for NPTEL courses and industry certified courses so that students can learn more through video on demand, and it would be very beneficial for the students placements.
3. All member of BoS insisted to give more attention to courses on programming languages and recommended to offer value added courses on programming languages

to update the students and make students to have good knowledge on programming languages.

4. Dr. Anantha Narayanan V., subject expert insisted to include more placement oriented courses and Industry Expert Mr.Rajvel, recommended to offer Artificial Intelligence and Machine Learning related courses to the students.

The following resolutions were made in the Board of Studies meeting,

- The curriculum and syllabus for the VII semester for the students admitted during the academic year 2021 was passed and permitted to move on to Academic Council by the BoS members of Information Technology.
- The curriculum and syllabi of R2019 with revision and updation for the VII semester Courses for the students admitted during the academic year 2021 was passed and permitted to move on to Academic Council by the BoS members of Information Technology.
- Online certificate courses and value added courses undergone by the students were recommended for the additional credit and were passed and permitted to move on to Academic Council by the BoS members of Information Technology.
- As discussed about the importance of online courses in the last Pre - BoS/ DAC meeting, students have completed online certificate course during the month of April/May 2024. BoS Members recommended and suggested to move on to Academic Council.

The meeting ended with thanks to the Chair at 1.00 PM.

Chairman
(Board of studies)
Chairman - BoS
IT - HiCET

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 2022 Curriculum and Syllabi

Copy:

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

DEPARTMENT OF INFORMATION TECHNOLOGY

BOS MEMBERS

S. No.	Name of the Member	Position
1	**Dr Sabrigiriraj M** Professor and Head Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Chairman
2	**Dr Karpagam G R** Professor, Department of Computer Science and Engineering, PSG College of Technology, Coimbatore	University Nominee
3	**Dr Ponnusamy R** Professor and Dean, Department of Computer Science and Engineering, Chennai Institute of Technology, Chennai	Subject Expert
4.	**Dr Anantha Narayanan V** Associate Professor, Dept of CSE, Amrita Vishwa Vidyapeetham, Coimbatore	Subject Expert
5.	**Dr Goh Wei Wei** Associate Professor and Head, School of Computer Science, Taylors University, Malaysia	QS rated institution member
6.	**Mr Rajavel P.** Senior Technical Specialist, Sony India, Bangalore	Industrial Expert
7	**Mr Deepan Kumar S** Advanced Technical leader, Delphy Automotive, Bangalore	Alumni
8	**Dr DuraiPandian M** Professor and HoD Department of Information Technology, Hindusthan Institute of Technology, Coimbatore-641032	Member from sister concern
9	**Dr Rajiv Suresh Kumar G** Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member

10	**Mr. M. Ganesan** Assistant Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
11	**Ms Revathi P** Associate Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	BoS Coordinator
12	**Ms. N. Yamuna** Assistant Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
13	**Ms. T SakthiSree** Assistant Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
14	**Mr. N. Ilayaraja** Assistant Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
15	**Mr. Ajay Kumar V** Student (IV Year-IT) Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
16	**Mr. Irshad M Y** Student (IV Year-IT) Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
17	**Mr. K. Jegan** Student (III Year-IT) Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
18	**Mr. Jayachandran. V** Parent Member Associate Consultant(C3B), Tata Consultancy Services, Branch: Chennai One, Thorraipakkam, Chennai.	Parent Member

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Date: 24. 05. 2024

ACTION TAKEN REPORT ON BoS

NAME OF THE DEPARTMENT: INFORMATION TECHNOLOGY

The fourteenth Board of Studies meeting for the Department of Information Technology offering B.Tech Programme in Information Technology was conducted on 18.05.2024 at 12.00 pm, in Hybrid Mode. The meeting was convened to finalize the curriculum and syllabi for first semester, third semester and fifth semester under regulations R2022 and seventh semester under Regulations R2019 with amendments.

(i) Syllabus Revision for the courses under Regulations 2019

S. No	Courses proposed with syllabus revision	Action taken	Percentage of Syllabus Revised
1	21IT7202 – Data Science and Analytics	Accepted	20%
2	21IT7002 - Data Analytics Laboratory	Accepted	20%

Overall Percentage of revision made in the courses under R2019: 20%

(ii) New Courses Introduced:

S. No	Regulation	Course Code with Name	Credits
1	2019	21IT7205 – Applied Natural Language Processing (Hons)	3
2	2019	21IT7206 – Ethics and Artificial Intelligence (Hons)	3
3	2019	21IT7204 – Big Data with Security (IBM track)	3
4	2019	21IT7003 - Big Data with Security Laboratory (IBM track)	1.5
5	2022	22IT5301 - Exploratory Data Analysis	3
6	2022	22IT5302 - RecommenderSystems	3
7	2022	22IT5303 - ComputerVision	3
8	2022	22IT5304 - Software Testingand Automation	3
9	2022	22 IT5305 - UI and UXDesign	3
10	2022	22IT5306 - Cloud Services Management	3
11	2022	22IT5307 - Data Warehousing and Data Mining	3

12	2022	22IT5308 - Virtualization	3
13	2022	22IT5309 - Cloud Computing	3
14	2022	22IT5310 – Design of Smart Cities	3
15	2022	22IT5311- IoT Architectures and Protocols	3
16	2022	22IT5312 - Industry 4.0	3
17	2022	22IT5313 - Multimedia DataCompression and Storage	3
18	2022	22IT5314 -Multimedia andAnimation	3
19	2022	22IT5315 - Digital marketing	3
20	2022	22IT5316 - Augmented Reality	3
21	2022	22IT5317 - Cyber security	3
22	2022	22IT5318 - Tamil Computing	3
23	2022	22IT5252 – Business Intelligence (IBM track)	3

(iii) The following recommendations given by stakeholders were considered and Incorporated and is summarized below:

S. No	Suggestion Given by the BoS Experts	Action Taken
1	Dr. Karpagam G R. University Nominee requested to have courses like Devops and coding standards in the curriculum so as to train students and they would be updated in latest industrial courses.	Course will be included as an elective in 6th semester
2	Dr. Ponnusamy R Subject Expert suggested to include NPTEL courses and industry certified courses in curriculum so that students can learn more through videos and it would be very beneficial for the student's placements.	It is a regular practice in the department to encourage students to undergo NPTEL courses and apply for credit transfer. Currently, Fourth semester students have enrolled and appeared for examination in NPTEL course on Cloud Computing. Students will be motivated and facilitated to undergo industry certified courses in future.
3	All member of Board of studies insisted to concentrate more on programming language's and recommended to have few value added courses on programming language to update the	It was presented to the members of BoS that we have atleast 1or 2 programming related course for every semester from first semester

	students and make students to have good knowledge on programming languages.	to 4th semester and the members accepted for it.
4	BOS subject experts Dr. Anantha Narayanan V insisted about placement oriented courses.	It was informed to BoS members that it is a regular practice in our institution of offering a value added course every year focusing on programming skills
5.	Industry Expert Mr.P. Rajavel, recommended to insist the importance of Artificial Intelligence and Machine Learning to the students.	It was brought to the notice of BoS members that a honors degree is offered with specialization in Artificial Intelligence and Machine learning

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

Dean Academics
Dean (Academics)
HiCET

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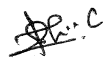
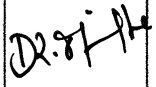
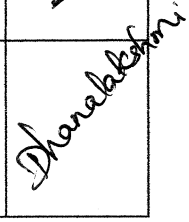
DEPARTMENT OF BIOMEDICAL ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: BIOMEDICAL ENGINEERING Date: 15.06.2024

The eleventh Board of Studies meeting of Regulation 2022 for the Academic Year 2024-2025,Even Semester was conducted on 15.06.2024 at 11:30 A.M. in Library Board Room in hybrid mode, Hindusthan College of Engineering and Technology and the Google Meet Link https://meet.google.com/hjw-ifsy-out
The following members were present

S.No	Name of the Person	Department	Position	Signature
1.	Dr. S. Saravanasundaram Professor and Head Department of Biomedical Engineering HICET	Biomedical Engg	Chairman	
2.	Dr.T.Murugeswari,Assoc	Assoc Professor/BME	Department of Biomedical Engineering	
3.	Dr.M.Ganga,	Assoc Professor/BME	Department of Biomedical Engineering	
4.	Mrs.S. Shobha Christila,	Assistant Professor	Department of Biomedical Engineering	

5.	Mrs M Deeparani,	Assistant Professor	Department of Biomedical Engineering	
6.	Mrs.M.Kirthika, , Assistant Professor Department of Biomedical Engineering HICET	Assistant Professor	Department of Biomedical Engineering	
7.	Ms.Sella Dharshini C Assistant Professor Department of Biomedical Engineering HICET	Assistant Professor	Department of Biomedical Engineering	
8.	Ms.Nivedha D.R Assistant Professor Department of Biomedical Engineering HICET	Assistant Professor	Department of Biomedical Engineering	
9.	Ms.Patricia Nancy S Assistant Professor Department of Biomedical Engineering HICET	Assistant Professor	Department of Biomedical Engineering	
10	Mr.Devasivagami Assistant Professor Department of Biomedical Engineering HICET	Assistant Professor	Department of Biomedical Engineering	
11	Ms.Dhivya R Assistant Professor Department of Biomedical Engineering HICET	Assistant Professor	Department of Biomedical Engineering	
12	Ms.Dhanalakshmi Assistant Professor Department of Biomedical Engineering HICET	Assistant Professor	Department of Biomedical Engineering	

- Due to his/ her preoccupied schedule ___Looi Chung Yeng_____ not attend the meeting.

- The chairman of the BoS, **Dr. S. Saravanasundaram** welcomed all the dignitaries for the meeting. **Chairman / Chairperson** introduced the BoS members.
- The feedback received on the curriculum by the stakeholders was presented.

- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell (CDC) & Pre-Board of studies (Pre-BoS)/ Department Advisory Committee (DAC).
- The **Chairman / Chairperson** presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during 19.05.2023 was approved.
- **Chairman / Chairperson** also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell (CDC) & Department Advisory Committee (DAC) and emphasized the importance of including the employability enhancement courses, life skill, soft skill, design thinking and IPR related courses in the curriculum to be in line with the industry needs.

- Chairman presentation of revision/updation.
- Any other approval from the members
- Completed and current semester value-added courses.
- The curriculum and syllabus for the new courses

Also,

The following are the recommendations put forth by the BoS members,

- Curriculum under R2022
- Syllabus for the courses of the I, III, V and VII semester (Under R2022, R2019 with amendments)
- Revisions in the courses for the existing batch students (R2022, R2019 with amendments)
- R22 Curriculum is designed in such a way that its inline with CO,PO,PSO & PEO.
- Syllabus for the courses of Honour and Minor Degree Program
- Introduction of value added course

- Academic Expert (Dr.Suba Hency Jose) suggested that Embedded system and IoMT theory syllabus internet of things concept may be added.
- University Nominee (Dr.G.Thirugnanam) suggested Embedded system and IoMT theory syllabus first unit content may be reduced.
- Academic Expert (Dr.Suba Hency Jose) Embedded system and IoMT theory syllabus I2C protocol and Zigbee concept may be included.
- University Nominee (Dr.G.Thirugnanam)Introduction to Biomedical Engineering syllabus content may be revised.
- Academic Expert (Dr.Suba Hency Jose)Bio control system CO may be modified and . Remove

mathematical modeling concept in CO1.Stability is included for frequency domain also. But in COs, it is mentioned only for time domain.

- University Nominee (Dr.G.Thirugnanam) CO s can be in simple Statements (not as compound statements)
- Industry Expert (Dr.N.Nandakumar) Biomechanics subject syllabus Comsol software concept may be included.
- Alumni member(Ms.Akshara) latest biomedical equipment's topic can be included in the curriculum.
- Academic Expert (Dr.Suba Hency Jose) Text book for Physiological modeling can be replaced by book of Author Michel C Khoo text book.
- Special Invitee (Sister Concern -HiCAS) Recent publication text books may be considered.
- Special Invitee (Sister Concern -HiCAS) CO and Course objective of all subjects can be verified.

The following resolutions are made in the Board of Studies meeting:

- In almost all the courses, changes have been done as per the current needs.
- In Sem - I R2022, the following subject 22BM1151-Introduction to Biomedical Engineering is introduced in the curriculum and permitted to move on Academic Council by the BoS members of Biomedical Engineering for the students admitted during the Academic Year 2024-2025 onwards
- In Sem - I R2022, the following subject 22CY1151-Chemistry For Biomedical Engineering were introduced and passed by S&H board and permitted to move on Academic Council by the BoS members of Biomedical Engineering for the students admitted during the academic year 2024-2025 onwards.
- In Sem - I R2022, the following subject 22IT1151R-Python Programming And Practices were introduced and passed by IT board and permitted to move on Academic Council by the BoS members of Biomedical Engineering for the students admitted during the academic year 2024-2025 onwards.
- The Curriculum and Syllabus of Regulation 2022 for the V Semester Subjects- 22HEXXX Softskills-4 were introduced and passed by MBA board and permitted to move on Academic Council by the BoS members of Biomedical Engineering for the students admitted during the academic year 2022-2023 onwards.
- Chairman conveyed that, the Suggestions given by the Board of Studies members are to be incorporated in Regulation 2022.

- Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

1. **<<if Department specific Board of Studies resolutions/Common Suggestions: >>**
   - Panel Members Suggested more new courses can be introduces in the new regulation which can be useful for placement and higher studies.

The meeting came to an end at 4 pm with vote of thanks.

Chairman / Chairperson(B o S)

Chairman - BoS
BME - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. 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 Copy

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Date:21. 06. 2023

ACTION TAKEN REPORT ON BoS

Name of the Department: BIOMEDICAL ENGINEERING

The Eleventh Board of Studies meeting of Regulation 2022 for the Academic Year 2024-2025,ODD Semester was conducted on 15.06.2023 at 11:00 A.M. in Library Board Room in hybrid mode, Hindusthan College of Engineering and Technology and the Google Meet Link https://meet.google.com/hjw-ifsy-out

(I) Syllabus Revision for the Regulations 2019

S .No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	-NA-		

(II) New Course Introduced:

S. No	Regulation	Course Code	Course Name	Credits
1.	2022	22BM1151	Introduction to Biomedical Engineering	3
1.		22BM5201	Embedded Systems and IoMT	3
2.		22BM5301	Bio materials and Artificial Organs	3
3.		22BM5311	Bio MEMS and Nanotechnology	3
4.		22BM5313	Bio control systems	3
5.		22BM5251	Virtual Instrumentation for Biomedical Signals using Lab VIEW.	4
6.		22BM5252	Biomechanics	4

7.		22BM5001	Embedded Systems Lab	4
8.		22HE5071	Soft Skills -4/Foreign languages	1

Number of Courses Revised: 8
Total Number of Courses Passed: 24
The Percentage of Course Revised: 32%

Mandatory Courses

S.No.	Course Code with Name
1.	22HE1072 ENTREPRENEURSHIP & INNOVATION (Common to all branches)
2.	22MC1093/ 22MC1094 தமிழர்மரபு / HERITAGE OF TAMIL
3.	22HE1073 INTRODUCTION TO SOFT SKILLS (Common to all branches)

(III) Non-credit Mandatory Courses

S.No.	Course Code with Name
1	22MC1095 Universal Human Values (Common to all branches)
	22MC3191 Value education Essence of Indian Traditional Knowledge

(IV) EEC Courses (SE/AE) Courses

S .No.	Course Code with Name
1.	22HE3071-Soft Skills-2
2.	22HE5071-Soft Skills -4/Foreign languages

(V) The following recommendations given by stakeholders are considered and incorporated.

(VII). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	Recent publication text books may be considered.	Considered

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

Dean Academics

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TÜVRheinland CERTIFIED

Date: 18.05.2024

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **AIML**

The 9th Board of Studies meeting of regulation R2019 & R2022 for the academic year 2024 -2025 Odd Semester was conducted on 18.05.2024 at 11.00 a.m. in Hybrid mode, Hindusthan College of Engineering and Technology. (Google Meet: meet.google.com/vkk-mdwf-yjs).

The following members were present:

S. No.	Name of the Member	Position
1	**Dr Shankar S** **Professor & HOD** Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Chairman
2	**Dr. G. R. Karpagam,** Professor, Department of Computer Science and Engineering, PSG College of Technology, Coimbatore grk.cse@psgtech.ac.in	Anna University Nominee
3	**Dr Mohanapriya M , M.E., Ph.D.,** Associate Professor / CSE Coimbatore Institute of Technology,Coimbatore. mohanapriya.m@cit.edu.in	Subject Expert
4	**Dr. G. Shobana M.E.,Ph.D** Associate Professor / IT Sri Krishna College of Engineering and Technology, Coimbatore	Subject Expert
5	**Dr Prakash P** Associate Professor School of Computer Science and Engineering, VIT Chennai.	Member from QIS rated Institution
6	**Mr.M.Dinesh Raja,** Managing Director, Haqto Technologies, Coimbatore	Meritorious Alumni & Industry Expert

7	**Dr .Jameer Basha A** **Professor & HOD** Department of Computer Science and Engineering, Hindusthan Institute of Technology	Member from sister concern
8	**Dr Satheesh Kumar D** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Autonomous Coordinator & BoS Member
9	**Ms.Sathya S** Assistant Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Autonomous Coordinator & BoS Member
10	**Dr. S. Dhanabal,** Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Senior Faculty Member
11	**Dr. Jayaraj R** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Senior Faculty Member
12	Mr. Olakanathan G 720721115036 – IV AIML Department of AIML Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
13	Mr. Dhanush A 720722115015 - III AIML Department of AIML Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
14	Mr. Ganeshkumar.g Parent Member F/o. Mr. Olakanathan G 720721115036 - IV AIML	Parent Member
15	Mr. R.Arumugam Parent Member F/o. Mr. Dhanush A 720722115015 - III AIML	Parent Member

- Dr.S.Shankar, Chairman, Board of Studies, welcomed the University nominee, Subject experts, Special Invitees and all the internal members for the ninth 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 during **09.12.2023**,was approved.

- The feedback received on the curriculum by the stakeholders was presented.

- Chairman gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell (CDC) & Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC) and emphasized the importance of including the employability enhancement courses, soft skills, and IPR related courses in the curriculum to be in line with the industry needs.

- Chairman presented the Semester VII (R2019 -admitted in 2021) subjects with syllabus for Minor & Honours/Honours with specialization, and noted the experts suggestions.
- The curriculum and syllabi of First, Third and Fifth semester subjects is discussed for 2022 regulation.

The following are the recommendations put forth by the BoS members,

- Curriculum under R2022
- Syllabus for the courses of the I, III, V and VII semester (Under R2022, R2019 with amendments)
- Revisions in the courses for the existing batch students (R2022, R2019 with amendments)
- R2022 Curriculum is designed in such a way that its inline with CO, PO, PSO & PEO.
- Syllabus for the courses of Honours and Minor Degree Program
- Introduction of value added course

*For **2021-2022** batch students, the following courses has been introduced or revised*

1. 21AI7601 - Introduction to Robotics course is introduced as new Minor degree course in the semester VII with 3 credits.
2. 21AI7602 - Foundations of Data Analytics course is introduced as new Minor degree course in the semester VII with 3 credits.
3. 21AI7204 - Human-Robot Interaction course is introduced as new Honours degree course in the semester VII with 3 credits

4. 21AI7205 - Medical Robotics course is introduced as new Honours degree course in the semester VII with 3 credits.
5. 21AI7206 - Smart Contracts and Solidity course is introduced as new Honours degree course in the semester VII with 3 credits.
6. 21AI7207 - Block chain and distributed ledger technology course is introduced as new Honours degree course in the semester VII with 3 credits.
7. 21AI7208 - CPS for Internal and External Security course is introduced as new Honours degree course in the semester VII with 3 credits.
8. 21AI7209 - Biomedical Instrumentation for Cyber Physical Systems course is introduced as new Honours degree course in the semester VII with 3 credits.

- *For **2022-2023** batch students, the following courses has been introduced or revised*
- 22AI5201 - Machine Learning Techniques & Tools course is a theory course and it is introduced as new course in semester V with credit 3

  Professional Elective courses with various domains like Data science, Generic AI, Cloud computing, Cyber security and data Privacy, Computer vision and AR/VR, Full Stack Development domains is a theory course and it is introduced as new course in semester V with credit 3.

- *For **2023-2024** batch students, the same courses has been forwarded*

Skill Development courses introduced for member's approval

- 22HE1072-Entrepreneurship & Innovation (Passed by S&H board)

Employability Enhancement courses introduced for member's approval.

- 22HE1073- Introduction To Soft Skills (Passed by S&H board)
- 22HE3071 – Soft Skills – 2 (Passed by S&H board)
- 22HE5071 – Soft Skills – 4 (Passed by S&H board)

The following are the recommendations put forth by the BoS members,

1. The subject expert Dr.Mohanapriya Suggested to include CHAT GPT and tools as case study in unit-5 in the Natural Language Processing (PE) syllabus.
2. The Industry expert Ramakrishna Rama Suggested to include topics like Hub, Switches, Router, Gateway in Unit-1 and Mobile Networks as case study in unit-5 in Computer Networks Course

3. Dr.Karpagam G.R , Anna University Nominee Suggested to include scenario based questions in lab component courses.
4. The subject expert Shobana Suggested to introduce new Vertical "Generic AI" instead of "Emerging Technology vertical " in professional elective domains
5. The industry expert Dinesh Raja Suggested to introduce "Game Programming "Subject in the Computer Vision Domain (PE)
6. Value added course is introduced in every semester, which includes various courses for the students to enhance their technical skills.

Value added course	Name of the Course
23AIV03	Real Time Application Development Using Python
22AIV05	Mobile Application Development Using Android
21AIV07	Web Application Development Using Java

General Recommendations:

1. Dr .Karpagam,Anna University Nominee appreciated for including industrial oriented courses and agreed that students would be surely benefitted and suggested to provide sufficient time to students to complete the courses.
2. In general, the members suggested ensuring mapping of Course objectives and Course outcomes with course contents.

The Chairman, BoS and all members accepted to incorporate the above in the curriculum.

The following resolutions were made in the Board of Studies meeting,

- The curriculum and syllabi of 2019 Regulation with Amendments for the VII semester was passed by the AIML board and permitted to move on Academic Council by the BoS members of AIML for the students admitted during the academic year 2021 - 2022 and onwards.
- The curriculum and syllabi of 2022 Regulation for the V semester Courses, Elective, Minors, Honors subject were introduced and passed by AIML board and permitted to move on Academic Council for the students admitted during the academic year 2022 - 2023 onwards.
- The curriculum and syllabi of 2022 Regulation for the III semester Courses were passed by the AIML board and permitted to move on Academic Council for the students admitted during the academic year 2023 - 2024 onwards.
- The Curriculum and Syllabus of Regulation 2022 for the I Semester Subjects-22MAXXX, 22CHXXX, 22HEXXX, and 22MCXXX were introduced and passed by Science and Humanities board and permitted to move on Academic

Council for the students admitted during the academic year 2024-2025 onwards.

- Chairman conveyed that, the Suggestions given by the Board of Studies members are to be incorporated in Regulation 2022.
- Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved

1. **<<if Department specific Board of Studies resolutions/Common**

Suggestions: >>

- Panel Members Suggested more new courses can be introduces in the new regulation which can be useful for placement and higher studies.

The meeting came to an end at 12 Pm with vote of thanks.

Chairman

(Board of studies)

Chairman - BoS
AIML - HiCET

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 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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TÜVRheinland CERTIFIED

Date: **18.05.2024**

ACTION TAKEN REPORT ON BoS

Name of the Department: **AIML**

The 9th Board of Studies meeting of regulation R2019 & R2022 for the academic year 2024 -2025 Odd Semester was conducted on 18.05.2024 at 10.00 a.m. in Hybrid mode, Hindusthan College of Engineering and Technology.

(Google Meet: meet.google.com/vkk-mdwf-yjs).

(I) Syllabus Revision for the Regulations 2019 & 2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	Computer networks	Introduced	20%
2	Machine Learning	Introduced	100%

Overall Percentage of revision made in the BoS: 38%

(II) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1	2019	21AI7601 - Introduction to Robotics	3
2	2019	21CS7602 - Foundations of Data Analytics	3
3	2019	21AI7204 - Human-Robot Interaction	3
4	2019	21AI7205 - Medical Robotics	3
5	2019	21AI7206 - Smart Contracts and Solidity	3
6	2019	21AI7207 - Block chain and distributed ledger technology	3
7	2019	21AI7208 - CPS for Internal and External Security	3
8	2019	21AI7209 - Biomedical Instrumentation for Cyber Physical Systems	3
9	2022	22AI5201 - Machine Learning Techniques & Tools	3

(VI) The following recommendations given by stakeholders are considered and incorporated.

1. The subject expert Dr.Mohanapriya Suggested to include CHAT GPT and tools as case study in unit-5 in the Natural Language Processing (PE) syllabus.
2. The Industry expert Ramakrishna Rama Suggested to include topics like Hub, Switches, Router, Gateway in Unit-1 and Mobile Networks as case study in unit-5 in Computer Networks Course
3. Dr.Karpagam G.R , Anna University Nominee Suggested to include scenario based questions in lab component courses.
4. The subject expert Shobana Suggested to introduce new Vertical "Generic AI" instead of "Emerging Technology vertical " in professional elective domains
5. The industry expert Dinesh Raja Suggested to introduce "Game Programming "Subject in the Computer Vision Domain (PE)

(VII). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1	1.Dr .Karpagam,Anna University Nominee appreciated for including industrial oriented courses and agreed that students would be surely benefitted and suggested to provide sufficient time to students to complete the courses.	Incorporated
3	2.In general, the members suggested ensuring mapping of Course objectives and Course outcomes with course contents.	Incorporated

Chairman
(Board of Studies)

Dean Academics

Chairman - BoS
AIML - HiCET

Dean (Academics)
HiCET

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Date: 18.05.2024

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING(CYBER SECURITY)

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **COMPUTER SCIENCE AND ENGINEERING(CYBER SECURITY)**

The 1st Board of Studies meeting of regulation R2022 for the academic year 2024 - 2025 Odd Semester was conducted on 18.05.2024 at 12.00 p.m. in Hybrid mode, Hindusthan College of Engineering and Technology. (Google Meet: meet.google.com/vkk-mdwf-yjs).

The following members were present:

S. No.	Name of the Member	Position
1	**Dr Shankar S** **Professor & HOD** Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Chairman
2	**Dr. G. R. Karpagam,** Professor, Department of Computer Science and Engineering, PSG College of Technology, Coimbatore grk.cse@psgtech.ac.in	Anna University Nominee
3	**Dr. D. Karthika Renuka, M.E., Ph.D, Post Doc(USA) ,INDO-US WISTEMM FELLOW** Associate Dean - Students Welfare, Professor - Department of IT, PSG College of Technology ,Coimbatore - 641 004 9976128726 dkr.it@psgtech.ac.in	Subject Expert
4	**Dr. D Sivaganesan** Professor / CSE PSG Institute of Technology and Applied Research, sivaganesan@psgitech.ac.in 9942237029	Subject Expert
5	**Dr Surendiran B** Associate Professor Dept of Computer Science and Engineering, National Institute of Technology, Puducherry.	Member from QIS rated Institution
6	**Mr. Ramakrishna Rama,** Principal Director,	Industry Expert

	Microsoft Corporation , Bengaluru.	
7	**Mr.M.Dinesh Raja,** Managing Director, Haqto Technologies, Coimbatore	Meritorious Alumni & Industry Expert
8	M.Balamukesh 7338920527 bala.mukesh@gmail.com	Alumni
9	**Dr .Jameer Basha A** **Professor & HOD** Department of Computer Science and Engineering, Hindusthan Institute of Technology	Member from sister concern
10	**Dr Satheesh Kumar D** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Autonomous Coordinator & BoS Member
11	**Ms.Sathya S** Assistant Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Autonomous Coordinator & BoS Member
12	**Dr. S. Uma,** Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Senior Faculty Member
13	**Mr Mahesh D** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Senior Faculty Member
14	**Mr. Dhanaselvan J U** 720721104076 - IV BE CSE B Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
15	**Mr. Sri Prasanna S** 720722104169 - III BE CSE C Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
16	**Mr. Jayaprakash.T** Parent Member F/o. **Mr. Dhanaselvan J U** 720721104076 - III BE CSE B	Parent Member

17	**Mr. Sakthivel.E** Parent Member F/o, **Mr.Sri Prasanna S** 720722104169 - II BE CSE C	Parent Member

- Dr.S.Shankar, Chairman, Board of Studies, welcomed the University nominee, Subject experts, Special Invitees and all the internal members for the1st Board of Studies meeting.

- The feedback received on the curriculum by the stakeholders was presented.
- The curriculum and syllabi of First semester subjects is discussed for 2022 regulation.

The following are the recommendations put forth by the BoS members,

- Curriculum under R2022
- Syllabus for the courses of the I semester (Under R2022
- R2022 Curriculum is designed in such a way that its inline with CO, PO, PSO & PEO.

The following are the recommendations put forth by the BoS members,

1. Dr.Karpagam G.R , Anna University Nominee Suggested to include cyber security essentials as a program core course

General Recommendations:

1. In general, the members suggested ensuring mapping of Course objectives and Course outcomes with course contents.

The Chairman, BoS and all members accepted to incorporate the above in the curriculum.

The following resolutions were made in the Board of Studies meeting,

- The Curriculum and Syllabus of Regulation 2022 for the I Semester Subjects-22MAXXX, 22CHXXX, 22HEXXX, and 22MCXXX were introduced and passed by Science and Humanities board and permitted to move on Academic Council for the students admitted during the academic year 2024-2025 onwards.
- Chairman conveyed that, the Suggestions given by the Board of Studies members are to be incorporated in Regulation 2022.

1. **<<if Department specific Board of Studies resolutions/Common Suggestions: >>**

   - Panel Members Suggested more new courses can be introduces in the new regulation which can be useful for placement and higher studies.

The meeting came to an end at 1 pm with vote of thanks.

Chairman

(Board of studies)

Enclosure:

1. Regulation 2022
2. 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: **18.05.2024**

ACTION TAKEN REPORT ON BoS

Name of the Department: **CSE(CYBER SECURITY)**

The 1st Board of Studies meeting of regulation R2022 for the academic year 2024 - 2025 Odd Semester was conducted on 18.05.2024 at 12.00 p.m. in Hybrid mode, Hindusthan College of Engineering and Technology.

(Google Meet: meet.google.com/vkk-mdwf-yjs).

(I) Syllabus Revision for the Regulations 2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	Cyber security essentials	Introduced	100%

Overall Percentage of revision made in the BoS: 10%

(II) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1	2022	22CB1101 - Cyber security essentials	3

(VI) The following recommendations given by stakeholders are considered and incorporated.

1. Dr.Karpagam G.R , Anna University Nominee Suggested to include cyber security essentials as a program core course

(VII). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken

1	1.Dr .Karpagam,Anna University Nominee appreciated for including industrial oriented courses and agreed that students would be surely benefitted and suggested to provide sufficient time to students to complete the courses.	Incorporated
3	2.In general, the members suggested ensuring mapping of Course objectives and Course outcomes with course contents.	Incorporated

Chairman
(Board of Studies)

Dean Academics

Dean (Academics)
HICET

Academic Year : 2024-2025

Board of Studies Meeting- MINUTES

16.5.2024

The meeting of the Thirteenth Board of Studies in Department of **SCIENCE&HUMANITIES** Undergraduate programme was conducted on **10 May 2024** at 10.30 am through both Physical and Online Mode (Google Meet Venue : Library & **Link : http://meet.google.com/oam-ttuu-buf**

The following members were present:

S.No	Name of the Person	Department	Position
1	**Dr. K.P.Uma** HoD of Science and Humanities, Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.:9442021062 E-mail: umamaths95@gmail.com	S&H	Chairman
2	Dr. S. Ayyappan, Associate Professor, Department of Physics, Government College of Engineering, Salem.94888 12306 sayyappanraj@gmail.com	Physics	University Nominee 10/05/2024
3	Dr. K. Uthayarani Professor& Head Department of Physics,Sri Ramakrishna Engineering College, Coimbatore. Mobile 9894424501 E mail: uthayarani.karunakaran@srec.ac.in	Physics	Subject Expert K. Uthayarani
4	Dr.M.Muthuchelavam, Assistant Professor (SG), Department of Mathematics, Government College of Technology, Coimbatore. Ph; 9751254034 E mail: muthuchelvam.m@gct.ac.in	Mathematics	Subject Expert
5	Dr.R.Karvembu, Professor, Department of Chemistry, National Institute of Technology, Tiruchirapalli-620015, Email: kar@nitt.edu, karvembu@rediffmail.com, Ph: 9442268653	Chemistry	Subject Expert/ Member from QIS rated Institution
6	S.N.Mahalakshmi, Assistant Professor & Head , Department of Science and Humanities, Regional campus, Anna University, Coimbatore, E mail id : s.n.maha@gmail.com, Ph : 9443364660	English	Subject Expert 10/5/24

7	Dr.K.Kannan Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9842257356,E-mail: Kannan.maths@hicet.ac.in	Mathematics	Member
8	Dr. K. Sivakumar Professor of Physics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9842048708,E- mail:sivakphy@gmail.com	Physics	Member
9	Ms. B. Jeyagowri Associate Professor of Chemistry Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9894245562,E- mail:gowrivasu2007@gmail.com	Chemistry	Member
10	Dr.Justin Diraviam Assistant Professor of English Department of Science and Humanities Hindusthan College of Engineering and Technology Mobile No.: 9994334100,E-mail: marimuthunarmatha@gmail.com	English	Member
11	Dr.Jeyabharathi Professor and Head , Department of Science and Humanities Hindusthan Institute of Technology Coimbatore.	Mathematics	Member from Sister Concern.
12	Dr.S.Padma Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9940900391,E-mail: Padma.maths@hicet.ac.in	Mathematics	Autonomous Coordinator
13	Ms.A.Gomathi Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9659471916,E-mail: rojamary.maths@hicet.ac.in	Mathematics	Autonomous Coordinator A. Gomathi
14	Mr.Srinivasan, Senior Design Engineer, Hero Tech, Coimbatore..		Alumni

The chairman outlined the recommendations discussed in Department Advisory Committee meetin **Additionally, Chairman provided the PG syllabus of new regulation R2024 and new syllabus of Physics an Chemistry.**

RECOMMENDATIONS BY BoS SUBJECT EXPERTS (SUBJECT RELATED)

ENGLISH BOARD

22HE1151 - ENGLISH FOR ENGINEERS

Since the current syllabus of English for Engineers meet the requirements of students, it is not required to change or modify any content.

Latest edition books may be added in Text and Reference Books.

PHYSICS BOARD (As per the department requirement, Physics course split as follows)

22PH1151 -ELEMENTS OF PHYSICAL SCIENCE-B.TECH. AGRICULTURAL ENGINEERING, CHEMICAL ENGINEERING & FOOD TECHNOLOGY)

In Unit – I, the topics thermal expansion can be added.

22PH1152 -ESSENTIALS OF ACOUSTICAL AND OPTICAL SCIENCE - CIVIL ENGINEERING

In Unit – III, The topics Torsion pendulum theory and experiment can be added

22PH1152 - PHYSICAL PROPERTIES OF MATERIALS - AERO, AUTO, MECHANICAL & MECHATRONICS ENGINEERING

In Unit – III, The topics Torsion pendulum theory and experiment can be added
In Unit – IV, the topics thermal expansion can be added.

General Suggestions
In reference web references, NPTEL videos and virtual lab can be added.
The text book and reference book can be added.

CHEMISTRY BOARD: (As per the department requirement, Physics course split as follows)

22CY1151 -CHEMISTRY FOR BIOMEDICAL ENGINEERING –

In Unit II , the topic Mechanism of Catalytic Reaction can be mentioned specifically as Role of adsorption on catalysis.

In Unit IV, Applications of UV-Visible and IR spectroscopy can be included. In NMR Imaging Principle and application ca be specific with respect to Biomedical Engineering

22CY1151 -CHEMISTRY FOR COMPUTATIONAL SCIENCES –

Unit III Title can be modified, the topics forensic examination and finger print technology can be omitted as they are wide topics. Instead of that Flame photometry can be included.

Unit IV Basics of Computational Chemistry can be replaced with Material Chemistry contents

MATHEMATICS BOARD

24MA1103 – MATHEMATICAL FOUNDATION OF CSE – Unit order may be interchanged

24MA1101- ADVANCED MATHEMATICS FOR ELECTRICAL ENGINEERING

Instead, 4th and 5th units, it may be combined and can have it as one unit Random Processes.

Queueing Theory may be included as 5th unit.

New **PG Mathematics courses under R 2024 for M.E - CSE,CS,CAD/CAM, EMBEDDED,MBA & MCA** has been passed and approved by the Subject Experts. .

General Suggestions:

For II-year Agricultural Engineering, 22MA3109 - LAPLACE TRANSFORMS, FOURIER SERIES AND TRANSFORMS may be changed and Bio Statistics may be introduced in the forthcoming regulation.

Other General Suggestions:

Courses like Entrepreneurship and Innovations, Introduction to Soft Skills which enhances Employability skills were much appreciated by the Stake holder.

The following resolutions were made in the Board of Studies meeting,

- The chairperson confirmed that both the Tamil courses of I and II semester will adopt the same evaluation pattern used for other theory subjects which was ratified by the University Nominee.
- **Essence of Indian Traditional knowledge for III semester** (zero credit) paper has been passed by Science & humanities board in this academic year.
- The syllabi R2022 of Science and Humanities subjects of with few revisions in I semester, III semester and PG Mathematics papers for the new Regulation 2024 for the students admitted during the academic year 2024 - 2025 were passed and permitted to move on Academic Council during the BoS conducted on 10.05.2024.

The following courses with few revisions in the regulation 2022 were passed in the board of studies of Science and Humanities held on 10.05.2024.

Courses are - Matrices and Calculus, Three different Physics & Chemistry courses as per the department requirement (as afore mentioned), English For Engineers, Universal Human Values, Heritage of Tamil, Introduction to Soft skills & Entrepreneurship & Innovation (Common to all branches).

The following courses few (Regulation 2022) which were passed in the academic year 22-23 and ratified in the current board of studies and few courses were newly introduced in the current board of studies of department of Automobile Engineering, Agricultural Engineering, Civil Engineering, Computer Science Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Food Technology, Information Technology , Mechanical Engineering and Mechatronics Engineering and permitted to move on the forthcoming Academic Council.

Courses are - Basics Of Electrical Engineering for CSE & AIML, Fundamentals of Electrical, Electronics and Instrumentation Engineering for EIE, Python Programming and Practices for, CHEM, , AERO, CIVIL,MECH and Problem Solving Using C Programming for EEE, EIE, CSE, IT, AIML. Engineering Drawing for AGRI, BME, CHEM, AERO, AUTO, CIVIL, MECH, MECT, IT, FT, EEE and Electron Devices for ECE. Fundamentals of Automobile Engineering for AUTO, Principles of Food Scienes for FOOD TECH, Principles and Practices of Crop Production for AGRI ,introduction to Bio Medical Engineering, Basics of Electrical Engineering for EEE,fundamentals of electronics and Communication engineering (ECE) and Basic Electrical and Electronics Engineering (EIE).

he Meeting adjourned at 12.30 p.m. The Chairperson assured that all these suggestions will be carried out and move ı to academic council.

Board of studies meeting for further implementation. **Enclosure:**

1. Previous BoS meeting Minutes
2. Action Taken Report.
3. Curriculum and Syllabi

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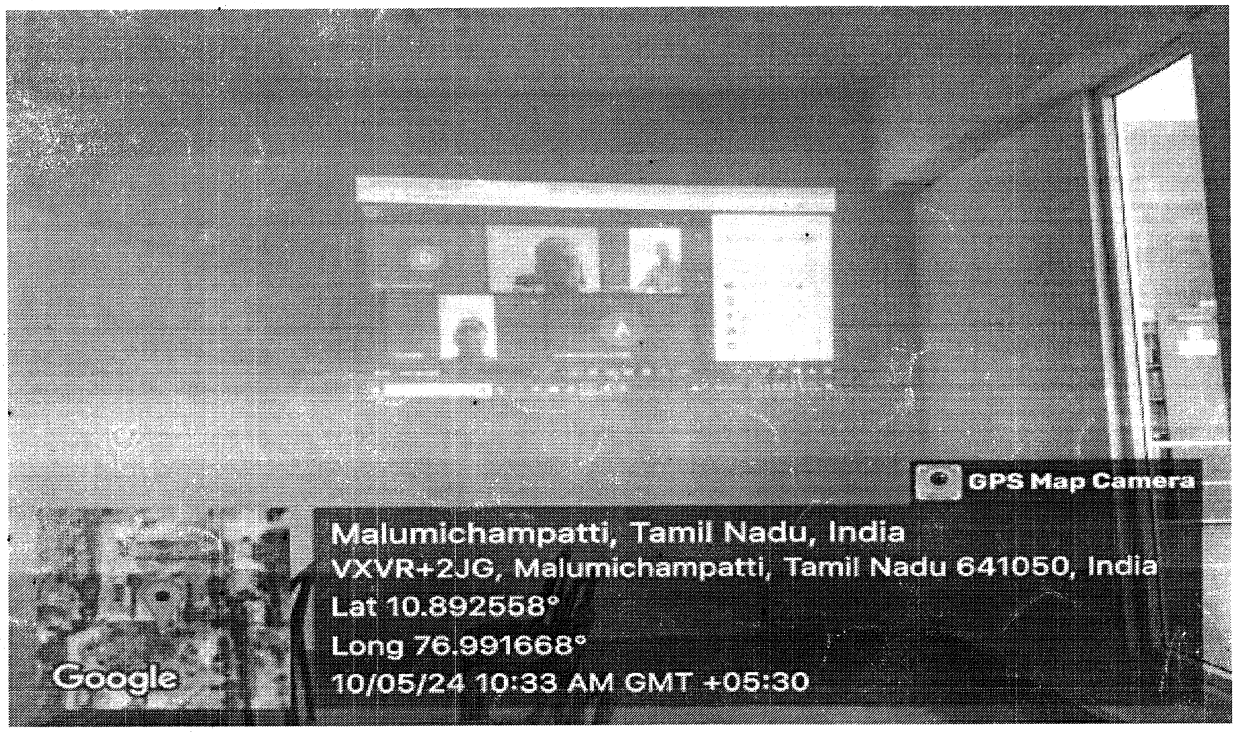
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2. Dean Academics
3. Controller of Examinations
4. All the Members of BoS
5. File

Chairman

(Board of studies)

Chairman BoS
S&H HiCET





HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi, Accredited by NAAC with 'A++' Grade
Accredited by NBA (AERO, AUTO, CIVIL, CSE, EEE, ECE, IT, MECH, MCT)
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore – 641032.

Date : 13.06.24

ACTION TAKEN REPORT ON BoS

Name of the Department: SCIENCE & HUMANITIES

The meeting of **THIRTEENTH** board of studies of Regulation 2022 for the Department of **SCIENCE & HUMANITIES** was conducted on **10.05.2024** at 10.15 A.M in Library, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision for the Regulations 2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	24MA1101 -ADVANCED MATHEMATICS FOR ELECTRICAL ENGINEERING (EMBEDDED)	Approved & Incorporated	40%
2	24MA1104 - MATHEMATICAL FOUNDATION OF CSE	Approved & Incorporated	40%

(II) New Courses Introduced:

S. No	Regulation	Course Code with Name	Credits
1	R 2022	**PHYSICS** 22PH1151 -ELEMENTS OF PHYSICAL SCIENCE-B.TECH. AGRICULTURAL ENGINEERING, CHEMICAL ENGINEERING & FOOD TECHNOLOGY) 22PH1152 -ESSENTIALS OF ACOUSTICAL AND OPTICAL SCIENCE - CIVIL ENGINEERING 22PH1153 - PHYSICAL PROPERTIES OF MATERIALS - AERO, AUTO, MECHANICAL & MECHATRONICS ENGINEERING	3
2	R 2022	**CHEMISTRY** 22CY1151 CHEMISTRY FOR BIOMEDICAL ENGINEERING (BME) 22CY1152 CHEMISTRY FOR COMPUTATIONAL SCIENCES (AIML,CSE,IT ,CS) 22CY1153 - CHEMISTRY FOR ELECTRICAL SCIENCES (EEE.ECE.E&I)	3
3	R 2024(PG)	24MA1102 - ADVANCED MATHEMATICS FOR COMMUNICATION ENGINEERING (CS)	4
4	R 2024(PG)	24MA1103 - APPLED MATHEMATICS FOR ENGINEERS (CAD/CAM)	4
5	R 2024(PG)	22MA1105 PROBABILITY AND STATISTICS FOR DATA ANALYTICS WITH R PROGRAMMING (MCA)	4
6	R 2024(PG)	**22 MA1106 - DATA ANALYSIS AND MODELING(MBA)**	4

(III) The following recommendation given by stakeholder(s).

Soft skill courses from the first semester itself is highly valued and suggested that it will be highly beneficial for the career of the students.

(IV). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	Latest edition books may be added in Text and Reference BookS.	Considered.

Chairman
(Board of Studies)
Chairman - BoS
S&H - HiCET

Dean Academics

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
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Department of Management Sciences

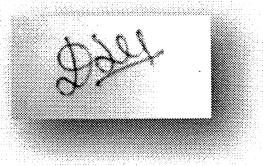
Academic Year: 2024-2025

Minutes of the Board of Studies Meeting

The Thirteenth Board of Studies meeting of the Department of Management Sciences post graduate programme was conducted on 01.06.2024 in the Hybrid Mode (Google Meet: https://meet.google.com/tuu-yuba-oii)

The following members were present:

S.No	Name of the Person	Department	Position	Signature
1	Dr.V. Kaarthiekheyan	Professor & Head, Department of Management Sciences, HICET.	Chairman	
2	Dr.V.Srividya	Professor/Director PSGIM, Coimbatore	University Nominee	
3	Dr. S. Jaishankar	Prof / Head, Department of School of Management, Sri Krishna College of Engineering and Technology, Coimbatore	Subject Expert	
4	Dr. A. Senthil Kumar	Assistant Professor (SLG). Amirtha School of Business, Coimbatore	Subject Expert	
5	Mr. S.K. Dinesh Kumar	Project Lead, Landra Soft Pvt Ltd., Coimbatore	Industry Expert	
6	Dr. Harpaljit Kaur Pritam Singh	Senior Lecturer, School of Management and Marketing, Faculty of Business &Law, Taylors University, KL, Malaysia	Special Invitee 1	
7	Dr. B. Sudhakar	Director, MBA, HICAS, Coimbatore	Special Invitee 2	DIRECTOR (MBA) Hindusthan College of Arts and Science Hindusthan Gardens, Behind Nava India Coimbatore - 641 028.

S.No	Name of the Person	Department	Position	Signature
8	Dr. Navarasu DM	Prof & Head, MBA, HITECH, Coimbatore	Special Invitee 3	
9	Mr. R. Jagannathan	Human Resource Manager,Hyatt Regency, Ahmedabad	Alumni Member	
10	Mr. P.Nallathambi	Director- Raveendra Pneumatic Equipment, SIDCO Industrial Estate, Kuruchi, Coimbatore	Parent Member	
11	Dr.M.Bhuvaneswari	Professor, Department of Management Sciences	Member	
12	Dr.S.Kamalasaravanan	Professor, Department of Management Sciences	Member	
13	Dr.K.Nihtyavathi	Associate Professor, Department of Management Sciences	Member	
14	Dr.A.Jayanthi	Associate Professor, Department of Management Sciences	Member	
15	Ms.Jenish Bharthi P	Assistant Professor, Department of Management Sciences	Member	
16	Mr.A.Prasanth	Assistant Professor, Department of Management Sciences	Member	
17	Mr.S.Vishnu	I MBA	Student Member	
18	Ms.M.Nandana	I MBA	Student Member	

MEMBERS NOT PRESENT		
1	Dr.K.Samuvel	Professor, Department of Management Sciences
2	Dr.V.Kanimozhi	Assistant Professor, Department of Management Sciences
3	Lt.R.Manoj	Assistant Professor, Department of Management Sciences

Agenda 1

Board of Studies Chairman Dr.V. Kaarthiekheyan welcomed and introduced the members of the BOS.

Agenda 2

Dr. S. Kamalasaravanan presented the suggestions given by the experts and the Action Taken Report (ATR) of the 12th BoS meeting and for approval.

Agenda 3

Dr. Bhuvaneswari, presented a brief overview of the Department of Management Sciences, the vision and mission statements of the department, the Program Objectives and Program Educational Objectives to the new members on board.

Agenda 4

1. Revision of Program Outcome (PO's)Statements

The Chairman presented the revised set of Program Outcome (PO) statements that is expected to align with the directives of the National Board of Accreditation with effect from R-2024. The revised PO statements are proposed to BoS members for approval. However, the stated Program Specific Outcomes remains the same

REVISED PROGRAM OUTCOMES (W.E.F. R-2024)	
PO1	Apply knowledge of management theories and practices to solve business problems.
PO2	Foster Analytical and critical thinking abilities for data-based decision making
PO3	Ability to develop Value based Leadership ability.
PO4	Ability to understand, analyse and communicate global, economic, legal, and ethical aspects of business.
PO5	Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment

2 A. The chairman briefly explained the salient features of Regulation 2024 and presented the curriculum of the MBA program and the syllabus for first semester courses related to the Regulation 2024 and

The syllabus of the following courses offered to UG departments

1. Creativity & Innovation in Entrepreneurship
2. Principles of Marketing Management for Business

2B. The following courses are to be introduced in MBA First Semester under Regulation 2024:

Minimum Credits to be earned								**26**
Course Title	**Hours/Week**			**Credits**	**Maximum Marks**			
	L	**T**	**P**		**CA**	**ESE**	**Total**	**Category***
SEMESTER 1								
Management Boot Camp	45 hours			0	-	-	-	FC
Design Thinking	3	0	0	3	40	60	100	ESEC
Economics for Business Applications	3	1	0	4	40	60	100	FC
Data Analysis and Modeling	3	1	0	4	40	60	100	RMC
Cost and Management Accounting	3	1	0	4	40	60	100	PCC
Human Behaviour at Work	3	0	0	3	40	60	100	PCC
Excel Applications in Business	0	0	4	2	60	40	100	ESEC
Entrepreneurial Mindset	1	0	2	2	100	--	100	ESEC
Professional Development I	0	0	4	2	100	--	100	ESEC
Foundations of AI in Business	2	0	0	2	100	--	100	ESEC
Total credits	**18**	**3**	**10**	**26**	**560**	**340**	**900**	

Category:

a. FC – Foundation Course
b. ESEC – Employability Skill Enhancement Course
c. PCC – Professional Core Course
d. RMC – Research Methodology and Patents.

Agenda 5 & 6

The discussion/ suggestions given by the members are as follows:

S.No.	Discussion Lead	Position	Points Discussed/Suggested
1	Dr.V.Srividya Professor/Director PSG Institute of Management, Coimbatore	University Nominee	• Appreciated the structure of the Syllabus • Introduction of Audit courses as per AICTE norms. • Combination of Major/Minor courses to be balanced.

S.No.	Discussion Lead	Position	Points Discussed/Suggested
			• Be more conservative on the credit requirements
2	Dr. S. Jaishankar Prof / Head, School of Management, Sri Krishna College of Engineering and Technology, Coimbatore-641008	Subject Expert (1)	• Internal marks to be awarded for Outbound training activity. • Course outcomes at least to be four • COs and POs should be mapped • Courses on Data sciences to be given on a elaborate manner. • Factor and Cluster analysis to be appended to Data analysis and Modelling course.
3	Dr. A. Senthil Kumar Assistant Professor (SLG). Amirtha School of Business, Coimbatore	Subject Expert (2)	• 75% and 25% can be allocated to General courses and Specialization courses respectively. • Startup India websites and portals can be referred for obtaining more enriched content for the course Entrepreneurial Mindset • Suggested to provide updated edition of textbooks and reference books in the syllabus. • Project based courses to be focused on more marks. • Suggested to concentrate more on predictive modelling techniques in AI courses.
4	Dr. B. Sudhakar, Director- MBA Hindusthan College of Arts and Science, Coimbatore-641028	Special Invitee	• Justify the credit awarded for ESEC courses. • Credit variations are found in Professional Elective courses. • The syllabus for the course Cost and Management Accounting to be simplified.
5	Dr. Harpaljit Kaur Pritam Singh	QS Rated Institution Member	• Appreciated the sequence and structure of the curriculum and syllabus.
6	Dr.S.K. Dinesh Kumar Project Lead,	Industry Expert	• Courses like Analytics and Data Science will helpful to students to update industrial knowledge.

S.No.	Discussion Lead	Position	Points Discussed/Suggested
	LantraSoft Pvt Ltd., Coimbatore		• Introduction to AI as a core course was appreciated. Syllabus is found sufficient for a beginner. • Suggested to offer more AI related courses on domain specific areas.
7	Mr.R.Jagannathan Human Resource Manager,Hyatt Regency, Ahmedabad	Alumni Member	• Utilize digital tools, online resources and interactive learning platforms to enhance accessibility, engagement & effectiveness of the curriculum. • Provide opportunities for faculty to stay updated with current trends, teaching methodologies, and research findings through workshops, conferences and training programs. • Establish a system for continuous feedback from students, faculty and industry professionals to identify areas for improvement and make necessary adjustments.

Agenda 7

The contents of the syllabus and the schema was deliberated and upon the discussions held subsequently, the Board of Studies unanimously approved the syllabus and curriculum for R-2024.

Agenda 8

Dr.S.Kamalasaravanan delivered the vote of thanks and the 13th BoS Meeting got concluded.

Enclosure:

1. Previous BoS meeting Minutes
2. Action Taken Report
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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Department of Management Sciences

Date: 05.06.2024

Action Taken Report on 13th BOS

The meeting of Thirteenth Board of Studies of Regulation 2024 for the Department of Management Sciences Post graduate program was conducted on O1.O6.2O24 at 3.30 pm in the in the Hybrid Mode (Google Meet: https://meet.google.com/tuu-yuba-oii)

(i)Syllabus Revision

Sl.No	Subject which revision has been done	Action Taken	Percentage Syllabus Revised
1	24BA1201- Cost and Management Accounting	Incorporated	35%
2	24BA1203- Economics for Business Applications	Incorporated	15%
3	24BA1205- Human Behaviour at Work	Incorporated	35%
4	24MA1151-Decision Analysis and Modeling	Incorporated	20%
5	24HE1091-Professional Development -I	Incorporated	25%
6	24BA1001-Excell Application in Business	Incorporated	50%

(ii) New Courses Introduced

Sl.No	Regulation	Course Code with Name	Credits
1	R 2024	24AC1291-Management Boot Camp	Non-Credit Mandatory Course
2	R 2024	24BA1202-Design Thinking	3
3	R 2024	24BA1204-Foundations of AI in Business	2
4	R 2024	24BA1801-Entrepreneurial Mindset	2

The syllabus of the following courses offered to UG departments under Minor Degree Program under Entrepreneurship Vertical:

1. 22BA7601-Creativity & Innovation in Entrepreneurship
2. 22BA7602-Principles of Marketing Management for Business

with effect from R-2024.

General Recommendations

Sl.No	Suggestions given by Experts	Action Taken
1	1.Conduct more interactive session to improve students communication 2.Enhance Practical and Experiential Learning 3.Improve the class & Lab Infrastructure	Considered
2	More industrial visits to be suggested each semester	Considered
3	Suggested to offer more AI related courses on domain specific areas	Considered
4	1. Internal marks to be awarded for Outbound training activity. 2.Project based courses to be focused on more marks	Considered
5	Logistics Electives can be added in the curriculum	Considered
6	Suggested to conduct more practical session	Considered

Chairman

Chairman - BoS
MBA - HiCET

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Date :18.05.2024

MINUTES OF BOS MEETING

The thirteenth Board of Studies meeting of Department of Computer Applications (Regulation 2020 and Regulation 2024) for the Academic year 2024-2025 (ODD sem) was conducted on 18.05.2024 at 2.00 pm.in Hybrid mode in the Library Conference Hall.

The following members were present.

S.No	Name of the Person	Department	Position
1.	Dr.A.R. Jayasudha	Professor/Head, Department of Computer Applications, Hindusthan College of Engineering and Technology.	Chairman
2.	Dr. G.Karpagam	Professor, Department of Computer Science and Engineering P.S.G.College of Engineering and Technology, Coimbatore	Anna University Nominee
3.	Dr. Rajeswari Sridhar	Professor, Department of Computer Science and Engineering, National Institute of Technology, Trichy	Subject Expert
4.	Dr. S. Rathi	Professor and Head, Department of CSE, Government College of Engineering Coimbatore,	Subject Expert
5.	Mrs. Gomathi	Co-Founder, Experienced Solution Architect and Delivery Land, Porselvi Software, 32A, VRN Avenue, KNG Pudhur Road, Thudiyalur, Coimbatore	Industry Expert
6.	Mrs.M.Nirmala	Assistant Professor, Department of Computer Applications, Hindusthan College of Engineering and Technology.	Member
7.	Dr.Princess Maria John	Assistant Professor, Department of Computer Applications, Hindusthan College of Engineering and Technology.	Member

HINDUSTHAN ACADEMIC COUNCIL Chairman HINDUSTHAN COLLEGE OF ENGG & TECH

- The chairman of the BoS, Dr. A. R. Jayasudha welcomed all the dignitaries and internal members for the thirteenth Board of Studies meeting.
- The chairperson briefed the Salient features of Regulation 2020 and 2024 to all the BoS members.
- The chairman gave an outline of the proposed curriculum, drafted based on the suggestions of Curriculum Development Cell (CDC) & Department Advisory Committee (DAC).
- The Chairman conveyed to the members, that the scheme of the Curriculum under Regulation 2020 and Regulation 2020 for I, III semesters along with Bridge course based on Anna University model Curriculum.

Comments and Suggestions by BoS members:

- Based on the suggestions given, Structured Programming is replaced by Java Programming in semester I.
- Members Commented on three Programming Languages in the same semester, Accordingly, the curriculum is revamped for semester II and as directed Full stack Web Development / Dev Ops / Agile Technology is to be included.
- In the Place of other Programming Language (as specified in the previous comment) Cryptography and Network Security is included in semester II.
- Machine learning and Python Programming is to be combined as a single paper named Data Intensive Computing using Python.
- Advanced Software Engineering is replaced with Artificial Intelligence.
- As Artificial Intelligence syllabus is same as NPTEL syllabus, NPTEL certification exam mark will be considered as end semester marks.
- It was recommended to offer Software Engineering Methodologies and Quality Assurance as a value addition in the second semester.

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Recommendations by BoS members(Subject Related)

- In "24CA1202 – Database Management Systems", 45% revision has been made with relevant topics in semester I(R2024).
- In "24CA1202 – Database Management Systems Lab", 17% revision has been made in semester I(R2024).
- In "21CA3252 – Cryptography and Network Security ", subject is updated as theory cum Lab paper and 45% revision has been made in semester III(R2020).

The following resolutions are made in the Board of Studies meeting:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabus of Course Probability and Statistics for Data Analytics (Regulation 2024) of semester I was introduced and passed by the Science and Humanities Board respectively, and permitted to move on Academic Council by the BoS members of Board of Computer Applications for the students admitted during the academic year 2024 – 2025.
- The curriculum and syllabus of Course Internet of Things (Regulation 2020) of semester III was introduced and passed by the Electronics and Communication Board respectively, and permitted to move on Academic Council by the BoS members of Board of Computer Applications for the students admitted during the academic year 2023 – 2024.
- The meeting ended with thanks to the members by Chairman at 03.30 pm

The curriculum and the syllabus of semester 1 and III, Bridge Course (1st Semester) and electives(R2020) for the academic year 2024 – 2025(Odd semester) is approved by the above committee.

Chairman
Board Of Studies

HINDUSTHAN COLLEGE OF ENGG & TECH ★ ACADEMIC COUNCIL ★ Chairman

Chairman - BoS
MCA - HiCET

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DEPARTMENT OF COMPUTER APPLICATIONS

Date: 18.05.2024

ACTION TAKEN REPORT ON BoS

Name of the Department: Department of Computer Applications

The meeting of Computer Applications board of studies of Regulation - 2024 and Regulation 2020 for the Department of Computer Applications Post Graduate Programme was conducted on 18.06.2024 at 02.00 pm, in the Library Conference Hall, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision for the Regulations 2024

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1.	Database Management Systems	Modified	45%
2	Database Management Systems Lab	Modified	17%

Syllabus Revision for the Regulations 2020

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1.	Cryptography Network Security	Modified	45%

Overall Percentage of revision made in the BoS: 12.5 %

(III) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1	R2024	Probability And Statistics for Data Analytics	4
2	R2024	Data Communication and Networking	3
3	R2024	Web Technology	4
4	24CA1204	Research Methodology	3
5	R2020	Deep Learning and Data Visualization	4
6	R2020	Ethics In Computing	3
7	R2020	Artificial Intelligence	3
8	R2020	Deep Learning and Visualization Lab	1.5

(IV) Mandatory Courses (if any) - Nil

(V) Non-credit Mandatory Courses (if any)

S.No.	Course Name
1.	Software Engineering Methodologies and Quality Assurance

(VI) Additional Credit Courses Introduced: Nil

(VII) The following recommendations given by stakeholders are considered and incorporated.

- Value added courses on Software Engineering Methodologies and Quality Assurance.

(VIII). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	It was recommended to replace Structured Programming by Java Programming in semester I.	Considered
2.	Members Commented on three Programming Languages in the same semester, Accordingly, the curriculum is revamped for semester II and as directed Full stack Web Development / Dev Ops / Agile Technology is to be included.	Considered
3.	In the Place of other Programming Language (as specified in the previous comment) Cryptography and Network Security is included in semester II.	Considered
4.	Machine learning and Python Programming is to be combined as a single paper named Data Intensive Computing using Python.	Considered
5.	Advanced Software Engineering is replaced with Artificial Intelligence.	Considered
6.	As Artificial Intelligence syllabus is same as NPTEL syllabus, NPTEL certification exam mark will be considered as end semester marks.	Considered

Chairman
(Board of Studies)

Chairman - BoS
MCA - HiCET

Dean Academics

Dean (Academics)
HiCET

HINDUSTHAN COLLEGE OF ENGG & TECH * ACADEMIC COUNCIL * Chairman

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Board of Studies – Minutes & Action Taken Report

Academic Year (2023 – 2024) – Even Semester

Departments

1. **Aeronautical Engineering**
2. **Automobile Engineering**
3. **Civil Engineering**
4. **Mechanical Engineering**
5. **Mechatronics Engineering**
6. **Agricultural Engineering**
7. **Food Technology**
8. **Chemical Engineering**
9. **Computer Science Engineering**
10. **Electrical and Electronics Engineering**
11. **Electronics and Communication Engineering**
12. **Electronics and Instrumentation Engineering**
13. **Information Technology**
14. **Biomedical Engineering**
15. **Artificial Intelligence & Machine learning**
16. **Science and Humanities**
17. **M.B.A**
18. **M.C.A**

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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
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, Karunya Institute of Technology and Sciences, 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, Market Research & Competitive Intelligence, 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. 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

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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Othakalmandabam Post, Coimbatore

Department of Aeronautical Engineering

Date: **28.12.2023**

Action Taken Report on BoS

Name of the Department: Aeronautical Engineering

The 12th Board of Studies meeting of Regulation 2022 (for the students to be admitted from 2023-24 onwards) for the academic year 2023-24 was conducted on 13.12.2023 (Wednesday) at 9.30 AM in the Aero board room, HICET, Coimbatore through online Mode

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

(i) Courses Introduced under Regulation 2022:

S.No.	Regulation	Course code with name		Credits
1	2022	22HE4101	IPR and Start-ups	2
2	2022	22AE4201	Aerodynamics - I	3
3	2022	22AE4202	Mechanics of machines	4
4	2022	22AE4203	Gas Turbine Propulsion	3
5	2022	22MA4151	Probability And Statistics with R Programming	3
6	2022	22AE4251	Aircraft Structures-I	4
7	2022	22AE4001	Aerodynamics Laboratory	2
8	2022	22AE4002	Propulsion Laboratory	2
9	2022	22HE4071	Soft Skills -III	1
10	2022	22MC4191	Indian Constitution	0
11	2019	21AE6231	Aircraft Systems and Instruments	3
12	2019	21AE6232	Aircraft Materials and Processes	3
13	2019	21AE6204	Space Propulsion Systems	3
14	2019	21AE6205	Heat Transfer in Aerospace Applications	3
15	2019	21AE6206	Experimental methods in fluid mechanics	3
16	2019	21AE6207	Introduction to turbulence	3

General Recommendations:

S.No.	Suggestion given in the BoS experts	Action taken
1	In Honors degree courses, Applied Structural Mechanics can be included.	Considered
2	In general, the members suggested ensuring mapping of Course objectives and Course outcomes with course contents.	Considered

CHAIRMAN

BoS/AERO

Chairman - BoS
AERO - HiCET

Hindusthan
College of Engineering and Technology
Coimbatore-641032

DEPARTMENT OF AUTOMOBILE ENGINEERING

Date: 14.12.2023

TWELFTH BOS MEETING MINUTES

The Twelfth BOS meeting of regulation R2022 and R2019R for the academic year 2023-2024 (Even Semester) was conducted on 13.12.2023 in hybrid mode (online using Google Meet) and offline in Automobile department seminar hall). The objective of the meeting was to discuss the curriculum and syllabi for R2022 (Fourth Semester) and R2019 (Sixth Semester) with all professional elective courses minor and honor degree courses, open elective courses and newly added courses.

Note: Google meeting link: http://meet.google.com/gxs-ruct-nqc?hs=224

The following members were present

S.No.	Name of the Expert	Affiliation	Nomination
1	Dr Sabarinathan C	Professor and Head / Automobile Engineering, Hindusthan College of Engineering and Technology	Chairman
2	Dr Periyasamy S	Associate Professor, Department of Mechanical Engineering, Government College of Technology, Coimbatore	University Nominee
3	Dr Somasundaram P	Professor and Head, Department of Automobile Engineering, Kongu Engineering College, Erode.	Subject Expert
4	Dr Bharathi Mohan M P	Assistant Professor (SG), Department of Automobile Engineering, PSG College of Technology, Coimbatore.	Subject Expert
5	Mr Manikandan G	Senior Manager - Controlling, Daimler India Commercials Vehicles, Chennai	Industry Expert

6	Mr Sivakumar P K	Regional Training Manager, Volvo Eicher Commercial vehicles Pvt. Ltd.	Industry Expert – Special Invitee
7	Mr Arun R	Senior Section Manager, Sales and marketing, John Deere tractors Pvt. Ltd, Kanchipuram	Alumni Expert
8	Prof Udhayakumar S	Asso. Professor and Head, Department of Automobile Engineering, Hindusthan Institute of Technology, Coimbatore.	Special Invitee
9	Mrs Anitha Kumari P (M/o Ambadi A, IV yr)	Teacher, - Govt Town UP school Kayamkulam, Alappuzha district, Kerala.	Parent
10	Mrs. Mekalai R (M/o. Siddharth S M, III yr)	Headmistress - Lisieux CMI International School, Coimbatore – 641 011.	Parent
11	Mrs. Fathima banu (M/o) Aneesh Akthar, II Yr	Accountant – PPS & Co, Kurichi Pirivu, Coimbatore - 641023	Parent
12	Dr.Sankar Ganesh R	Asso.Professor / Automobile Engg.	Member
13	Mr Yogaraja J	Asst.Professor / Automobile Engg.	Member
14	Dr Krishnaraj J	Asst.Professor / Automobile Engg.	Member
15	Mr Ragu S	Asst.Professor / Automobile Engg.	Member
16	Mr Mujiburrahman K	Asst.Professor / Automobile Engg.	Member
17	Mr Prabhu G	Asst.Professor / Automobile Engg.	Member
18	Mr Satheesh Kumar K	Asst.Professor / Automobile Engg.	Member
19	Mr Prakash R S	Asst.Professor / Automobile Engg.	Member
20	Mr Gowtham T	Final Year Automobile Engineering	Student Member
21	Mr Balaji C	Third Year Automobile Engineering	Student Member
22	Mr. Aneesh Akthar	Second Year Automobile Engineering	Student Member

The chairman of the BOS, welcomed all the dignitaries for the meeting. He has presented the department vision and mission statements to the forum. Also, he has given an outline of the institution and department and salient features of the new Regulation 2022 Curriculum and Syllabi.

Followed by he has also presented the suggestions given by the experts and the action taken during the Eleventh BOS meeting which was held during 02.06.2023 and action taken report on the suggestions.

The chairman has presented the curriculum and syllabus of R2019 with Minor and Honor Degree courses, and curriculum of R2022 with syllabus of IV semester courses.

Comments given by BoS members:

Dr Periyasamy S (University Nominee):

- He suggested to incorporate case studies like Autonomous vehicle systems in order to get idea in current trend in Electric and Autonomous vehicles in "Advanced Electrical and Electronics system".
- He suggested to incorporate the topics "Brakes" in "Mechanism of Machines" to get an clear view of Application of friction in Unit IV.
- He suggested to compare the syllabus of all courses with Anna University Syllabus since the Entrance Exams for Higher studies and Recruitments were based on Anna university Syllabus.
- He suggested to add the content on "Pneumatic Machines" in "Fluid and Pneumatic systems"
- He suggested to change the title of the course "Fluid and Pneumatic systems" to "Fluid Mechanics and Actuation systems"
- He suggested to update the Test book and reference books with new editions.

Dr Bharathi Mohan M P (Subject Expert):

- He suggested to include more Electrical system design related to motor sports in "Motorsports Electric Vehicle"
- He suggested to included simpler problems in "Fluid and Pneumatic systems"

Mr Manikandan G (Industry Expert):

- He suggested to change the Title of "Advanced Electrical and Electronics System" to "Automotive Electrical and Electronics system".
- He has also recommended to showcase the recent and future skill requirements for automobile engineers.
- He has suggested to add the 'Flex-fuel engines' and 'Hydrogen fuel cells' technologies in alternate fuels-based courses.

Mr Siva P K (Industry Expert):

- He has suggested to add the latest and upcoming emission norms and technology in any of the suitable courses.

Mr.Arun R (Alumni):

- He sugessted syllabus could include opportunities for networking with alumni and industry professionals. Guest lectures, workshops, or alumni-led seminars would allow students to connect with successful graduates and gain valuable insights into different career paths.

Mr.Gowtham T (Student Member):

- He has suggested that exposure to cutting-edge tools and techniques would give students a competitive advantage in the job market.

Recommendations by BoS members (Subject Related)

The following points were summarized by chairman as per the suggestions of BoS members and stakeholders

In R2022:

- The following courses are approved for II semester

22MA2101	Differential equations and complex analysis
22PH2101	Basics of material science
22CY2101	Environmental science
22ME2101	Engineering Mechanics
22HE2151	Effective Technical Communication
22CY2152	Applied Chemistry
22ME2001	Engineering Practices
22MC2094/	தமிழரும் தொழில் நுட்பமும்
22MC2093	NCC */NSS / YRC / Sports / Clubs / Society Service – Enrollment (Common)

- The following courses are approved for IV semester

22HE4101	IPR and Start-ups
22AU4201	Automotive Chassis components Design
22AU4202	Automotive Electricals and Electronics systems
22AU4203	Mechanics of Machines
22AU4204	Fluid mechanics and Actuating Systems
22AU4251	Fundamentals of Heat Transfer
22AU4001	Automotive Electricals and Electronics Laboratory
22AU4002	Computer Aided Engine components design Laboratory
22HE4071	Soft Skills -III

- The following courses are approved for VI semester

21AU6201	Total Quality Management$
21AU6202	Vehicle Dynamics and Control Systems*#$
21AU6203	Finite Element Analysis
21AU6251	Automotive Vehicle Body and Aerodynamics*
21AU6001	Finite Element Analysis Lab##
21AU6701	Internship Training / In plant Training
21HE6071	Soft Skill-II
21HE6072	Intellectual Property Rights (IPR)

21AU6301	Automotive Airconditioning
21AU6302	Fuel Cell Technology
21AU6303	Ergonomics in Automotive Design
21AU6304	Additive Manufacturing
21AU6305	Robotics

In R2019:

As per the directions of Anna University,

- **B E (Hons),**

Honors Degree - **Electric and hybrid vehicle development**		
S.No	**Course Code**	**Course Name**
1	21AU6204	Battery Technology
2	21AU6205	Automotive Embedded Systems
Honors Degree - **Motorsport Engineering**		
S.No	**Course Code**	**Course Name**
3	21AU6206	High performance engine design
4	21AU6207	Motorsports Electric Vehicle
Honors Degree - **Vehicle Development and Validation**		
S.No	**Course Code**	**Course Name**
5	21AU6208	Noise, Vibration and Harshness
6	21AU6209	Automotive Instrumentation

- **B E with minor degree**

Minor Degree - **Automotive Vehicle Technology (Offered by Automobile Engineering)**		
S.No	**Course Code**	**Course Name**
1	21AU6601	Automotive Chassis
2	21AU6602	Automotive Transmission

Are approved for the academic batch (2021 - 2025) admitted in the academic year 2021 – 2022 under Regulation 2019.

For the same, three specialization verticals for B E (Hons) degree and one vertical for B E with Automobile Engineering minor degree are approved by the Board of Studies.

Verticals for B E (Hons) in Automobile Engineering

Semester in which courses are offered	**Vertical I Electric and hybrid vehicle development**	**Vertical II Motorsport Engineering**	**Vertical III Vehicle Development and Validation**
Semester V	Fundamentals of Electric and Hybrid Vehicles	Composite Structure	Automotive Product Design and Development
Semester VI	Battery Technology	High performance engine design	Noise, Vibration and Harshness
Semester VI	Automotive Embedded Systems	Motorsports Electric Vehicle	Automotive Instrumentation
Semester VII	Advanced Automotive Safety Systems	Motorsports Vehicle Body Engineering	Testing and Measurement Systems
Semester VII	Special Purpose Electric Vehicle	Motorsports Race Electronics and Control Systems	Homologation
Semester VIII	Electric Vehicles and its Sustainable Development	Motorsports racing circuits and Design	Automotive Prototyping

Verticals for B E with minor degree

Semester in which courses are offered	Vertical offered by Automobile Engineering	Verticals common to all departments		
		Vertical I Fintech and Block Chain	**Vertical II Entrepreneurship**	**Vertical III Environment and Sustainability**
Semester V	Automotive Engines	Financial Management	Foundations of Entrepreneurship	Sustainable infrastructure Development
Semester VI	Automotive Chassis	Fundamentals of Investment	Team Building & Leadership Management for Business	Sustainable Agriculture and Environmental Management
Semester VI	Automotive Transmission	Banking, Financial Services and Insurance	Creativity & Innovation in Entrepreneurship	Sustainable Bio Materials
Semester VII	Automotive Electronics	Introduction to Blockchain and its Applications	Principles of Marketing Management for Business	Materials for Energy Sustainability
Semester VII	Intelligent vehicular systems	Fintech Personal Finance and Payments	Human Resource Management for Entrepreneurs	Green Technology
Semester VIII	Electric and Hybrid vehicles	Introduction to Fintech	Financing New Business Ventures	Environmental Quality Monitoring and Analysis

The following resolutions were made in the Board of Studies meeting,

- Department Vision and Mission - The vision and mission statements of the department were found to be good and accepted without any changes.
- In almost all the courses, changes have been done as per the current needs.
- The curriculum and syllabus of Regulation 2022 for the I & II semester subjects were passed by the Science and Humanities board and permitted to move on Academic Council by the BoS members of Automobile Engineering for the students admitted during the academic year 2023-2024 and onwards.

- As per the suggestion of CDC, the Honors degree verticals such as 'Electric and hybrid vehicle development', 'Motorsport Engineering', 'Motorsports racing circuits and Design' 'Vehicle research and validation' and minor degree vertical of Automobile Engineering are to be added to the R2019 regulation students admitted during the academic year 2021 - 2022.
- Also, the minor degree program and honors degree program to be added to the regulation of students admitted during the academic year 2021 - 2022.
- The Chairman conveyed that; the Suggestions given by the Board of Studies members are to be incorporated in all years of R2019 and R2022 curriculum.
- Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

With these words the chairman thanked the gathering for their presence in the BOS meeting.

Overall Percentage of New Concepts Introduced – 15%

CHAIRMAN
Dr.C.Sabarinathan
Chairman - BoS
AUTO - HiCET

Hindusthan College of Engineering and Technology
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Valley Campus, Pollachi Highway, Coimbatore – 641032

Date: 14.12.2023

Action taken report on Twelfth BoS

Name of the Department: **Automobile Engineering**

The Twelfth BOS meeting of regulation R2022 and R2019 for the academic year 2023 – 24 was conducted on 13.12.2023 in hybrid mode (online using Google Meet) and offline in Automobile department seminar hall). The objective of the meeting was to discuss the curriculum and syllabi for R2022 for IV semester and R2019 with all professional elective courses, open elective courses, newly added courses, Minor and Honor Degree courses.

Note: Google meeting link: http://meet.google.com/gxs-ruct-nqc?hs=224

(I) Courses Introduced under Regulation 2019

S.No.	Regulation	Course code with name		Credits
1.	2019R	21AU6201	Total Quality Management$	3
2.	2019R	21AU6202	Vehicle Dynamics and Control Systems*#$	3
3.	2019R	21AU6203	Finite Element Analysis	4
4.	2019R	21AU6251	Automotive Vehicle Body and Aerodynamics*	3.5
5.	2019R	21AU6001	Finite Element Analysis Lab##	1.5
6.	2019R	21AU6701	Internship Training / In plant Training	1
7.	2019R	21HE6071	Soft Skill-II	1
8.	2019R	21HE6072	Intellectual Property Rights (IPR)	1

S.No.	Regulation	Course name		Credits
Minor Degree - Automotive Vehicle Technology				
1	2019R	21AU5601	Automotive Engines	3
2	2019R	21AU6601	Automotive Chassis	3

3	2019R	21AU6602	Automotive Transmission	3
4	2019R	21AU7601	Automotive Electronics	3
5	2019R	21AU7602	Intelligent vehicular systems	3
6	2019R	21AU8601	Electric and Hybrid vehicles	3
Honors (Electric and Hybrid Vehicle)				
7	2019R	21AU5204	Fundamentals of Electric and Hybrid Vehicles	3
8	2019R	21AU6204	Battery Technology	3
9	2019R	21AU6205	Automotive Embedded Systems	3
10	2019R	21AU7203	Advanced Automotive Safety Systems	3
11	2019R	21AU7204	Special Purpose Electric Vehicle	3
12	2019R	21AU8201	Electric Vehicles and its Sustainable Development	3
Honors (Motorsports Engineering)				
13	2019R	21AU5205	Composite Structure	3
14	2019R	21AU6206	High performance engine design	3
15	2019R	21AU6207	Motorsports Electric Vehicle	3
16	2019R	21AU7205	Motorsports Vehicle Body Engineering	3
17	2019R	21AU7206	Motorsports Race Electronics and Control Systems	3
18	2019R	21AU8202	Motorsports racing circuits and Design	3
Honors (Vehicle Development and Validation)				
19	2019R	21AU5206	Automotive Product Design and Development	3
20	2019R	21AU6208	Noise, Vibration and Harshness	3
21	2019R	21AU6209	Automotive Instrumentation	3
22	2019R	21AU7207	Testing and Measurement Systems	3
23	2019R	21AU7208	Homologation	3
24	2019R	21AU8203	Automotive Prototyping	3

(II) Courses Introduced under Regulation 2022 Batch (2022-2026)

S.No.	Regulation	Course code with name		Credits
1.	2022	**22HE4101**	IPR and Start-ups	3
2.	2022	**22AU4201**	Automotive Chassis components Design	4
3.	2022	**22AU4202**	Automotive Electricals and Electronics systems	3
4.	2022	**22AU4203**	Mechanics of Machines	4
5.	2022	**22AU4204**	Fluid Mechanic and Actuation System	3
6.	2022	**22AU4251**	Fundamentals of Heat Transfer	3
7.	2022	**22AU4001**	Automotive Electricals and Electronics Laboratory	2
8.	2022	**22AU4002**	Computer Aided Engine components design Laboratory	2
9.	2022	**22HE4071**	Soft Skills -III	2

Batch (2023-2027)

S.No.	Regulation	Course code with name		Credits
1.	2022	**22MA2101**	Differential equations and complex analysis	4
2.	2022	**22PH2101**	Basics of material science	3
3.	2022	**22CY2101**	Environmental science	3
4.	2022	**22ME2101**	Engineering Mechanics	3
5.	2022	**22HE2151**	Effective Technical Communication	3
6.	2022	**22CY2152**	Applied Chemistry	2
7.	2022	**22ME2001**	Engineering Practices	1
8.	2022	**22MC2094/ 22MC2095**	தமிழரும் தொழில் நுட்பமும் / Tamils and Technology	0
9.	2022	**22MC2093**	NCC */NSS / YRC / Sports / Clubs / Society Service - Enrollment (Common)	4

(III) General Recommendations:

S.No.	Suggestions / Comments given by the Members for 2019 Regulation	Action Taken	Report
1	Suggested to incorporate case studies like Autonomous vehicle systems in order to get idea in current trend in Electric and Autonomous vehicles in "Advanced Electrical and Electronics system".	Suggestion accepted	Case study added.
2	Suggested to Change the Title "Advanced Electrical and Electronics system" to "Automotive Electrical and Electronics system"	Suggestion accepted	Updated
3	Suggested to incorporate the topics "Brakes" in "Mechanism of Machines" to get an clear view of Application of friction in Unit IV.	Suggestion accepted	To be incorporated in higher semesters
4	Suggested to compare the syllabus of all courses with Anna University Syllabus since the Entrance Exams for Higher studies and Recruitments were based on Anna university Syllabus.	Suggestion accepted	Compared
5	Suggested to add the content on "Pneumatic Machines" in "Fluid and Pneumatic systems"	Suggestion accepted	To be incorporated in higher semesters
6	Suggested to change the title of the course "Fluid and Pneumatic systems" to "Fluid Mechanics and Actuation systems"	Suggestion accepted	Title changed
7	Suggested to update the Test book and reference books with new editions.	Suggestion accepted	Updated
8	Suggested to include more Electrical system design related to motor sports in "Motorsports Electric Vehicle"	Suggestion accepted	To be incorporated in higher semesters
9	Suggested to included simpler problems in "Fluid and Pneumatic systems"	Suggestion accepted	To be incorporated in higher semesters

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

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Coimbatore - 641 032

DEPARTMENT OF CIVIL ENGINEERING

Date: 14.12.2023

BOARD OF STUDIES MEETING

Name of the Department: Civil Engineering

The Board of Studies meeting (12th BoS) of Civil Engineering to discuss the curriculum & syllabus of Regulation 2019 & 2022 for the academic year 2023-2024 (Even Semester) was conducted on 19.12.2023 at 10.30 am in the ONLINE mode through Google Meet.

(Meeting Link:https:https://meet.google.com/oee-scyk-pvs)

The following members were present.

S.No	Name of the Person	Department	Position
1.	**Dr. K. Akil**	Professor and Head, Department of Civil Engineering, Hindusthan College of Engineering and Technology.	**Chairman**
2	**Dr. G. Arun Kumar**	Associate Professor (CAS), Government College of Engineering, Salem.	**University Nominee**
3	**Dr. S. Shantha Kumar**	Professor, School of Civil Engineering, Vellore Institute of Technology (VIT), Vellore.	**Academic Expert**
4	**Dr. V. M. Shanthi**	Principal, Government College of Engineering, Srirangam.	**Academic Expert**
5	**Dr. J. Jegan**	Professor, Department of Civil Engineering, Anna University, University College of Engineering, Ramanathapuram.	**Academic Expert**
6	**Mr. J. Prem Kumar**	Principal Consultant, M/s Infinustech, Coimbatore.	**Special invitee**
7	**Dr. A. Sudhahar**	CEO - Dimensions Structural Designs, #57, KrishnasamyMudhaliar Street, Brooke Bond Road, R S Puram,Coimbatore	**Industry Member**

8	**Dr. S. Deepa Shri**	Professor Department of Civil Engineering, Hindusthan College of Engineering and Technology	**Member**
9	**Mr. R. Senthil Kumar**	Assistant Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology.	**Member**
10	**Mr. A. Alex Livingston Raja**	Assistant Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology.	**Member**
11	**Ms. K. Saraswathi**	Assistant Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology.	**Member**
12	**Ms. V. Suresh**	Assistant Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology.	**Member**
13	**Mr. B. Thamizhinian**	Research Scholar, Indian Institute of Technology, Roorkee,Haridwar, Uttarakhand	**Alumni Member**
14	**Ms. K. Nivetha**	IV Year Student Department of Civil Engineering, Hindusthan College of Engineering and Technology	**Student Member**
15	**Mr. K. Arun**	III Year Student Department of Civil Engineering, Hindusthan College of Engineering and Technology	**Student Member**
16	**Mr. S. Sukumaran**	II Year Student Department of Civil Engineering, Hindusthan College of Engineering and Technology	**Student Member**

- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the eleventh Board of Studies meeting.
- Chairman disseminated Vision and Mission of the Institution and the Department, Programme Educational Objectives (PEOs), Programme Specific Outcomes (PSOs), Programme Outcomes (POs)
- Chairman also presented the new regulation 2022 and the curriculumgiven by the Curriculum Development Cell (CDC) &Department Advisory Committee (DAC).
- Followed by, Chairmanpresented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during **17.02.2023** was approved.

For Regulations 2022 (Batch 2023 - 2027) :

- Changes have been done as per the current needs in curriculum and syllabus of Regulation 2022.
- Based on Regulation 2022, the revised curriculum and syllabi for II and IV semesters of R2022 were reviewed for the B.E Civil Engineering program for the students admitted in the academic year 2021 - 2022 and onwards and permitted to move on to the Academic Council.

For Regulations 2019 (Batch 2020 - 2023) :

- Changes have been done as per the current needs in curriculum and syllabus of Regulation 2019.
- Based on Regulation 2019, the revised curriculum and syllabi for VIII semesters of R2019 were reviewed for the B.E Civil Engineering program for the students admitted in the academic year 2020 - 2021 and onwards and permitted to move on to the Academic Council.

Value added Courses:

- Building Information Modeling using Autodesk Revit Software Modeling, Analysis and Design of Elements using Bentley STAAD.Pro to be introduced as value added courses for IV Semester & VI Semester respectively.

Following are the Comments put forth by the Experts:

S.No	Title of the course viewed by experts	Experts suggestion and comments
1.	21CE6203 Wastewater Engineering	Regulatory requirements for wastewater disposal to be included

- Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with thanks by the Chairman at 1.30 p.m.

Chairman - BoS
CIVIL - HiCET

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Coimbatore - 641 032

DEPARTMENT OF CIVIL ENGINEERING

Date: 28.12.2023

ACTION TAKEN REPORT ON BOS

Name of the Department: **CIVIL ENGINEERING**

The Board of Studies meeting (12th BOS) of Regulation 2019 & 2022 for the academic year 2023 - 2024 was conducted on 19.12.2023 at 10.30 p.m. at ONLINE mode thorough Google Meet.

This report consolidates the findings of the panel and the suggestions and area of improvements possible in the future put forth by the panel.

(i) Syllabus Revision:

S. No	Subject in which revision has been done		Action taken	Percentage Syllabus Revised
1.	22CE4201	Structural Analysis	Suggestion passed on the standing committee	56%
2.	22CE4202	Concrete Technology	Suggestion passed on the standing committee	43%
3.	22CE4203	Highway and Railway Engineering	Suggestion passed on the standing committee	27%
4.	22CE4251	Surveying	Suggestion passed on the standing committee	100 %
5.	22CE4252	Soil Mechanics	Suggestion passed on the standing committee	100 %
6.	22CE4253	Hydraulic Engineering	Suggestion passed on the standing committee	100 %
7.	22CE4001	Concrete and Highway Engineering Lab	Suggestion passed on the standing committee	100 %
8.	21CE6205	Advanced Concrete Structures	Suggestion passed on the standing committee	100 %
9.	21CE6206	Design of Physico-Chemical Treatment Systems	Suggestion passed on the standing committee	100 %
10.	21CE6207	Site Exploration and Soil Investigation	Suggestion passed on the standing committee	100 %
11.	21CE6208	Advanced Remote Sensing	Suggestion passed on the standing committee	100 %

12.	21CE6209	Finite Element Analysis in Structural Engineering	Suggestion passed on the standing committee	100 %
13.	21CE6210	Design of Biological Treatment Systems	Suggestion passed on the standing committee	100 %
14.	21CE6211	Environmental Geo-technology	Suggestion passed on the standing committee	100 %
15.	21CE6212	Fundamentals of Geodesy	Suggestion passed on the standing committee	100 %
16.	21CE5601	Principles of Surveying	Suggestion passed on the standing committee	100 %
17.	21CE6601	Construction Technology	Suggestion passed on the standing committee	100 %
18.	21CE5602	Sustainable infrastructure Development	Suggestion passed on the standing committee	100 %
19.	21CE6603	Sustainable Agriculture and Environmental Management	Suggestion passed on the standing committee	100 %

- Chairman conveyed that the suggestions given by the Board of Studies members shall be incorporated with the approval of standing committee.

Chairman - BoS
CIVIL - HiCET

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(NBA)Othakalmandabam Post, Coimbatore – 641 032

DEPARTMENT OF CIVIL ENGINEERING

BOARD OF STUDIES MEMBERS (12th Bos)

S.No	Name of the Person	Department	Position
1.	**Dr. K. Akil**	Professor and Head, Department of Civil Engineering, Hindusthan College of Engineering and Technology.	**Chairman**
2	**Dr. G. Arun Kumar**	Associate Professor (CAS), Government College of Engineering, Salem.	**University Nominee**
3	**Dr. S. Shantha Kumar**	Professor, School of Civil Engineering, Vellore Institute of Technology (VIT), Vellore.	**Academic Expert**
4	**Dr. V. M. Shanthi**	Principal, Government College of Engineering, Srirangam.	**Academic Expert**
5	**Dr. J. Jegan**	Professor, Department of Civil Engineering, Anna University, University College of Engineering, Ramanathapuram.	**Academic Expert**
6	**Mr. J. Prem Kumar**	Principal Consultant, M/s Infinustech, Coimbatore.	**Special invitee**
7	**Dr. A. Sudhahar**	CEO - Dimensions Structural Designs, #57, KrishnasamyMudhaliar Street, Brooke Bond Road, R S Puram,Coimbatore	**Industry Member**
8	**Dr. S. Deepa Shri**	Professor Department of Civil Engineering, Hindusthan College of Engineering and Technology	**Member**
9	**Mr. R. Senthil Kumar**	Assistant Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology.	**Member**
10	**Mr. A. Alex Livingston Raja**	Assistant Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology.	**Member**

11	**Ms. K. Saraswathi**	Assistant Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology.	**Member**
12	**Ms. V. Suresh**	Assistant Professor, Department of Civil Engineering, Hindusthan College of Engineering and Technology.	**Member**
13	**Mr. B. Thamizhinian**	Research Scholar, Indian Institute of Technology, Roorkee,Haridwar, Uttarakhand	**Alumni Member**
14	**Ms. K. Nivetha**	IV Year Student Department of Civil Engineering, Hindusthan College of Engineering and Technology	**Student Member**
15	**Mr. K. Arun**	III Year Student Department of Civil Engineering, Hindusthan College of Engineering and Technology	**Student Member**
16	**Mr. S Sugumaran**	II Year Student Department of Civil Engineering, Hindusthan College of Engineering and Technology	**Student Member**

Chairman - BoS
CIVIL - HiCET

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
HICET

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Valley Campus, Pollachi Highways, Coimbatore, Tamilnadu.

TÜVRheinland CERTIFIED

Academic Year: 2023-2024

12th Board of Studies Meeting Minutes

The meeting of 12th Board of Studies in the Department of Mechanical Engineering Undergraduate programme for the academic year 2023-24 was conducted on 19.12.2023 at 11.00 a.m in Physical Mode.

The following members were present:

S.No.	Name of the Expert	Nomination	Remarks
1	**Dr. K. Siva** Professor and Head, Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Chairman	Present
2	**Dr. S.Periyasamy,** Associate Professor, Department of Mechanical Engineering, Government College of Technology, Coimbatore.	Anna University Nominee	Present
3	**Dr. L. Godson Asirvatham,** Professor and head , Department of Mechanical Engineering, Karunya institute of technology and science, Coimbatore	Academic Expert	Present
4	**Dr. M. Senthilkumar ,** Professor & Head, Department of Production Engineering, PSG College of Technology, Coimbatore.	Academic Expert	Absent
5	**Dr.S.R.Rajabalayanan** Professor and Head Mechanical Engineering Department, Hindusthan Institute of Technology	Members from Sister Concern – HiTECH	Present
6	**Dr. C.Nithyanandam** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
7	**Dr. J. Manikandan** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
8	**Dr. V. Senthilmurugan** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
9	**Dr. Y. Rasmathew** Associate Professor Mechanical Engineering Department,	Member	Present

	Hindusthan College of Engineering and Technology		
10	**Mr. A.F. BAGGIO,** Managing Director, Redeem Tissues, 195/2D, Sundarapuram, LIC Colony, Coimbatore	Alumnus	Present
11	**Mr. C. Milan Harsish (III)** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	21-25 Batch Student	Present
12	**Mr. N. Praveen (IV)** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	20-24 Batch Student	Present
13	**Mrs N. Selvi** Ward Councillor Othakalmandapam Coimbatore	Parent Member	Absent

The chairman of the BOS, welcomed all the dignitaries for the meeting. He introduced the BoS members. Also, he has given an outline of the institution and department along with the salient features of the Curriculum and Syllabi.

During the presentation he emphasized the importance of employability enhancement courses, life skill, soft skill, design thinking and IPR related subjects.

Further, the following points are discussed

- The Chairman –BoS (Dr.K.Siva) welcomed all the members for the 12th Board of Studies meeting.
- The Chaiman, BoS elaborated the Regulations 2022 Curriculum scheme to the members also he explained the new inclusion categories in the curriculum like Professional elective verticals, Minor Degree , Honours degree , SEC, AEC etc., with internal mark weightage system.

Recommendations by BoS members (Subject Related)

The following recommendations are put forth by the BoS Members,

Dr PERIYASAMY S (University Nominee)

- Unit V 'Latest Amendments' topic can be included in 'IPR and Startups' Subject.
- Unit II 'Patent Ethics' topic can be included in 'IPR and Startups' Subject.
- Suggested to check and compare the GATE Syllabus in 'Kinematics of machinery' subject.
- Unit IV can be reduced in 'Hydraulic and Pneumatic' Systems Subject.
- Unit I heading is to modified as 'Air standard cycles' in Thermal Engineering Subject.
- Suggested to remove the word angle in 'tool and angle grinding' in 'Manufacturing technology laboratory II' subject.

Enclosure:

1. Previous BoS meeting Minutes
2. Action Taken Report
3. Curriculum and Syllabi (R2019)
4. Curriculum and Syllabi (R2022)

Copy:

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

Dr. L. GODSON ASIRVATHAM (Academic Expert)

- Unit II 'Procedure to follow the methods of IP agents ' to be included in 'IPR and Startups' Subject.
- Latest text books, Publications and Publishers to be mentioned in 'IPR and Startups' Subject.
- Objectives can be reduced in 'Hydraulics and Pneumatic Systems' Subject.
- Unit IV 'impact analysis' experiment to be included in 'Strength of materials' theory and lab subject.

Dr. P. SURESH KUMAR, (Industry Member)

- Unit V 'Case studies with application of computing skills' can be included in 'Hydraulics and Pneumatic' Systems Subject
- Unit II and III can be combined in ' Manufacturing Technology II' Subject.
- CNC topic can be extended in ' Manufacturing Technology II' Subject.
- Practical to be corrected as per the unit in 'Strength of materials' Subject.
- '3D Printing exercise' to be added in 'Manufacturing Technology II laboratory' Subject.

General Suggestions

- 'Should be able to' is to be removed from objectives in all subjects syllabus.
- Using Blooms taxonomy instead of 'understanding' and 'remember', 'apply', 'analyze' kind of words if possible can be included.
- Paragraph alignment should be checked.
- Latest text books, Publications and Publishers to be mentioned.

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

- The syllabi of IV semester of the UG Programmes for the students admitted during the academic year 2022 - 2023 and onwards was passed and permitted to move on Academic Council.

Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with thanks to the Chair at 01.30 P.M.

Chairman / Chairperson (BoS)

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Othakalmandabam Post, Coimbatore
Department of Mechanical Engineering

TÜVRheinland CERTIFIED

Date: 20.12.2023

Action Taken Report - UG

The meeting of the 12th Board of Studies for the Department of Mechanical Engineering Undergraduate Programme for the academic year 2023-24 was conducted on 19.12.2023 at 11.00 a.m in Physical Mode

Syllabus related Recommendations:

S. No	Course Code & Course Name	Suggestions given by BoS experts	Action taken
1.	22HE4101 IPR and Start-ups	Suggested to remove excluding topic. Unit V 'Latest Amendments', Unit II 'Patent Ethics' and Unit II 'Procedure to follow the methods of IP agents' topics to be included. Latest text books, Publications and Publishers to be mentioned	Suggestion passed and to be incorporated in the forthcoming Even semester of Academic year 2023-24.
2.	22ME4201 Kinematics of Machinery	Suggested to check and compare the GATE Syllabus.	
3	22ME4202 Hydraulics and Pneumatics Systems	Objectives can be reduced. Unit IV can be reduced. Unit V 'Case studies with application of computing skills' can be included.	
4	22ME4203 Thermal Engineering	Unit I heading is to modified as 'Air standard cycles'.	
5	22ME4251 Strength of Materials	Unit IV 'impact analysis' experiment to be included. Practical to be corrected as per the unit	
6	22ME4202 Manufacturing Technology – II	Suggested to remove the word angle in 'tool and angle grinding'. Unit II and III can be combined. CNC topic can be extended. '3D Printing exercise' to be added.	

Chairman BOS/Mech

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Academic Year: 2023-2024

12th Board of Studies Meeting Minutes

The meeting of 12th Board of Studies in the ME CAD/CAM Postgraduate programme for the academic year 2023-24 was conducted on 19.12.2023 at 11.00 a.m in Physical Mode.

The following members were present:

S.No.	Name of the Expert	Nomination	Remarks
1	**Dr. K. Siva** Professor and Head, Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Chairman	Present
2	**Dr. S.Periyasamy,** Associate Professor, Department of Mechanical Engineering, Government College of Technology, Coimbatore.	Anna University Nominee	Present
3	**Dr. L. Godson Asirvatham,** Professor and head , Department of Mechanical Engineering, Karunya institute of technology and science, Coimbatore	Academic Expert	Present
4	**Dr. M. Senthilkumar ,** Professor & Head, Department of Production Engineering, PSG College of Technology, Coimbatore.	Academic Expert	Absent
5	**Dr.S.R.Rajabalayanan** Professor and Head Mechanical Engineering Department, Hindusthan Institute of Technology	Members from Sister Concern – HiTECH	Present
6	**Dr. C.Nithyanandam** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
7	**Dr. J. Manikandan** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
8	**Dr. V. Senthilmurugan** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present

9	**Dr. Y. Rasmathew** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member	Present
10	**Mr. A.F. BAGGIO,** Managing Director, Redeem Tissues, 195/2D, Sundarapuram, LIC Colony, Coimbatore	Alumnus	Present
11	**Mr. C. Milan Harsish (III)** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	21-25 Batch Student	Present
12	**Mr. N. Praveen (IV)** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	20-24 Batch Student	Present
13	**Mrs N. Selvi** Ward Councillor Othakalmandapam Coimbatore	Parent Member	Absent

The chairman of the BOS, welcomed all the dignitaries for the meeting. He introduced the BoS members. Also, he has given an outline of the institution and department along with the salient features of the Curriculum and Syllabi.

During the presentation he emphasized the importance of employability enhancement courses, life skill, soft skill, design thinking and IPR related subjects.

Further, the following points are discussed

- The Chairman –BoS (Dr.K.Siva) welcomed all the members for the 12th Board of Studies meeting.
- The Chaiman, BoS elaborated the Regulations 2020 Curriculum scheme to the members also he explained the new inclusion categories in the curriculum like Professional elective and with internal mark weightage system.

Recommendations by BoS members (Subject Related)

The following recommendations put forth by the BoS Members,

- **Dr. S.PERIYASAMY,**– Anna University Nominee suggested to add recent manufacturing technologies topics in Computer Aided Manufacturing subject.
- **Dr. L. GODSON ASIRVATHAM -** Acedemic expert suggested to add Design Calculation topics in Computer Aided Design subject.
- The Chairman, BoS and all members accepted to incorporate the above said modification.

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

- The syllabi of III semester of the PG Programmes for the students admitted during the academic year 2022 - 2023 and onwards was passed and permitted to move on Academic Council.

Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with thanks to the Chair at 01.30 P.M.

Chairman / Chairperson (BoS)

Enclose:

1. Previous BoS meeting Minutes
2. Action Taken Report
3. Curriculum and Syllabi (R2019)
4. Curriculum and Syllabi (R2022)

Copy:

1. The Principal
2. Dean Academics
3. Controller of Examinations
4. All the Members of BoS
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Othakalmandabam Post, Coimbatore
Department of Mechanical Engineering

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Date: 20.12.2023

Action Taken Report - PG

The meeting of the 12th Board of Studies for the CAD/CAM Postgraduate Programme for the academic year 2023-24 was conducted on 19.12.2023 at 11.00 a.m in Physical Mode

Syllabus related Recommendations:

S. No	Course Code & Course Name	Suggestions given by BoS experts	Action taken
1.	20CC1203 Computer Aided Manufacturing	suggested to add recent manufacturing technologies topic.	Suggestion passed and to be incorporated in the forthcoming Even semester of Academic year 2023-24.
2.	20CC1201 Computer Aided Design	suggested to add Design Calculation topic.	

Chairman BOS/Mech

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DEPARTMENT OF MECHATRONICS ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Mechatronics Engineering**

Date: 29.11.2023

The Twelfth Board of Studies meeting of regulation R2022 for the academic year 2023-2024 EvenSemester was conducted on 28.11.2023 at 10.30a.m.in board room,Hindusthan College of Engineering and Technology.

The following members were present:

S.No.	Name of the Member	Position
1.	Dr. P.T.Saravanakumar Professor & Head, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Chairman
2.	Dr.S.Periyasamy Associate Professor, Department of Mechanical Engineering, Government of Technology, Coimbatore	University Nominee
3.	Dr.M.Poongothai Associate professor, Department of Electronics and communication Engineering, Coimbatore Institute of Technology, Coimbatore	Academic Expert
4.	Dr.S.Saravanan Professor & Associate Dean – Autonomous Functioning, Department of Production Engineering, PSG College of Technology, Coimbatore.	Academic Expert
5.	Mr.Gomathinayagam Deputy General manager, Design & Analysis Product Development Centre,, Larsen & Toubro, Coimbatore - 641044	Industry Expert
6.	Dr.A.ArockiaRajan Professor Solid Mechanics Division, Department of Applied Mechanics, Indian Institute of Technology Madras,Chennai – 600 036.	Member from QS Rated Institution
7.	Dr.B.Paulchamy Professor and Head, Department of Electronics and communication Engineering Hindusthan College of Technology, Coimbatore	Member from Sister Concern (HiTech)
8.	Dr.T.Vandarkuzhali Professor, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Internal Member

9.	Dr.R.Madhusudhanan Associate Professor, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Internal Member
10.	Dr.Pradeep Johnson Associate Professor, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Internal Member
11.	Mr.S.PremAnand Assistant Professor, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Internal Member
12.	Mr.C.P.Jeyakishan Chief Executive Engineer, MEG, Ganapathy, Coimbatore-641006	Alumni Member
13.	Mr.Sufyan Ahmed Third year Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Student Member

- The Chairman welcomed University nominee, Subject experts, special invitees and all the internal members for the Board of Studies meeting.
- The chairperson briefly explained the Salient features of Regulation 2019& 2022 to all the BoS members
- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell (CDC) &Department Advisory Committee (DAC).
- The feedback received on curriculum by the stakeholders was presented.
- As per the direction of Curriculum Development Cell (CDC), B.Tech honor courses of single vertical can be reframed to three verticals for the R2022 & R2019 (Batch 2021-2025) and also we introduce for minor degrees for R2019 (Batch 2021-2025).
- Curriculum & Syllabus for the courses to be passed in the 2023-2024 Even semester.
- Syllabus offered for the Minor degree and Honour degree (6th Semester only) by the individual U.G Programme under Regulation 2019 for the batch admitted during 2021-22
- Employability Enhancement Courses can be update in R2022 curriculum
- Vision & Mission of the department are discussing to reframe according to the PEO.
- Skill Enhancement courses are opted as a value-added course in upcoming Odd/Even Semester
- Followed by, Chairmanpresented the suggestions given by the BoS experts and the action taken report during the Previous BoS meeting, which was held during 30.05.2023,was approved.

The following are the recommendations put forth by the BoS members,

1. For R2022"22MT4201 - Processor and controller", insert Temperature Controller using 8085- Keyboard / Display Controller 8279: Pin diagram- Architecture- Interfacing 8279 with 8085.
2. For R2022 "22MT4202- Metrology and Measurements" In unit V Force Measurements in Industrial Applications topics replaced by A Case Study of Metrology in Pharmaceutical Industry.
3. For R2022 "22MT4203- Theory of machines" In Unit 3 force analysis to be removed, Unit 1 cams to be separate unit with recent applications and Unit 2, gears and gear trains are consider as unit 3.

General Recommendations:

1. Chairman conveyed that; the Suggestions given by the Board of Studies members to be incorporated in R2022.
2. Course objectives and Course Outcomes should be follow the bloom's Taxonomy.
3. Chairman conveyed about the Consideration of MOOC courses like NPTEL/Coursera / Edxetc as Additional credit courses so that students can get wide exposure on knowledge sharing.

The following resolutions were made in the Board of Studies meeting,

The syllabi of IV semester of the UG Programmes 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.

Chairman conveyed that, suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with thanks to the chair at 12.30 pm.

Chairman

(Board of studies)

Chairman - BoS
MCT - HiCET

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 2022
3. Curriculum and Syllabi

Copy:

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

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Date: 21.12.2023

ACTION TAKEN REPORT ON BoS

Name of the Department: Mechatronics Engineering

The meeting of eleventhboard of studies of Regulation 2019& Regulation 2022 for the Department of Mechatronics Engineering, Under GraduateProgramme was conducted on 28.11.2023 at 10.30 am, in IQAC Board room, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision for the Regulations 2019

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1.	NIL		

Overall Percentage of revision made in the BoS: NIL

(II) Syllabus Revision for the Regulations 2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	22MT4201 - Processor and controller	INSERTION	5%
2	22MT4202- Metrology and Measurements	DELETION& INSERTION	2.5%
3	22MT4203 - Theory of Machines	DELETION& INSERTION	30%

Overall Percentage of revision made in the BoS: 37.5%

(III) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1	R2022	22HE4101 - IPR and Start-ups	2
2	R2022	22MT4251 - Sensors and Transducers	3
3	R2022	22MT4252- Fluid Power System	3
4	R2022	22MT4001 - Processor and controller Laboratory	2
5	R2022	22MT4001 -CAD Laboratory	2
6	R2019	21MT6601 - Sensors and Interfacing	3
7	R2019	21MT6601- Hydraulics and Pneumatics	3
8	R2019	21MT6203- Drives and Actuators for Automation	3
9	R2019	21MT6204- Power Electronics	3
10	R2019	21MT6205- Brain Computer Interface and its Applications	3
11	R2019	21MT6206- Digital Image Processing	3
12	R2019	21MT6207- Medical Robotics	3
13	R2019	21MT6208- Agricultural Robotics andAutomation	3

(IV). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	For R2022 "22MT4201 - Processor and controller", insert Temperature Controller using 8085- Keyboard / Display Controller 8279: Pin diagram- Architecture- Interfacing 8279 with 8085.	Considered
2.	For R2022 "22MT4202- Metrology and Measurements" In unit V Force Measurements in Industrial Applications topics replaced by A Case Study of Metrology in Pharmaceutical Industry.	Considered
3.	For R2022 "22MT4203- Theory of machines" In Unit 3 force analysis to be removed, Unit 1 cams to be separate unit with recent applications and Unit 2, gears and gear trains are consider as unit 3.	Considered

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

Dean Academics
Dean (Academics)
HiCET

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DEPARTMENT OF AGRICULTURAL ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Agricultural Engineering** **Date:** 14.12.2023

The Tenth Board of Studies meeting of regulation 2019 Regulation, 2019 Regulation with amendments and 2022 Regulation (for the students to be admitted from 2020-2021, 2021-2022 and 2022-23 onwards) for the academic year 2023-2024 EVEN Semester was conducted on 13.12.2023 at 3.00 p.m. in the Board Room (Virtual mode), Hindusthan College of Engineering and Technology.

Google Meet link: https://meet.google.com/zxf-yxat-qug

The following members were present:

S.No.	Name of the Member	Position
1	Dr Sridhar M Associate Professor & Head, Department of Agricultural Engineering, HiCET.	Chairman
2	Dr.M.Krishnaveni Professor (Agrl. Engg), Centre for Water Resources Anna University, Chennai.	University Nominee
3	Mr. C.Mayilsamy Professor & Head Dept of Agrl. Engg, Karunya Institute of Technology and Sciences, Coimbatore	Academic Expert
4	Dr.M. Singaravelu Professor Dept of Agrl. Engg SNS College of Engineering Coimbatore.	Academic Expert
5	Dr.Manickavasagan Annamalai Associate Professor, University of Guelph,Ontario, Canada	Academic Expert
6	Mr.C.V.Madheswaran Managing Director, KSNM Marketing, Coimbatore BME Industrial Expert; SF NO 29/1B Onapalayam Coimbatore- 641190.	Industry Expert
7	Er.Ranjitha S Manager-Farm Operations Greenzy- Krishirishi Agrofarms LLP.	Alumni

	Coimbatore.	
8	Er.Sakthi Kumar M	Alumni
9	Mr.Seerangurayar T Assistant Professor Department of Agricultural Engineering, HiCET.	Member
10	Dr. Dinesh Kumar S Assistant Professor Department of Agricultural Engineering, HiCET.	Member
11	Mrs.Kalaiselvi M Assistant Professor Department of Agricultural Engineering, HiCET.	Member
12	Ms.Sowmiya V Assistant Professor Department of Agricultural Engineering, HiCET.	Member
13	Dr.Dhayalan V Assistant Professor Department of Agricultural Engineering, HiCET.	Member
14	Mrs.K.Ramya Assistant Professor Department of Agricultural Engineering, HiCET.	Member
15	Dr.Rajaravi C Associate Professor Department of Agricultural Engineering, HiCET.	Member
16	Mr. Manogaran P	Parents
17	Mrs. Bharathi D	Parents
18	Siddhartha B D Department of Agricultural Engineering, HiCET.	Student Member
19	Jeba Jeni J Department of Agricultural Engineering, HiCET.	Student Member

The university Nominee Dr.M.Krishnaveni and all the other external members attended the meeting via online (Google Meet)

- The Chairman-BoS welcomed the University nominee, Subject Experts, special invitees and all the internal members for the Tenth Board of Studies meeting.
- Chairman presented the suggestions given by the experts and the action taken report of the previous BoS meeting held on 07.06.2023. Members of the BOS approved the same.
- The feedback received on curriculum by the stakeholders was presented by the Chairman-BoS

- Chairman also gave an outline of the changes to be made in the curriculum given by the Department Advisory Committee (DAC) and emphasized the importance of curriculum to be in line with the industry needs.
- Chairman explained about the integration of curriculum with Indian Institute of Technology, Kharagpur (Department of Agricultural, Food, and Artificial Intelligence in Agriculture) under regulation 2022 for skill development and its importance to BoS members.
- Chairman indicated that the syllabus of B.Tech (Hons) and Hons. With Specialization has been added in the current syllabus related to IIT, Kharagpur for skill development and explained the value added courses.
- As recommended by DAC members, syllabus revision/updation under regulation 2019 Regulation, 2019 Regulation with amendments and 2022 Regulation Even semester in Theory, Theory with lab components and laboratory experiments for Agricultural Engineers were discussed in the meeting.
- The Chairman discussed the verticals of B.Tech (Hons) and Hons. With Specialization of syllabus under regulation 2022 for the students.

The following are the recommendations put forth by the BoS members,

For the Regulations 2022 Curriculum

1. Suggested to have modifications in B.Tech (Hons) and Hons. With Specialization syllabus and to have advanced courses in same domain.
2. Suggested to include advances in agriculture and employability course in the curriculum.
3. Suggested to allow the students for learning Python language integrated with agricultural courses.

For the Regulations 2019 with amendments curriculum and Syllabus

1. University Nominee Dr.M.Krishnaveni recommended 30 % revisions in "**21AG6201-Hydrology and Water Resources Engineering**" and updates in Unit II, Unit IV and Unit V (For the Batch 2021 – 2025).

2. Dr.M.Singaravelu recommended 5 % syllabus revision in "**21AG6181 - Professional Ethics**", has been for the Batch 2021 – 2025. Suggestion are to add the topic "Maintain physical health in yoga" in Unit I and delete the topic "Uses of Ethical Theories" from Unit II.

3. Dr. C. Mayilsamy recommended 13 % syllabus revision in "**21AG6251 - Food and Dairy Engineering**" the Batch 2021 – 2025 to delete the topic "Production of high quality milk - Method of raw milk procurement aseptic packaging" from Unit I , "Cleaning and Sanitation – Dairy effluent treatment and disposal" from Unit II, "Raoult"s law, Norrish, Ross, Salwin - Slawson equations" from Unit III and "Coffee, Tea processing - manufacture of margarine" from Unit IV and to add the topic "testing of milk" in Unit I and "GAB model isotherms, Gordon–Taylor equation and WLF equation" in Unit III.
4. Mr. Manogaran P suggested add one more practical in Principles and Practices of Crop Production and Mr.C.V.Madheswaran recommended 10 % of syllabus content change in "**22AG2252R & Principles and Practices of Crop**" by Delete the topics "and its crop production" in Unit I and the topic "cropping system add cropping pattern", "Establishment of an adequate crop stand and ground cover, including " in Unit II and add the topic "main field preparation", Delete the topics "need for supplementation to soil supplied " , "of supplemental nutrients including fertigation scheduling" and "Types and methods of harvest" in Unit III and add the topic "irrigation- types – irrigation scheduling – crop water requirement ", Delete the topics "such as those grown for green manure and fodder in Unit IV and add the topic "irrigation- types – irrigation scheduling – crop water requirement "
5. Er.Sakthi Kumar M Suggested to change Unit content in B.Tech (Minor) course Farm Machinery and Equipments
6. Er.Rangitha S Suggested to add application based syllabus content in B.Tech (Hons) courses
7. Dr. Sridhar N suggested the course 21AG6203 Design of Farm Machinery and System & 21AG6204 Tractor Systems Design –I under the vertical I Farm Machinery and Power
8. Ms.Sowmiya V suggested the course 21AG6205 Water Resources System Engineering & 21AG6206 Watershed Management and Modelling under the vertical II Simulation and Modelling in Irrigation.
9. Mr.Seerangurayar suggested the course 21AG6207 Instrumentation and Control in Food Industries & 21AG6208 Food Plant and Equipment Design under the vertical III Food Engineering
10. Dr. Dinesh Kumar S suggested the course 21AG6209 Basics of solar PV systems and components & 21AG6210 Basics of Agronomic practices and components under the vertical IV Agrivoltaics Technology.

11. Dr.Dhayalan V suggested the course 21AG6211 Dependable and Secure AI-ML & 21AG6212 Deep Learning Foundations and Applications under the vertical V Artificial Intelligence Machine Learning and Applications.
12. Ms. Mrs.Kalaiselvi M suggested the course 21AG6601 Soil & Water Conservation Engineering & 21AG6602 Farm Machinery and Equipment's under the Minor verticals.
13. 21VAAGO3- Training on Mobile App and Web Development for monitoring agricultural practices and 22VAAG01 - Principles of machine drawing as additional Credit Courses are recommended by the University Nominee Dr.M.Krishnaveni .

General Recommendations:

1. University Nominee suggested to create awareness among students related to MOOC Courses and credit transfer.
2. Siddhartha B D and Jeba Jeni J Suggested to invite the industrial expert to conduct the hands on training to the students.

The following resolutions were made in the Board of Studies meeting,

For Regulations 2019:

- The curriculum and syllabus for the VIII semester was passed by the Agriculture Engineering board and permitted to move on Academic Council by the BoS members of Agriculture Engineering for the students admitted during the academic year 2020-2021 and onwards.
- The curriculum and syllabi of 2019 regulation with amendments along with revision and updation for the VI semester Courses of B.E Agriculture Engineering program for the students admitted during the academic year 2021-2022 and onwards was suggested to move on to Academic Council.

For Regulation 2022:

- The syllabus for Semester – II under regulation 2022 passed by the Agriculture Engineering board are permitted to move on Academic Council by the members of Agricultural Engineering with modification.
- The syllabus for Semester – IV under regulation 2022 passed by the Agriculture Engineering board are permitted to move on Academic Council by the members of Agricultural Engineering as such.
- Chairman has confirmed that, the suggestions given by the subject experts will be considered and the syllabus will be updated based on the suggestions given in this BoS meeting.

The meeting ended with thanks to the Chair at 4.30PM.

Chairman

(Board of studies)

Chairman - BoS
AGRI - HiCET

Enclose:

1. Previous BoS Minutes- ATR
2. Regulation 2019 and 2022 with amendments
3. Curriculum and Syllabi

Copy:

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

Hindusthan College of Engineering and Technology

Approved by AICTE, New Delhi, Accredited with 'A++' Grade by NAAC
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore – 641 032

Date: 15.12.2023

ACTION TAKEN REPORT ON 10th BOS

Name of the Department: **Agricultural Engineering**

The meeting of Tenth Board of studies of Regulation 2019 and Regulation 2022 for the Department of Agricultural Engineering under Graduate Programme was conducted on 13.12.2023 at 3.00 PM in the Board Room, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision for the Regulations 2019 with Amendments (2021 Batch) and Regulation 2022

S.No	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1	21AG6201- Hydrology and Water Resources Engineering	Included and Modified	30%
2	21AG6181- Professional Ethics	Included and Deleted	5%
3	21AG6251 - Food and Dairy Engineering	Included and Deleted	13%
4	22AG2252R - Principles and Practices of Crop Production	Included and Modified	10%

Syllabus Revision carried out in 2023-2024 EVEN Semester

2022 Regulation (2023 batch) - II semester = 10 %
2019 Regulation with amendments (2021 batch) - VI semester = 8 %

(II) New Course Introduced: NIL

(III) Additional Credit Courses Introduced:

S.No.	Course Code with Name
1.	21VAAGO3- Training on Mobile App and Web Development for monitoring agricultural practices.
2.	22VAAG01 - Principles of machine drawing

(IV) B. Tech (HONS) & B.Tech (HONS with specialization) and Minor Degree Agricultural Engineering curriculum introduced under Regulation 2022

S.No	Regulation	Course Code with Name	Credits
1	2022	21AG6203 & Design of Farm Machinery and System	3
2	2022	21AG6204 & Tractor Systems Design -I	3
3	2022	21AG6205 & Water Resources System Engineering	3
4	2022	21AG6206 & Watershed Management and Modelling	3
5	2022	21AG6207 & Instrumentation and Control in Food Industries	3
6	2022	21AG6208 & Food Plant and Equipment Design	3
7	2022	21AG6209 & Basics of solar PV systems and components	3
8	2022	21AG6210 & Basics of Agronomic practices and components	3
9	2022	21AG6211 & Dependable and Secure AI-ML	3
10	2022	21AG6212 & Deep Learning Foundations and Applications	3
11	2022	21AG6601 & Soil & Water Conservation Engineering	3
12	2022	21AG6602 & Farm Machinery and Equipment's	3

(V). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1	Suggested to create awareness among students related to MOOC Courses and credit transfer.	Considered
2	Recommended to arrange more internship opportunities for the students	Considered

Chairman
(Board of Studies)

Chairman - BoS
AGRI - HiCET

Dean Academics

Dean (Academics)
HiCET

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DEPARTMENT OF FOOD TECHNOLOGY

MINUTES OF THE BOARD OF STUDIES MEETING

Name of the Department: **Food Technology**

The Tenth Board of Studies meeting of regulation 2019 and regulation 2022 (for the students to be admitted from 2022-23 onwards) for the academic year 2023-2023 Even semester was conducted on 15.12.2023 at 10.00 a.m. in the Department of Food Technology, HICET, Coimbatore through hybrid Mode (Offline and Online - Google meet: meet.google.com/mcx-ivie-wps).

The following members were present:

S. No.	Name of the Person	Department	Position
1.	Dr. Jeevarathinam G	Associate Professor & Head, Department of Food Technology, HICET.	Chairman
2.	Dr. Nandhini Devi G	Associate Professor, Centre for Food Technology, ACT Campus, Anna University, Chennai.	University Nominee
3.	Dr. Shanmugasundaram S	Registrar (i/c), Department of Food Process Engineering, NIFTEM-T (Formerly Indian Institute of Food Processing Technology), Ministry of Food Processing Industries, Government of India Pudukkottai Road, Thanjavur.	Subject Expert
4.	Dr. Eyarkai Nambi V	Associate Professor, Department of Academics and HRD, NIFTEM-T (Indian Institute of Food Processing Technology), Ministry of Food Processing Industries, Government of India Pudukkottai Road, Thanjavur.	Subject Expert
5.	Mrs. Vidyalakshmi Y	Head of Quality Assurance, Olam international Pvt., Ltd, Kerala.	Industry Expert

6.	Dr. Pandiselvam R	Scientist, Physiology, Biochemistry and Post-Harvest Technology Division, ICAR –Central Plantation Crops Research Institute, Kasaragod-671 124, India.	Member from QIS rated Institution
7.	Dr. Deepa J	Assistant Professor, Department of Food Technology, HICET.	Member
8.	Ms Nivetha T	Assistant Professor, Department of Food Technology, HICET.	Member
9.	Dr. Navarasam R	Assistant Professor, Department of Food Technology, HICET.	Member
10.	Mrs. Nageswari G	Assistant Professor, Department of Food Technology, HICET.	Member
11.	Mr. Dillwyn S	Assistant Professor, Department of Food Technology, HICET.	Member
12.	Mr. Premkumar J	Assistant Professor, Department of Food Technology, HICET.	Member
13.	Ms. C. Ronitalini	Crystal Tea India Private Limited, Coimbatore.	Alumini
14.	Ms. V. M. Tejaswini	Student, Department of Food Technology, HICET	Student Member
15.	Mr Naveen Kumar M	Student, Department of Food Technology, HICET	Student Member
16.	Ms. A. Kowsalya	Student, Department of Food Technology, HICET	Student Member
17.	Mr. R. Shellamuthu	Parent	Parent Member

The chairman of the BoS, **Dr Jeevarathinam G** welcomed the university nominee, Subject Experts, special invitees and all the internal members for the X Board of Studies meeting. The chairman introduced the BoS members.

The Chairman presented the suggestions given by the experts and the action taken report of the previous BoS meeting held on 09.06.2023. Members of BOS approved the same.

The consolidated feedback on curriculum by the stakeholders was presented by the Chairman-BoS.

The chairman gave an outline of the suggestions given by the members of Department Advisory Committee (DAC) related to the curriculum and syllabus. The Board of Studies member's suggestion had been sought in this regard.

The following points were discussed.

The following Discussion on Curriculum and Syllabus took place:

- The Chairman briefed the curriculum and Syllabus for the Regulation 2019 and 2022.

- The chairman presented the curriculum and syllabus for II and IV Semester for the R 2022 and VI and VIII Semester for the R 2019

The following are the recommendations were put forth by the BoS members:

For the Regulations 2022 Curriculum

In almost all the courses, changes have been done as per the current needs and the stakeholders feedback

1. Suggested to change the title of the course 22FT2251 – Biochemistry to Food Biochemistry and Nutrition and include the topics related to metabolic pathways, biochemical changes and Nutrition.
2. suggested to include recent advances experiments in 22FT4002 Unit Operations in Food Processing Laboratory.
3. suggested to include Refrigeration equipment topics in 22FT4202 Refrigeration in Cold Chain Management.

For the Regulation 2019 curriculum and syllabus

Theory with Lab component course was suggested (in the previous ACM meeting) to be introduced in Honour degree verticals in the regulation 2019.

1. Technology of snack and extruded foods
2. Mushroom Processing Technology
3. Fermentation Technology
4. Enzymes in Food Processing

General Recommendations

1. University Nominee and subject experts suggested to plan workshops, Industry training and encourage students to publish research articles in reputed journals.
2. Suggested to create opportunities for the students to participate in National Level Start-up and idea contests.

The following resolutions were made in the Board of Studies meeting,

For Regulation 2019:

- The curriculum and syllabus of 2019 with update for the VIIIth semester courses of B.Tech. Food Technology program for the students admitted during the academic year 2020-2021 and onwards was suggested to move on to Academic council.
- The syllabus for the value-added course Waste Management in Food Industries and Skill Development in Sensory Assessment Techniques was presented.

For Regulation 2022:

- The curriculum under regulation 2022 for the students admitted from the academic year 2022-2023 onwards for the B.Tech. Food Technology and the same were presented and discussed. It was suggested to move on to Academic council.
- The syllabus for the Semester – II under regulation 2022 passed by the Board of Science and Humanities, Information Technology, Mechanical Engineering are permitted to move on Academic Council by the members of Food Technology.
- The syllabus for the value-added course Food Colors and Flavors Technology was presented.
- Chairman has confirmed that, the suggestions given by the subject experts will be considered and the syllabus will be updated based on the suggestions given in this BoS meeting.

The meeting ended with thanks to the Chair at 11.30 p.m.

Chairman

(Board of Studies)

Chairman - BoS
FT - HiCET

Enclose:

1. Previous BoS meeting Minutes
2. Action Taken Report
3. Regulation 2019 with amendments
4. Curriculum and Syllabi

Copy:

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Valley Campus, Pollachi Highway, Coimbatore – 641032

DEPARTMENT OF FOOD TECHNOLOGY

15.12.2023

ATTENDANCE OF BOS MEETING (X)

S.No	Name of the Person	Position	Signature
1.	Dr. G. Jeevarathinam	Chairman	
2.	Ms. T. Nivetha	Member	
3.	Dr. J. Deepa	Member & Autonomous Coordinator	
4.	Dr. R. Navarasam	Member	
5.	Dr. J. Prem kumar	Member	
6.	Mr. S. Dillwyn	Member	
7.	Mrs. G. Nageswari	Member	
8.	Ms. C. Ronitalini	Alumni	
9.	Ms. V. M. Tejaswini	Student member	
10.	Mr Naveen Kumar M	Student member	
11.	Ms. A. Kowsalya	Student member	
12.	Mr. R. Shellamuthu	Parent member	

CHAIRMAN BOS
Chairman - BoS
FT - HiCET

Hindusthan College of Engineering and Technology
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Valley Campus, Pollachi Highway, Coimbatore – 641032

Date: 18.12.2023

DEPARTMENT OF FOOD TECHNOLOGY

ACTION TAKEN REPORT on BoS

The tenth Board of Studies meeting for the regulation 2019 and regulation 2022 (for the students to be admitted from 2022-23 onwards) for the academic year 2023-2024 Even semester was conducted on 15.12.2023 at 11.00 a.m. at HICET, Coimbatore through hybrid Mode (Offline and Online: meet.google.com/mcx-ivie-wps).

(I) Syllabus Revision for the regulation 2022

S. No	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1.	22FT4002 - Unit Operations in Food Processing Laboratory	Incorporated	20%
2.	22FT4203 - Unit Operations in Food Processing	Incorporated	20%
3.	22FT4202 - Refrigeration in Cold Chain Management	Modified	20%

Overall Syllabus Revision: 10.71%

(III) Courses Introduced in R2022

S. No	Subject in which revision has been done	Action taken
1.	22FT2251 - Food Biochemistry and Nutrition	Incorporated
2.	21FT6204 - Ready to eat foods	Incorporated
3.	21FT6205 - Cane Sugar Technology	Incorporated
4.	21FT6601 - Fruits and Vegetable Processing Technology	Incorporated
5.	21FT6602 - Poultry, Meat, and Fish Processing Technology	Incorporated

(IV) General Recommendations:

S.No.	Suggestions / Comments given by the Members for 2019 Regulation	Action Taken	Report
1.	The new course 22FT2251- Food Biochemistry and Nutrition in the Semester II was introduced	Suggestion passed	Suggestion approved

2.	The Syllabus for the following Honours degree courses to be offered in the even semester under R 2019 was discussed 21FT6204 Ready to eat foods 21FT6205 Cane Sugar Technology	Suggestion passed on the standing committee	Suggestion Approved
3.	The Syllabus for the following Minor degree courses under R 2019 was discussed 21FT6601 Fruits and Vegetable Processing Technology 21FT6602 Poultry, Meat, and Fish Processing Technology	Suggestion passed on the standing committee	Suggestion Approved
4.	The revision of course content for the following courses under R2022 were proposed 22FT4002 Unit Operations in Food Processing Laboratory 22FT4203 Unit Operations in Food Processing 22FT4202 Refrigeration in Cold Chain Management	Suggestion passed on the standing committee	Suggestion Approved
5.	The syllabus for the following value-added courses were presented in the Bos Meeting 1. Waste Management in Food Industries 2. Skill Development in Sensory Assessment Techniques 3. Food Colors and Flavors Technology	Suggestion passed on the standing committee	Suggestion Approved
6.	As per the suggestions given in the previous Academic council meeting, Theory with Lab component courses were introduced under the verticals of the Honors degree program 1. Technology of snack and extruded foods 2. Mushroom Processing Technology 3. Fermentation Technology 4. Enzymes in Food Processing	Suggestion passed on the standing committee	Suggestion Approved
S.No	**General Suggestions / Comments given by the Members**	**Action Taken**	**Report**
1.	University Nominee and subject experts suggested to plan workshops, Industry training and encourage students to publish research articles in reputed journals.	Suggestion passed on the standing committee	Suggestion Approved

2.	Suggested to create opportunities for the students to participate in National Level Start-up and idea contests.	Suggestion passed on the standing committee	Suggestion Approved

Chairman
(Board of Studies)

Chairman - BoS
FT - HiCET

Dean Academics

Dean (Academics)
HiCET

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Tel: +91 422 4242424 www.hicet.ac.in

DEPARTMENT OF CHEMICAL ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Chemical Engineering** **Date:** 24.11.2023

The IX Board of Studies meeting of regulation 2019, 2019 with amendement and regulation 2022 for the academic year 2023-2024 EVEN Semester was conducted on 24.11.2023 at 10.30 a.m. in the Principal Board room, Hindusthan College of Engineering and Technology.

The following members were present:

S.No.	Name of the Member	Position	Stutus
1.	**Dr Seenuvasan M** Professor & Head, Department of Chemical Engineering, HICET.	Chairman	Present
2.	**Dr Venkatesan S** Professor and Head Department of Petrochemical TechnologyUniversity College of Engineering Bharathidasan Institute of Technology (BIT) CampusAnna University, Tiruchirappalli	University Nominee	Absent
3.	**Dr Prabhakaran D** Professor, Department of Chemical Engineering, Coimbatore Institute of Technology,Coimbatore	Academic Expert	Present
4.	**Dr Karunakaran.S** Associate Professor, Department of Chemical Engineering,KPR Institute of Engineering & Technology Arasur,Coimbatore-641047.	Academic Expert	Present
5.	**Dr Raja T** Professor, Department of Chemical Engineering,Engineering Department, Salalah College of Technology, Salalah 211, Sultanate of Oman, Oman. (Attended through online: Google Meet: https://meet.google.com/ysk-quosj-ibs)	Academic Expert	Present

6.	**Mr.Venkatesan Jayraman** Product Engineering Manager-Acid Gas Products Schlumberger, Cameron India,III floor,TIDEL Park Coimbatore	Industry Expert	Present
7.	**Mr Gokul Jothi R** Engineer-CFD Simgrosys Consulting Service Pvt.Ltd	Alumini	Present
8.	**Dr Balasubramani K** Associate Professor Department of Chemical Engineering, HICET	Member	Present
9.	**Dr Vivek M S** Assistant Professor Department of Chemical Engineering, HICET	Member	Present
10.	**Mr Nagul Dev S** Assistant Professor Department of Chemical Engineering, HICET	Member	Present
11.	**Mr.Dinesh Kumar.M** Assistant Professor Department of Chemical Engineering, HICET	Member	Present
12.	**Mr Harish Kumar M** Student, Department of Chemical Engineering, HICET	Student Member	Present
13.	**Mr Ihlas Ahmed** Student, Department of Chemical Engineering, HICET	Student Member	Present
14.	**Ms.Vaishali.B** Student, Department of Chemical Engineering, HICET	Student Member	Present
15.	**Mr Prabhakaran S** Parent	Parent Member	Present

- The Chairman-BoS welcomed the Experts, special invitees and all the internal members for the IX Board of Studies meeting.
- Chairman presented the suggestions given by the experts and the action taken report of the previous BoS meeting held on 24.11.2023. Members of the BOS approved the same.
- The feedback and analysis required on curriculum by the stakeholders was presented by the Chairman-BoS.
- Chairman also gave an outline of the changes to be made in the curriculum given by the Department Advisory Committee (DAC) and emphasized the importance of curriculum to be in line with the industry needs.
- As recommended by DAC members, syllabus revision/Updation for the Even semester under regulation 2022 in Chemical Engineering Thermodynamics-II, Process Heat Transfer, Mass Transfer Operations-I, Chemical Reaction Engineering-I, Chemical Process Industries, and Heat Transfer lab were discussed in the meeting.
- The Chairman discussed the two new courses to be introduced under **Honors with**

Specialization (Advanced Analytical Separation Techniques, Advanced Spectrometry: ICP-MS and LC-MS) & Two courses Minor Degree (Fluid Flow Operations in Chemical Engineering, Fundamentals of Chemical Thermodynamics) under regulation 2019 with amendment for the students admitted from the academic year 2021-2022 onwards.

The following are the recommendations put forth by the BoS members,

1. In "22CH4201" – "Mass Transfer Operations-I" recommended 25% revisions (For the Batch admitted from 2022 – 2023 onwards).
2. In "22CH4202 – "Chemical Engineering Thermodynamics-II" 20 % revision has been recommended (For the Batch admitted from 2022 – 2023 onwards).
3. In "22CH4203 – "Process Heat Transfer" 20 % revision has been recommended (For the Batch admitted from 2022 – 2023 onwards).
4. In "22CH4204 – "Chemical Process Industries" 20 % revision has been recommended (For the Batch admitted from 2022 – 2023 onwards).
5. In "22CH4251 – "Chemical Reaction Engineering-I" 20 % revision has been recommended (For the Batch admitted from 2022 – 2023 onwards).
6. In "22CH4001 – "Heat Transfer lab" 20 % revision has been recommended (For the Batch admitted from 2022 – 2023 onwards).
7. The new courses introduced- Advanced Analytical Separation Techniques, Advanced Spectrometry: ICP-MS and LC-MS, Fluid Flow Operations in Chemical Engineering, Fundamentals of Chemical Thermodynamics (under regulation 2019 for the students admitted from the academic year 2020-2021 onwards.)
8. The additional credit course Bulk Solid handling for Chemical Engineers (21VACH02) and Introduction to Chemical Engineering MATLAB (21VACH04) recommend as value added course.
9. Skill Development courses introduced and recommended by the member's.
    - Advanced Analytical Separation Techniques
    - Advanced Spectrometry: ICP-MS and LC-MS
10. Employability Enhance course passed and recommended by the member's

[redacted]

General Recommendations:

1. Recommended more Industry Integration for Curriculum Enrichment.
2. Recommended to provide more opportunities towards skill development courses.
3. Recommended more awareness towards MOOC courses

The following resolutions were made in the Board of Studies meeting,

For Regulations 2019:

- The curriculum and syllabus for the VII semester Elective Courses R2019 was passed by the Chemical Engineering board and permitted to move on Academic Council by the BoS members of Chemical Engineering.

For Regulation 2022:

- The syllabus for Semester – IV under regulation 2022 passed by the Board of Science and Humanities, Electrical & Electronics Engineering are permitted to move on Academic Council by the members of Chemical Engineering.
- Chairman has confirmed that, the suggestions given by the subject experts will be considered and the syllabus will be updated based on the suggestions given in this BoS meeting.

The meeting ended with thanks to the Chair at 12.30 PM.

Chairman
(Board of studies)
Chairman - BoS
CHE - HiCET

Enclose:

1. Previous BoS Minutes- ATR
2. Updated Curriculum and Syllabi under regulation 2019 with amendment & regulation 2022

Copy:

1. The Principal
2. Dean Academics
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Coimbatore – 641 032

Date: 28.11.2023

ACTION TAKEN REPORT

Name of the Department: Chemical Engineering

The meeting of IX board of studies of Regulation 2019, Regulation 2019 with ammendment & Regulation 2022 for the Department of Chemical Engineering Under Graduate Programme was conducted on 24.11.2023 at 10.30 a.m through Offline & Online mode, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision under the Regulations 2022

S.No	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1.	22CH4201" – "Mass Transfer Operations-I"	Modified	25%
2	22CH4202 – "Chemical Engineering Thermodynamics-II"	Modified	20%
3	22CH4203 – "Process Heat Transfer"	Modified	25%
4	22CH4204 – "Chemical Process Industries"	Modified	20%
5	"22CH4251 – "Chemical Reaction Engineering-I"	Modified	20%
6	"22CH4001 – " Heat Transfer lab"	Modified	20%

Overall Percentage of revision made in the BoS : 21.42 %

(II) New Course Introduced (R2019 with amendment):

S. No	Regulation	Course Code with Name	Credits
1	R2019	21CH6209-Advanced Analytical Separation Techniques	3
2	R2019	21CH6210-Advanced Spectrometry: ICP-MS and LC-MS	3
3	R2019	21CH6601- Fluid Flow Operations in Chemical Engineering	3
4	R2019	21CH6602- Fundamentals of Chemical Thermodynamics	3

(III) Additional Credit Courses (R2019):

S.No.	Course Code with Name
1.	21VACH02- Bulk Solid handling for Chemical Engineers
2.	21VACH04-Introduction to Chemical Engineering MATLAB

(IV) Course in the Updated Curriculum under R2022

S.No.	Course Code	Course Title	Credits
1.	22MA1101	Matrices and Calculus (Common)	4
2.	22HE1151	English for Engineers (Common)	3
3.	22PH1151	Physics of Materials	3
4.	22ME1201	Engineering Drawing	3
5.	22IT1151	Python Programming and Practices	3
6.	22HE1071	Universal Human Values (Common)	2
7.	22HE1072	Entrepreneurship & Innovation (Common)	1
8.	22MC1091/ 22MC1092	□□□□□□□□□□□□□/Indian Constitution	0
9	22HE2151	Effective Technical Communication(Common)	3
10	**22MA2104**	Fourier Analysis and Laplace Transforms	4
11	**22PH2101**	Basics of Material Science	2
12	**22CY2101**	Environmental Studies	2
13	22CH2201	Introduction to Chemical Engineering	3
14	**22CY2151**	Chemistry for Engineers	3
15	22ME2001	Engineering Practices (Common)	2
16	22HE2071	Design Thinking (Common)	2
17	**22HE2072**	Soft Skills and Aptitude-I	1
18	22MC2091/ 22MC2092	Heritage of Tamil	0
19	22MC3091	Essence of Indian Traditional Knowledge	
20	22MA3107	Numerical Methods	4
21	22CH3201	Chemical Process Calculations	4
22	22CH3202	Fluid Flow Operations	3
23	22CH3203	Chemical Engineering Thermodynamics – I	3
24	22CH3251	Mechanical Operations	3
25	22ME3253	Basic Mechanical Engineering	3
26	22CH3001	Fluid Flow Operations Lab	2
27	22CH3002	Technical Analysis Lab	2
28	22HE3071	Soft Skills -2 (Common)	1
29	22HE4101	IPR and Start-ups(Common)	2
30	22CH4201	Mass Transfer Operations - I	3
31	22CH4202	Chemical Engineering Thermodynamics – II	3
32	22CH4203	Process Heat Transfer	3
33	22CH4204	Chemical Process Industries	2
34	22EE4251	Basics of Electrical &Electronics Engineering	2
35	22CH4251	Chemical Reaction Engineering-I	3
36	22MA4151	Probability and statistics with R programming	3
37	22CH4001	Heat Transfer Lab	2

38	22HE4071	Soft Skills -3(Common)	1
39	22CH5201	Mass Transfer Operations - II	3
40	22CH5202	Process Instrumentation Dynamics & Control	3
41	22CH53XX	Professional Elective-1	3
42	22CH53XX	Professional Elective-2	3
43	22CH53XX	Professional Elective-3	3
44	22CH5251	Chemical Reaction Engineering-II	3
45	22CH5001	Mass Transfer Operations Lab	2
46	22HE5071	Soft Skills -4/Foreign languages	1
47	22CH6201	Transport Phenomena	3
48	22HE6101	Professional Ethics (Common)	3
49	22CH63XX	Professional Elective-4	3
50	22CH63XX	Professional Elective-5	3
51	22XX64XX	Open Elective – 1*	3
52	22XX64XX	Open Elective – 2*	3
53	22CH6001	Process Control Lab	2
54	22CH6002	Computational Chemical Engineering Lab	2
55	22HE6071	Soft Skills – 5(Common)	2
56	22CH7201	Process Economics and Engineering Management	3
57	22CH7202	Process Equipment Design	4
58	22CH73XX	Professional Elective-6	3
59	22XX74XX	Open Elective – 3*	3
60	22XX74XX	Open Elective – 4*	3
61	22CH7001	Design and Simulation Lab	2
62	22CH7701	Internship	2
63	22CH8901	Project Work/Granted Patent(Common)	10
OPEN ELECTIVE I AND II			
64	22CH6401	Biomass and Bio refinery	3
OPEN ELECTIVE III			
65	22CH7401	Waste to Energy Conversion	3
OPENELECTIVE IV			
66	22LS7401	General studies for competitive examinations	3
67	22LS7402	Human Rights, Women Rights and Gender equity	3
68	22LS7403	Indian ethos and Human values	3
69	22LS7404	Financial independence and management	3
70	22LS7405	Yoga for Human Excellence	3
71	22LS7406	Democracy and Good Governance	3
72	22LS7407	NCC Level – II	3
PROFESSIONAL ELECTIVE COURSES			
DETAILS OF VERTICAL I : PETROLEUM PROCESS TECHNOLOGY			
73	22CH5301	Petroleum Chemistry and Refining Fundamentals	3
74	22CH5302	Primary Refining Technology	3
75	22CH5303	Secondary Refining Technology	3
76	22CH6301	Refinery Advancements and Environmental Regulations	3
77	22CH6302	Petroleum Equipment Design	3
78	22CH7301	Petrochemical Technology	3
DETAILS OF VERTICAL II : ENERGY ENGINEERING			
79	22CH5304	Bioenergy	3

80	22CH5305	Renewable Energy Resources	3
81	22CH5306	Pinch Technology	3
82	22CH6303	Hydrogen And Fuel Cell Technology	3
83	22CH6304	Power Plant Engineering	3
84	22CH7302	Non-Renewable Energy Sources	3
DETAILS OF VERTICAL III : BIOCHEMICAL ENGINEERING			
85	22CH5307	Biochemistry	3
86	22CH5308	Bioprocess Technology	3
87	22CH5309	Fermentation & Bioprocessing	3
88	22CH6305	Bio separation & Downstream Processing	3
89	22CH6306	Enzyme Immobilization Technology	3
90	22CH7303	Bioreactor Design	3
DETAILS OF VERTICAL IV: ENVIORNMENTAL AND SAFETY ENGINEERING			
91	22CH5310	Biochemistry	3
92	22CH5311	Bioprocess Technology	3
93	22CH5312	Fermentation & Bioprocessing	3
94	22CH6307	Bio separation & Downstream Processing	3
95	22CH6308	Enzyme Immobilisation Technology	3
96	22CH7304	Bioreactor Design	3
DETAILS OF VERTICAL V: COMPUTATIONAL ENGINEERING			
97	22CH5313	Computational Techniques	3
98	22CH5314	Optimization of Chemical Processes	3
99	22CH5315	Process Modeling and Simulation	3
100	22CH6309	Pinch Analysis and Heat Exchange Network Design	3
101	22CH6310	Chemical Process Flow sheeting	3
102	22CH7305	Computational Fluid Dynamics	3
DETAILS OF VERTICAL VI : COMPUTATIONAL ENGINEERING			
103	22CH5316	Chemical Plant Design	3
104	22CH5317	Plant Layout	3
105	22CH5318	Design Safety	3
106	22CH6311	Material Selection	3
107	22CH6312	Statutory Requirements & Customer Care	3
108	22CH7306	Process Plant Utilities	3

VERTICALS FOR MINOR DEGREE

CHEMICAL ENGINEERING OFFERING MINOR DEGREE

Minor Specialization in Chemical Engineering

108	22CH5231	Introduction to Chemical Process	3
109	22CH6231	Fluid Flow Operations in Chemical Engineering	4
110	22CH6232	Fundamentals of Chemical Thermodynamics	3
111	22CH7231	Process Heat and Mass Transfer	3
112	22CH7232	Reaction Engineering	3
113	22CH8231	Unit Operations and Process Laboratory	2

Additional courses for Minor Degree			
VERTICAL I: FINTECH AND BLOCK CHAIN			
114	22MB5231	Financial Management	3
115	22MB6231	Fundamentals of Investment	3
116	22MB6232	Banking, Financial Services and Insurance	3
117	22MB7231	Introduction to Block chain and its Applications	3
118	22MB7232	Fintech Personal Finance and Payments	3
119	22MB8231	Introduction to Fintech	3
VERTICAL II: ENTREPRENEURSHIP			
120	22MB5232	Foundations of Entrepreneurship	3
121	22MB6233	Team Building & Leadership Management for Business	3
122	22MB6234	Creativity & Innovation in Entrepreneurship	3
123	22MB7233	Principles of Marketing Management For Business	3
124	22MB7234	Human Resource Management for Entrepreneurs	3
125	22MB8232	Financing New Business Ventures	3
VERTICAL III: ENVIRONMENT AND SUSTAINABILITY			
126	22CE5232	Sustainable infrastructure Development	3
127	22AG6233	Sustainable Agriculture and Environmental Management	3
128	22BM6233	Sustainable Bio Materials	3
129	22ME7233	Materials for Energy Sustainability	3
130	22CE7233	Green Technology	3
131	22CE8232	Environmental Quality Monitoring and Analysis	3
B Tech (Hons) Chemical Engineering with Specialization in Computer Aided Process Engineering			
132	22CH5205	Process Flow Sheeting	3
133	22CH6203	Transport Phenomena	4
134	22CH6204	Advanced Process Optimization	3
135	22CH7203	Artificial Intelligence in Process Engineering	3
136	22CH7204	Digital Twin and Soft Computing in Process Modelling	3
137	22CH8201	Advanced Process Modelling and Simulation	2
B Tech (Hons) Chemical Engineering with Specialization in Polymer Technology			
138	22CH5206	Polymer Chemistry	3
139	22CH6205	Processing Technology	3
140	22CH6206	Rubber Technology	3
141	22CH7205	Polymer Product Design, Blends, and Alloys	3
142	22CH7206	Polymer Structure and property relationships	3
143	22CH8202	Polymer Compounding Technology	3
B Tech (Hons) Chemical Engineering with Specialization in Petroleum Engineering			
144	22CH5207	Petroleum Geology	3
145	22CH6207	Petroleum Exploration	3
146	22CH6208	Drilling Technology	3
147	22CH7207	Petroleum Production Engineering	3
148	22CH7208	Petroleum Reservoir Engineering	3
149	22CH8203	Offshore Engineering	3

B Tech (Hons) Chemical Engineering with Specialization in Instrumental Chemical Analysis			
150	22CH5208	Principles of Mass Spectrometry	3
151	22CH6209	Advanced Analytical Separation Techniques	3
152	22CH6210	Advanced Spectrometry: ICP-MS and LC-MS	4
153	22CH7209	Instruments for Morphology and Structural Characterization	3
154	22CH7210	Statistical Analysis and Data Processing Laboratory	2
155	22CH8204	Troubleshooting Analytical Methods and Instruments	3

(V). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1	Recommended more Industry Integration for Curriculum Enrichment.	Considered
2	Recommended to provide more opportunities towards skill development courses.	Considered

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

Dean Academics
Dean (Academics)
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Coimbatore – 641 032

Date: 09.12.2023

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **COMPUTER SCIENCE AND ENGINEERING**

The 13th Board of Studies meeting of regulation R2019 & R2022 for the academic year 2023 -2024 Even Semester was conducted on 09.12.2023 at 10.00 a.m. in Hybrid mode, Hindusthan College of Engineering and Technology. (Google Meet: meet.google.com/vkk-mdwf-yjs).

The following members were present:

S. No.	Name of the Member	Position
1	**Dr Shankar S** **Professor & HOD** Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Chairman
2	**Dr Thulasimani K** Professor, Department of Computer Science and Engineering, Government College of Engineering, Tirunelveli-627007	University Nominee
3	**Dr Karthika Renuka D** Professor, Department of Information Technology, PSG College of Technology, Coimbatore.	Subject Expert
4	**Dr Surendiran B** Associate Professor Dept of Computer Science and Engineering, National Institute of Technology, Puducherry.	Member from QIS rated Institution
5	**Dr Prakash P** Associate Professor School of Computer Science and Engineering, VIT Chennai.	Member from QIS rated Institution
6	**Mr Dinesh Raja** Managing Director, Haqto Technologies, Coimbatore	Industry Expert
7	**Mr Balamukesh** Coimbatore	Alumni
9	**Ms Sathya S** Assistant Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology,	Autonomous Coordinator & BoS Member

	Coimbatore-641032	
10	**Dr Satheesh Kumar D** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Autonomous Coordinator & BoS Member
11	**Dr Prakash J** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
12	**Mr Mahesh D** Assistant Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
13	**Mr. DHANASELVAN J U** 720721104076 - III BE CSE B Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
14	**Mr. M.Kamalesh Kumar** 20104102 - IV BE CSE B Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
15	**Mr . Jayaprakash T** Parent Member F/o. **Mr. DHANASELVAN J U** 720721104076 - III BE CSE B	Parent Member
16	**Mr.Mohan Kumar P** Parent Member F/o, Mr.Kamalesh Kumar,IV BE CSE B	Parent Member

- Dr.S.Shankar, Chairman, Board of Studies, welcomed the University nominee, Subject experts, Special Invitees and all the internal members for the thirteen 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 during **14.06.2023** ,was approved.

- The feedback received on the curriculum by the stakeholders was presented.

- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell (CDC) & Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC) and emphasized the importance of including the Skill Development related courses in the curriculum to be in line with the industry needs.

- The Chairman also mentioned the revision of R2019 Syllabus, which meets on higher order thinking levels, based on the recommendations from Stakeholders and emphasized the following points.
    - Scheme of Regulation 2022-2023
    - Courses for the Programme.
    - Syllabus for the courses of the Fourth semester alone under 2022 regulation
    - 6th semester Minors, Honors subject alone is discussed for 2019 regulation.

Also, the following points were discussed.

- Discussion of inclusion of Minor and Major Degree programmes for Scheme of Curriculum 2022-2023 with Minors, Honors system in new regulation 2022.
- The whole curriculum and syllabi of Fourth semester subject alone is discussed for 2022 regulation.
- The curriculum and syllabi of 6th semester Minors, Honors, Honors with specialization subject alone is discussed for 2019 regulation.
- Syllabus for minor degree courses passed by CSE, Civil and MBA ie Fundamentals of Investment, Banking, Financial Services and Insurance, Introduction to Business Venture.

*For **2021-2022** batch students, the following courses has been introduced or revised*

1. 21CS6601 - Databases and SQL course is introduced as new Minor degree course in the semester VI with 3 credits.
2. 21CS6602 - Principles of Internet Of Things course is introduced as new Minor degree course in the semester VI with 3 credits.
3. 21CS6203 - IOT Design course is introduced as new Honours degree course in the semester VI with 3 credits.
4. 21CS6204 - Privacy and Security in IoT course is introduced as new Honours degree course in the semester VI with 3 credits.
5. 21CS6205 - Introduction to block chain course is introduced as new Honours degree course in the semester VI with 3 credits.
6. 21CS6206 - Cryptocurrency course is introduced as new Honours degree course in the semester VI with 3 credits.

7. 21CS6207 - Front End Development with REACT JS and TYPESCRIPT course is introduced as new Honours degree course in the semester VI with 3 credits.
8. 21CS6208 - Back End Development with NodeJS course is introduced as new Honours degree course in the semester VI with 3 credits.

- *For **2022-2023** batch students, the following courses has been introduced or revised*

1. 22CS4201 - Database Management Systems course is a theory course and it is introduced as new course in semester IV with credit 3.
2. 22CS4251 - Design And Analysis Of Algorithms course is a theory with lab component course and it is introduced as new course in semester IV with credit 4.
3. 22CS4203 - Software Design with UML course is a theory course and it is introduced as new course in semester IV with credit 3.

- *For **2023-2024** batch students, the following courses has been introduced*

1. 22HE2071 - Design Thinking course is introduced as new course in the semester-II as Employability course with two credits.
2. 22HE2072 - Soft Skills and Aptitude 1 course is introduced as new course in the semester I as Employability course with one credit
3. 22MC2094 - தமிழரும் தொழில்நுட்பமும் course is introduced as new course in the semester I as mandatory course with one credit
4. 22MC2095 - Tamils And Technology course is introduced as new course in the semester I as mandatory course with one credit

The following are the recommendations put forth by the BoS members,

1. The subject expert Dr Prakash P Suggested to change the title from software Analysis & Design to "Software Design with UML" because the syllabus covers more on Unified Modeling Language concepts instead of Design concepts
2. The Industry expert Dinesh Raja Suggested to include typescript ,Spring boot tools in the Node js syllabus.
3. Dr Thulasimani K , Anna University Nominee Suggested to include scenario based questions in lab component
4. The subject expert Karthika renuka Suggested to replaced R programming with Python, Chairman Explained as already students studying python in other courses like Machine Learning, NLP etc..
5. The subject expert Dr Surendiran B Suggested to include SIOT topic in UNIT -5.
6. Value added course Advanced java programming and html,css is introduced which includes various courses for the students to enhance their technical skills.

General Recommendations:

1. Dr Thulasimani K , Anna University Nominee appreciated for including industrial oriented courses and agreed that students would be surely benefitted and suggested to provide sufficient time to students to complete the courses
2. Industry Expert Dinesh Raja, recommended to create awareness in the field of cyber security to the students and conduct hands-on workshop in this field.
3. The subject expert Dr Surendiran B Suggested to include recent editions of text and reference books in the syllabus. Also suggested that, if one text book covers all the units then one text book is enough. Otherwise, more than one text books may be included in the syllabus.
4. Dr Prakash, Subject Expert Suggested to include lab component courses for Specialization course (Professional Electives, Open Electives and Minor Degree Courses).

The Chairman, BoS and all members accepted to incorporate the above in the curriculum.

The following resolutions were made in the Board of Studies meeting,

- The curriculum and syllabi of 2019 Regulation with Amendments for the VIII semester was passed by the Computer Science and Engineering board and permitted to move on Academic Council by the BoS members of CSE for the students admitted during the academic year 2020 - 2021 and onwards.
- The curriculum and syllabi of 2019 Regulation with Amendments for the VI semester Courses of Computer Science and Engineering Board for the students admitted during the academic year 2021 - 2022 and onwards was suggested to move on to Academic Council.
- The curriculum and syllabi of 2019 Regulation with Amendments for the IV semester Courses of Minors, Honors, Honors with specialization subject were introduced and passed by the Computer Science and Engineering board and permitted to move on Academic Council for the students admitted during the academic year 2022 - 2023 onwards.
- The Curriculum and Syllabus of Regulation 2022 for the II Semester Subjects- 22MAXXX, 22PHXXX, 22HEXXX, and 22MCXXX were introduced and passed by Science and Humanities board and permitted to move on Academic Council by the BoS members of Computer Science and Engineering for the students admitted during the academic year 2023-2024 onwards.

The meeting ended with thanks to the Chair at 11.00 AM.

Chairman

(Board of studies)

Chairman - BoS
CSE - HiCET

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 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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Coimbatore – 641 032

Date: **09.12.2023**

ACTION TAKEN REPORT ON BoS

Name of the Department: **COMPUTER SCIENCE AND ENGINEERING**

The 13th Board of Studies meeting of regulation R2019 & R2022 for the academic year 2023 -2024 Even Semester was conducted on 09.12.2023 at 10.00 a.m. in Hybrid mode, Hindusthan College of Engineering and Technology.

(Google Meet: meet.google.com/vkk-mdwf-yjs).

(I) Syllabus Revision for the Regulations 2019 & 2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	21CS6601 - Databases and SQL	Introduced	100%
2	21CS6602 - Principles of Internet Of Things	Introduced	100%
3	21CS6203 - IOT Design	Introduced	100%
4	21CS6204 - Privacy and Security in IoT	Introduced	100%
5	21CS6205 - Introduction to block chain	Introduced	100%
6	21CS6206 - Cryptocurrency	Introduced	100%
7	21CS6207 - Front End Development with REACT JS and TYPESCRIPT	Introduced	100%
8	21CS6208 - Back End Development with NodeJS	Introduced	100%
9	22CS4201 - Database Management Systems	Introduced	100%
10	22CS4251 - Design And Analysis Of Algorithms	Introduced	100%
11	22CS4203 - Software Design with UML	Introduced	100%

Overall Percentage of revision made in the BoS: 33%

(II) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1	2019	21CS6601 - Databases and SQL	3
2	2019	21CS6602 - Principles of Internet Of Things	3
3	2019	21CS6203 - IOT Design	3
4	2019	21CS6204 - Privacy and Security in IoT	3
5	2019	21CS6205 - Introduction to block chain	3
6	2019	21CS6206 - Cryptocurrency	3
7	2019	21CS6207 - Front End Development with REACT JS	3

		and TYPESCRIPT	
8	2019	21CS6208 - Back End Development with NodeJS	3
9	2022	22CS4201 - Database Management Systems	3
10	2022	22CS4251 - Design And Analysis Of Algorithms	4
11	2022	22CS4203 - Software Design with UML	3
12	2022	22MC2094 - தமிழரும் தொழில்நுட்பமும்	1
13	2022	22MC2095 - Tamils And Technology	1

(III) Mandatory Courses

S.No.	Course Code with Name
1.	22MC2094 - தமிழரும் தொழில்நுட்பமும்
2.	22MC2095 - Tamils And Technology
3.	22MC2093 - NCC */NSS / YRC / Sports / Clubs / Society Service - Enrollment (Common)
4.	21CS6701 - Internship/Industrial Training
5.	21HE6071 - Soft Skill-II
6.	21HE6072 - Intellectual Property Rights(IPR)

(IV) Non-credit Mandatory Courses

S.No.	Course Code with Name
1.	22MC2093 - NCC */NSS / YRC / Sports / Clubs / Society Service - Enrollment (Common)

(V) Additional Credit Courses Introduced:

S.No.	Course Code with Name
1.	21CS6701 - Internship/Industrial Training
2.	21HE6071 - Soft Skill-II
3.	21HE6072 - Intellectual Property Rights(IPR)

(VI) The following recommendations given by stakeholders are considered and incorporated.

1. The subject expert Dr Prakash P Suggested to change the title from software Analysis & Design to "Software Design with UML" because the syllabus covers more on Unified Modeling Language concepts instead of Design concepts
2. The Industry expert Dinesh Raja Suggested to include typescript ,Spring boot tools in the Node js syllabus.
3. Dr Thulasimani K , Anna University Nominee Suggested to include scenario based questions in lab component

4. The subject expert Karthika renuka Suggested to replaced R programming with Python, Chairman Explained as already students studying python in other courses like Machine Learning, NLP etc..
5. The subject expert Dr Surendiran B Suggested to include SIOT topic in UNIT -5.

(VII). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1	Industry Expert Dinesh Raja, recommended to create awareness in the field of cyber security to the students and conduct hands-on workshop, seminars in this field.	Incorporated
2	The subject expert Dr Surendiran B Suggested to include recent editions of text and reference books in the syllabus. Also suggested that, if one text book covers all the units then one text book is enough. Otherwise, more than one text books may be included in the syllabus.	Incorporated
3	Dr.Prakash, Subject Expert Suggested to include lab component courses for Specialization course (Professional Electives, Open Electives and Minor Degree Courses).	Incorporated

Chairman
(Board of Studies)

Chairman - BoS
CSE - HiCET

Dean Academics

Dean (Academics)
HiCET

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MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 18.12.2023

The meeting of 12th Board of Studies in the Department of Electrical and Electronics Engineering Undergraduate programme for the academic year 2023-24 was conducted on 18.12.2023 at 12.30 pm in Hybrid Mode through Google Meet. (Meeting Link: https://meet.google.com/akn-avtg-jsy)

The following members were present:

S.No.	Name of the Member	Position	Signature
1	Dr.N.P.Ananthamoorthy	Chairman	
2	Dr.T.Aruldoss Albert Victoire	University Nominee	online
3	Dr.K.Baskaran	Academic Expert	18/12/2023
4	Dr. K. Ranjith kumar	Academic Expert	online
5	Mr.Rajesh kumar J	Industry Expert	online
6	Dr.K.Sekar	Member	
7	Dr. K.Mathan	Member	
8	Dr. R. Rajesh Kanna	Member	
9	Ms.B.Nandhini	Member	
10	Mr. M. P. Viswanathan	Member	
11	Mr.G.Muthuram	Member	
12	Mr.K.Saravanakumar	Member	
13	Mr.N.Maheshkumar	Member	
14	Pradeep.D	Alumni	online
15	S.Dineshkumar	Student Member	
16	S.Jayaprasanth	Student Member	
17	S.Awini	Student Member	

The Chairman-BoS (Dr. N.P. Ananthamoorthy) welcomed all the members for the 12th 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 14.06.2023 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.
- Chaiman, 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 VI (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 has been implemented in R2019 (for the students who have admitted in 2021-22 and onwards).
- The curriculum and syllabi for Fourth semester subjects is discussed for 2022 Regulation.
- The equivalence for transferred student was also justified by the chairman.

Recommendations by BoS members (Subject Related)

The following recommendations put forth by the BoS Members,

- Dr.Ranjith Kumar – Academic Expert, appreciated the Regulation 2022 curriculum and syllabus for Minor & Honours / Honours with specialization courses (Sem VI)
- Dr.K.Baskaran - Subject Expert, suggested to reduce certain syllabus. He went through the transmission and Distribution syllabus and gave very important suggestions in revising the syllabus.
- Chairman agreed to incorporate the above suggestions.
- Dr.K.Karthikeyan – Member form QS Rated Institution, appreciated the R2022 Curriculum, Minor & Honours / Honours with specialization vertical subjects. And suggested to remove some obsolete titles and recommended to further revisions.
- Dr. Ranjith Kumar – Subject Expert, suggested to include "Power Plant Engineering" instead "Renewable Energy system" for Minor Degree.
- Chairman accepted to include the above suggestions.
- Industry Expert (Mr.Rajesh kumar.J) appreciated the R2022 curriculum and suggested to include more applications oriented subjects so that student will be benefited for Industry 4.0.

- Chairman agreed to incorporate the above suggestions.
- Dr.T.Aruldoss Albert Victoire – University nominee, recommended to provide the standard keywords in Course Objectives & Course Outcomes for CO-PO-PSO mapping and fulfill the OBE.
- All members are accepted for the above recommendations.
- The service subject offered for chemical engineering students for 4th semester was presented by chairman all the experts accepted it without any change.
- Suggestions to include Sic and Multilevel Inverters in Power Electronics subjects in the next coming Bos were recommended. In Dc-Dc Converter they requested to clearly mention whether it is boost or buck converter.
- All members are accepted to incorporate the above modification.
- Members suggested the following course can be given as a Value Added Course in EVEN semester.
  (i) Fundamentals on LabVIEW Programming for Electrical Engineers
  (ii) Electrical Safety and Software Tools
- 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
- Employability Enhancement courses introduced for member's approval.
  - 22HE4071 – Soft Skills – III (Passed by S&H board)
- The equivalence arrived for the transfer candidate was presented and approval was obtained in the BoS.
- The Chairman, BoS and all members are accepted to incorporate the above recommendations in the syllabus.

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

- The syllabi of IV semester of the UG Programmes (22HE4101 - IPR and Start-ups, 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 II 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.

1. Percentage of Programmes where syllabus revision was carried out in BoS: Nil

2. Introduce Course:

Following new courses are introduced(R2022) for the students admitted in the year 2022-23 and onwards (Semester IV)

- 22EE4201 – Electrical Machines -I: Credit 3
- 22EE4202 – Integrated Circuits: Credit 4
- 22EE4203 – Transmission and Distribution: Credit 3
- 22EE4204 – Power Plant Engineering : Credit 3
- 22EE4001 - Electrical Machines Laboratory: Credit 2
- 22EE4002 - Integrated Circuits Laboratory: Credit 2

Following new courses are introduced(R2019)for the students admitted in the year 2021-22 and onwards (Semester VI)

- 21EE6205 - Advanced Power Plant Engineering: Credit 3
- 21EE6206- Instrumentation for EnergySystems : Credit 3
- 21EE6601 - Power Plant Engineering: Credit 3
- 21EE6602 - Solar photovoltaic Fundamentals and Its Applications: Credit 3

Following new courses are introduced(R2022) for the students admitted in the year 2022-23 and onwards (Semester IV) Chemical Engineering

- 22EE4205- Basics of Electrical and Electronics Engineering

The meeting came to an end at 2.30 p.m with vote of thanks.

Chairman
(Board of studies)

Chairman - BoS
EEE - HiCET

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 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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Coimbatore – 641 032

Date: 16. 06. 2023

ACTION TAKEN REPORT ON BoS

Name of the Department: ELECTRICAL AND ELECTRONICS ENGINEERING

The meeting of 12th Board of Studies of Regulation 2019& Regulation 2022 for the Department of Electrical and Electronics Engineering B.E Programme was conducted on 18.12.2023 at 12.30 pm, in Hybrid Mode, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision for the Regulations 2019: Nil

Overall Percentage of revision made in the BoS: 32.4%

(II) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1.	2022	22EE4201 – Electrical Machines -I	3
2.	2022	22EE4202 – Integrated Circuits and Its Applications	4
3.	2022	22EE4203 - Transmission and Distribution	3
4.	2022	22EE4204 – Power Plant Engineering	3
5.	2022	22EI4251 – Electrical and Electronic Measurements	3
6.	2022	22EE4001 - Electrical Machines Laboratory	2
7.	2022	22EE4002 – Integrated Circuits Laboratory	2
8.	2021	21EE6205 - Advanced Power Plant Engineering	3
9.	2021	21EE6206- Instrumentation for EnergySystems	3
10.	2021	21EE6601 - Power Plant Engineering	3
11.	2021	21EE6602 - Solar photovoltaic Fundamentals and Its Applications	3
12.	2022	22EE4205- Basics of Electrical and Electronics Engineering	2

(III) Mandatory Courses

S.No.	Course Code with Name
1.	22HE4071- Soft Skills - III

(IV) Additional Credit Courses Introduced:

S.No.	Course Code with Name
1.	Fundamentals on LabVIEW Programming for Electrical Engineer (VAC)
2.	Electrical Safety and Software Tools (VAC)

(VI). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	Practical classes and Mini project can be given for minor degree students	Considered
2.	Suggested to incorporate Recent editions of Text and Reference books in the syllabus.	Considered

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

Dean Academics
Dean (Academics)
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Valley Campus, Coimbatore – 641032, Tamilnadu, INDIA
Tel: +91 422 4242424 www.hicet.ac.in

Date: 20.12.2023

MINUTES OF BOS MEETING

Name of the Department: Electronics and Communication Engineering

The Thirteenth Board of Studies meeting for BE-Electronics and Communication Engineering for the academic year 2023-24, even semenster was conducted on 11.12.2023 at 10.00am in hybrid mode using Google meet link : https://meet.google.com/rke-sgkz-oeb.

The following members were present for the meeting.

S. No.	Name of the Person	Department	Position
1.	Dr.P.Vijayalakshmi Professor Hindusthan College of Engineering and Technology	ECE Dept	Chairperson
2.	Dr.S.J.Thiruvengadam, Professor and Dean (Academics), Thiagarajar College of Engineering, Madurai 625 015	ECE Dept	University Nominee
3.	Dr.C.Shanthi Professor & Head of the Department, Govt. College of Technology, Coimbatore-641 013.	ECE Dept	Subject Expert
4.	Dr.Krishaveni V, Professor (CAS) and Head, PSG College of Technology, Coimbatore-641 004.	ECE Dept	Subject Expert
5.	Ms.T.Vidhya Sri, Director, Institute Relations and HR, Adroit technologies Innovation Solutions (IBM Partner), Coimbatore.	Director	Industry Expert (IBM Partner)
6.	Dr.R.Michaelraj Kingston, Professor, Sri Eshwar College of Engineering, Coimbatore.	ECE Dept	Alumni
7.	Dr.M.Pachiyaannan, Associate Professor, Vignan's Foundation for Science, Technology and Research, Guntur, Andra Pradesh	ECE Dept	Member from QIS rated Institution
8.	Dr.B.Paulchamy, Professor, Hindusthan Institute of Technology, Coimbatore	ECE Dept	Member from sister concern

9.	Dr.R.Sabitha Professor Hindusthan College of Engineering and Technology	ECE Dept	Member & Autonomous Coordinator
10.	Dr.K.Kalaiselvi Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
11.	Dr.A.Udhaya Kumar Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member & Autonomous Coordinator
12.	Dr.P.F.Khaleelur Rahiman, Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
13.	Dr.J.Ramya Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
14.	Mr.Manikandan IV ECE B Hindusthan College of Engineering and Technology	ECE Dept	Student Member
15.	Ms.Hariniya S III ECE A Hindusthan College of Engineering and Technology	ECE Dept	Student Member
16.	Ms.Durga II ECE A Hindusthan College of Engineering and Technology	ECE Dept	Student Member

- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the Thirteenth Board of Studies meeting.
- Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous Twelfth BoS meeting which was held on 03.06.2023.
- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell & Department Advisory Committee (DAC) and emphasized the importance of including the cutting-edge technology courses as electives in the curriculum to be in line with the industry needs.
- Chairman presented the syllabus for
  - R-2022-IV Semester (for the students admitted from 2022 onwards),
  - R-2019A-VI Semester (for the students admitted from 2021 onwards), and
  - R-2019 -VIII Semester (for the students admitted from 2020 onwards)
- Chairman also presented the syllabus for Honors and Minor degree courses offered during this even semester under R-2022 (for the students admitted from 2022 onwards) d R-2019A (for the students admitted from 2021 onwards) and R2019.
- Chairman gave an outline of the feedback on curriculum received from the various stakeholders in the meeting.

The following are the suggestions/recommendations put forth by the BoS members,

Common Suggestions Given by All Expert Members

1. Theory courses: Pre Requisite to be added for courses wherever applicable.
2. Lab Courses:

➢ COs should represent Report/ Document/ Record preparation

➢ Tools used for experimentation to be mentioned

3) In text books of courses it is not necessary to mention units covered by the books for the courses.

Regulation 2022 :

1.Subject Expert (Dr. C.Shanthi) & suggested to include more topics in Demodulator in the course 22EC4202 - Analog Communication. She also suggested to include the topics like Random processes, Friss formula, Multiplexing, TDM, Quantization in the same.

2.Subject Expert Dr.C.Shanthi & Dr.R.Michaelraj Kingston(Alumni) suggested to include experiment on noise, all 3 AM waveforms and PAM in 22EC4002 Analog Communication Lab. Also they insisted to mention hardware and software tools used for the same.

3. Member from QIS rated Institution (Dr.M.Pachiyaannan) suggested that, Units I and II in 22EC4201 - Electro Magnetic Fields course has to be revised and suggested to include the text book "Elements Of Electromagnetics" by Sadiku as Text book.

4. University Nominee (Dr.S.J.Thiruvengadam) suggested revision in unit titles for the course 22EC4304 - Transmission Lines and Waveguides.

Regulation 2019A:

1. Dr.M.Pachiyannan (Member from QIS rated Institution) suggested to swap the units II & III and modify the Unit IV title as Frequency Independent antennas in 21EC6202 -Antenna and Wave Propagation course. He also suggested to include topics on Antenna and Measurement in the same course.

2. University Nominee (Dr.S.J.Thiruvengadam) suggested to include the topic 3G/4G/5G Transitions as basics in Unit-I. He suggested to reduce the contents of unit III as it is vast. He also suggested to Include OFDM topic in Unit IV and to distribute contents uniformly for the course 21EC6303 -Mobile Communication.

3.Dr.R.Michaelraj Kingston(Alumni) and Dr.V.Krishnaveni suggested to include the topics Nyquiste sampling, Eye pattern, Pulse shaping criteria, Base band signaling, Constellation diagrams, BPSK (in unit 3), 2PAM, 4PAM, Parity check codes, NSR calculations, Line coding in 21EC6253-Digital Communication course.

4. Member from QIS rated Institution (Dr.M.Pachiyaannan) suggested that ARM processors has to be included in 21EC6251-Embedded Systems and IOT course also depth is needed in 21EC7401-Introduction to IOT course.

5. Subject expert Dr.V.Krishnaveni has suggested to add the book titles as "Digital Communication" Authored by John G. Proakis as one of the Text Books for the course 21EC6253-Digital Communication.

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% revision in the syllabus(BE ECE)

S.No	Course code	Course name	% revision
Regulation 2022			
1	22EC4201	Electro Magnetic Fields	25
2	22EC4202	Analog Communication	25
3	22EC4304	Transmission Lines and Waveguides	5
4	22EC4002	Analog Communication Lab	10
Regulation 2019A			
5	21EC6202	Antenna and Wave Propagation	20
6	21EC6303	Mobile Communication	20
7	21EC7401	Introduction to IOT	10
8	21EC6251	Embedded Systems and IOT	20
9	21EC6253	Digital Communication	30

% Revision in the Curriculum

Total number of courses passed in this BOS	33(regular)+(6*3=)18(Honors)+(1*6=)6 (Minor) = 57
No. of courses revised	10
% revision in courses	17.5 %

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Regulation 2019 and 2019A:

Chairman presented the syllabi for the following Honor Degree Verticals I, II, III and the Minor Degree Courses.

	Regulation	Course Name	Name	Credits
Honor Degree Vertical 1				
Emerging Technologies in Communication Engineering				
1.	R2022	22EC6201/19EC6201R	Optical Communication Networks	3
2.	R2022	22EC6202/ 19EC6202R	Wireless Broadband Networks	3
3.	R2022	22EC7202/19EC7202R	Software Defined Networks	3
4.	R2022	22EC7203 19EC7203R	4G/5G Communication Networks	3
5.	R2022	22EC8201/19EC8201R	Underwater Communication	3
Honor Degree Vertical 1I				
Sensor Technologies and IoT				
6.	R2022	22EC6204/19EC6204R	Sensor for IOT Applications	3
7.	R2022	22EC6205/19EC6205R	Advanced Processor Architectures	3
8.	R2022	22EC7205/19EC7205R	Wearable Devices	3
9.	R2022	22EC7206/19EC7206R	IOT Processors	3
10.	R2022	22EC8202/19EC7207R	IOT based system design	3
Honor Degree Vertical III				
Semiconductor Chip Design and Testing - TESSOLVE Semiconductors				
11.	R2022	22EC6207/19EC6207R	CMOS VLSI Design	3
12.	R2022	22EC6208/19EC6208R	Low Power VLSI Design	3
13.	R2022	22EC7208/19EC7208R	ASIC Design	3
14.	R2022	22EC7209/19EC7209R	System Verilog	3
15.	R2022	22EC8203/19EC5203R	VLSI Testing and Design for Testability	3
Minor Degree Vertical				
Embedded and IoT				
16.	R2022	22EC6601/19EC6601R	Microcontroller and its Applications	3
17.	R2022	22EC6602/19EC6602R	Sensor and Embedded Systems	3
18.	R2022	22EC7601/19EC7601R	Fundamentals of IoT	3
19.	R2022	22EC7602/19EC7602R	IoT for Smart Agriculture	3
20.	R2022	22EC8601/19EC8601R	IoT for Smart Cities	3

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The following resolutions were made in the Board of Studies meeting

The following Syllabi was permitted to move on to Academic Council members under various regulations, after incorporating the suggestions and corrections given by BoS members.

- Syllabi for
  - R-2022-IV Semester (for the students admitted from 2022 onwards),
  - R-2019A-VI Semester (for the students admitted from 2021 onwards), and
  - R-2019 -VIII Semester (for the students admitted from 2020 onwards) and
- The syllabi for Honors and Minor degree courses offered during this even semester under R-2022 (for the students admitted from 2022 onwards), R-2019A (for the students admitted from 2021 onwards) and R2019.

The meeting ended with thanks to the Chair at 02.00 P.M.

P. Hayla
Chairman

(Board of Studies)

Chairman - Bos
ECE - HiCET

Enclose:

1. CDC Minutes
2. DAC meeting Minutes –ATR
3. Previous BoS Minutes-ATR
4. Regulation 2022
5. Curriculum and Syllabi of R2019 and R2022

Copy:

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

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Date: 18.12.23

ACTION TAKEN REPORT ON BOS

Name of the Department: BE Electronics and Communication Engineering

The Thirteenth Board of Studies meeting for BE-Electronics and Communication Engineering for the academic year 2023-24, even semester was conducted on 11.12.2023 at 10.00am in hybrid mode using Google meet link : https://meet.google.com/rke-sgkz-oeb.

General Recommendations:
Modifications:

S. No.	Suggestions Given	Actions Taken
	Common Suggestions	
1.	Given by All Expert Members 1. Theory courses: Pre Requisite to be added for courses wherever applicable. 2. Lab Courses: ➢ COs should represent Report/ Document/ Record preparation ➢ Tools used for experimentation have to be mentioned 3) In text books of courses it is not necessary to mention units covered by the books for the courses	Suggestions are incorporated

S. No.	Course Title	Suggestions Given	Actions Taken
		Regulations 2022	
1.	22EC4201 - Electro Magnetic Fields	• Revision of Units I and II • Include the text book "Elements Of Electromagnetics" by Sadiku as Text book	Suggestions are incorporated

2.	22EC4202 - Analog Communication	• Include more topics for Demodulator, • Include topics like Random processes, Friss formula, Multiplexing, TDM and Quantization.	Suggestions are incorporated
3.	22EC4304 - Transmission Lines and Waveguides	• Revision In Unit Titles	Suggestions are incorporated
5.	22EC4002 -Analog Communication Lab	• Include noise experiment, Generation of all 3 AM waveforms and PAM • Mention hardware and software tools used.	Suggestions are incorporated
Regulations 2019A			
6.	21EC6202 -Antenna and Wave Propagation	• Units II & III to be swapped • Change of Unit IV title as Frequency Independent antennas, • Include topics on Antenna and Measurement	Suggestions are incorporated
7.	21EC6303 -Mobile Communication	• Include 3G/4G/5G Transitions as basics in Unit-I, • Unit III is vast and reduce the contents • Include OFDM topic in Unit IV. • Distribute contents uniformly.	Suggestions are incorporated
8	21EC7401- Introduction to IOT	• Depth of Embedded systems is needed	Suggestions are incorporated
9.	21EC6251- Embedded Systems and IOT	• ARM processors has to be included	Suggestions are incorporated

10.	21EC6253 -Digital Communication	• Include John Proakis as one of the Text Books. • Include the topics Nyquiste sampling, Eye pattern, Pulse shaping criteria, Base band signaling, Constellation diagrams, BPSK (in unit 3), 2PAM, 4PAM, Parity check codes, SNR calculations and Line coding	Suggestions are incorporated

CHAIRMAN

BOS/ECE

Chairman - Bos
ECE - HiCET

DEAN

ACADEMICS

Dean (Academics)
HiCET

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Date: 20.12.2023

MINUTES OF BOS MEETING

Name of the Department: Electronics and Communication Engineering

The Thirteenth Board of Studies meeting for M.E-Communication Systems and M.E Applied Electronics for the academic year 2023-24, even semester was conducted on 11.12.2023 at 10.00am in hybrid mode using Google meet link : https://meet.google.com/rke-sgkz-oeb.

The following members were present for the meeting.

S. No.	Name of the Person	Department	Position
1.	Dr.P.Vijayalakshmi Professor Hindusthan College of Engineering and Technology	ECE Dept	Chairperson
2.	Dr.S.J.Thiruvengadam, Professor and Dean (Academics), Thiagarajar College of Engineering, Madurai 625 015	ECE Dept	University Nominee
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4.	Dr.Krishaveni V, Professor (CAS) and Head, PSG College of Technology, Coimbatore-641 004.	ECE Dept	Subject Expert
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6.	Dr.R.Michaelraj Kingston, Professor, Sri Eshwar College of Engineering, Coimbatore.	ECE Dept	Alumni
7.	Dr.M.Pachiyaannan, Associate Professor, Vignan's Foundation for Science, Technology and Research, Guntur, Andra Pradesh	ECE Dept	Member from QIS rated Institution
8.	Dr.B.Paulchamy, Professor, Hindusthan Institute of Technology, Coimbatore	ECE Dept	Member from sister concern

9.	Dr.R.Sabitha Professor Hindusthan College of Engineering and Technology	ECE Dept	Member & Autonomous Coordinator
10.	Dr.K.Kalaiselvi Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
11.	Dr.A.Udhaya Kumar Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member & Autonomous Coordinator
12.	Dr.P.F.Khaleelur Rahiman, Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
13.	Dr.J.Ramya Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
14.	Mr.Manikandan IV ECE B Hindusthan College of Engineering and Technology	ECE Dept	Student Member
15.	Ms.Hariniya S III ECE A Hindusthan College of Engineering and Technology	ECE Dept	Student Member
16.	Ms.Durga II ECE A Hindusthan College of Engineering and Technology	ECE Dept	Student Member

- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the Thirteenth Board of Studies meeting.
- Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous Twelfth BoS meeting which was held on 03.06.2023.
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    - R-2020-IV Semester (for the students admitted from 2020 onwards), and
- Chairman gave an outline of the feedback on curriculum received from the various stakeholders in the meeting.

The following are the suggestions/recommendations put forth by the BoS members,

Common Suggestions Given by All Expert Members

1) Theory courses: Pre Requisite to be added and course objectives are modified for courses wherever applicable.
2) In text books of courses, it is not necessary to mention units covered by the books for the courses.

Regulation 2020 : M.E (APPLIED ELECTRONICS)

1.Subject Expert (Dr. C.Shanthi) & suggested to change some topics in 20AE2202 VLSI Design Techniques course. She also suggested to include the topics like VLSI design flow and pseudo nmos transistor.

2.Subject Expert Dr.R.Michaelraj Kingston (Alumni) suggested to change some topics in Actel ACT , Xilinx LCA, Altera FLEX and MAX in 20AE2303- ASIC and FPGA Design course.

3. Member from QIS rated Institution (Dr.M.Pachiyaannan) suggested that, Units I and II in 20AE2304-Physical Design of VLSI Circuits course has to be revised Logic Synthesis, Physical Design: Verification and Testing and SoC Design.

4. University Nominee (Dr.S.J.Thiruvengadam) suggested revision in unit titles for the course 20AE2304-Physical Design of VLSI Circuits.

SEMESTER II

S.No.	Course Code	Course Title	Category	L	T	P	C	CIA	ESE	TOTAL
THEORY										
1	20AE2201	Analog Integrated Circuit Design	PC	3	0	0	3	40	60	100
2	20AE2202	VLSI Design Techniques	PC	3	0	0	3	40	60	100
3	20AE23XX	**Professional Elective I**	PE	3	0	0	3	40	60	100
4	20AE23XX	**Professional Elective II**	PE	3	0	0	3	40	60	100
5	20AE23XX	**Professional Elective III**	PE	3	0	0	3	40	60	100
6	20AC20XX	AUDIT COURSE II		2	0	0	0			
PRACTICAL										
7	20AE2001	VLSI Design Laboratory	PC	0	0	4	2	50	50	100
8	20AE2901	MINI PROJECT	PC	2	0	0	2	50	50	100
Total Credits:				**19**	**00**	**08**	**19**			

SEMESTER IV

S.No.	Course Code	Course Title	Category	L	T	P	C	CIA	ESE	TOTAL
PRACTICAL										
1	20AE4901	DISSERTATION - II	PC	0	0	30	15	50	50	100
Total Credits:				**0**	**0**	**30**	**15**			

LIST OF PROFESSIONAL ELECTIVES

Second Semester- (List of Professional Electives I, II, III)

S.No.	Course Code	Course Title	Category	L	T	P	C	CIA	ESE	TOTAL
1.	20AE2303	ASIC and FPGA Design	PE	3	0	0	3	40	60	100
2.	20AE2304	Physical Design of VLSI circuits	PE	3	0	0	3	40	60	100
3.	20AE2308	Wireless Adhoc and Sensor Networks	PE	3	0	0	3	40	60	100
4.	20AE2313R	Machine Learning	PE	3	0	0	3	40	60	100
5.	20AE2319	Cognitive Radio Network	PE	3	0	0	3	40	60	100

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% revision in the syllabus (M.E-APPLIED ELECTRONICS)

S.No	Subject code	Subject Title	% Revision
1	20AE2202	VLSI Design Techniques	5
2	20AE2303	ASIC and FPGA Design	20
3	20AE2304	Physical Design of VLSI circuits	40

% Revision in the Curriculum

Total number of courses passed in this BOS	15
No. of courses revised	03
% revision in courses	20%

Regulation 2020 : M.E (COMMUNICATION SYSTEMS)

II SEMESTER										
S.No	CODE	Courses	CAT	L	T	P	C	CIA	ESE	TOTAL
Theory										
1	20CM2201	Advanced Wireless Communication and Networks	PCC	3	0	0	3	40	60	100
2	20CM2202	Microwave Integrated Circuits	PCC	4	0	0	4	40	60	100
3	20CM23XX	Professional Elective I	PE	3	0	0	3	40	60	100
4	20CM23XX	Professional Elective II	PE	3	0	0	3	40	60	100
5	20CM23XX	Professional Elective III	PE	3	0	0	3	40	60	100
6	20AC20XX	Audit Course II	AC	2	0	0	0	-	-	-
Practical Courses										
7	20CM2001	Communication Networks Laboratory	PCC	0	0	4	2	50	50	100
8	20CM2002	Mini Project / Internship	EEC	0	1	2	2	50	50	100
		Total Credits		**18**	**1**	**6**	**20**			

IV SEMESTER										
S.No	CODE	Courses	CAT	L	T	P	C	CIA	ESE	TOTAL
Practical Courses										
1	20CM4901	Project Phase II	EEC	0	0	24	12	50	50	100
		Total Credits		**0**	**0**	**24**	**12**			

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LIST OF PROFESSIONAL ELECTIVES

PROFESSIONAL ELECTIVES -I, II & III offered during Semester -II

S. No.	Course Code	Course Title	CAT	L	T	P	C	CIA	ESE	TOTAL
1.	20CM2301	Information Theory and Coding Techniques	PE	3	0	0	3	40	60	100
2.	20CM2302	Signal Estimation for wireless communication	PE	3	0	0	3	40	60	100
3.	20CM2305	Embedded and IOT	PE	3	0	0	3	40	60	100
4.	20CM3308	Micro-Electro Mechanical Systems	PE	3	0	0	3	40	60	100
5.	20CM3304	Advanced Radiation Systems	PE	3	0	0	3	40	60	100

The following resolutions were made in the Board of Studies meeting

The following Syllabi was permitted to move on to Academic Council members under various regulations, after incorporating the suggestions and corrections given by BoS members.

- Syllabi for
  - R-2020-II and IV Semester (for the students admitted from 2020 onwards),

The meeting ended with thanks to the Chair at 02.00 P.M.

P. Hari
Chairman

(Board of Studies)

Chairman - Bos
ECE - HiCET

Enclose:

1. CDC Minutes
2. DAC meeting Minutes –ATR
3. Previous BoS Minutes-ATR
4. Regulation 2022
5. Curriculum and Syllabi of R2019 and R2022

Copy:

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

Clinton - Bess
WCC - Hagel

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MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: ELECTRONICS AND INSTRUMENTATION ENGINEERING

Date:11.12.2023

The meeting of 12th Board of Studies in the Department of Electronics and Instrumentation Engineering Undergraduate programme for the academic year 2023-24 was conducted on 11.12.2023 at 10 am in Hybrid Mode.

The following members were present:

S.No.	Name of the Member	Position
1	Dr.B.Anand Professor and Head	BoS, Chairman
2	Dr.T.Aruldoss Albert Victoire, Associate Professor and Head i/c Department of Electrical and Electronics Engineering, Anna University Regional Campus Coimbatore, Coimbatore-641 046.	Anna University Nominee
3	Dr. V. Prasanna Moorthy, Professor, Department of Electrical and Electronics Engineering, Government College of Engineering, Bargur– 635104.	Subject Expert
4	Dr. C. Govindaraju, Associate Professor & HoD, Department of Electrical and Electronics Engineering, Government College of Engineering, Thanjavur-613402.	Subject Expert
5	Mr.A.Ezhilmaran, Project Manager (Control & Automation), Axis Global Automation, 33,Near Manis Theatre, Kathir Avenue Street. Lakshmipuram, Coimbatore - 641 004.	Representative from Industry

6	Dr.P.Karuppanan, Professor, Department of Electronics and Communication Engineering, Motilal Nehru National Institute of Technology, Allahabad, Uttar Pradesh – 211004.	Member from QS Rated Institution
7	Mr.D.Deivasigamani Assistant Professor	Member& Department Autonomous Coordinator
8	Mr.D.Vijayanandh Assistant Professor	Member
9	Mr.R.Vinothkumar Assistant Professor	Member
10	Mr.M.Sudagar Assistant Professor	Member
11	Mrs.N.Kavitha Assistant Professor	Member
12	Mr.B.Chandran Team Leader(Production & Testing), Ojas Automation System, S.no 20, Opp Rathinam college, Pollachi main road, Coimbatore – 641021.	Alumni
13	Mr.S.Divakarvel P/o D.Kanishk 272, SMD complex Chinna kadai veethi st, Salem – 636001.	Parent Member
14	Mr.P.Duraiarasu	Student Member
15	Mr.D.Kanishk	Student Member
16	Mr.Gowtham P.S	Student Member

The Chairman-BoS (Dr.B.Anand) welcomed all the members for the 12th 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 08.06.2023 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.
- Chaiman, 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 VI(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 has been implemented in R2019 (for the students who have admitted in 2021-22 and onwards).
- The curriculum and syllabi for Fourth semester subjects discussed for 2022 Regulation.

Recommendations by BoS members (Subject Related)

The following recommendations put forth by the BoS Members,

- Dr.T.Aruldoss Albert Victoire – University nominee, appreciated the Regulation 2022 curriculum and syllabus for Minor & Honours / Honours with specialization courses (Sem VI)
- Dr.C.Govindaraju - Subject Expert, suggested to include Signal conditioning topics by replacing Flow, Temperature, displacement, level sensors in Unit IV &V in "21EI6203 - Principles of sensors and signal conditioning"
- Chairman agreed to incorporate the above suggestions.
- Dr. V. Prasanna Moorthy – Subject Expert, recommended to include Recent edition of Text books and Reference books for Sem IV, Honours & Minor course syllabus.
- Chairman agreed to incorporate the above suggestions.
- Dr.P.Karuppanan – Member from QS Rated Institution, appreciated the R2022 Curriculum, Minor & Honours / Honours with specialization vertical subjects.
- Dr. C. Govindaraju – Subject Expert, suggested to modify the Unit V in "22EI4205 - Industrial Instrumentation -I" by replacing the following topics "special techniques for high temperature measurement, thermal well"
- Chairman accepted to include the above suggestions.

- Industry Expert (Mr.V.Ezhilmaran) appreciated the R2022 curriculum and suggested to include more applications in Unit V "21EI6204 -Embedded Systems for IoT", so that students can get wide knowledge on IoT applications development.
- Chairman agreed to incorporate the above suggestions.
- Dr.T.Aruldoss Albert Victoire – University nominee, recommended to provide the standard keywords in Course Objectives & Course Outcomes for CO-PO-PSO mapping and fulfill the OBE.
- All members are accepted for the above recommendations.
- In 2nd Sem, R-2022, "22EI2251– Electronic Devices and Circuits" UNIT II is revised by including the following topics "MOSFET, MOSFET types, early effect"
- All members are accepted to incorporate the above modification.
- Members suggested the following course can be given as a Value Added Course in this semester.

  (i) Fundamentals of LabVIEW Programming for Instrumentation Engineers.
- Skill Development courses introduced for member's approval
  - 21LSZ401 –General Studies for Competitive Examinations
  - 21LSZ402 – Human Rights, Women's Rights and Gender Equality
  - 21LSZ403 – Indian Ethos and Human Values
  - 21LSZ404 – Indian Constitution and Political System
  - 21LSZ405 – Yoga for Human Excellence

- Employability Enhancement courses introduced for member's approval.
  - 22HE4071 – Soft Skills – III (Passed by S&H board)

- The Chairman, BoS and all members are accepted to incorporate the above recommendations in the syllabus.

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

- The syllabi of IV semester of the UG Programmes (22HE4101 - IPR and Start-ups, 22HE4071 - Soft Skills -III) for the students admitted during the academic year 2022 - 2023 and onwards was passed by Mechanical Board & S&H Board and permitted to move on Academic Council.

- The syllabi of II 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.

1. Percentage of Programmes where syllabus revision was carried out in BoS:

    - Semester II: 22EI2251– Electronic Devices and Circuits (R 2022): Credit 3 (20 % of Syllabus revisions made)

2. Introduce Course:

    Following new courses are introduced(R2022) for the students admitted in the year 2022-23 and onwards (Semester IV)

    - 22EI4201 – Electrical Machines: Credit 3
    - 22EE4202 – Integrated Circuits and Its Applications: Credit 4
    - 22EI4203 – Industrial Instrumentation-I: Credit 3
    - 22EI4204 – Analytical Instrumentation: Credit 3
    - 22EI4251 – Electrical and Electronic Measurements: Credit 3
    - 22EI4001 - Electrical Machines Laboratory: Credit 2
    - 22EE4002 - Integrated Circuits Laboratory: Credit 2

    Following new courses are introduced(R2019)for the students admitted in the year 2021-22 and onwards (Semester VI)

    - 21EI6203 – Principles of Sensors and Signal conditioning: Credit 3
    - 21EI6204 – Embedded Systems for IoT: Credit 3
    - 21EI6205 – Adaptive Control: Credit 3
    - 21EI6206– Advanced Process Control: Credit 3
    - 21EI6207 – Applied Industrial Instrumentation: Credit 3
    - 21EI6208 – Instrumentation in Building Automation: Credit 3
    - 21EI6231 – Measurements and Measuring Instruments: Credit 3
    - 21EI6232– Industrial Instrumentation: Credit 3

The meeting came to an end at 11.30 a.m with vote of thanks.

Chairman

(Board of studies / EIE)

Chairman - BoS
EIE - HiCET

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 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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TÜVRheinland CERTIFIED

Date: 14. 12. 2023

ACTION TAKEN REPORT ON BoS

Name of the Department: ELECTRONICS AND INSTRUMENTATION ENGINEERING

The meeting of 12th board of studies of Regulation 2019& Regulation 2022 for the Department of Electronics and Instrumentation Engineering was conducted on 11.12.2023 at 10 a.m in Hybrid Mode.

(I) Syllabus Revision for the Regulations 2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1.	22EI2251- Electronic Devices and Circuits	Modified	20%

Overall Percentage of revision made in the BoS: 25.58%

(II) New Courses Introduced:

S. No	Regulation	Course Code with Name	Credits
1.	2022	22EI4201 – Electrical Machines	3
2.	2022	22EE4202 – Integrated Circuits and Its Applications	4
3.	2022	22EI4203 – Industrial Instrumentation - I	3
4.	2022	22EI4204– Analytical Instrumentation	3
5.	2022	22EI4251 – Electrical and Electronic Measurements	3
6.	2022	22EI4001 – Electrical Machines Laboratory	2
7.	2022	22EE4002 – Integrated Circuits Laboratory	2
8.	2019	21EI6203 – Principles of Sensors and Signal conditioning	3
9.	2019	21EI6204 – Embedded Systems for IoT	3
10.	2019	21EI6205 – Adaptive Control	3
11.	2019	21EI6206– Advanced Process Control	3
12.	2019	21EI6207 – Applied Industrial Instrumentation	3
13.	2019	21EI6208 – Instrumentation in Building Automation	3
14.	2019	21EI6231 – Measurements and Measuring Instruments	3
15.	2019	21EI6232– Industrial Instrumentation	3

(III) Mandatory Courses

S.No.	Course Code with Name
1.	22HE4071- Soft Skills - III

(IV). Additional Credit Courses Introduced:

S.No.	Course Code with Name
1.	21VEI5101- Fundamentals of LabVIEW Programming for Instrumentation Engineers

(V). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	Suggested to incorporate Recent edition of Text and Reference books in the syllabus.	Considered
2.	Recommended to provide the standard keywords (Blooms Taxonomy verbs) in Course Objectives & Course Outcomes for CO-PO-PSO mapping in order to fulfill the OBE.	Considered

Chairman
(Board of Studies)

Chairman - BoS
EIE - HiCET

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DEPARTMENT OF INFORMATION TECHNOLOGY

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: INFORMATION TECHNOLOGY **Date: 09.12.2023**

The Thirteenth Board of Studies meeting of regulation 2022 for the academic year 2023 -2024 Even Semester was conducted on 09.12.2023 at 11.00p.m. in Hybrid mode, Hindusthan College of Engineering and Technology.

The following members were present:

S. No.	Name of the Member	Position
1	**Dr M Sabrigiriraj** Professor and Head Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Chairman
2	**Dr Thulasimani K** Professor, Department of Computer Science and Engineering, Government College of Engineering, Tirunelveli-627007	University Nominee
3	**Dr. P. Sakthivel** Professor and Dean University College of Engineering Anna University, Kancheepuram-631552	Subject Expert
4.	**Dr. D. Veera Vanitha,** Associate Professor Department of Electronics and Communication Engineering, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore	Subject Expert
5.	**Dr. S. Geetha** Professor and Associate Dean, School of Computer Science and Engineering, VIT University, Chennai Campus, Chennai-600127	QS rated institution member
6.	**Mr. R. V. Vinay** Senior Project Manager Robert Bosch Engineering and Business Solutions India Ltd Bangalore	Industrial Expert

7	**Mr. R. Gokul** Senior Automation Developer Cognizant Technology Solutions Coimbatore-641035	Alumni
8	**Mr. B. Manikandan** Associate Professor Department of Information Technology Hindusthan Institute of Technology Coimbatore-641032	Member from sister concern
9	**Dr. Beaulah David** Associate Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Autonomous Coordinator & BoS Member
10	**Mr. M. Ganesan** Assistant Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
11	**Ms. T SakthiSree** Assistant Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
12	**Ms. N. Yamuna** Assistant Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
13	**Mr. N. Ilayaraja** Assistant Professor Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
14	**Mr. C. Babiyon Clement** Student (IV Year-IT) Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
15	**Mr. Irshad M Y** Student (III Year-IT) Department of Information Technology Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
16	**Mr. K. Jegan** Student (II Year-IT) Department of Information Technology	Student Member

	Hindusthan College of Engineering and Technology, Coimbatore-641032	
17	**Mr. Jayachandran. V** Parent Member Associate Consultant(C3B), Tata Consultancy Services, Branch: Chennai One, Thorraipakkam, Chennai.	Parent Member

- Dr. M. Sabrigiriraj, Chairman, Board of Studies, welcomed the University nominee, Subject experts, Special Invitees and all the internal members for the twelfth 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 during **14.06.2023** and was approved.

- The feedback received on the curriculum by the stakeholders was presented.

- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell (CDC) & Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC) and emphasized the importance of including the Skill Development related courses in the curriculum to be in line with the industry needs.

- The Chairman also mentioned the R2019 Curriculum and Syllabus for the batch 2020, 2021 batches and R2022 Curriculum and Syllabus for 2022, 2023 batches, which meets on higher order thinking levels, based on the recommendations from Stakeholders and emphasized the following points.
  - Scheme of Regulation 2022 for the academic 2023-2024
  - Syllabus passed in the S&H board was presented for the consent.
  - Curriculum and Syllabus for courses in R2022.
  - Syllabus for the courses of the Third semester.
  - Syllabus for the courses of Sixth semester Honours and Minor courses.
  - Regulation 2019 Curriculum of the Eighth semester.

- Syllabus for minor degree courses passed by CSE, Civil and MBA ie Fundamentals of Investment, Banking, Financial Services and Insurance, Introduction to Business Venture.

- Value added course using Infosys Spring Board, Consensus is introduced in every semester, which includes various courses for the students to enhance their technical skills.

- *For **2021-2022** batch students, the following courses has been introduced or revised*

1. 21IT6181 - Software Project Management course is revised 20% in the semester VI with 3 credits
2. 21IT6201 - Internet of Things course is revised 20% in the semester VI with 3 credits.
3. 21IT6303 - Software Design course is revised 60% in the semester VI with 3 credits
4. 21IT6302 - Information Security course is revised 20% in the semester VI with 3 credits
5. 21IT6251 - Cryptography and Network Security course is revised 40% in the semester VI with 4 credits
6. 21IT6306 - Predictive Modeling course (IBM course) is revised 50% in the semester VI with 3 credits
7. 21IT6252 - Data Sciences course (IBM course) is a theory with lab component course and it is introduced as new course in semester VI with credit 4.
8. 21IT6203 - Knowledge Engineering course is introduced as new Honours degree course in the semester VI with 3 credits.
9. 21IT6204 - Deep Learning course is introduced as new Honours degree course in the semester VI with 3 credits.
10. 21IT6601 - Fundamentals of Data Science course is introduced as new Minor degree course in the semester VI with 3 credits
11. 21IT6602 - Artificial Intelligence and Expert Systems course is introduced as new Minor degree course in the semester VI with 3 credits

- *For **2023-2024** batch students, the following courses has been introduced or revised*

1. 22IT4203 - Object Oriented Software Engineering course is a theory course and it is introduced as new course in semester IV with credit 3.

2. 22IT4251 - Web Framework course is a theory with lab component course and it is introduced as new course in semester IV with credit 4.
3. 22IT4001 - Case Tools Laboratory is introduced as new course in semester IV with credit 1.5.
4. 22IT4002 - Network Laboratory is introduced as new course in semester IV with credit 1.5.
5. 22IT4204 - Design Thinking for Information Technologist course is a theory course and it is revised 40% in the semester IV with 3 credits.
6. 22IT4003 - Design Thinking Laboratory is revised 40% in the semester IV with credit 1.5.

- *For **2024-2025** batch students, the following courses has been introduced*
  1. 22HE2071 - Design Thinking course is introduced as new course in the semester-II as Employability course with two credits.
  2. 22HE2072 - Soft Skills and Aptitude 1 course is introduced as new course in the semester I as Employability course with one credit
  3. 22MC2094 - தமிழரும் தொழில்நுட்பமும் course is introduced as new course in the semester I as mandatory course with one credit
  4. 22MC2095 - Tamils And Technology course is introduced as new course in the semester I as mandatory course with one credit

The following are the recommendations put forth by the BoS members,

1. Dr. D. Veera Vanitha, Subject Expert suggested to update all the text books and reference books with latest edition and said to verify whether the syllabus is covered in the respective books.

2. Dr. S. Geetha, Board of Studies member requested to have courses like Recommended systems, Data visualization, Power BI, Tableau in the curriculum so as to train students and they would be updated in latest industrial courses.
3. Dr. D. Veera Vanitha, Subject Expert suggested to include NPTEL courses in curriculum so that students can learn more through videos and it would be very beneficial for the students placements.

4. All member of Board of studies insisted to concentrate more on programming language's and recommended to have few value added courses on programming

language to update the students and make students to have good knowledge on programming languages.

5. Industry Expert Mr. R. V. Vinay, recommended to insist the importance of cyber security to the students and also insisted to explain the exposure of cyber security area to students.

6. Dr. D. Veera Vanitha, Subject Expert suggested to have industrial internship or mini project in the fourth or sixth semester curriculum so that the students may explore new technologies and it bridge the gap between industry and educational institutions.

7. Employability courses introduced for member's approval.
    - 22HE2071 – Design thinking
    - 22HE2072 - Soft skills and Aptitude I
    - 22MC2094 - தமிழரும் தொழில்நுட்பமும்
    - 22MC2095 – Tamils and Technology

General Recommendations:

1. BOS subject experts Dr. Geetha insisted about placement oriented courses and Industry Expert Mr.R.V.Vinay, recommended to insist the importance of cyber security to the students and also insisted to explain the exposure of cyber security area to students.

2. Dr. D. Veera Vanitha, Subject Expert suggested to update all the text books and reference books with latest edition and said to verify whether the syllabus is covered in the respective books.

The following resolutions were made in the Board of Studies meeting,

- The curriculum and syllabus for the VIII semester was passed by the Information Technology board and permitted to move on Academic Council by the BoS members of Information Engineering for the students admitted during the academic year 2020 - 2024 and onwards.
- The curriculum and syllabi of 2019 with revision and updation for the VI semester Courses of B. Tech Information Technology program for the students admitted during the academic year 2021 - 2025 and onwards was suggested to move on to Academic Council.

- The syllabus for Semester – IV and if any revision and updation under regulation 2022 passed by the Board of Science and Humanities, Mechanical Engineering and Electrical and Electronics Engineering were permitted to move on Academic Council by the members of BoS members of Information technology
- Online certificate courses and value added courses undergone by the students are recommended for the additional credit and were suggested to move on to Academic Council.
- As discussed about the importance of online courses in the last Pre - BoS/ DAC meeting, students have completed online certificate course during the month of July 2023. BOS Members recommended the same and was suggested to move on to Academic Council.

The meeting ended with thanks to the Chair at 1.00 PM.

M. Sabarinathan 9/12/23

Chairman

(Board of studies)

Chairman - BoS
IT - HiCET

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 2022
3. Curriculum and Syllabi

Copy:

1. The Principal
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4. All the members of BoS
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Date: 13. 12. 2023

ACTION TAKEN REPORT ON BoS

Name of the Department: INFORMATION TECHNOLOGY

The meeting of Thirteenth board of studies of Regulation 2019 & Regulation 2022 for the Department of Information Technology B.Tech Programme was conducted on 09.12.2023 at 11.00 am, in Hybrid Mode, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision for the Regulations 2019

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	21IT6181 - Software Project Management	Modified	20%
2	21IT6201 - Internet of Things	Modified	20%
3	21IT6303 - Software Design	Modified	60%
4	21IT6302 - Information Security	Modified	20%
5	21IT6251 - Cryptography and Network Security	Modified	40%
6	21IT6306 - Predictive Modeling (IBM)	Modified	50%
7	22IT4204 - Design Thinking for Information Technologist (IBM)	Modified	40%
8	22IT4003 - Design Thinking Laboratory (IBM)	Modified	40%

Overall Percentage of revision made in the BoS: 40%

(II) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1	2019	21IT6252 - Data Sciences (IBM course)	3
2	2019	21IT6203 - Knowledge Engineering	3
3	2019	21IT6204 - Deep Learning	3
4	2019	21IT6601 - Fundamentals of Data Science	3
5	2019	21IT6602 - Artificial Intelligence and Expert Systems	3
6	2022	22IT4203 - Object Oriented Software Engineering	3
7	2022	22IT4251 - Web Framework	4
8	2022	22IT4001 - Case Tools Laboratory	1.5
9	2022	22IT4002 - Network Laboratory	1.5
10	2022	22MC2094 - தமிழரும் தொழில்நுட்பமும்	1

11	2022	22MC2095 - Tamils And Technology	1

(III) Mandatory Courses

S.No.	Course Code with Name
1.	22MC2094 - தமிழரும் தொழில்நுட்பமும்
2.	22MC2095 - Tamils And Technology
3.	22MC2093 - NCC */NSS / YRC / Sports / Clubs / Society Service - Enrollment (Common)
4.	21IT6701 - Internship/Industrial Training
5.	21HE6071 - Soft Skill-II
6.	21HE6072 - Intellectual Property Rights(IPR)

(IV) Non-credit Mandatory Courses

S.No.	Course Code with Name
1.	22MC2093 - NCC */NSS / YRC / Sports / Clubs / Society Service - Enrollment (Common)

(V) Additional Credit Courses Introduced:

S.No.	Course Code with Name
1.	21IT6701 - Internship/Industrial Training
2.	21HE6071 - Soft Skill-II
3.	21HE6072 - Intellectual Property Rights(IPR)

(VI) The following recommendations given by stakeholders are considered and incorporated.

- Dr. D. Veera Vanitha, Subject Expert suggested to update all the textbooks and reference books with latest edition and said to verify whether the syllabus is covered in the respective books.
- Dr. S. Geetha, Board of Studies member requested to have courses like Recommended systems, Data visualization, Power BI, Tableau in the curriculum so as to train students and they would be updated in latest industrial courses.
- Dr. D. Veera Vanitha, Subject Expert suggested to include NPTEL courses in curriculum so that students can learn more through videos and it would be very beneficial for the students placements.

- Member of Board of studies insisted to concentrate more on programming language's and recommended to have few value added courses on programming language to update the students and make students to have good knowledge on programming languages.
- Industry Expert Mr.R.V.Vinay, recommended to insist the importance of cyber security to the students and also insisted to explain the exposure of cyber security area to students.
- Dr. D. Veera Vanitha, Subject Expert suggested to have industrial internship or mini project in the fourth or sixth semester curriculum so that the students may explore new technologies and it bridge the gap between industry and educational institutions

(VII). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	BOS subject experts Dr. Geetha insisted about placement oriented courses and Industry Expert Mr.R.V.Vinay, recommended to insist the importance of cyber security to the students and also insisted to explain the exposure of cyber security area to students.	Considered
2.	Dr. D. Veera Vanitha, Subject Expert suggested to update all the textbooks and reference books with latest edition and said to verify whether the syllabus is covered in the respective books.	Considered

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

Dean Academics

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MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: BIOMEDICAL ENGINEERING Date: 14.12.2023

The TENTH Board of Studies meeting of Regulation 2022 for the Academic Year 2023-2024,Even Semester was conducted on 14.12.2023at 11:30 A.M. in Library Board Room in hybrid mode, Hindusthan College of Engineering and Technology and the Google Meet Link https://meet.google.com/tyy-kpyh-ofr.

The following members were present

S.No.	Name of the Member	Department	Position
1.	Dr.S.Saravana Sundaram, Professor and Head, Department of Biomedical Engineering,HICET	Department of Biomedical Engineering	Chairman
2.	Dr. .J.Thiruvengadam, Professor Thiyagarajar College of Engineering , Madurai-625015 sjtece@tce.edu	Department of Electronics and Communication Engineering	University Nominee

3.	Dr. Vidhya Priya,Prof & Head Department of Biomedical Engineering, PSG College of Technology, Coimbatore. rvp.bme@psgtech.ac.in	Department of Biomedical Engineering	Academic Expert
4.	Dr.P. Manimegalai,M.E., Ph.D.Associate Professor Department of Biomedical Engineering,Karunya Institute of Technology and Science, Coimbatore. manimegalaip@karunya.edu	Department of Biomedical Engineering	Academic Expert
5.	A. Thirugnanam, Associate Professor and Head, NIT Rourkela, Odisha, Department of Biotechnology and Medical Engineering, thirugnanam.a@nitrkl.ac.in	Department of Biotechnology and Medical Engineering,	Member from QS rated institution
6.	Dr .N.Nandakumar, Industry Expert, Prime Medical systems	Prime Medical systems	Industry Expert
7.	Ms.Mano Ranjitham Batch (2018-22 batch)	IIT Madras	Alumni Member
8.	Dr.T.Murugeswari, Assoc Professor/BME	Department of Biomedical Engineering	Internal Member
9.	Dr.M.Ganga, Assoc Professor/BME	Department of Biomedical Engineering	Internal Member
10.	Mrs.S. Shobha Christila,AP/BME	Department of Biomedical Engineering	Internal Member

11.	Mrs M Deeparani, AP/BME	Department of Biomedical Engineering	Internal Member
12.	Mrs.M.Kirthika,AP/BME	Department of Biomedical Engineering	Internal Member
13.	Ms.Sella Dharshini C,AP/BME	Department of Biomedical Engineering	Internal Member
14.	Ms.Nivedha D.R,AP/BME	Department of Biomedical Engineering	Internal Member
15.	Ms.Patricia Nancy S,AP/BME	Department of Biomedical Engineering	Internal Member
16.	Mayura Gurubaran S	Department of Biomedical Engineering	Student-II BME
17.	Mr.B.Sonaimuthi	Department of Biomedical Engineering	Student-III BME
18.	Ms.M.Bavithra	Department of Biomedical Engineering	Student-IV BME
19.	M/0 ,Ms.Shonofer,(IV BME)	Department of Biomedical Engineering	Parent Member

- Due to his/ her preoccupied schedule Dr. Thirugnanam, Associate Professor and Head, NIT Rourkela not attend the meeting.
- The chairman of the BoS, **Dr. S. Saravanasundaram** welcomed all the dignitaries for the meeting. **Chairman / Chairperson** introduced the BoS members.
- The feedback received on the curriculum by the stakeholders was presented.
- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell (CDC) & Pre-Board of studies (Pre-BoS)/ Department Advisory Committee (DAC).
- The **Chairman / Chairperson** presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during 19.05.2023 was approved.
- **Chairman / Chairperson** also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell (CDC) & Department Advisory Committee (DAC) and emphasized the importance of including the employability enhancement courses, life skill, soft skill, design thinking and IPR related courses in the curriculum to be in line with the industry needs.

- Chairman presentation of revision/updation.
- Any other approval from the members
- Completed and current semester value-added courses.
- The curriculum and syllabus for the new courses

Also,

The following are the recommendations put forth by the BoS members,

- Honor and Minor for regulation 2021 are put forwarded by HoD.
- **Regulation 2022**

- Academic Expert (**Dr.P.Manimegalai**) suggested that suggested that In Biomedical Instrumentation syllabus, instead of 'analysis' topic, the 'acquisition' topic can be included.
- University Nominee (Dr. S.J. Thiruvengadam) suggested that In Experiment no.6 using PPG can be included. Furthermore, signal conditioning units may be incorporated in the fifth unit in place of the assistive device.
- Academic Expert (**Dr.P.Manimegalai**) suggested that The topics such as Bio-amplifier, Amplifier, Filters and Isolated oscillators are suggested for include in signal conditioning unit. The subject expert recommends updating the most recent edition of the textbook on biomedical instrumentation.
- University Nominee **(Dr. S.J. Thiruvengadam)** suggested that instead of linear integrated circuit syllabus, the signal conditioning circuits syllabus can be included.
- Academic Expert (**Dr.Vidhya priya**) suggested that that in 'Microprocessor and Microcontroller in Medical Application' Subject, the course objectives will be updated based on blooms taxonomy level. In CO2, the word 'Recall' can be changed as 'Remember'.
- University Nominee **(Dr. S.J. Thiruvengadam)** suggested that Goyanger's book is an excellent resource for learning about Microprocessors and Microcontrollers in Medical Applications.
- Academic Expert (**Dr.P.Manimegalai**) suggested that the syllabus of "Sensors and Measurements" can be replaced by the syllabus of "Biosensors and Transducers".
- Academic Expert (**Dr.Vidhya priya**) suggested that in HAP Lab Exp No.8 can be replaced by some other experiment.
- Academic Expert (**Dr.P.Manimegalai**) suggested that in Integrated Circuits Lab some more experiments may be included.
- University Nominee **(Dr. S.J. Thiruvengadam)** suggested that in Honour course:

Brain Computer Interface Member suggested that some inter relevant required for machine learning concept in this syllabus.

- Academic Expert **(Dr.P.Manimegalai)** suggested that Machine Learning and Artificial Intelligence Avoid overlapping with previous subject Text book
- Industry Expert **(Dr.N.Nandakumar),** suggested that Medical Health Technology the total no of hours will be changed to 9 hours per unit in addition to that Suggested that add Big data, Cloud computing in the syllabus and In reference books: R1 need to be updated.

The following resolutions are made in the Board of Studies meeting:

- In almost all the courses, changes have been done as per the current needs.
- The Curriculum and Syllabus of Regulation 2022 for the IV Semester Subjects- 22HE4101-IPR and startups and 21HE6072-IPR were introduced and passed by Mechanical board and permitted to move on Academic Council by the BoS members of Biomedical Engineering for the students admitted during the academic year 2022-2023 onwards and 2021-2022 onwards .
- 22HE2071 Design thinking & 22HE2072 Softskills-2 were introduced and passed by S&H board and Department Of Corporate Relations respectively ,Permitted to move on Academic Council by the BoS members of Biomedical Engineering for the students admitted during the academic year 2022-2023 onwards.
- Chairman conveyed that, the Suggestions given by the Board of Studies members are to be incorporated in Regulation 2022.
- Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

1. **<<if Department specific Board of Studies resolutions/Common**

   Suggestions: >>

   - Panel Members Suggested more new courses can be introduces in the new regulation which can be useful for placement and higher studies.

The meeting came to an end at 1 pm with vote of thanks.

Chairman / Chairperson(B o S)

Chairman BoS
BME - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. 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 Copy

Hindusthan College of Engineering and Technology

An Autonomous Institution, Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
Accredited by NBA (AERO, AUTO, CIVIL, CSE, ECE, EEE, IT, MECH, MECHATRONICS)
Accredited by NAAC with 'A++' Grade, An ISO Certified Institution
Valley Campus, Coimbatore – 641 032, Tamilnadu, INDIA
Tel: +91 422 4242424 www.hicet.ac.in

Date:15. 12. 2023

ACTION TAKEN REPORT ON BoS

Name of the Department: BIOMEDICAL ENGINEERING

The Tenth Board of Studies meeting of Regulation 2022 for the Academic Year 2023-2024,Even Semester was conducted on 14.12.2023 at 11:00 A.M. in Library Board Room in hybrid mode, Hindusthan College of Engineering and Technology and the Google Meet Link https://meet.google.com/tyy-kpyh-ofr.

(I) Syllabus Revision for the Regulations 2019

S .No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	-NA-		

(II) New Course Introduced:

S. No	Regulation	Course Code	Course Name	Credits
1.	2022	22BM4251	Micro Controllers And Its Applications In Medicine	4
2.	2022	22BM4252	Biomedical Instrumentation	4
3.	2019	22BM6231	Biosensor And Medical Instrumentation	3
4.	2019	22BM6232	Radiological Equipment	3
5.	2019	22BM6203	Brain Computer Interface	3
6.	2019	22BM6204	Machine Learning And Artificial Intelligence	3
7.	2019	22BM6205	Medical Health Technologies	3
8.	2019	22BM6206	Robotics In Medicine	3

Number of Courses Revised: 8
Total Number of Courses Passed: 22
The Percentage of Course Revised: 36%

(III) Mandatory Courses

S.No.	Course Code with Name
1.	21BM6701 Industrial Training*
2.	21HE6071 Soft Skill-II
3.	21HE6072 Intellectual PropertyRights
4.	**22MC2091/** தமிழர் மரபு/ Heritage of Tamil **22MC2092**

(IV) Non-credit Mandatory Courses

S.No.	Course Code with Name
1	-nil-

(V) EEC Courses (SE/AE) Courses

S .No.	Course Code with Name
1.	22HE2071- Design Thinking
2.	22HE2072- Soft Skills-1

(VI) The following recommendations given by stakeholders are considered and incorporated.

(VII). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	Minor degree programme latest text books can be included.	Considered

Chairman
(Board of Studies)

Chairman - BoS
BME - HiCET

Dean Academics

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(An Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore – 641 032

Date: 09.12.2023

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

The 8th Board of Studies meeting of regulation R2019 & R2022 for the academic year 2023 -2024 Even Semester was conducted on 09.12.2023 at 11.00 a.m. in Hybrid mode, Hindusthan College of Engineering and Technology. (Google Meet: meet.google.com/vkk-mdwf-yjs).

The following members were present:

S. No.	Name of the Member	Position
1	**Dr Shankar S** **Professor & HOD** Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Chairman
2	**Dr Thulasimani K** Professor, Department of Computer Science and Engineering, Government College of Engineering, Tirunelveli-627007	University Nominee
3	**Dr Karthika Renuka D** Professor, Department of Information Technology, PSG College of Technology, Coimbatore.	Subject Expert
4	**Dr SIVAGANESAN D** Professor, Department of CSE, PSG Institute of Technology and Applied Research, Coimbatore	Subject Expert
5	**Dr Surendiran B** Associate Professor Dept of Computer Science and Engineering, National Institute of Technology, Puducherry.	Member from QIS rated Institution
6	**Dr Prakash P** Associate Professor School of Computer Science and Engineering, VIT Chennai.	Member from QIS rated Institution
7	**Mr Dinesh Raja** Managing Director, Haqto Technologies, Coimbatore	Industry Expert

8	**Mr Balamukesh** Coimbatore	Alumni
9	**Dr.Kousalya Devi** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
10	**Ms Sathya S** Assistant Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Autonomous Coordinator & BoS Member
11	**Dr Satheesh Kumar D** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Autonomous Coordinator & BoS Member
12	**Dr Prakash J** Associate Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
13	**Mr Mahesh D** Assistant Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032	Member
14	**Ms. Ragavi P R** 20115040- IV B.TECH AIML, Hindusthan College of Engineering and Technology, Coimbatore-641032	Student Member
15	**Mr. A.Ramesh** Parent Member F/o, Ms. Ragavi P R, III B.TECH AIML	Parent Member

- Dr.S.Shankar, Chairman, Board of Studies, welcomed the University nominee, Subject experts, Special Invitees and all the internal members for the thirteen 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 during **14.06.2023** ,was approved.

- The feedback received on the curriculum by the stakeholders was presented.

- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell (CDC) & Pre- Board of Studies (Pre- BoS)/ Department

Advisory Committee (DAC) and emphasized the importance of including the Skill Development related courses in the curriculum to be in line with the industry needs.

- The Chairman also mentioned the revision of R2019 Syllabus, which meets on higher order thinking levels, based on the recommendations from Stakeholders and emphasized the following points.
    - Scheme of Regulation 2022-2023
    - Courses for the Programme.
    - Syllabus for the courses of the Fourth semester alone under 2022 regulation
    - 6th semester Minors, Honors subject alone is discussed for 2019 regulation.

Also, the following points were discussed.

- Discussion of inclusion of Minor and Major Degree programmes for Scheme of Curriculum 2022-2023 with Minors, Honors system in new regulation 2022.
- The whole curriculum and syllabi of Fourth semester subject alone is discussed for 2022 regulation.
- The curriculum and syllabi of 6th semester Minors, Honors, Honors with specialization subject alone is discussed for 2019 regulation.
- Syllabus for minor degree courses passed by CSE, Civil and MBA ie Fundamentals of Investment, Banking, Financial Services and Insurance, Introduction to Business Venture.

*For **2021-2022** batch students, the following courses has been introduced or revised*

1. 21AI6601 - Introduction to Databases course is introduced as new Minor degree course in the semester VI with 3 credits.
2. 21AI6602 - Foundation of Artificial Intelligence & Machine Learning course is introduced as new Minor degree course in the semester VI with 3 credits.
3. 21AI6204 - Sensors and Actuators course is introduced as new Honours degree course in the semester VI with 3 credits.
4. 21AI6205 - Robots, bots and communication course is introduced as new Honours degree course in the semester VI with 3 credits.
5. 21AI6206 - Introduction to block chain course is introduced as new Honours degree course in the semester VI with 3 credits.
6. 21AI6207 - Cryptocurrency course is introduced as new Honours degree course in the semester VI with 3 credits.
7. 21AI6208 - Communication for CPS course is introduced as new Honours degree course in the semester VI with 3 credits.

8. 21AI6209 - Security in Cyber Physical Systems course is introduced as new Honours degree course in the semester VI with 3 credits.

- *For **2022-2023** batch students, the following courses has been introduced or revised*

1. 22AI4201 - Database Management Systems course is a theory course and it is introduced as new course in semester IV with credit 3.
2. 22AI4203 - Software Design with UML course is a theory course and it is introduced as new course in semester IV with credit 3.

- *For **2023-2024** batch students, the following courses has been introduced*

1. 22CS2256 – Problem Solving using C Programming course is introduced as new Theory with lab component course in semester II with credit 3.
2. 22HE2071 - Design Thinking course is introduced as new course in the semester-II as Employability course with two credits.
3. 22HE2072 - Soft Skills and Aptitude 1 course is introduced as new course in the semester I as Employability course with one credit
4. 22MC2094 - தமிழரும் தொழில்நுட்பமும் course is introduced as new course in the semester I as mandatory course with one credit
5. 22MC2095 - Tamils And Technology course is introduced as new course in the semester I as mandatory course with one credit

The following are the recommendations put forth by the BoS members,

1. The subject expert Dr Prakash P Suggested to change the title from software Analysis & Design to "Software Design with UML" because the syllabus covers more on Unified Modeling Language concepts instead of Design concepts
2. The Industry expert Dinesh Raja "In Robotics Domain – Sensors and Actuators course" ,Suggested to swap UNIT – 4 and UNIT- 5 and asked to include case study in unit -5
3. Dr Thulasimani K , Anna University Nominee Suggested to include scenario based questions in lab component
4. The subject expert Dr. Sivagansan, Suggested to include Advanced Technology Courses Block Chain Technology Domain
5. The subject expert Dr Surendiran B Suggested to introduce courses like Recommender systems, Power BI, cyber security in the curriculum so as they would be updated in latest industrial courses.
6. Value added course Advanced java programming and HTML, CSS is introduced which includes various courses for the students to enhance their technical skills.

General Recommendations:

1. Dr Thulasimani K , Anna University Nominee appreciated for including industrial oriented courses and agreed that students would be surely benefitted and suggested to provide sufficient time to students to complete the courses
2. The subject expert Dr Surendiran B Suggested to include recent editions of text and reference books in the syllabus. Also suggested that, if one text book covers all the units then one text book is enough. Otherwise, more than one text books may be included in the syllabus.

The Chairman, BoS and all members accepted to incorporate the above in the curriculum.

The following resolutions were made in the Board of Studies meeting,

- The curriculum and syllabi of 2019 Regulation with Amendments for the VIII semester was passed by the AIML board and permitted to move on Academic Council by the BoS members of AIML for the students admitted during the academic year 2020 - 2021 and onwards.
- The curriculum and syllabi of 2019 Regulation with Amendments for the VI semester Courses of AIML Board for the students admitted during the academic year 2021 - 2022 and onwards was suggested to move on to Academic Council.
- The curriculum and syllabi of 2019 Regulation with Amendments for the IV semester Courses of Minors, Honors, Honors with specialization subject were introduced and passed by the AIML board and permitted to move on Academic Council for the students admitted during the academic year 2022 - 2023 onwards.
- The Curriculum and Syllabus of Regulation 2022 for the II Semester Subjects- 22MAXXX, 22PHXXX, 22HEXXX, and 22MCXXX were introduced and passed by Science and Humanities board and permitted to move on Academic Council by the BoS members of AIML for the students admitted during the academic year 2023-2024 onwards.

The meeting ended with thanks to the Chair at 12.00 PM.

Chairman

(Board of studies)

Chairman - BoS
AIML - HiCET

Enclosure:

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 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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Coimbatore – 641 032

Date: **09.12.2023**

ACTION TAKEN REPORT ON BoS

Name of the Department: **AIML**

The 8th Board of Studies meeting of regulation R2019 & R2022 for the academic year 2023 -2024 Even Semester was conducted on 09.12.2023 at 10.00 a.m. in Hybrid mode, Hindusthan College of Engineering and Technology.

(Google Meet: meet.google.com/vkk-mdwf-yjs).

(I) Syllabus Revision for the Regulations 2019 & 2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	21AI6601 - Introduction to Databases	Introduced	100%
2	21AI6602 - Foundation of Artificial Intelligence & Machine Learning	Introduced	100%
3	21AI6204 - Sensors and Actuators	Introduced	100%
4	21AI6205 - Robots, bots and communication	Introduced	100%
5	21AI6206 - Introduction to block chain	Introduced	100%
6	21AI6207 - Cryptocurrency	Introduced	100%
7	21AI6208 - Communication for CPS	Introduced	100%
8	21AI6209 - Security in Cyber Physical Systems	Introduced	100%
9	22AI4201 - Database Management Systems	Introduced	100%
10	22CS2256 – Problem Solving using C Programming	Introduced	100%
11	22AI4203 - Software Design with UML	Introduced	100%

Overall Percentage of revision made in the BoS: 33%

(II) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1	2019	21AI6601 - Introduction to Databases	3
2	2019	21AI6602 - Foundation of Artificial Intelligence & Machine Learning	3
3	2019	21AI6204 - Sensors and Actuators	3
4	2019	21AI6205 - Robots, bots and communication	3
5	2019	21AI6206 - Introduction to block chain	3
6	2019	21AI6207 - Cryptocurrency	3
7	2019	21AI6208 - Communication for CPS	3

8	2019	21AI6209 - Security in Cyber Physical Systems	3
9	2022	22AI4201 - Database Management Systems	3
10	2022	22CS2256 – Problem Solving using C Programming	4
11	2022	22AI4203 - Software Design with UML	3
12	2022	22MC2094 - தமிழரும் தொழில்நுட்பமும்	1
13	2022	22MC2095 - Tamils And Technology	1

(III) Mandatory Courses

S.No.	Course Code with Name
1.	22MC2094 - தமிழரும் தொழில்நுட்பமும்
2.	22MC2095 - Tamils And Technology
3.	22MC2093 - NCC */NSS / YRC / Sports / Clubs / Society Service - Enrollment (Common)
4.	21CS6701 - Internship/Industrial Training
5.	21HE6071 - Soft Skill-II
6.	21HE6072 - Intellectual Property Rights(IPR)

(IV) Non-credit Mandatory Courses

S.No.	Course Code with Name
1.	22MC2093 - NCC */NSS / YRC / Sports / Clubs / Society Service - Enrollment (Common)

(V) Additional Credit Courses Introduced:

S.No.	Course Code with Name
1.	21CS6701 - Internship/Industrial Training
2.	21HE6071 - Soft Skill-II
3.	21HE6072 - Intellectual Property Rights(IPR)

(VI) The following recommendations given by stakeholders are considered and incorporated.

1. The subject expert Dr Prakash P Suggested to change the title from software Analysis & Design to "Software Design with UML" because the syllabus covers more on Unified Modeling Language concepts instead of Design concepts
2. The Industry expert Dinesh Raja "In Robotics Domain – Sensors and Actuators course" ,Suggested to swap UNIT – 4 and UNIT- 5 and asked to include case study in unit -5
3. Dr Thulasimani K , Anna University Nominee Suggested to include scenario based questions in lab component
4. The subject expert Dr. Sivagansan, Suggested to include Advanced Technology Courses Block Chain Technology Domain

5. The subject expert Dr Surendiran B Suggested to introduce courses like Recommender systems, Power BI, cyber security in the curriculum so as they would be updated in latest industrial courses.

(VII). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1	Industry Expert Dinesh Raja, recommended to create awareness in the field of cyber security to the students and conduct hands-on workshop, seminars in this field.	Incorporated
2	The subject expert Dr Surendiran B Suggested to include recent editions of text and reference books in the syllabus. Also suggested that, if one text book covers all the units then one text book is enough. Otherwise, more than one text books may be included in the syllabus.	Incorporated

Chairman
(Board of Studies)

Chairman - BoS
AIML - HiCET

Dean Academics

Dean (Academics)
HiCET

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Academic Year : 2023-2024

Board of Studies Meeting- MINUTES

The meeting of the TWELFTH Board of Studies in Department of SCIENCE&HUMANITIES Undergraduate programme was conducted on 24 NOV 2023 at 12.00 p.m.

Venue : Library - Conference Hall. 1.12.2023

MEMBERS

S.No	Name of the Person	Department	Position
1	Dr. K.P.Uma HoD of Science and Humanities, Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.:9442021062 ,E-mail: umamaths95@gmail.com	S&H	Chairman
2	Dr.C.Porkodi Professor, Department of Mathematics, PSG College of Technology, Mobile: 7550357410,E-mail: cpg.maths@psgtech.ac.in	Mathematics	University Nominee
3	Dr.N.Muthukumarasamy, Prof. and Head Deparment of Physics, Coimbatore Institute of Technology, Coimbatore – 641 014. Mobile No.9442954202,Vishnukutty2002@yahoo.co.in	Physics	Subject Expert
4	DrJoseph Ponniah Professor, Department of English National Institute of Technology, Tiruchirappalli. Mobile No :9487368155,E_mail:josephponniahr@gmail.com	English	Subject Expert /Member from QIS rated Institution
5	Dr. P.A.Periasamy Associate Professor in Chemistry, Dr.Mahalingam College of Engineering and Technology Mobile: 7373227754,E-mail: pap@drmcet.ac.in	Chemistry	Subject Expert
6	Dr. Lakshmana Gomathi Nayagam. V Professor, Department of Maths National Institute of Technology, Tiruchirappalli Mobile No :9443881718 E_mail:velulakshmanan@nit.edu	Mathematics	Subject Expert /Member from QIS rated Institution
9	Dr.K.Kannan Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9842257356,E-mail: Kannan.maths@hicet.ac.in	Mathematics	Member
9	Dr. K. Sivakumar Professor of Physics Hindusthan College of Engineering & Technology Coimbatore-641 032	Physics	Member

HINDUSTHAN ACADEMIC COUNCIL ★ ENGG & TECH ★ Chairman

	Mobile No.: 9842048708,E-mail:sivakphy@gmail.com		
10	Ms. B. Jeyagowri Associate Professor of Chemistry Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9894245562,E-mail:gowrivasu2007@gmail.com	Chemistry	Member
11	Dr.Justin Diraviam Assistant Professor of English Department of Science and Humanities Hindusthan College of Engineering and Technology Mobile No.: 9994334100,E-mail: marimuthunarmatha@gmail.com	English	Member
12	Dr.S.Padma Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9940900391,E-mail: Padma.maths@hicet.ac.in	Mathematics	Autonomous Coordinator
13	Ms.A.Gomathi Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9659471916,E-mail: rojamary.maths@hicet.ac.in	Mathematics	Autonomous Coordinator
14	Mr.A.Sivaganesh Asso.Analyst, WIPRO, Olympia Tech Park, Guindy, Chennai.	---	Alumni

The Chairman of BoS Dr.K.P. UMA greeted all the dignitaries for the meeting and introduced BoS members.

Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held on 10.02.2023 and it was approved. Chairman also gave an outline of the scheme of new regulations R2022 and changes to be brought in the curriculum and syllabus discussed in the Department Advisory Committee (DAC) Meeting held on 08.05.2023.

Recommendations by BoS Subject Experts (Subject Related)

ENGLISH

22HE2151 - EFFECTIVE TECHNICAL COMMUNICATION:

No changes required in the existing syllabus of semester II.

Grammar to be taught to sharpen their grammatical competence.

Project on testing LSRW skills of students through worksheets which will be helpful for them to improve their employability skills.

MATHEMATICS

FOR SEMESTER II

22MA2101 - DIFFERENTIAL EQUATIONS AND COMPLEX ANALYSIS

Unit II - $e^{ax} f(x)$ may be included.

Unit V - For cauchy's integral theorem, it is enough to have problems alone. It may be mentioned "without proof".

22MA2102 - DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS

Unit IV- Initial and Final value problems may be included.

ACADEMIC COUNCIL * HINDUSTHAN COLLEGE OF ENGG. & TECH * Chairman

Unit V - Basic problems of Convolution theorem may be included.

22MA2103 - DIFFERENTIAL EQUATIONS AND LINEAR ALGEBRA

Unit V - Inner product space may be included as first topic of the unit. Symmetric and Skew symmetric matrices also may be included.

Book of V.Krishnamurthi, J.L Arora of Linear Algebra may be given as reference book.

FOR SEMESTER IV

22MA4103 - PROBABILITY AND OPERATION RESEARCH

Unit III - may be allotted with only 6 hours & Unit IV - Linear Programming problems may be allotted with 12 hours .

22MA4152 - APPLIED STATISTICS WITH R PROGRAMMING & QUEUING THEORY (CSE)

Unit II - Only Correlation & Regression may be given.

22MA4102 - APPLIED STATISTICS WITH R PROGRAMMING & QUEUING THEORY (CSE)

Unit II - Only Correlation & Regression may be given.

PHYSICS - No changes required for the following courses of II semester.

22PH2101 - BASICS OF MATERIAL SCIENCE
22PH2151 -PHYSICS FOR CIRCUIT ENGINEERING PROGRAMME

FOLLOWING COURSES ARE RECOMMENDED FOR Ph.D COURSE WORK by the Physics Board.

- Synthesis of Nano materials,
- Physico chemical methods for characterization of nano materials,
- Physics and chemistry of materials
- Physical and chemical treatment systems for water and wastewater
- Characterization techniques
- Polymer Nano composites
- Advances in crystal growth and characterization
- Crystal growth techniques
- Crystal Structure Analysis

CHEMISTRY - No changes required for the following courses of II semester.

22CY2151 -Chemistry for Engineers
22CY2152 - Applied Chemistry
22CY2101 - Environmental Studies

FOLLOWING COURSES ARE RECOMMENDED FOR Ph.D COURSE WORK by the Chemistry Board.

- Synthesis of Nano materials,
- Physico chemical methods for characterization of nano materials,
- Physics and chemistry of materials.a
- Physical and chemical treatment systems fcr water and waste water.
- Characterization techniques.
- Polymer Nano composites and Environmental nano technology.

ACADEMIC COUNCIL * CHAIRMAN COLLEGE OF ENGG & TECH Chairman

LIFE SKILL COURSES

Syllabus of the following life skill courses of R2019 are ratified and also recommended to move on academic council.

- 21LSZ401 - General Studies for Competitive Examinations.
- 21LSZ402 - Human rights, Women rights and Gender equality.
- 21LSZ403 - Indian Ethos and Human Values.
- 21LSZ404 - Indian Constitution and Political System.
- 21LSZ405 - Yoga for Human Excellence.

GENERAL SUGGESTIONS

English board insisted on concentrating on language skills to enable students to appreciate the language critically. The board members also highly commended the variety of texts incorporated in the syllabus for General English.

Stake holders suggested that Soft skill courses from the first semester itself is highly valued and suggested that it will be highly beneficial for the career of the students.

It is recommended by the Academic experts that to change the title of Physics for Non circuit Engineering as Engineering Applications of Physics , Physics for Circuit Engineering as Physics for Engineers and Chemistry for circuit Engineering as Engineering Applications of Chemistry in the first and second semester respectively.

The following resolutions were made in the Board of Studies meeting,

- The syllabi of R2022 of Science and Humanities subjects with few revisions in II semester , IV semester Mathematics papers for the new Regulation 2022 for the students admitted during the academic year 2022 -2023 & 2023 - 2024 respectively were passed and permitted to move on Academic Council during the BoS conducted on 24.11.2023 .
- The following courses (with few revisions) in the regulation 2022 were ratified in the board of studies held on 24.11.2023.

- **Syllabus from the Board of Science & Humanities** - 22MA2101 - Differential Equations and Complex Analysis, 22MA2102 - Differential Equations And Laplace Transforms. 22MA2103 - Differential Equations and Linear Algebra, 22MA2104 - Fourier Analysis and Laplace Transforms , 22MA2105 - Partial Differential Equations, Fourier Series and Transforms, 22PH2101- Basics of Material Science , 22PH2151 - Physics For Circuit Engineering, 22CY2151 - Chemistry For Engineers, 22CY2152 - Applied Chemistry, 22HE2151 - Effective Technical Communication, 22HE2071- Design Thinking,22HE2073 - Soft Skills and Aptitude - I, 22MC2095 - Tamil and Technology were ratified and permitted to move on Academic Council by the BoS members of Science and Humanities for the students admitted during the academic year 2022-2023 and onwards.
- **Syllabus from the board of service departments** - 22CH2202 – Introduction to Chemical Engineering by Chemical Engineering department, 22AG2201 – Principles and Practices of Crop Production by Agriculture Engineering Department, 22EE2101 – Basics of Electrical and Electronics Engineering & 22EE2201- Basics of Electrical and Communication Engineering by the Electrical and Electronics Engineering department, 22ME2101 – Engineering Mechanics and 22ME2001 – Engineering Practices by Mechanical Engineering Department, 22IT2201 – Web Technology by the department of Information Technology, 22IT2251 – Python Programming and

COUNCIL * TECH & ENGG OF COLLEGE Chairman

Practices, 22MT 2251 – Fundamentals of Mechatronics Engineering, 22PH2102 – Applied Mechanics by the department of Mechatronics Engineering, 22CS2152 – Essentials of C and C++ programming, Programming using C and C++ and by the Computer Science Engineering Department , 22EI2251 – Electronic Devices and Circuits by the department of Electronics and Instrumentation Engineering were ratified by the respective departments and permitted to move on Academic Council by the BoS members of Science and Humanities for the students admitted during the academic year 2022-2023 and onwards.

The meeting winded up with the vote of thanks by 01.00p.m.

Enclosure:

1. Previous BoS meeting Minutes
2. Action Taken Report.
3. Curriculum and Syllabi

Copy:

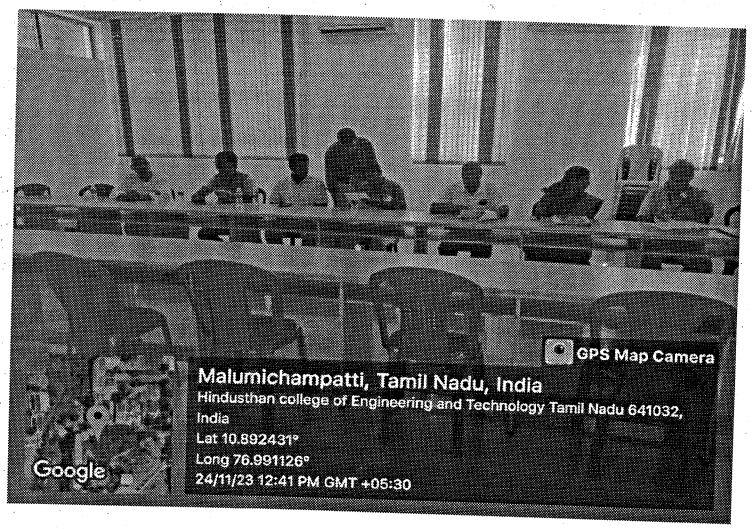
1. The Principal
2. Dean Academics
3. Controller of Examinations
4. All the Members of BoS
5. File

Chairman

(Board of studies)

Chairman - BoS
S&H - HiCET

HINDUSTHAN ACADEMIC COUNCIL OF ENGG. & TECH. Chairman





Chairman

(Board of studies)

Chairman - BoS
S&H - HiCET

HINDUSTHAN ACADEMIC COUNCIL
Chairman
HINDUSTHAN COLLEGE OF ENGG & TECH

Hindusthan College of Engineering And Technology

Approved by AICTE, New Delhi, Accredited with 'A' Grade by NAAC
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore – 641 032

Date : 20.12.2023

ACTION TAKEN REPORT ON BoS

Name of the Department: SCIENCE & HUMANITIES

The meeting of **TWELFTH** board of studies of Regulation 2022 for the Department of **SCIENCE & HUMANITIES** was conducted on **24.11.2023** at 12.00P.M in Library, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision for the Regulations 2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	22MA2101 - DIFFERENTIAL EQUATIONS AND COMPLEX ANALYSIS Unit II - e^{ax} f(x) may be included.	Approved & Incorporated	5%
2	22MA2102 – DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS & 22MA2104 – FOURIER ANALYSIS AND LAPLACE TRANSFORMS Unit IV- Initial and Final value problems may be included.	Approved & Incorporated	5%
3	22MA2103 - DIFFERENTIAL EQUATIONS AND LINEAR ALGEBRA Unit V - Inner product space may be included as first topic of the unit. Symmetric and Skew symmetric matrices may be included.	Approved & Incorporated	5%

(II) Syllabus Related Recommendations for I semester – R2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	As per Anna University direction, தமிழரும் தொழில்நுட்பமும் / Tamils and Technology to be introduced **with one credit** in the II semester curriculum respectively.	Approved & Incorporated	----
2	Syllabus of Life skill courses for final year students under R 2019 to be ratified by the board of Science and Humanities from this semester onwards.	Approved & Incorporated	----

Overall Percentage of revision made in the BoS: 3/36 = 8.33 %

HINDUSTHAN COLLEGE OF ENGG & TECH ★ ACADEMIC COUNCIL ★ Chairman

(III) New Courses Introduced:

S. No	Regulation	Course Code with Name	Credits
1	2022	22MA4101- APPLIED PROBABILITY AND STATISTICS FOR AGRICULTURAL ENGINEERING (AGRI)	4
2	2022	22MA4102 - APPLIED STATISTICS & QUEUING THEORY(AIML)	4
3	2022	22MA4103 -PROBABILITY AND OPERATION RESEARCH (FT)	4
4	2022	22MA4151- PROBABILITY AND STATISTICS WITH R PROGRAMMING (AERO ,CHEM)	4
5	2022	22MA4152 - APPLIED STATISTICS WITH R PROGRAMMING & QUEUING THEORY (CSE)	4

(IV) Mandatory Courses

S.No.	Course Code with Name
22MC2094/22MC2095	தமிழரும்தொழில்நுட்பமும்/ TAMILS AND TECHNOLOGY

(V) Non-credit Mandatory Courses

S.No.	Course Code with Name
1.	22 HE 2071 - DESIGN THINKING & 22HE 2072 – SOFT SKILLS AND APTITUDE – I (Common to all branches)

(VI) Additional Credit Courses Introduced:

S.No.	Course Code with Name
	NIL

(VII) The following recommendation given by stakeholder(s).

Soft skill courses from the first semester itself is highly valued and suggested that it will be highly beneficial for the career of the students.

(VIII). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	English board insisted on concentrating on language skills to enable students to appreciate the language critically. The board members also highly commended the variety of texts incorporated in the syllabus for General English.	Considered
2	It is recommended by the Academic experts that to change the title of Physics for Non circuit Engineering as Engineering Applications of Physics , Physics for Circuit Engineering as Physics for Engineers and Chemistry for circuit Engineering as Engineering Applications of Chemistry in the first and second semester respectively.	Incorporated.

Chairman
(Board of Studies)

ACADEMIC COUNCIL ★ COLLEGE OF ENGG & TECH Chairman

Dean Academics

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Valley Campus, Pollachi Highways, Coimbatore, Tamilnadu.

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Academic Year: 2023-2024

Minutes of the Board of Studies Meeting

The Twelfth Board of Studies meeting of the Department of Management Sciences post graduate programme was conducted on 02.12.2023 at Library Video Conferencing Room

The following members were present:

S.No.	Name of the Person	Department	Position	Signature
1	Dr.V.Kaarthiekheyan	Professor & Head, Department of Management Sciences	Chairman	
2	Dr.R.Krishnaveni	Professor, Department of Management Studies, PSG Institute of Management, Coimbatore	University Nominee	
3	Dr.K.Ramamurthy	Principal, Dr.NGP Arts and Science College, Coimbatore	Subject Expert	02/12/2023
4	Dr.V.R.Nedunchezhian	Professor of Management, Rathinam College of Arts & Sciences, Coimbatore	Subject Expert	
5	Mr.Gowtham Dhamotharasamy	Founder, Fincliniq, RG Pudur, Coimbatore	Industry Expert	
6	Mr.Prithivi Ragul	Jai Knit Printers, Tirupur	Alumni	– Absent –
7	Dr.M.Bhuvaneswari	Professor, Department of Management	Member	– Absent –

		Sciences		
8	Dr.S.Kamalasaravanan	Professor, Department of Management Sciences	Member	
9	Dr.A.Jayanthi	Associate Professor, Department of Management Sciences	Member	
10	Dr.V.Kanimozhi	Assistant Professor, Department of Management Sciences	Member	
11	Lt.R.Manoj	Assistant Professor, Department of Management Sciences	Member	– Absent –
12	Mr.A.Prasanth	Assistant Professor, Department of Management Sciences	Member	
13	Ms.Phavithra S	I MBA	Student Member	
14	Mr. Vishnu S	I MBA	Student Member	
15	Mr.Senthilkumar C	6/5. Main Road, Sellakkarichal, Sulur,Coimbatore	Parent Member	

Academic Year: 2023-2024

Minutes of the Board of Studies Meeting

Board of Studies Chairman Dr.V.Kaarthiekheyan welcomed and introduced the members of the BOS.

The Chairman presented the suggestions given by the experts and the action taken report of the 11th BoS meeting and was approved.

The chairman gave an outline of the views expressed by the members of Department Advisory Committee (DAC) related to the curriculum and syllabus. The Board of Studies member's suggestion has been sought in this regard.

The discussion/ suggestions given by the members are as follows:

S.No.	Name of the Person	Position	Discussion / Suggestions
1	Dr.R.Krishnaveni Professor, Department of Management Studies, PSG Institute of Management, Coimbatore	University Nominee	• Can associate students with companies in order to have better practical knowledge.
2	Dr.K.Ramamurthy Principal, Dr.NGP Arts and Science College, Coimbatore	Subject Expert	• Suggest students to opt minimum 8-week course in NPTEL for Online certification. • CO-PO Mapping and Bloom's Taxonomy level can be mapped in syllabus. • Learning is more important than teaching and students should be made to learn more and improve practical knowledge. • Practical subjects like Tally can be included.
3	Dr.V.R Nedunchezhian Professor of Management,	Subject Expert	• Finance for non-finance engineers can be given to engineering students as open elective.

S.No.	Name of the Person	Position	Discussion / Suggestions
	Rathinam College of Arts & Sciences, Coimbatore		• More emphasis shall be given for presentation tools and techniques. • Basics of taxation (Direct and indirect taxes) and Fin Tech courses can be offered to Finance students.
4	Mr.Gowtham Dhamotharasamy Founder - Fincliniq, RG Pudur, Coimbatore	Industry Expert	• Awareness on opportunities in Corporate finance, investment banking, public and private markets to be carried out during I year of study. • Communication skills to be given more importance along with Excel training. • Students should be trained to analyse and make decisions based on financial statements of the organizations. • NiSM Certifications is must to get Internships in Financial services sectors hence students shall be motivated to take up NiSM Certifications. • Can connect with Industry and have industry partners for finance courses.

The syllabus of the following courses offered to UG departments were approved by the Board of studies:

1. Team Building & Leadership Management
2. Introduction to new business venture.

The modified syllabus of the following courses were approved by the Board of studies:

1. Behavioural Finance
2. Integrated Marketing Communication

The BoS Meeting came to an end by1:15 p.m.

Chairman - BoS

Chairman - BoS
MBA - PiCET

BoS Members - Signature:

1. Dr.V.Kaarthiekheyan
2. Dr.R.Krishnaveni

3. Dr.K.Ramamurthy 02/12/2022
4. Dr.V.R Nedunchezhian
5. Mr. Gowtham Dhamotharasamy
6. Mr. Prithivi Ragul Absent
7. Dr.M.Bhuvaneswari Absent
8. Dr.S.Kamalasaravanan
9. Dr.A.Jayanthi
10. Dr.V.Kanimozhi
11. Lt.R.Manoj Absent
12. Mr.A.Prasanth
13. Ms.Phavithra S S. Phavi
14. Mr.Vishnu S S.Vishnu
15. Senthilkumar C C. Senth

Enclose:

1. Previous BoS meeting Minutes
2. Action Taken Report
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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Department of Management Sciences(MBA)

Date: 08.12.2023

ActionTakenReporton12thBoS

The Twelfth Board of Studies meeting of Regulation 2020 for the academic year 2023-2024Even Semester was conducted on 02.12.2023 at 11.00 am at Library Video Conference Room.

1.Syllabus Revision

S.No.	Subject in which revision has been done	Percentage Syllabus Revised
1.	20BAX301- Integrated Marketing Communication	50%
2.	20BAX313-Behavioural Finance	60%

2.New Courses Introduced for UG Degree (Minor Courses):

S.No	Regulation	Course code with name	Credits
1.	2022	22BA6601-Introduction to new business venture.	3
2.	2022	22BA6602 - Team Building & Leadership Management	3

3. General Recommendations:

S.No	Suggestion given in the BoS experts	Action taken
1	Can associate students with companies in order to have better practical knowledge.	Considered
2	Suggest students to opt minimum 8-week course in NPTEL for Online certification.	Considered
3	CO-PO Mapping and Bloom's Taxonomy level can be mapped in syllabus.	Considered
4	Learning is more important than teaching	Considered

	and students should be made to learn more and improve practical knowledge. Practical subjects like Tally can be included.	
5	Finance for non-finance engineers can be given to engineering students as open elective.	Considered
6	More emphasis shall be given for presentation tools and techniques.	Considered
7	Basics of taxation (Direct and indirect taxes) and Fin Tech courses can be offered to Finance students.	Considered
8	Awareness on opportunities in Corporate finance, investment banking, public and private markets to be carried out during I year of study.	Considered
9	Communication skills to be given more importance along with Excel training.	Considered
10	Students should be trained to analyse and make decisions based on financial statements of the organizations.	Considered
11	NiSM Certifications is must to get Internships in Financial services sectors hence students shall be motivated to take up NiSM Certifications. Can connect with Industry and have industry partners for finance courses.	Considered

Chairman
Board of Studies

Chairman - BoS
MBA - HiCET

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Date :06.12.2023

MINUTES OF BOS MEETING

Board of Studies in **Computer Applications**, the twelfth Board of Studies meeting of Regulation 2020 for the Academic year 2023-2024 (Even sem) was conducted on 06.12.2023 at 1.30 pm.in the Hybrid mode.

The following members were present.

S.No	Name of the Person	Department	Position
1.	Dr.A.R. Jayasudha	Professor/Head, Department of Computer Applications, Hindusthan College of Engineering and Technology.	Chairman
2.	Dr. K. Thulasimani	Professor Department of Computer Science and Engineering Government College of Engineering, Tiruelveli	Anna University Nominee
3.	Mr. C Sundar	Assistant Professor (Sr. Gr.) Department of Computer Applications PSG College of Technology Coimbatore	Subject Expert
4.	Mr. Sankar M	2012 – 2015 Batch Senior Software Engineer, Exterro R&D Pvt Ltd 2nd Floor Tidel Park Coimbtaore.	Alumni
5.	Mrs.M.Nirmala	Assistant Professor, Department of Computer Applications, Hindusthan College of Engineering and Technology.	Member
6.	Mrs.Princess Maria John	Assistant Professor, Department of Computer Applications, Hindusthan College of Engineering and Technology.	Member

- The chairman of the BoS, Dr. A. R. Jayasudha welcomed all the dignitaries and internal members for the twelfth Board of Studies meeting.
- The chairperson briefed the Salient features of Regulation 2020 to all the BoS members.
- The chairman gave an outline of the changes to be made in the curriculum given by Curriculum Development Cell (CDC) & Department Advisory Committee (DAC).
- The Chairman conveyed to the members, based on Anna University Curriculum, the board introduced Curriculum (Scheme) for II, IV semesters and Bridge courses of Computer Applications Board.

Recommendations by BoS members (Subject Related)

- In "21CA2251 – Web Development", 10% syllabus revision has been undertaken.
- In 'Introduction to Machine Learning", 25% syllabus revision made with relevant topics.

Department specific Board of Studies Discussion / Suggestions:

Bos members suggested

- To include data analytics in unit V of Python Programming as it is very important.
- To streamline the content of Unit V in the Web Development subject by considering its length for potential removal.
- To rename unit IV of Machine Learning to Dimensionality from unsupervised learning.
- It was suggested to include NSS as a mandatory no credit course for II semester in the curriculum as more student are involved in NSS.
- To conduct End semester exam for unregistered students to take up the '21CA1172 - Research Methodology (MOOC course) through NPTEL For which internal Test 1 and Test 2 will be conducted accordingly.
- To update Machine Learning as core due to its increased opportunities.

The following resolutions are made in the Board of Studies meeting:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.

- The curriculum and syllabus of Regulation 2020 for the II semester and IV semester subjects were introduced and passed by the Electronics and Communication Board respectively, and permitted to move on Academic Council by the BoS members of Board of Computer Applications for the students admitted during the academic year 2022 – 2023, and 2023-2024 onwards.
- Chairman conveyed that, the Suggestions given by the Board of Studies members are to be forwarded to Communication Board, and incorporated in Regulation 2020.
- The meeting ended with thanks to the members by Chairman at 03.30 pm

The curriculum and the syllabus of semester 1I and IV, Bridge Course (2nd Semester) and electives for the academic year 2023 – 2024(Even semester) is approved by the above committee.

Chairman
Board Of Studies

Chairman - BoS
MCA - HiCET

Enclose:

1. Previous BoS Minutes –ATR
2. Copy of Regulation 2016
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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Date14.12.2023

ACTION TAKEN REPORT ON BoS

Name of the Department: Department of Computer Applications

The meeting of Computer Applications board of studies of Regulation 2020 for the Department of Computer Applications Post Graduate Programme was conducted on 09.12.2023 at 01.30 pm, in Department of Computer Applications, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision for the Regulations 2020

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1.	21CA2251 – Web Development	Modified	10%
2	Introduction to Machine Learning	Modified	25%

Overall Percentage of revision made in the BoS: 20%

(III) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
		Nil	

(IV) Mandatory Courses (if any) – Nil

(V) Non-credit Mandatory Courses (if any)

S.No.	Course Name
1.	NSS

(VI) Additional Credit Courses Introduced: Nil

(VII) The following recommendations given by stakeholders are considered and incorporated.

- ✓ Value added courses on Internet of Things has been introduced.

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(VIII). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	It was recommended to include data analytics topic in unit V of Python Programming	Considered
2.	Suggested to reduce MYSQL topic from Unit V of Web Development subject	Considered
3.	Machine Learning suggestion was given to rename unit IV as Dimensionality from unsupervised learning.	Considered
4.	Suggestions to include NSS as a mandatory no credit course for II semester in the curriculum	Considered
5.	Suggested to conduct End semester exam for students who were not able to register and take up the NPTEL exam for Research Methodology (MOOC) course. For which internal Test 1 and Test 2 will be conducted accordingly.	Considered

Chairman
(Board of Studies)

Chairman - BoS
MCA - HiCET

Dean Academics

Dean (Academics)
HiCET