Hindusthan College of Engineering and Technology

(An Autonomous Institution, Affiliated to Anna University, Chennai
Approved by AICTE, New Delhi & Accredited by NAAC with 'A' Grade)
Valley Campus, Pollachi Highways, Coimbatore, Tamil Nadu.

Date: 13.07.2021

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **SCIENCE&HUMANITIES**

Undergraduate programme was conducted on **13 July 2021** at 10.30 am through the Online Mode (Google Meet).

LINK : https://meet.google.com/ina-dbzg-bzy

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.C.Porkodi Associate Professor, Department of Mathematics, PSG College of Technology,	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	**Dr.M.G.Priya,** Selection Grade Professor, Amritha College of Engineering and Technology, Coimbatore Mobile No.8921595129 Email: mg_priya@cb.amrita.edu.	English	Subject Expert

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

5	**Dr. P.A.Periasamy** Associate Professor in Chemistry, Dr.Mahalingam College of Engineering and Technology	Chemistry	Subject Expert
6	**DR. Lakshmana Gomathi Nayagam. V** Professor, Department of Maths National Institute of Technology, Tiruchirappalli	Mathematics	Subject Expert /Member from QIS rated Institution
7	**Dr.Latha** Professor and Head, Dept.of Science and Humanities Hindusthan Institute of Technology, Coimbatore.	Mathematics	Member from sister concern
8	**Ms. A. Narmatha** Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9843268171 E-mail: narmadhakrishna@gmail.com	Mathematics	Member
9	**Dr. K. Sivakumar** Associate Professor of Physics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9842048708 E-mail:sivakphy@gmail.com	Physics	Member
10	**Ms. B. Jeyagowri** Assistant Professor of Chemistry Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9894245562 E-mail:gowrivasu2007@gmail.com	Chemistry	Member
11	**Ms. M. Narmatha** 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	**Ms.S.Padma** Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032	Mathematics	Autonomous Coordinator(s)



13	**Dr.T.Rojamary** Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032	Mathematics	Autonomous Coordinator(s)
14	Mr.A.Sivaganesh	---	Alumni
15	Mr.Srivishnu (19110088)	IT	Student Member

The Chairman of BoS Dr.K.P. UMA welcomed 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 **05.02.2021** and it was approved. Chairman also gave an outline of the changes to be made in the curriculum given by the Pre Board of Studies (pre-Bos)/ Department Advisory Committee (DAC) and emphasized the importance of including the life skill related courses in the curriculum to be in line with the industry needs.
Also, the following points were discussed.

Recommendations by BoS members (Subject Related)

1. 19CY2151- Chemistry For Engineers – 3% changes made in the syllabus as per the suggestion of expert.

1. Introduced -19MA3152 – Probability And Applied Statistics (AI&ML)- SEM III and 19MA4105 – Discrete Mathematical Structures (AI&ML) – SEM IV with the suggestion of stakeholders.

The following skill development courses introduced for members' approval.

- 19MA3152 Probability And Statistics.
- 19MA4105 Discrete Mathematical Structures
- 19HE2074 Social Services and Community Development

General comments
Syllabus is reasonably good and well structured

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

1. The syllabi of Science and Humanities subjects of I & II semester for all UG Programmes for the students admitted during the academic year 2021 - 2022 and onwards were passed and permitted to move on the Academic Council. The syllabi of Mathematics Service Papers for III & IV semester of all the UG Programmes for the students admitted during the academic year 2020 - 2021 and onwards were passed and permitted to move on the Academic Council.

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

2. **Changes made:** Semester: I; Course Code: 19CY2151; Course Name: Chemistry for Engineers; Credit:3; Percentage of revision-3%.
3. **For English,** It is suggested to imply the suggestions in the next regulation.
4. **The following additional courses had been passed in the last year BoS and as per the request of parents' and suggestions given by DAC members, they are changed as Non Credit Mandatory Courses and ratified in this BoS which will be helpful for the students to enhance their employability skills. These changes are applicable from 2020-21 academic year itself.**

   19HE1073-Entrepreneurship & Innovation,

   19HE1072 - Career Guidance Level I (Personality, Aptitude and Career Guidance),

   19HE2072- Career Guidance – Level II (Personality, Aptitude and Career Guidance)
5. **As per the AICTE guideline, in Semester I, II, III & IV NCC one credit subject is added as Value Added Course with Extra Credit. Further, the students' who enrolled his/her name in HICET NCC and Air Wing is eligible to undergo this subject in the Academic Year 2021 -22 onwards.**

   Introduced Courses :.

   Semester: I Course Code: 19HE1074 ;Course Name: NCC General and National Integration Credit

   Semester: II Course Code: 19HE2074 ;Course Name: NCC General and National Integration Credit

The meeting came to an end at 11.30am/pm with vote of thanks.

Chairman

Board of Studies

Dr. K. P. UMA
Prof & Head
Department of Science and Humanities

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

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

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Date: 24.01.2022

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **SCIENCE&HUMANITIES**

The meeting of the Eigth Board of Studies in Department of SCIENCE&HUMANITIES Undergraduate programme was conducted on **24 January 22** at 10.30 am through the Online Mode (Google Meet).

LINK : https://meet.google.com/vfk-kbjd-uys

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.C.Porkodi Associate Professor, Department of Mathematics, PSG College of Technology,	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	**Dr.M.G.Priya,** Selection Grade Professor, Amritha College of Engineering and Technology, Coimbatore Mobile No.8921595129 Email: mg_priya@cb.amrita.edu.	English	Subject Expert

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5	**Dr. P.A.Periasamy** Associate Professor in Chemistry, Dr.Mahalingam College of Engineering and Technology	Chemistry	Subject Expert
6	**DR. Lakshmana Gomathi Nayagam. V** Professor, Department of Maths National Institute of Technology, Tiruchirappalli	Mathematics	Subject Expert /Member from QIS rated Institution
7	**Dr.Latha** Professor and Head, Dept.of Science and Humanities Hindusthan Institute of Technology, Coimbatore.	Mathematics	Member from sister concern
8	**Ms. A. Narmatha** Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9843268171 E-mail: narmadhakrishna@gmail.com	Mathematics	Member
9	**Dr. K. Sivakumar** Associate Professor of Physics Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9842048708 E-mail:sivakphy@gmail.com	Physics	Member
10	**Ms. B. Jeyagowri** Assistant Professor of Chemistry Hindusthan College of Engineering & Technology Coimbatore-641 032 Mobile No.: 9894245562 E-mail:gowrivasu2007@gmail.com	Chemistry	Member
11	**Ms. M. Narmatha** 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	**Ms.S.Padma** Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032	Mathematics	Autonomous Coordinator
13	**Dr.T.Rojamary** Assistant Professor of Mathematics Hindusthan College of Engineering & Technology Coimbatore-641 032	Mathematics	Autonomous Coordinator
14	**Mr.A.Sivaganesh** **Asso.Analyst, WIPRO,** **Olympia Tech Park, Guindy, Chennai**	---	Alumni

HINDUSTHAN COLLEGE OF ENGG & TECH ★CBE-32★

The Chairman of BoS Dr.K.P. UMA welcomed 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 **13.07.2021** and it was approved. Chairman also gave an outline of the changes to be made in the curriculum and syllabus discussed in the Pre Board of studies (Pre-BoS) /Department Advisory Committee (DAC) Meeting.

Recommendations by BoS members (Subject Related)

1. 21HE2101 Business English for Engineers—4% revised as per the suggestion provided by the stakeholders.

General suggestion:

- Number of allotted hours of teaching Grammar topics may be extended.
- One credit paper may be focused only on listening and speaking skills in order to satisfy corporate expectations of employability skills.

As per the suggestion by Curriculum development Cell and also the discussion we had in Department Advisory committee meeting, it is decided to have ICT Academy Learnathon courses as value added course for odd semester and Nasscom, Future skills courses as value added courses for the even semester.

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

1. The syllabi of Science and Humanities subjects of I & II semester and the syllabi of Mathematics Service Papers for III & IV semester for all the UG Programmes for the students admitted during the academic year 2020 - 2021 were passed and permitted to move on Academic Council during the BoS conducted on 13.07.2021.
2. **Changes Recommended:** Writing short formal memos' may be added in the course – 21HE2101 Business English for Engineers for the forth coming even semester
3. The meeting came to an end at 11.30am/pm with vote of thanks.

Chairman

Board of Studies

Dr. K. P. UMA
Prof & Head
Department of Science and Humanities
Hindusthan College of Engineering and T

Enclosure:

Previous BoS meeting Minutes

1. Action Taken Report.
2. Curriculum and Syllabi

Copy:

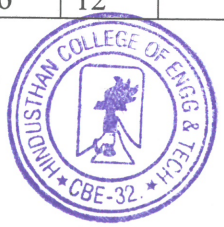
1. The Principal
2. Dean Academics
3. Controller of Examinations

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

4. All the Members of BoS
5. File

ATTENDANCE FOR 8TH BOARD OF STUDIES MEETING - DEPARTMENT OF SCIENCE AND HUMANITIES - 24.01.2022

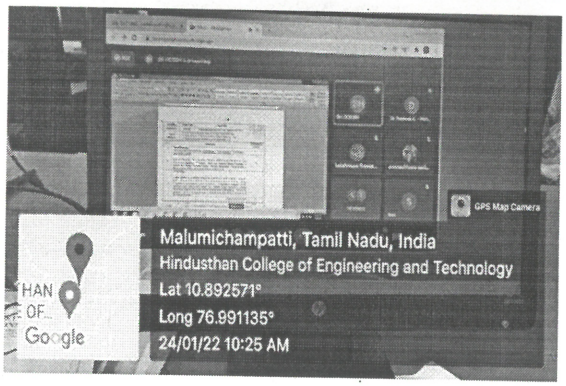
Date:	"2022-01-24"	"Time:"	"10:17"	"Meet ID:"	"cqa-hxaj-rzg"					
Names	"2022-01-24"	"Email"	"Comments"	"Arrival time"	"Last Seen"	"# of Checks"	"Joined"	"Details"		
Sivaganes A	"âœ"	""	""	"10:20"	"11:16"	"51"	"2"	"10:20 (45min) [11:04]"	11:10 (6min) [11:16]	
B. Jeyagowri Hicet Staff Chm	"âœ"	""	""	"10:25"	"11:16"	"34"	"1"			
M.Narmatha Hicet Staff Eng	"âœ"	""	""	"10:19"	"11:16"	"44"	"2"	"10:19 (40min) [10:59]"	11:13 (4min) [11:16]	
A.Narmadha Hicet Staff Maths	"âœ"	""	""	"10:22"	"11:16"	"13"	"1"			
Hod Maths	"âœ"	""	""	"10:32"	"11:12"	"22"	"2"	"10:32 (7min) [10:38]"	10:38 (15min) [11:12]	
S.Padma Hicet Staff Maths	"âœ"	""	""	"10:18"	"11:17"	"60"	"1"			
T.Rojamary Hicet Staff Maths	"âœ"	""	""	"10:18"	"11:16"	"26"	"2"	"10:18 (10min) [10:27]"	10:32 (16min) [11:16]	
Priya Mgh	"âœ"	""	""	"10:18"	"10:56"	"36"	"1"			
Dr Muthukumarasamy N	"âœ"	""	""	"10:31"	"11:12"	"42"	"1"			
Ponnachiyoor Periasamy	"âœ"	""	""	"10:20"	"11:17"	"79"	"3"	"10:20 (14min) [10:33]"	10:34 (35min) [11:17]	10:42 (30min) [11:16]
K.Sivakumar Hicet Staff Phy	"âœ"	""	""	"10:26"	"11:12"	"48"	"6"	"11:10 (3min) [11:12]"	11:04 (7min) [11:10]	10:44



Dr Porkodi C - Psgct	" âœ” "	""	""	"10: 22"	"11: 16"	"55"	"1"				







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Date: 21.01.2021

BOARD OF STUDIES MEETING

Name of the Department: **Aeronautical Engineering**

The Sixth Board of Studies meeting of Regulation 2016 and Regulation 2019 for the academic year 2021-22 was conducted on 21.01.2021 (Wednesday) at 10.30 a.m. in ONLINE mode through Google Meet. (Meeting Link: http://meet.google.com/avg-xazo-ybb)

The following members were present.

S. No.	Name of the Person	Department	Position
1	Mr.V.T. Gopinathan	Professor / Head, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology.	Chairman
2	Dr.J. Bruce Ralphin Rose	Assistant Professor, Department of Aeronautical Engineering, Anna University, Tirunelveli, Regional Campus.	University Nominee
3	Dr.R. Kannan	Associate Professor, School of Aerospace Engineering, Amrita University Coimbatore.	Subject Expert 1
4	Dr.P.S. Premkumar	Associate Professor, Department of Aeronautical Engineering, Kumaraguru College of Technology, Coimbatore.	Subject Expert 2
5	Mr.V. Alaguraj	Founder, M/s MACH ENGINEERS, Anna Nagar, Peelamedu, Coimbatore.	Industry Member
6	Dr. Mohammed Ibrahim	Assistant Professor, Department of Aerospace Engineering, IIT, Kanpur	Member from QS Rated Institution
7	Mr.M. Moses Devaprasanna	Associate Professor, Department of Aeronautical Engineering, Hindusthan Institute of Technology	Member from HiTECH
8	Mr.G. Prabhakaran	Advance Engineer, Capgemini India Pvt. Ltd, Banglore.	Alumni Member
9	Dr.M. Ganesh	Assistant Professor, Department of Aeronautical Engineering,	Member

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10	Mr.R. Veeramanikandan	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology.	Member
11	Mr.V. Saravanakumar	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology.	Member
12	Mr. Suresh. C	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology.	Member
13	Mr.G. Ajay	Student (IV Year-AERO)	Student Member
14	Mr.M. Manushmaran	Student (III Year-AERO)	Student Member
15	Mr.R K Vishal	Student (II Year-AERO)	Student Member

- The Chairman welcomed University nominees, Subject experts, special invitees and all the internal members for the Board of Studies meeting.
- The Chairman briefly explained the Salient features of Regulation 2016 and Regulation 2019 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) & Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC).
- The feedback received on the curriculum by the stakeholders was presented.
- Followed by, Chairman presented the suggestions given by the BoS experts and the action taken report during the Previous BoS meeting, which was held during **10.03.2020**. Members of the BOS approved the same.

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

a. Subject Expert (Dr.R. Kannan) suggested that the certification courses from various aircraft maintenance organizations and Agencies can be offered as mandatory courses or one credit courses.
b. Subject Expert (Dr.R. Kannan) suggested that Non-credit mandatory courses focusing on GATE and other competitive examinations can be offered in each semester.
c. Subject Expert (Dr.P.S. Premkumar) suggested that, Summer internships from various reputed aircraft maintenance industries can be offered to students every year.

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d. Also the expert suggested, One credit course for emerging skills such as Artificial intelligence, Machine Learning, Data Analytics as per FICCI and World Economic forum report may be offered. It can also be taken up from MOOCs.
e. Subject Expert (Dr.P.S. Premkumar) suggested that, One extra credit course as per the local region industry requirements can be offered.
f. University Nominee (Dr.J. Bruce Ralphin Rose) suggested that, to issue B.E.(Hons) for the students who earn extra credits and scored CGPA above 8.5.
g. Also the expert suggested, Assessment tools such as seminars, Group discussion, project work can be considered for assessment methods.
h. Experts from QS rated Institution (Dr.Mohammed Ibrahim) suggested introducing One credit mini Project work/ Hands on training may be offered every semester along with practical courses.
i. The Student member, (Mr.G.Ajay, IV AERO) requested to offer a larger number of additional credit courses to enhance their technical skills.
j. Chairman conveyed about the Consideration of MOOC courses like NPTEL/Coursera / Edx etc as Additional credit courses so that students can get wide exposure on knowledge sharing.
k. The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.

- Mesh tools for industrial application
- CATIA with Industrial Approach

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

For Regulations 2016:

- In almost all the courses, changes have been made as per the Local, Regional, National and Global needs.
- The curriculum and syllabi of R2016 for the VII & VIII semester subjects of B.E Aeronautical Engineering program for the students admitted during the academic year 2018 - 2019 and onwards was permitted to move on to Academic Council.

For Regulations 2019:

- In almost all the courses, changes have been made as per the Local, Regional, National and Global needs.
- The curriculum and syllabus of Regulation 2019 for the I & II semester subjects were passed by the Science and Humanities, Computer Science and Engineering, Mechanical Engineering, Electrical and Electronics Engineering boards and permitted to move on the Academic Council by the BoS members of Aeronautical Engineering for the students admitted during the academic year 2021-2022 and onwards.
- The curriculum and syllabus of Regulation 2019 for the III & IV semester Mathematics subjects were passed by the Science and Humanities board and permitted to move on Academic Council by the BoS members of Aeronautical Engineering for the students admitted during the academic year 2020-2021 and onwards.

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- The curriculum and syllabi of R2019 for the III & IV semester subjects of B.E Aeronautical Engineering program for the students admitted during the academic year 2020 - 2021 and onwards was permitted to move on to Academic Council.
- Based on Regulation 2016, the revised curriculum and syllabi for V and VI semesters of R2019 were introduced for the B.E Aeronautical Engineering program for the students admitted in the academic year 2019-20 and onwards and the same were presented and discussed. It was permitted to move on to the Academic Council.
- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in R2019.
- The Chairman conveyed that the suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with a vote of thanks at 1.30 p.m.

Chairman
Board of Studies

Chairman - BoS
AERO - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
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 ENGG & TECH ★ CBE-32 ★

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Date: 12.07.2021

BOARD OF STUDIES MEETING

Name of the Department: **Aeronautical Engineering**

The Seventh Board of Studies meeting of Regulation 2019 for the academic year 2021-22 was conducted on 12.07.2021 (Monday) at 2.30 P.M. at ONLINE mode through Google Meet. (Meet Link: https://meet.google.com/iqe-hcpw-hcr)

The following members were present.

S.No.	Name of the Person	Department	Position
1	Mr. V.T. Gopinathan	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Chairman
2	Dr. M.Sakthivel	Associate Professor, Department of Mechanical Engineering, Anna University, Regional campus, Coimbatore.	University Nominee
3	Dr. S.Venkatachalam	Associate Professor, Department of Aerospace Engineering, Karunya University, Coimbatore.	Subject Expert
4	Dr. R. Arravind	Professor & Head, Department of Aeronautical Engineering, Paavai Engineering College, Namakkal.	Subject Expert
5	Mr. Asvath Arunraj	Manager, Vibrant NDT Services Pvt.Ltd, Chennai.	Industry Expert
6	Dr. P.Arunkumar	Assistant Professor, Department of Aerospace Engineering, Indian Institute of Technology, Kanpur.	Member from QIS rated Institution
7	Mr. M.Moses Devaprasanna	Associate Professor, Department of Aeronautical Engineering, Hindusthan Institute of Technology, Coimbatore.	Member from HiTECH
8	Mr. V.Gokul	Senior CAE Analyst, GM-TCS, Bangalore.	Alumni Member

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9	Mr. Veeramanikandan R	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
10	Mr. Saravanan R	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
11	Mrs. Vijayalakshmi T	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
12	Mr. Saravanakumar V	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
13	Dr. Ganesh M	Assistant Professor, Department of Aeronautical Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Autonomous Coordinator
14	Ms. Sharusri (18101076)	IV year, Department of Aeronautical Engineering	Student Member
15	Mr. Suhail Ahmed S (19101063)	III year, Department of Aeronautical Engineering	Student Member
16	Mr. Akash Lourdes M (19101006)	III year, Department of Aeronautical Engineering	Student Member

- The Chairman welcomed University nominees, 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 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) & Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC).
- The feedback received on the curriculum by the stakeholders was presented.
- Followed by, Chairman presented the suggestions given by the BoS experts and the action taken report during the Previous BoS meeting, which was held during **21.01.2021**. Members of the BOS approved the same.

Following are the Comments put forth by the Experts:

1. In "19AE5201-Advanced Propulsion", 25% syllabus revision was made with relevant topics.



2. in "19AE5202-Aircraft Structures - II" 20% syllabus change has been made based on the feedback of stakeholders.
3. In "19AE5203-Flight Dynamics" 25% syllabus revision made with relevant topics.
4. In "19AE5204-High Speed Aerodynamics" 20% syllabus revision made with relevant topics.
5. In "19AE5301-Aircraft Materials and Process" 20% syllabus change has been made based on the feedback of stakeholders.
6. In "19AE5302-Wind tunnel techniques" 25% syllabus revision made with relevant topics.
7. In "19AE5251-Aircraft Systems and General Maintenance Practices" 25% syllabus revision made with relevant topics.
8. In "19AE6203-Heat Transfer" 20% syllabus change has been made based on the feedback of stakeholders.
9. In "19AE6001-Structural Simulation Laboratory" 25% syllabus revision made with relevant topics.
10. In "19AE6002-Aero Engine and Airframe Laboratory" 25% syllabus revision made with relevant topics.
11. In "19AE6305-Airframe Maintenance and Repair" 25% syllabus revision made with relevant topics.

12. In Semester V – 19AE5001 UAV design and Aeromodelling Laboratory with the weightage of each 1 Credit has been modified by 23%
13. In Semester VI - the 19AE6304 – Intellectual Property Rights (IPR) course offered in professional elective is replaced with AI & IoT for aviation by for 3 Credits.

14. The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.

- CREO for design engineers
- Design and drafting using solid works

15. Introduced Course:

a) In Semester I & II – Three Employability Enhancement Subjects (21HE1072 Career Guidance - Level I, 21HE1073 Entrepreneur & Innovation and 21HE2072 Career Guidance - Level II) added within the curriculum as Mandatory Course with Zero Credit

b) In Semester III – Two Employability Enhancement Subjects (19HE3072 Career Guidance - Level III and 19HE3073 Leadership Management Skills) added within the curriculum as Mandatory Course with Zero Credit



c) In Semester IV – Two Employability Enhancement Subjects (19HE4072 Career Guidance – Level IV and 19HE4073 Ideation Skills) added within the curriculum as Mandatory Course with Zero Credit

d) In Semester V – 19HE5071 Soft Skill - I and 19HE5072 Design Thinking new subjects added with the weightage of each 1 Credit under Employability Enhancement Course – Total 2 Credits including batch 2019- 2023

e) In Semester VI – 19HE6071 Soft Skill -II and 19HE6072 Intellectual Property Rights (IPR) new subjects added with the weightage of Each 1 Credit under Employability Enhancement Course – Total 2 Credits including batch 2019 -2023.

Also, the following points were discussed.

1. For **2019-2023** batch students, the following courses have been introduced
   - In Semester V – 19HE5071 Soft Skill - I and 19HE5072 Design Thinking new subjects added with the weightage of each 1 Credit under Employability Enhancement Course – Total 2 Credits
   - In Semester VI – 19HE6071 Soft Skill -II and 19HE6072 Intellectual Property Rights (IPR) new subjects added with the weightage of Each 1 Credit under Employability Enhancement Course – Total 2 Credits
   - Also the credit for Project in VIII semester has been reduced from 12 to 8.
2. For **2020-2024** batch students, the following courses have been introduced
   - In Semester I & II – Three Employability Enhancement Subjects (19HE1072 Career Guidance - Level I, 19HE1073 Entrepreneur & Innovation and 19HE2072 Career Guidance - Level II) added within the curriculum as Mandatory Course with Zero Credit
   - In Semester III – Two Employability Enhancement Subjects (19HE3072 Career Guidance - Level III and 19HE3073 Leadership Management Skills) added within the curriculum as Mandatory Course with Zero Credit
   - In Semester IV – Two Employability Enhancement Subjects (19HE4072 Career Guidance – Level IV and 19HE4073 Ideation Skills) added within the curriculum as Mandatory Course with Zero Credit
   - In Semester V – 19HE5071 Soft Skill - I and 19HE5072 Design Thinking new subjects added with the weightage of each 1 Credit under Employability Enhancement Course – Total 2 Credits
   - In Semester VI – 19HE6071 Soft Skill -II and 19HE6072 Intellectual Property Rights (IPR) new subjects added with the weightage of Each 1 Credit under Employability Enhancement Course – Total 2 Credits
   - Also the credit for Project in VIII semester has been reduced from 12 to 8.
3. For **2021-2025** batch students, the following courses have been introduced
   - As per the AICTE guideline, in Semester I, II, III & IV NCC one credit subject is added as Value Added Course with Extra Credit. Further, the students who enroll in HiCET NCC and Air Wing are eligible to undergo this subject. The earned extra credits will be printed in the Consolidated Mark sheet as per the regulation.



- NCC course level 1 & Level 2 will be added in the open elective subject in the appropriate semester. Further, the students who have opted NCC subjects in Semester I, II, III & IV are eligible to undergo NCC Open Elective Subjects.
- The above-mentioned NCC Courses will be offered to the students admitted from Academic Year 2021 - 2022 onwards.

4. Skill based subjects, EEC (Employability Enhancement Course) and Entrepreneur & Innovation subjects are Introduced.
   Skill Development based courses.
   - 19AE5304 - Non Destructive Evaluation

   Employability based courses
   - 19AE5303 - UAV and MAV design
   - 19AE6002 - Aero Engine and Airframe Laboratory
   - 19AE6304 - AI & IoT for aviation
5. Value Added Courses are added to each semester from semester III to VII, coordinating the curriculum to enhance the technical skills of the students.
6. Inter department Value Added Course is implemented in semester V.
7. Since IPR has been introduced in semester VI, the IPR course offered in professional elective is replaced with AI & IoT based subjects.
8. In 19AE5001- UAV design and Aeromodelling Lab, the experiment, "study of UAV components" is modified as study of fixed wing UAV components and study of multirotor UAV components.
9. Any adaptation can be made in the new regulation, not the existing one.
10. Soft skill-I can have social media communication to enhance the professional use of the social media.
11. Preparation of Professional resume can be included in the soft skill-II.
12. In Career Guidance Course Level 1, Quality aptitude tests with geometry related problems can be included.
13. MATLAB can be introduced as a Value-Added Course based on possibility.
14. Implication of three additional courses in each semester along with six theory courses should not burden the student.
15. One more open elective course can be added.
16. Number of Professional elective courses could be increased by one.

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

1) The syllabi of I & II semester of the UG Programmes were passed by the Science and Humanities, Computer Science and Engineering, Mechanical Engineering, Electrical and Electronics Engineering boards and permitted to move on the Academic Council by the BoS members of Aeronautical Engineering for the students admitted during the academic year 2021 - 2022 and onwards.
2) The syllabi of III & IV semester of the UG Programmes for the students admitted during the academic year 2020 - 2021 and onwards was passed and permitted to move on the Academic Council.
3) The syllabi of V & VI semester of the UG Programmes for the students admitted during the academic year 2019 - 2020 and onwards was reviewed and permitted to move on the Academic Council.



4) The syllabi of VII & VIII semester of the UG Programmes for the students admitted during the academic year 2018 - 2019 and onwards was reviewed and permitted to move on the Academic Council.
5) Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in R2019.
6) The Chairman conveyed that the suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting came to an end at 03.30 P.M. with a vote of thanks.

Chairman

Board of Studies

Chairman - BoS
AERO - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
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 ENGG & TECH * CBE-32 *

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
HICET

Hindusthan College of Engineering and Technology

(An Autonomous Institution, Affiliated to Anna University, Chennai
Approved by AICTE, New Delhi & Accredited by NAAC with 'A' Grade)
Valley Campus, Pollachi Highways, Coimbatore, Tamil Nadu.

TÜVRheinland CERTIFIED

Date: 08.02.2021

DEPARTMENT OF AUTOMOBILE ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

The Sixth BoS meeting of regulation R2019 for the Academic year 2021 – 22 was conducted on 30.01.2021 in online mode using Google Meet (https://meet.google.com/fcb-zxfn-rbc) at 11.00 am. The objective of the meeting was to discuss the curriculum and syllabi of V and VI semester with the respective Professional Elective courses and Open Elective courses. Along with the same, the VII and VIII semesters of R2016 were also discussed for any suggestions.

The following members were present.

S.No.	Name of the Person	Department	Position
1	Dr. C.Sabarinathan	Professor and Head Department of Automobile Engg., Hindusthan College of Engineering and Technology	Chairman
2	Dr Senthil Kumar M	Professor, Department of Automobile Engineering, Madras Institute of Technology, Anna University, Chennai.	University Nominee
3	Dr Jegadheesan C	Associate Professor, Department of Automobile Engineering, Kongu Engineering College, Erode.	Subject Expert
4	Dr Srihari S	Assistant Professor, Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Coimbatore.	Subject Expert
5	Dr Adel Ahmed	Academic President Birmingham City University, UK.	QS Ranked # 87 Institution – Special Invitee
6	Dr Ramesh Shankar	Programme Manager, Autodesk Education Experiences, Autodesk India Pvt. Ltd., Bangalore	Industry Expert

HINDUSTHAN COLLEGE OF ENGG & TECH CBE

7	Mr Nithin Kumar S	Assistant General Manager, ELGI Equipment's Limited, Coimbatore.	Industry Expert
8	Mr Chandra Mohan S	Assistant General Manager, Finance Controlling & Project Management, Daimler India Commercials Vehicles, Chennai.	Industry Expert – Special Invitee
9	Mr Remesh U G	Senior General Manager, Ashok Leyland – Technical Centre, Chennai.	Industry Experts – Special Invitee
10	Dr Gopalakrishnan M	Senior Manager, E, R & D – CAE, Brakes India Private Limited, Chennai.	Industry Expert – Special Invitee
11	Dr Saravanakumar P T S	Professor and Head, Department of Automobile Engineering, Hindusthan Institute of Technology, Coimbatore.	Subject Expert - Special Invitee
12	Mr Karivaradharaj R	Mater Student, Kedge Business School, Bordeaux, FRANCE.	Alumni Expert
13	Mr.Kumar T (F/O Rithesh.K, III year Auto. Engg.)	Professor, Department of Computer Science, Annamalai University, Chidambaram	Parent
14	Dr. Mangayarkarasi.K (M/O Aravind P.M., IV-year, Auto. Engg)	Professor and Head, Department of English, Govt. Women's Arts and Science college, Bargur, Krishnagiri District.	Parent
15	Dr Jeyalakshmi P	Professor / Automobile Engg., Hindusthan College of Engineering and Technology	Member
16	Dr Sankar Ganesh R	Assistant Professor / Automobile Engineering, Hindusthan College of Engineering and Technology	Member
17	Mr. Dhayananthan N	Assistant Professor, Department of Automobile Engineering, Hindusthan College of Engineering and Technology.	Member
18	Mr Yogaraja J	Assistant Professor / Automobile Engineering, Hindusthan College of Engineering and Technology	Member

HINDUSTHAN COLLEGE OF ENGG & TECH CBE

19	Mr Naresh Mallireddy	Assistant Professor / Automobile Engineering, Hindusthan College of Engineering and Technology	Member
20	Mr Krishnaraj J	Assistant Professor / Automobile Engineering, Hindusthan College of Engineering and Technology	Member
21	Mr Samuel Gemsprim M	Assistant Professor / Automobile Engineering, Hindusthan College of Engineering and Technology	Member
22	Mr Ragu S	Assistant Professor / Automobile Engineering, Hindusthan College of Engineering and Technology	Member
23	Mr Naveenraj D	Assistant Professor / Automobile Engineering, Hindusthan College of Engineering and Technology	Member
24	Mr Mujiburrahman K	Assistant Professor / Automobile Engineering, Hindusthan College of Engineering and Technology	Member
25	Mr Prabhu G	Assistant Professor / Automobile Engineering, Hindusthan College of Engineering and Technology	Member
26	Mr Satheesh Kumar K	Assistant Professor / Automobile Engineering, Hindusthan College of Engineering and Technology	Member
27	Mr Prakash R S	Assistant Professor / Automobile Engineering, Hindusthan College of Engineering and Technology	Member
28	Mr.Sujai K	IV-year student/ Automobile Engineering, Hindusthan College of Engineering and Technology	Student Member
29	Mr.Meharaj S	IV-year student/ Automobile Engineering, Hindusthan College of Engineering and Technology	Student Member



30	Mr.Mathiyarasan T	III-year student/ Automobile Engineering, Hindusthan College of Engineering and Technology	Student Member
31	Mr.Sanjeev Kumar S	II-year student/ Automobile Engineering, Hindusthan College of Engineering and Technology	Student Member

The following member could not attend the meeting due to other official engagements.

1. Mr.R. Karivaradharaj (Alumni Member)
2. Mr.T. Kumar (Parent member)
3. Dr. Mangayarkarasi K (Parent member)

- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the sixth Board of Studies meeting.
- Followed by, he also presented the suggestions given by the experts and the action taken during the previous BOS meeting which was held during **30.08.2020.** Members of the BoS approved the same.
- The feedback received on curriculum by the stakeholders was presented by the Chairman-BoS
- Also, the Chairman has presented the current scenario in the Automotive industry based on various reports presented by Confederation of Indian Industry (CII), Deloitte and FICCI with the forecast of job profiles required till 2030.
- Chairman also gave an outline of the changes to be made in the curriculum given by the Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC) and emphasized the importance of including the employability enhancement courses & Skill Development related courses in the curriculum to be in line with the industry needs.

Regulation 2016 discussion:

- The curriculum and syllabus of semester VII and VIII were presented by the BoS Chairman along with the professional and open electives.

HINDUSTHAN COLLEGE OF ENGG & TECH * CHE *

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

Comments given by BoS members:

Dr.K.M.Senthil Kumar – Anna University Nominee:

- Dr.M.Senthil Kumar suggested that the lab subject 'Performance and Emission testing laboratory' which is offered in semester VII was found to be late and the same should be offered in the III year preferably V or VI semesters.
- He also recommended to check the syllabus of 'Automotive Electricals and Electronics' with 'Alternative Fuels and Energy systems' and 'Hybrid and Elective vehicles'
- Also, may add advanced topics and change the title as 'Advanced Automotive Electricals and Electronics'.
- Based on the current industrial requirements, Software knowledge is very important for the students.
- So, he suggested to add skill-oriented courses as presented by the Chairman.

Dr.C.Jagadeesan:

- He has found the contents of unit V in 'Automotive Electricals and Electronics' as vast and asked to simplify it.
- In the course 'Automotive Fuels and Lubricants', the properties of fuels should be added to unit IV.
- Dr,C.Jegadheesan has recommended to add the 'Total Productive Maintenance' topic to the subject 'Total Quality Management'.
- In the course 'Electric and Hybrid Vehicles' in unit IV motors and controllers, the topic was found to be vast. Only EV motors and control techniques to be added.
- In the course 'Remote monitoring', PLC and SCADA can be added.
- Dr.C.Jegadheesan has recommended to add a topic 'Kinetic Energy Recovery System - KERS'.
- Also, he has recommended to add a new topic 'turbocharging and supercharging' and 'Product Lifecycle Management' in any one of the elective courses.
- Also, 'Modeling and Simulation of Automotive Systems using MATLAB' can be added as a single credit course.

Dr.Srihari:

- In Automotive Chassis Components Design course, the member suggested to add 'Antilock Braking System'.



- Some basics of Automotive Electronics and Infotainment may be added in any course appropriately.
- More lab incorporated courses need to be introduced and revamped.
- Dr.Srihari has recommended to add postprocessing after finding the P'theta and PV diagram in 'Engine performance and Emission testing lab'.
- In any course, 'Multibody dynamics' may be introduced.

Dr.Adel Ahamed:

- Appreciated the R2019 Curriculum and Syllabus of Automobile Engineering.
- From his observation, he found that the syllabus of each course is widespread and gives an eye opening on each and every topic. But when comparing with the syllabus of his Birmingham University the topics are not detailed to provide in depth knowledge in the course.
- So, he suggested to reduce the contents and add some more depth to the individual topics.

Mr.Nithin:

- In 'Total Quality Management' course he suggested to add the ISO standards related to automotive companies.
- Mr. Nithin has found that Tractors and farm Equipments is the name of the industry. So the Board members suggested a new name, especially Dr.Srihari has recommended 'Off road vehicles' as title of the course.
- From his experience, Mr.Nithin has addressed about the unused data which were collected for various products and applications. Ergo, he has suggested to add some topics like 'data mining' and 'data analytics' in any of the subjects.
- Also, he has suggested to add a specific course 'Introduction to Data Science'.

Mr.Remesh Ganesan:

- In Automotive Components lab, 'Cooling module – Radiators, etc.' need to be added to the experiments.

Dr.Ramesh Pudale:

- Dr.Ramesh Pudale has presented some topics on Artificial Intelligence and Machine Learning, Generative Design, Additive Manufacturing and Industrial design technology and its applications in Automotive field and suggested to add some courses or topics related to them.

KUMARAGURU COLLEGE OF ENGG & TECH

Mr.S.Chandramohan:

- Mr.S.Chandramohan has suggested to add some more courses or single credit courses in the disciplines like Data analysis, Market knowledge and Planning skills and related case studies.

Concluding Note – BoS Chairman:

Discussion in 2016 Regulation:

- No changes were suggested and made in the same.

Discussion in 2019 Regulation:

Based on the discussions and suggestions given by the BoS members, the following changes are made to the Professional Electives of R2019 curriculum and syllabus.

Professional Elective I

- Instead of 'Noise, Vibration and Harshness' course, 'Plastic parts manufacturing technology' course is planned to be included.

Professional Elective II

- Instead of 'Combustion Engineering' course, 'Additive Manufacturing' course is planned to be included.

Professional Elective III

- Instead of 'Railway Engineering' course, 'Supply Chain Management' course is planned to be included.

Professional Elective IV

- Instead of 'Automotive Infotainment' course, 'Digital Vehicle Monitoring' course is planned to be included.

Professional Elective V

- Instead of 'Automotive testing and Diagnosis' course, 'Automotive Cybersecurity' course is planned to be included.

Open Elective

- A new life science based open elective course 'General studies for Competitive Examinations' syllabus was presented for member's approval.

One Credit courses



In order to cater the needs of industry and improve employability, the following one credit courses were proposed

- Foundry Technology
- Electric Motors Technology
- Plastic Parts Design using Autodesk Products
- Automotive Research Association of India (ARAI) Standard Norms
- Competitive Exams – Life Skill – Jeevan Kausal - AICTE

The BoS members delegated the authority to the BoS chairman to coin the suitable one credit course with respect to the need of Industry requirements.

Value Added Courses

The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested

Royal Enfield BS VI Engine architecture

Eicher BS VI Engine architecture

Eicher Electrical Board Faulty Diagnosis

Royal Enfield Vehicle Maintenance and Overhauling

Eicher Vehicle Maintenance and Overhauling

Others

Additionally, the Cooling module – Radiators, etc., need to be added to the experiments of Automotive Components lab.

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

For Regulations 2016:

- In almost all the courses, changes have been done as per the current needs.
- The curriculum and syllabi of R2016 for the VII & VIII semester subjects of B.E Automobile Engineering program for the students admitted during the academic year 2018 - 2019 and onwards was permitted to move on to Academic Council.

For Regulations 2019:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabus of Regulation 2019 for the I & II semester subjects were passed by the Science and Humanities board and permitted to move on Academic

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Council by the BoS members of Automobile Engineering for the students admitted during the academic year 2021-2022 and onwards.

- The curriculum and syllabus of Regulation 2019 for the III & IV semester Mathematics 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 2020-2021 and onwards.
- The curriculum and syllabi of R2019 for the III & IV semester subjects of B.E Automobile Engineering program for the students admitted during the academic year 2020- 2021 and onwards was permitted to move on to Academic Council.
- Based on Regulation 2016, the revised curriculum and syllabi for V and VI semesters of R2019 were introduced for B.E Automobile Engineering program for the students admitted in the academic year 2019-20 and onwards and the same were presented and discussed. It was permitted to move on to Academic Council.
- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in R2019.
- 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.

The meeting ended with a vote of thanks at 12.30 pm.

Chairman

Board of Studies

Chairman - BoS
AUTO - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
4. Curriculum and Syllabi

Copy:

1. The Principal
2. Dean Academics
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4. All the Members of BoS
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Hindusthan College of Engineering and Technology

(An Autonomous Institution, Affiliated to Anna University, Chennai
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Valley Campus, Pollachi Highways, Coimbatore, Tamil Nadu.

DEPARTMENT OF AUTOMOBILE ENGINEERING

Date: 20.07.2021

SEVENTH BOS MEETING MINUTES

The Seventh BoS meeting of Regulation 2019 for the Academic year 2021–22 was conducted on 15.07.2021 in online mode using Google Meet (https://meet.google.com/dph-owao-pjn) at 03.00 pm. The objective of the meeting was to discuss the curriculum and syllabi with all Professional Elective courses, Open Elective courses and newly added courses.

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 Sakthivel M	Associate Professor, Department of Mechanical Engineering, Anna University, Regional Campus 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 Saravanan P R K	Divisional Manager, Product Cost Engineering – Electric Vehicles, Ashok Leyland Limited.	Industry Expert – Special Invitee
7	Mr Arjun E	Diagnostic Engineer, Robert Bosch Engineering and Business Solution, Coimbatore	Alumni Expert

8	Dr Adel Ahmed	Academic President Birmingham City University, UK.	QS Ranked # 87 Institution – Special Invitee
9	Dr Saravanakumar P T S	Professor and Head, Department of Automobile Engineering, Hindusthan Institute of Technology, Coimbatore	Subject Expert (Sister Concern)
10	Mr. Kumar T (F/O Rithesh.K, IV year)	Professor, Department of Computer Science, Annamalai University, Chidambaram	Parent
11	Mr Dharmaraj N (F/o Praveen Sri Raam, III Yr)	Lab Instructor, Department of Mechanical Engineering, PSG College of Technology, Coimbatore	Parent
12	Dr Jeyalakshmi P	Professor / Automobile Engg., Hindusthan College of Engineering and Technology	Member
13	Dr Sankar Ganesh R	Assistant Professor / Automobile Engg., Hindusthan College of Engineering and Technology	Member
14	Mr. Dhayananthan N	Assistant Professor, Department of Automobile Engineering, Hindusthan College of Engineering and Technology.	Member
15	Mr Yogaraja J	Assistant Professor / Automobile Engg., Hindusthan College of Engineering and Technology	Member
16	Mr Naresh Mallireddy	Assistant Professor / Automobile Engg., Hindusthan College of Engineering and Technology	Member
17	Mr Krishnaraj J	Assistant Professor / Automobile Engg., Hindusthan College of Engineering and Technology	Member
18	Mr Samuel Gemsprim M	Assistant Professor / Automobile Engg., Hindusthan College of Engineering and Technology	Member
19	Mr Ragu S	Assistant Professor / Automobile Engg., Hindusthan College of Engineering and Technology	Member
20	Mr Naveenraj D	Assistant Professor / Automobile Engg., Hindusthan College of Engineering and Technology	Member
21	Mr Mujiburrahman K	Assistant Professor / Automobile Engg., Hindusthan College of Engineering and Technology	Member
22	Mr Prabhu G	Assistant Professor / Automobile Engg.,	Member



		Hindusthan College of Engineering and Technology	
23	Mr Satheesh Kumar K	Assistant Professor / Automobile Engg., Hindusthan College of Engineering and Technology	Member
24	Mr Prakash R S	Assistant Professor / Automobile Engg., Hindusthan College of Engineering and Technology	Member
25	Mr Mathiyarasan T	Final Year Automobile Engineering	Student Member
26	Mr Sanjeev Kumar S	Third Year Automobile Engineering	Student Member

*Due to his preoccupied schedule, Dr. Adel Ahmed, Special invitee and Mr.Arjun E, Alumni member were not able to attend the meeting.

- 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 and salient features of the Curriculum and Syllabi.
- The feedback received on curriculum by the stakeholders was presented by the Chairman-BoS
- He also presented the suggestions given by the experts and the action taken during the sixth BOS meeting which was held during **30.01.2021**. Members of the BOS approved the same.
- Chairman also gave an outline of the changes to be made in the curriculum given by the Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC) and emphasized the importance of including the employability enhancement courses & Skill Development related courses in the curriculum to be in line with the industry needs.

Further, the following points are discussed

- In Semester I & II – Three Employability Enhancement Subjects (Career Guidance 1&2 + Entrepreneur & Innovation) added with in the curriculum as Mandatory Course with Zero Credit
- In Semester III – Two Employability Enhancement Subjects (Career Guidance 3 & Leadership Management Skills) added with in the curriculum as Mandatory Course with Zero Credit
- In Semester IV – Two Employability Enhancement Subjects (Career Guidance 4 & Ideation Skills) added with in the curriculum as Mandatory Course with Zero Credit



- In Semester V – Soft Skill and Design Thinking new subjects added with the weightage of each 1 Credit under Employability Enhancement Course – Total 2 Credits
- In Semester VI – Soft Skill and Intellectual Property Rights (IPR) new subjects added with the weightage of each 1 Credit under Employability Enhancement Course – Total 2 Credits
- As per the AICTE guideline, in Semester I, II, III & IV NCC one credit subject is added as Value Added Course with Extra Credit. Further, the students who enroll in HICET NCC and Air Wing are eligible to undergo this subject. The earned extra credits will be printed in the Consolidated Mark sheet as per the regulation.
- NCC course level 1 & Level 2 will be added in the open elective subject in the appropriate semester. Further, the students who have opted NCC subjects in Semester I, II, III & IV are eligible to undergo NCC Open Elective Subjects.
- The above mentioned NCC Courses will be offered to the students admitted from Academic Year 2021 - 22 onwards

After the presentation was over, the Chairman shared the syllabus of the new implementation subjects.

Comments given by BoS members:

Dr Sakthivel M (AU Nominee):

- He has appreciated the curriculum design and addition of NCC courses as per AICTE guidelines.
- Also, he expressed his appreciation for including industry requirements-based skill development courses.
- He suggested to reduce the frequent changes in the curriculum as it may lead to misperceptions.

Dr Somasundaram P (Subject Expert):

- A topic related to embedded control may be added in a suitable course.
- Role of composite materials to be added to in any of the suitable course

Dr Bharathi Mohan M P (Subject Expert):

- Some basics of MATLAB may be added in any lab course appropriately.
- Topics like CFD, PSC and thermal management may be added to any of the thermal related courses.



Mr Manikandan G (Industry Expert):

- From his experience, Mr.Manikandan has mentioned about the use of Data mining and data analytics is vital in industries requirements. Ergo, he has suggested to add some topics like 'data mining' and 'data analytics' in any of the subjects as a mandatory one.
- Also, he has suggested that visualization and data interpretation like MS excel software practice need to be given.
- Public speaking, articulation and leadership skills should be added in the curriculum and given weightage.
- Need to extend career guidance up to VIII semester.

Mr Saravanan P R K (Industry Expert):

- Aluminium – air battery technology may be added in Battery technology course.
- Also, he has suggested that cost of ownership, cost estimation and optimization and return on investment need to be included in any suitable course.
- In line with Mr Manikandan, he also suggested to add more practice in presentation software like MS PowerPoint and data manipulation software viz. MS Excel.

Mr.Kumar T (Parent):

- He suggested to add some quality tools and measurement devices to any of the suitable course.

Mr. Krishnaraj J (Faculty member)

- He suggested that, based on the new norms of Road and Transport Authority awareness need to be created among the student communities regarding the RTO regulations and vehicle testing related courses need to be included in the elective subjects.

Mr. Mathiyarasan T (Student member):

- He has expressed his gratitude to the department for inclusion of various skill-oriented courses and soft skill development related courses.

Mr. Sanjeev Kumar S (Student member):

- He requested to add fire and safety related courses in professional electives or open elective courses.

The following Skill Development courses introduced for member's approval.

✓ 19HE3073 - Leadership Management Skills



The following Employability courses for member's approval

- ✓ 19AU5305R - Plastic Parts Manufacturing Technology
- ✓ 19HE5071 - Soft Skills-I

Based on the suggestions given by stakeholders, the following one credit courses are introduced

- ✓ Foundry Technology
- ✓ Forming and Shaping of Plastics
- ✓ Microcontroller Programming in Automotive applications
- ✓ Vehicle development and testing regulations (ARAI)
- ✓ Big Data Analysis
- ✓ Data mining
- ✓ Fire and safety Engineering
- ✓ Introduction to MS office

The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested

- ✓ Royal Enfield BS VI Engine architecture
- ✓ Eicher BS VI Engine architecture
- ✓ Eicher Electrical Board Faulty Diagnosis
- ✓ Royal Enfield Vehicle Maintenance and Overhauling
- ✓ Eicher Vehicle Maintenance and Overhauling

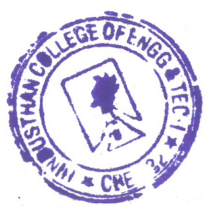
The following resolutions were made in the Board of Studies meeting,

For Regulations 2016:

- In almost all the courses, changes have been done as per the current needs.
- The curriculum and syllabi of R2016 for the VII & VIII semester subjects of B.E Automobile Engineering program for the students admitted during the academic year 2018 - 2019 and onwards was permitted to move on to Academic Council.

For Regulations 2019:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabus of Regulation 2019 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 2021-2022 and onwards.

- The curriculum and syllabus of Regulation 2019 for the III & IV semester Mathematics 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 2020-2021 and onwards.
- The curriculum and syllabi of R2019 for the III & IV semester subjects of B.E Automobile Engineering program for the students admitted during the academic year 2020 - 2021 and onwards was permitted to move on to Academic Council.
- Based on Regulation 2016, the revised curriculum and syllabi for V and VI semesters of R2019 were reviewed for the B.E Automobile Engineering program for the students admitted in the academic year 2019-20 and onwards and permitted to move on to the Academic Council.
- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in R2019.
- 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.

The meeting ended with a vote of thanks at 04.00 pm.

Chairman
Board of Studies
Chairman - BoS
AUTO - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
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 ENGG & TECH CHE 32

Hindusthan College of Engineering and Technology

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

Date: 12.02.2021

BOARD OF STUDIES MEETING

Name of the Department: Civil Engineering

The Sixth Board of Studies meeting of civil engineering to discuss the curriculum & syllabus of Regulation 2016 & 2019 for the academic year 2021-2022 was conducted on 12.02.2021 at 02.30 pm in the ONLINE mode through Google Meet.

(Meeting Link:https://meet.google.com/lookup/c43wzlmjsw)

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. S.T.Ramesh	Professor of Civil Engineering, National Institute of Technology Tiruchirappalli.	University Nominee
3	Dr. V. G. Srisanthi	Professor of Civil Engineering, Coimbatore Institute of Technology. Coimbatore	Academic Expert
4	Dr. S. Shantha Kumar	Professor & Dean, School of Civil Engineering, Vellore Institute of Technology (VIT), Vellore	Academic Expert
5	Dr. V. M. Shanthi	Principal, Government College of Engineering, Srirangam	Academic Expert
6	Mr. V. Sriraman	Director – Academics, One Source Technologies, #77/5/33,Subramaniyan Colony, Omlur Main Road, Selem	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	Member

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

		Department of Civil Engineering, Hindusthan College of Engineering and Technology	
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. P. Subashree	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	Mr. R. Praveennath	Sri Sivan Construction, #2/68, Alampalayam, Tiruppur	Alumni Member
15	Mr. M. Murugan	F/o. Ms. M. Pooja (17103069)	Parent Member

- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the third Board of Studies meeting.
- Chairman gave an outline of the changes to be made in the curriculum given by the Curriculum and Development Cell (CDC) & Pre- Board of studies (Pre- BoS)/ Department Advisory Committee (DAC).
- The feedback received on the curriculum by the stakeholders was presented.
- Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during **24.03.2020.** Members of the BOS approved the same.

HINDUSTHAN COLLEGE OF ENGG & TECH
CSE-32

Following are the Comments put forth by the Experts:

- "19CE5201 - ANALYSIS OF DETERMINATE STRUCTURES" Elaborate UNIT II by introducing sub contents, Title to be changed as Structural Analysis I

- "19CE5201 - Structural Analysis I" **Title of Unit I -** Deflection of Determinate Structures to be changed as Analysis of Beams and Frames.**Unit I** Determination of Static and Kinematic Indeterminacies in, plane and space Trusses, Analysis of plane trusses by method of joints, method of sections and method of tension coefficient, Castigliano's First and Second Theorems -Deflection of statically determinate, Analysis of pin jointed trusses, Betti's Law are to be replaced as Analysis of beams and frames by energy method (up to redundancy two), Principle of Virtual Work, Analysis of Continuous Beams by Theorem of three moments.

- "19CE5202 - DESIGN OF RCC ELEMENTS" Revisit the course outcomes & use different Taxonomical verbs for course outcomes.

- "19CE5203 - WATER SUPPLY ENGINEERING" Revisit the course objectives Rural water supply may be added in UNIT V

- "19CE5204 - FOUNDATION ENGINEERING" Kindly use different Taxonomical verbs for course objectives. Elaborate UNIT II by introducing sub content, UNIT III - Footing and Raft Additionally – Foundation Stitch slab Grade Slab-Rock Anchoring Pullout test.

- "19CE5205 - HIGHWAY AND RAILWAY ENGINEERING" Re-laying of Track , Layouts of Railway Stations and Yards may be added in UNIT V

- "19CE5001- CONCRETE AND HIGHWAY ENGINEERING LAB" Course objectives and Course Outcomes may be increased to 5 (Similar with other subjects) Description of the Experiment: May be described as Determination of Specific Gravity of soil using Pycnometer. Concrete and Highway Engineering lab: 'Tests on Cement' can be added

- "19CE5002 - SURVEY CAMP" Course objectives may be increased to 5 (Similar with other subjects) EXP no 1 - Setting out work (Spread footing marking for residential



building) – This is to be done by "Total station"– EXP no 2 - Preparation of topographical map– This is to be done by "Total station"

- "19CE6181- CONSTRUCTION MANAGEMENT" **Tendering and contractual procedures** - Definition of tender and contract. Deposits – Earnest Money Deposit and Security Deposit – legal implications — Penalties and Arbitration may be added, UNIT V - Construction safety management replaced by "Construction safety and Management Information System"

- "19CE6181- Construction Management" CM to be PC (19CE6204) **Unit 1** Planning for materials, labour and equipment to be replaced by Resource Planning - Planning for materials, manpower, machinery, time and cost. **Unit V -** To be replaced as follows

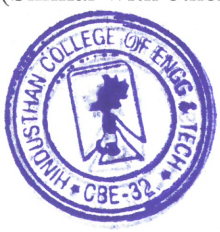
- Introduction of Project Management - Principles of Management, Objectives of Project Management, Stages of Project Management - Scope Management, Understanding the Project Construction, Scope of Work of the Project, Various Type of Structures, Preparation of Project Gist - Preparation of Scope of Work Pie Chart - Time Management & Resource Management, - Procurement & Cost Management – Quality Management – Risk Management

- "19CE6201- ANALYSIS OF INDETERMINATE STRUCTURES" Elaborate UNIT II and III by introducing sub contents, Use different Taxonomical verbs for course outcomes.Title to be changed as Structural Analysis II

- "19CE6202- DESIGN OF STEEL STRUCTURAL ELEMENTS" Elaborate UNIT I, IV and V by introducing sub contents, Use different Taxonomical verbs for course outcomes.Unit III - 'Design of Column Splices' can be added

- "19CE6203 - WASTEWATER ENGINEERING" Activated sludge process - Diffuser /Mechanical aeration - Extended aeration process may be shifter prior to Trickling Filter Correction Disposal methods - dilution

- "19CE6001- WATER AND WASTEWATER TESTING LAB" Course objectives may be increased to 5 (Similar with other subjects)



- "19CE6002- DESIGN AND DRAWING OF RC STRUCTURES" Use different Taxonomical verbs for course outcomes.

- "19CE6002- Design and Drawing of RC Structures" Design and Drawing of Solid Slab bridge to be included

- "19CE5302- TRAFFIC ENGINEERING" **Traffic management systems** - methods and techniques for traffic management - role of ITS in traffic management. may be added, If possible, **Road safety-** Definition, Objectives, Road safety demographics, Traffic regulations – basic principles, National Road Safety Policy, Motor Vehicle Act – 1988, Intersection safety, driving in night times, long journey, road safety at road works. May also be added

- "19CE5303- HOUSING PLANNING AND MANAGEMENT" Elaborate the UNIT IV and V by introducing sub contents, Update the references with the latest edition

- "19CE5304- CONSTRUCTION TECHNIQUES, EQUIPMENT AND SAFETY" Elaborate the UNIT IV and V by introducing sub contents, **Operating Construction Equipment** - Ownership cost, Depreciation, Operating cost, calculation methods; **Construction Equipment Maintenance**. May be added, Update the references with the latest edition

- "19CE5305- HYDROLOGY" Methods of artificial recharge - Introduction to Climate Change and its effects on Hydrological process. May be added, Update the references with the latest edition.

- "19CE6301- BUILDING SERVICES" Revisit the course outcomes, Update the references with the latest edition.

- "19CE6302- AIRPORTS, DOCKS AND HARBOUR ENGINEERING" **Harbours and Docks :** Definition of Terms - Harbours, Ports, Docks, Tides and Waves, Littoral Drift, Sounding, Area, Depth, Satellite Ports, Requirements and Classification of Harbours – Site Selection & Selection Investigation – Speed of water, Range of Tides, Waves and Tidal Currents, Anchoring Grounds, Geological Characteristics, Coastal Structures -



Breakwaters, Wharves- Dry and Wet Docks, Planning and Layouts, **Navigational aids and dredging:** Navigating - Mooring Accessories, Navigational Aids-Dredging.

- "19CE6302- AIRPORTS, DOCKS AND HARBOR ENGINEERING" **Unit II** - Sequence of construction. **Unit III** - Recent innovations in airport design to be included
- "19CE6303- SUBSURFACE INVESTIGATION AND FIELD TESTING" Revisit the course outcomes, Update the references with the latest edition
- "19CE6304 - GROUNDWATER ENGINEERING" **Control of Ground Water Pollution Hazards:** Evaluation of pollution hazard and water supply pollution hazards. Strategies for control of ground water pollution, **May be added**
- "19CE6305- PRINCIPLES OF ARCHITECTURE" Elaborate the UNIT I, II and V by
    - introducing sub contents
- "19CE6305- Principles of Architecture" Title to be changed as Architecture and Town Planning
- Semester V & VI- Following Skill Development course introduced for members approval
    - 19CE5302 - Traffic Engineering
- Semester V & VI- Following Employability course introduced for members approval
    - 19CE6303 - Subsurface Investigation and Field Testing
- Professional Elective I to Professional Elective V has been increased from 5 subjects to 6 subjects for members approval
    - 19CE5306 - Professional Ethics and Laws for Civil Engineers
    - 19CE6306 - Disaster Preparedness and Planning
    - 19CE7306 - Computer Aided Design of Structures
    - 19CE8306 - Construction Safety Practices
    - 19CE8312 - IoT for Smart City Planning
- The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.
    - Building Information Modeling using Autodesk AutoCAD 3D



- QGIS
- Project Portfolio Management using Oracle Primavera P6.
- Building Information Modeling Using Autodesk Revit Software
- Modeling, Analysis and Design of Elements using Bentley STAAD.Pro

General Comments by the BoS Members:

1. For every laboratory course syllabus reference has to be given as books or department manuals.
2. 'Identification and Working of Equipment' can be included as any experiment in Laboratory course.
3. Theory with lab component course can be limited with 5 experiments.
4. Standard Text and Reference books should be preferred for all subjects with recent editions.

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

For Regulations 2016:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabi of 2016 for the VII & VIII semester subjects of B.E Civil Engineering program for the students admitted during the academic year 2018 - 2019 and onwards was permitted to move on to Academic Council.

For Regulations 2019:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabus of Regulation 2019 for the I & II semester subjects were passed by the Science and Humanities, Computer Science and Engineering, Mechanical engineering and Electrical and Electronics Engineering permitted board and permitted to move on Academic Council by the BoS members of Civil Engineering for the students admitted during the academic year 2021-2022 and onwards.

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- The curriculum and syllabi of R2019 for the III & IV semester subjects of B.E Civil Engineering program for the students admitted during the academic year 2020 - 2021 and onwards was permitted to move on to Academic Council.
- Based on Regulation 2016, the revised curriculum and syllabi for V and VI semesters of R2019 were introduced for B.E Civil Engineering program for the students admitted in the academic year 2019-20 and onwards and the same were presented and discussed. It was permitted to move on to the Academic Council.
- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in R2019.
- Chairman conveyed that the suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with vote of thanks to the members by chairman at 4.30 p.m.

Chairman
Board of Studies
Chairman - BoS
CIVIL - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
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 ENGG & TECH * CBE-32 *

Hindusthan College of Engineering and Technology

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

Date: 14.07.2021

BOARD OF STUDIES MEETING

Name of the Department: Civil Engineering

The Seventh Board of Studies meeting of Civil Engineering to discuss the Curriculum & Syllabus of Regulation 2016 & 2019 for the academic year 2021 - 2022 was conducted on 14.07.2021 at 02.30 pm in the ONLINE mode through Google Meet.

(Meeting Link:https://meet.google.com/lookup/d54asfwiqr)

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 & Dean, 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, Krishnasamy Mudhaliar Street, Brooke Bond Road, R S Puram, Coimbatore	Industry Member

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

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. P. Subashree	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	Mr.R. Dhanapal	F/o. Mr. D. Varunkarthik (18103822)	Parent Member

- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the third Board of Studies meeting.
- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum and Development Cell (CDC) & Pre- Board of studies (Pre- BoS)/ Department Advisory Committee (DAC).
- The feedback received on the curriculum by the stakeholders was presented.
- Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during **12.02.2021.** Members of the BOS approved the same.

HINDUSTHAN COLLEGE OF ENGG & TECH • CBE-32.

Following are the Comments put forth by the Experts:

- In Semester I & II – Three Employability Enhancement Subjects (Career Guidance 1 & 2 + Entrepreneur & Innovation) added within the curriculum as Mandatory Course with Zero Credit
- In Semester III – Two Employability Enhancement Subjects (Career Guidance 3 & Leadership Management Skills) added within the curriculum as Mandatory Course with Zero Credit
- In Semester III – Two Employability Enhancement Subjects (Career Guidance 3 & Leadership Management Skills) added with in the curriculum as Mandatory Course with Zero Credit
- In Semester IV – Two Employability Enhancement Subjects (Career Guidance 4 & Ideation Skills) added with in the curriculum as Mandatory Course with Zero Credit
- In Semester V – Soft Skill and Design Thinking new subjects added with the weight age of each 1 Credit under Employability Enhancement Course – Total 2 Credit
- In Semester VI – Soft Skill and Intellectual Property Rights (IPR) new subjects added with the weight age of each 1 Credit under Employability Enhancement Course – Total 2 Credits
- As per the AICTE guideline, in Semester I, II, III & IV NCC one credit subject is added as Value Added Course with Extra Credit. Further, the students who enroll in HICET NCC and Air Wing are eligible to undergo this subject. The earned extra credits will be printed in the Consolidated Mark sheet as per the regulation.
- NCC course level 1 & Level 2 will be added in the open elective subject in the appropriate semester. Further, the students who have opted NCC subjects in Semester I, II, III & IV are eligible to undergo NCC Open Elective Subjects.
- The above mentioned NCC Courses will be offered to the students admitted from Academic Year 2021 - 22 onwards

The following resolutions were 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 syllabi of 2016 for the VII & VIII semester subjects of B.E Civil Engineering program for the students admitted during the academic year 2018 - 2019 and onwards were reviewed and permitted to move on to Academic Council.



- The curriculum and syllabus of Regulation 2019 for the I & II semester subjects were passed by the Science and Humanities, Computer Science and Engineering, Mechanical engineering and Electrical and Electronics Engineering permitted board and permitted to move on Academic Council by the BoS members of Civil Engineering for the students admitted during the academic year 2021 - 2022 and onwards.
- The curriculum and syllabi of Regulation 2019 for the III & IV semester subjects of B.E Civil Engineering program for the students admitted during the academic year 2020 - 2021 and onwards was permitted to move on to Academic Council.
- The curriculum and syllabi for V and VI semester subjects of R2019 were reviewed for the B.E Civil Engineering program for the students admitted in the academic year 2019-20 and onwards and permitted to move on to the Academic Council.
- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in 2019.
- 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 4.30 p.m.

Chairman

Board of Studies

Chairman - BoS
CIVIL - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
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HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

Hindusthan College of Engineering and Technology

(An Autonomous Institution, Approved by AICTE, New Delhi,
Accredited with 'A' Grade by NAAC & NBA, Affiliated to Anna University)
Valley Campus, Pollachi Highways, Coimbatore - 641 032.

Date: 10.07.2021

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

The meeting of the 8th Board of Studies in Department of Computer Science and Engineering undergraduate programme was conducted on 10th July 2021 at 10:00 am in the Online Mode (Google Meet: meet.google.com/gxa-mchc-afg).

The following members were present:

S. No.	Name of the Person	Department	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. Mobile: 9486939882 E-Mail id: thulasimani@gcetly.ac.in	University Nominee
3	**Dr Sudha Sadasivam G**	Professor Department of Computer Science and Engineering, PSG College of Technology, Coimbatore. Mobile: 9843112267 E-Mail id: sudhasadhasivam@yahoo.com	Subject Expert
4	**Dr Surendiran B**	Assistant Professor Dept of Computer Science and Engineering, National Institute of Technology, Puducherry. Mobile: 9942761363 E-Mail id: surendiran@gmail.com, surendiran@nitpy.ac.in	Subject Expert
5	**Mr Rajesh Kumar H**	Founder BuzzTech Training Institute, Coimbatore. Mobile: 9840123422 E-Mail id: rajesh.karthi79@gmail.com	Industry Expert
6	**Ms Vidhya Sri T**	Director - Institute Relations and HR International Business Machines (IBM) Corporation, Coimbatore Mobile: 9524239135 E-Mail id: prgm@adroittechnologies.in	Industry Expert

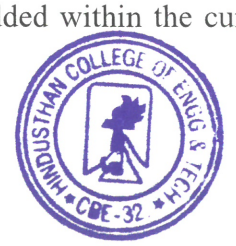
7	**Mr Manuraj Rajamanikandan**	Non-Functional Consultant Cognizant, Kochi, Kerala. Mobile: 7845162390 E-Mail id: manuraj.rajamanikandan@cognizant.com	Alumni
8	**Dr Prakash P**	Associate Professor School of Computer Science and Engineering, VIT Chennai. Mobile: 9884814492 E-Mail id: npprakash@gmail.com	Member from QIS rated Institution
9	**Dr Jameer Basha A**	Professor & HOD Department of Computer Science and Engineering, Hindusthan Institute of Technology. Mobile: 9443403786 E-Mail id: jameer@hit.edu.in	Member from sister concern
10	**Dr Sakthi G**	Assistant Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Member
11	**Dr Vidhya R**	Assistant Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Member
12	**Mr Mahesh D**	Assistant Professor Department of Computer Science and Engineering Hindusthan College of Engineering and Technology	Member
13	**Mr Jayaraj R**	Assistant Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Member
14	**Ms Ramya Devi M**	Assistant Professor Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Member
15	**Mr Suryaprakesh A**	18104140 - IV BE CSE C	Student Member
16	**Mr Sriram S**	19104145 - III BE CSE C	Student Member
17	**Mr Alagu Murugan**	F/o. Mr. A. Suryaprakesh IV BE CSE C	Parent Member
18	**Mr Sivanandhan P**	F/o. Mr. Sriram III BE CSE C	Parent Member

HINDUSTHAN COLLEGE OF ENGG & TECH • CBE-32 •

- The Chairman of the BoS, **Dr SHANKAR S** welcomed all the members for the Eighth Board of Studies meeting and thanked the Management, Chief Executive Officer, and Dean for giving permission to conduct this meeting. The chairman introduced the BoS members.
- The Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during 30.01.2021 was approved.
- The feedback received on curriculum by the stakeholders was presented.
- The Chairman also gave an outline of the changes to be made in the curriculum given by the Pre- Board of Studies (Pre- BoS)/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.

  Also, the following points were discussed.

1. For **2019-2023** batch students, the following courses have been introduced
   - In Semester V – 19HE5071 Soft Skill - I and 19HE5072 Design Thinking new subjects added with the weightage of each 1 Credit under Employability Enhancement Course – Total 2 Credits
   - In Semester VI – 19HE6071 Soft Skill -II and 19HE6072 Intellectual Property Rights (IPR) new subjects added with the weightage of Each 1 Credit under Employability Enhancement Course – Total 2 Credits
   - Also the credit for Project in VIII semester has been reduced from 12 to 8.
2. For **2020-2024** batch students, the following courses have been introduced
   - In Semester I & II – Three Employability Enhancement Subjects (19HE1072 Career Guidance - Level I, 19HE1073 Entrepreneur & Innovation and 19HE2072 Career Guidance - Level II) added within the curriculum as Mandatory Course with Zero Credit
   - In Semester III – Two Employability Enhancement Subjects (19HE3072 Career Guidance - Level III and 19HE3073 Leadership Management Skills) added within the curriculum as Mandatory Course with Zero Credit
   - In Semester IV – Two Employability Enhancement Subjects (19HE4072 Career Guidance – Level IV and 19HE4073 Ideation Skills) added within the curriculum as Mandatory Course with Zero Credit



- In Semester V – 19HE5071 Soft Skill - I and 19HE5072 Design Thinking new subjects added with the weightage of each 1 Credit under Employability Enhancement Course – Total 2 Credits
- In Semester VI – 19HE6071 Soft Skill -II and 19HE6072 Intellectual Property Rights (IPR) new subjects added with the weightage of Each 1 Credit under Employability Enhancement Course – Total 2 Credits
- Also the credit for Project in VIII semester has been reduced from 12 to 8.

3. For **2021-2025** batch students, the following courses have been introduced
   - As per the AICTE guideline, in Semester I, II, III & IV NCC one credit subject is added as Value Added Course with Extra Credit. Further, the students who enroll in HiCET NCC and Air Wing are eligible to undergo this subject. The earned extra credits will be printed in the Consolidated Mark sheet as per the regulation.
   - NCC course level 1 & Level 2 will be added in the open elective subject in the appropriate semester. Further, the students who have opted NCC subjects in Semester I, II, and III & IV are eligible to undergo NCC Open Elective Subjects.
   - The above mentioned NCC Courses will be offered to the students admitted from Academic Year 2021 - 2022 onwards.
4. Skill based subjects, EEC (Employability Enhancement Course) and Entrepreneur & Innovation subjects are introduced.

   Skill Development courses introduced for member's approval.
   - 19HE3073 - Leadership Management Skills
   - 19HE4072- Career Guidance – Level IV Personality, Aptitude and Career Development
   - 19HE1072 - Career Guidance – Level I Personality, Aptitude and Career Development

   Employability courses introduced for member's approval.
   - 19HE5071 - Soft Skill - I
   - 19HE4073 - Ideation Skills

   Entrepreneurship courses introduced for member's approval.
   - 19HE1073 - Entrepreneurship & Innovation

The following Discussion on Curriculum and Syllabus took place:

- Anna University Nominee **Dr Thulasimani K** suggested grouping the laboratory experiments based on the usual list as per Anna University syllabi.
- Academic Expert **Dr Sudha Sadasivam G** suggested removing the sample input and output and test cases in Java programming laboratory.



- Academic Expert **Dr Surendiran B** suggested changing the name of the EEC or ICC course since both the courses were given the same name "Design Thinking".
- Chairman said ICC courses name will be changed from Design Thinking to "Introduction to Design Thinking" and "Design Thinking Laboratory" to "Introduction to Design Thinking Laboratory"
- Academic Expert **Dr Jameer Basha A** suggested to include mini project in Database Management Systems Laboratory.
- Industry Expert **Mr Rajesh Kumar H** suggested to include more number of scenario based experiments in Database Management Systems Laboratory.
- Industry Expert **Ms Vidhya Sri T** suggested to change the Data Structures Laboratory experiments by providing real time scenario based questions to make students understand which data structure to be used where.
- Academic Expert **Dr Prakash P** appreciated Head of the Department for the hard work which was put forth for conducting BOS meeting. He also appreciated the inclusion of certain scenario based laboratory courses as well as Employability Enhancement courses.
- Alumni **Mr Manuraj** appreciated the effort the department has taken towards building a curriculum that makes students industry-ready also balanced one regard to theoretical and practical knowledge. He said, still there is some improvement area that should be automatically evolving once we start with the existing one as there is equal importance of shaping it when it implements, where professors and students can find more to add. The most important point is promoting self-learning among the students and creates a habit of the same. He also mentioned to consider the below topics in the next update:
    1. Kotlin Language
    2. Cyber security
    3. Any Cloud Platforms hands-on

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

- In almost all the courses, changes have been made as per the Local, Regional, National and Global needs.
- The syllabi of I & II semester of the UG Programmes for the students admitted during the academic year 2021 - 2022 and onwards was passed and permitted to move on Academic Council.
- The syllabi of III & IV semester of the UG Programmes for the students admitted during the academic year 2020 - 2021 and onwards was passed and permitted to move on Academic Council.

HINDUSTHAN COLLEGE OF ENGG & TECH • CBE-32 •

- The syllabi of V & VI semester of the UG Programmes for the students admitted during the academic year 2019 - 2020 and onwards was passed and permitted to move on Academic Council.
- The syllabi of VII & VIII semester of the UG Programmes for the students admitted during the academic year 2018 - 2019 and onwards was passed and permitted to move on Academic Council.
- The updation of Course Outcomes (COs) of each courses were discussed and approved.
- Percentage of Programmes where syllabus revision was carried out in BoS:
    a) Semester: I, Course Code: 21CS1151, Course Name: Python Programming and Practices (Theory with Lab component course), Credits: 3 (Percentage of revision was done only to the practical experiments – 50%)
    b) Semester: II, Course Code: 21CS2152, Course Name: Essentials of C and C++ Programming (Theory with Lab component course), Credits: 3 (Percentage of revision was done only to the practical experiments – 50%)
    c) Semester: III, Course Code: 19CS3001R, Course Name: Data Structures Laboratory, Credits: 1.5 (Percentage of revision – 100%)
    d) Semester: III, Course Code: 19CS3002R, Course Name: Database Management Systems Laboratory, Credits: 1.5 (Percentage of revision – 100%)
    e) Semester: IV, Course Code: 19CS4001R, Course Name: Java Programming Laboratory, Credits: 1.5 (Percentage of revision – 100%)
- ✓ The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.
    - Wipro Training
    - Fundamentals of Database using SQL Network Security
    - Learnathon
    - Advanced Java Programming
    - spring board

7. Introduce Course:

- **For 19-23 batch students**

S. No.	Semester	Course Code	Course Title	employability/ entrepreneurship/ skill development
1	V	19HE5071	Soft Skill-I	skill development
2	V	19HE5072	Design Thinking	employability
3	VI	19HE6071	Soft Skill-II	skill development
4	VI	19HE6072	Intellectual Property Rights (IPR)	entrepreneurship

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- **For 20-24 batch students**

S. No.	Semester	Course Code	Course Title	employability/ entrepreneurship/ skill development
1	I	19HE1072	Career Guidance – Level I Personality, Aptitude and Career Development	skill development
2	I	19HE1073	Entrepreneurship & Innovation	entrepreneurship
3	II	19HE2072	Career Guidance – Level II Personality, Aptitude and Career Development	skill development
4	III	19HE3072	Career Guidance – Level III Personality, Aptitude and Career Development	skill development
5	III	19HE3073	Leadership Management Skills	skill development
6	IV	19HE4072	Career Guidance – Level IV Personality, Aptitude and Career Development	skill development
7	IV	19HE4073	Ideation Skills	Employability

Chairman thanked all the members for spending their valuable time in giving suggestions for all the courses. The meeting came to an end at 11:00 am with vote of thanks.

Chairman

Board of Studies

Chairman - BoS
CSE - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
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 ENGG & TECH CBE-32

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
HICET

Hindusthan College of Engineering and Technology

(An Autonomous Institution, Affiliated to Anna University, Chennai
Approved by AICTE, New Delhi & Accredited by NAAC with 'A' Grade)
Valley Campus, Pollachi Highways, Coimbatore, Tamil Nadu.

TÜVRheinland CERTIFIED

Date: 24.07.2021

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Electrical and Electronics Engineering**

The Sixth Board of Studies meeting of Regulation 2016 & 2019 for the academic year 2021-2022 was conducted on 24.07.2021 at 11.30 AM in through online mode,

(Meeting Link: https://meet.google.com/fwz-qtpd-gdn)

The following members were present:

S. NO.	NAME OF THE PERSON	DEPARTMENT	POSITION
1.	Dr. N.P. Ananthamoorthy	Professor & Head, Department of Electrical and Electronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641 032.	Chairman
2.	Dr.T.Aruldoss Albert Victoire	Associate Professor and Head i/c, Department of Electrical and Electronics Engineering, Anna University, Regional Campus Coimbatore, Maruthamalai Main Road , Coimbatore -641046.	University Nominee
3.	Dr.K.Baskaran	Professor / Head of the Department, Department of Electrical & Electronics Engineering, Alaggapa Chettiar college of Engineering and Technology, Karaikudi – 630 003	Academic Expert
4.	Dr. K. Ranjith kumar	Professor, Department of Electrical & Electronics Engineering , Government College of Technology, Coimbatore.	Academic Expert
5.	Dr. V. Karthikeyan	Assistant Professor Dept. of Electrical Engineering, National Institute of Technology, Calicut, Kerala-673 601.	Member from QS Rated Institution
6.	Mr.Pradeep	2/18 East Thottam, Kurumbapalayam post, Pollachi-642 002.	Alumni Member
7.	Mr. Rajesh kumar K	Technical manager, Marzoli Textile Machinery Manufacturing Pvt Ltd, Coimbatore - 641 004	Representative from Industry

HINDUSTHAN COLLEGE OF ENGG. CBE-32

8.	Dr. V Suresh Babu	Associate Professor, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, Coimbatore.	Member from HiTech
9.	Dr. K. Sekar	Associate Professor, Department of Electrical and Electronics Engineering, Hindusthan College of Engineering and Technology. Coimbatore.	Member
10.	Dr. R. RajeshKanna	Associate Professor, Department of Electrical and Electronics Engineering, Hindusthan College of Engineering and Technology. Coimbatore.	Member
11.	Mr. M. P. Viswanathan	Assistant Professor, Department of Electrical and Electronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore.	Member
12.	Mr. G. Muthuram	Assistant Professor, Department of Electrical and Electronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore.	Member
13.	Dr.K.Mathan	Associate Professor, Department of Electrical and Electronics Engineering, Hindusthan College of Engineering and Technology. Coimbatore.	Member
14.	Mrs.T.Manjula	Assistant Professor, Department of Electrical and Electronics Engineering, Coimbatore.	Member
15.	Mr Kannan.K	32/8,Brindavanam Avenue, Opposite to Gupta Marbles, Kenikarai, Ramanathapuram- 623504.	Parent Member
16.	Mr Ariya.S.M	III EEE Hindusthan College of Engineering and Technology, Coimbatore – 641 032.	Student Member
17.	Mr Kirubakaran.K	IV EEE A Hindusthan College of Engineering and Technology, Coimbatore – 641 032.	Student Member
18.	P.Mythili	II ME-AE Hindusthan College of Engineering and Technology, Coimbatore – 641 032.	Student Member

- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the third Board of Studies meeting.

- Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting.
- Chairman presented the suggestions given by the experts and the action taken report of the previous BoS meeting held on 04.09.2020. Members of the BoS approved the same.
- The feedback received on curriculum by stakeholders was presented by the Chairman-BoS
- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell & 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 Regulation 2019 with amendments to the syllabus, which meets on higher order thinking levels, based on the recommendations from stakeholder.

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

1. In fifth semester "19EE5203 Microcontrollers and its Applications" Basic concept of Raspberry pi can be included in unit V and subject title to be changed as Microprocessors and Microcontrollers.
2. In sixth semester 19EE6251 'Embedded Systems" –Study of traffic light controller experiment to be renamed as Design of Traffic light control and Text books to be changed.
3. In Professional Elective II 19EE6305 "Principles of Robotics" history of robotics to be added in the syllabus.
4. Chairman conveyed about the Consideration of MOOC courses like NPTEL/Coursera / EdX etc as Additional credit courses so that students can get wide exposure on knowledge sharing.
5. The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.

    - Hands on Training on Arduino
    - Core Training on VLSI, Embedded and IoT
    - Lab VIEW Programming – CORE I and II
    - NASSCOM
    - Learnathon

HINDUSTHAN COLLEGE OF ENGG & TECH * CBE-32 *

- The Regulation 2016, Curriculum and Syllabi of semester VII & VIII for the students admitted in the academic year 2018-2019 and onwards is forwarded by the Board of Studies to the Standing committee/Academic Council and recommends for approval.
- Employability courses are introduced for members' approval
  - 19EE6301 - Industrial Automation
  - 19EE6304 - Electrical Estimation and Costing
- Skill Development courses are introduced for members' approval
  - 19EE6302 - Electric Vehicle Mechanics and Control
  - 19EE6305 -Principles of Robotics

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

For Regulations 2016:

- In almost all the courses, changes have been done as per the current needs.
- The curriculum and syllabi of 2016 for the VII & VIII semester subjects of B.E Electrical and Electronics Engineering program for the students admitted during the academic year 2018 - 2019 and onwards was permitted to move on to Academic Council.
- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in 2016.
- Chairman conveyed that the Suggestions given by the Previous Board of Studies members are ratified and resolved.

For Regulations 2019:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabus of Regulation 2019 with amendments for the I & II semester subjects were passed by the Science and Humanities, Computer Science and Engineering and Mechanical Engineering boards are permitted to move on Academic Council by the BoS members of Electrical and Electronics Engineering for the students admitted during the academic year 2021-2022 and onwards.
- The curriculum and syllabi of 2019 with amendments for the III & IV semester subjects of B.E Electrical and Electronics Engineering program for the students admitted during the academic year 2020 - 2021 and onwards was permitted to move on to Academic Council.
- The curriculum and syllabi for V and VI semesters of Regulation 2019 with amendments were introduced for B.E Electrical and Electronics Engineering program for the students admitted in the academic year 2019-20 and onwards and the same were presented and discussed. It was permitted to move on to the Academic Council.



- 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 01.00 P.M.

Chairman
Board of Studies

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
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 ENGG & TECH ★ CBE-32 ★

Hindusthan College of Engineering and Technology

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

Date: 30.01.2021

MINUTES OF BOS MEETING

Name of the Department: Electronics and Communication Engineering

The Seventh Board of Studies meeting for BE Electronics and Communication Engineering for the academic year 2021-22 for Regulation 2016 & Regulation 2019 was conducted on 30.01.2021 at 2.30 pm in Google meet (https://meet.google.com/xdq-yyjg-fah).

The following members were present.

S.No	Name of the Person	Department	Position
1.	Dr.P.Rajeswari	Professor Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology	Chairperson
2.	Dr.S.Subha Rani,	Professor, Department of Electronics and Communication Engineering, PSG College of Technology, Coimbatore.	University Nominee
3.	Dr. C.Vasanthanayaki,	Professor and Head, Department of Electronics and Communication Engineering, Government College of Engineering, Salem	Subject Expert
4.	Dr. S.Uma Maheswari,	Professor, Department of Electronics and Communication Engineering, Coimbatore Institute of Technology, Coimbatore.	Subject Expert
5.	Mr.M.Vijayakumar,	Head, Facility Development and Automation, Roots Industries India Limited, Coimbatore.	Industry Expert
6.	Dr.R.Michaelraj Kingston,	Associate Professor, Department of Electronics and Communication Engineering, Sri Eshwar College of Engineering, Coimbatore.	Alumni

7.	Dr.Jaisingh Thangaraj	Assistant Professor of Electronics Engineering, Indian Institute of Technology (ISM) , Dhanbad	Member from QIS rated Institution
8.	Dr.B.Paulchamy,	Professor, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology	Member from sister concern
9.	Dr.R.Sabitha	Professor, Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology	Member
10.	Dr. P.Vijayalakshmi	Professor, Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology	Member
11.	Mr.B.Veerasamy	Associate Professor, Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology	Member
12.	Dr.P.F.Khaleelur Rahiman	Assistant Professor, Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology	Member
13.	Dr.P.Geetha	Assistant Professor, Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology	Autonomous Coordinator
14.	Ms.Devadharshini	IV ECE B, Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology	Student Member
15.	Ms.A.Mizpah Hephzibah	III ECE B, Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology	Student Member
16.	Mr.Naveen R	II ECE B, Department of Electronics and Communication 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 third 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 29.08.2020. Members of the BOS approved the same.

- The feedback received on 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 Regulation 2019 with amendments, which meets on higher order thinking levels, based on the recommendations from stakeholder.

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

1. Subject Expert (Dr. C.Vasanthanayaki) suggested that, in 5th Sem, "19EC5201 Microprocessor and Microcontroller , ARM processor is to be included as a single unit

2. Subject Expert (Dr. S.Uma Maheswari) suggested that, In 5th Sem, "19EC5202 Transmission lines and Wave Guides", Unit IV is elaborate so it should be split into unit IV and V.

3. Member from QIS rated Institution (Dr.Jaisingh Thangaraj) suggested that, in 5th Sem, "19EC5203 VLSI Design" Topic subsystem design is to be included replacing MESFET

4. University Nominee (Dr.S.Subha Rani) suggested that, in 5th Sem, "19EC5252 Digital Signal Processing"(Oppenheim and Schaffer is to be included as text book

5. The Industry Nominee, (Mr.M.Vijayakumar), suggested that, Raspberry Pi is to be included instead of ARDUINO.

6. Chairman highlighted the inclusion of employability enhancement courses in the curriculum.

- The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.
  - Core Training Program on VLSI, Embedded and IoT

HINDUSTHAN COLLEGE OF ENGG & TECH

- Learnathon
- Wipro TalentNext Training
- Arduino Programming
- Basics of Circuit Design using Multisim

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

For Regulations 2016:

- In almost all the courses, changes have been made as per the Local, Regional, National and Global needs.
- The curriculum and syllabi of 2016 for the VII & VIII semester subjects of B.E Electronics and Communication Engineering program for the students admitted during the academic year 2018 - 2019 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.

For Regulations 2019:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabi of Regulation 2019 with amendments for the I & II semester subjects were passed by the Science and Humanities, Computer Science and Engineering, and Mechanical Engineering boards are permitted to move on Academic Council by the BoS members of Electronics and Communication Engineering for the students admitted during the academic year 2021-2022 and onwards.
- The curriculum and syllabi of 2019 with amendments of III and IV semesters Mathematics subjects of Regulation 2019 of with amendments were introduced by Science and Humanities board and accepted by B.E Electronics and Communication Engineering program for the students admitted in the academic year 2020-21 and onwards
- The curriculum and syllabi of 2019 with amendments for the III & IV semester subjects of B.E Electronics and Communication Engineering program for the students admitted during the academic year 2020 - 2021 and onwards was permitted to move on to Academic Council.



- Based on Anna University Curriculum, the revised curriculum and syllabi for V and VI semesters of Regulation 2019 with amendments were introduced for B.E Electronics and Communication Engineering program for the students admitted in the academic year 2019-20 and onwards and the same were presented and discussed. It was permitted to move on to Academic Council.

- All the courses in the curriculum are framed based on the employability, skill development and entrepreneurship context to meet the industry needs.

- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated.

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

The meeting ended with vote of thanks to the members by the Chairman at 04.30 P.M.

Chairman

Board of Studies

Chairman - BoS
ECE - HiCET

Enclose:

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Copy:

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Othakalmandapam Post, Coimbatore – 641 032

Academic Year : 2021-2022

Board of Studies Meeting

The meeting of the Board of Studies in the **Department of Electronics and Communication Engineering** for BE Electronics and Communication Engineering Undergraduate programme was conducted on 09 July 2021 at 10.00 am in the Online Mode (Google Meet) (https://meet.google.com/hng-pzen-ovv).

The following members were present:

S.No	Name of the Person	Department	Position
1.	Dr.P.Rajeswari	Professor, Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology	Chairperson
2.	Dr.S.J.Thiruvengadam	Professor and Dean (Academics), Thiagarajar College of Engineering, Madurai 625 015	University Nominee
3.	Dr.C.Shanthi .	Professor & Head of the Department, Govt. College of Technology, Coimbatore-641 013	Subject Expert
4.	Dr.Krishaveni V	Professor (CAS) and Head in charge, PSG College of Technology, Coimbatore-641 004.	Subject Expert
5.	Ms.Jebaselvi Johnson	CEO PrimeSoc Technologies, Chennai.	Industry Expert
6.	Ms.T.Vidhya Sri	Director Institute Relations and HR, Adroit technologies Innovation Solutions (IBM Partner), Coimbatore.	IBM Partner
7.	Dr.R.Michaelraj Kingston	Associate Professor, Department of Electronics and Communication Engineering, Sri Eshwar College of Engineering, Coimbatore.	Alumni

8.	Dr.M.Pachiyaannan	Associate Professor of Electronics Engineering, Vignan's foundation for Science, Technology and Research, Guntur, AndraPradesh	Member from QIS rated Institution
9.	Dr.B.Paulchamy	Professor, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology	Member from sister concern
10.	Dr.R.Sabitha	Professor, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology	Member
11.	Dr. P.Vijayalakshmi	Professor, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology	Member
12.	Mr.B.Veerasamy	Associate Professor, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology	Member
13.	Dr.P.F.Khaleelur Rahiman	Asst Professor, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology	Member
14.	Dr.P.Geetha	Asst Professor, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology	Autonomous Coordinator
15.	Ms.A.Mizpah Hephzibah	IV ECE B, Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology	Student Member
16.	Mr.Naveen R	III ECE B, Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology	Student Member
17.	Anumol A A	II ECE, Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology	Student Member

*Due to her preoccupied schedule, Ms.Jebaselvi Johnson, CEO, PrimeSoc Technologies, could not attend the meeting.



The Chairperson of the BoS, Dr.P.Rajeswari welcomed all the dignitaries for the meeting and introduced the BoS members.

Followed by, the Chairperson presented the suggestions given by the experts in the previous BoS meeting held on 30.01.2021 and approved the action taken report of the previous BoS meeting.

The feedback received on curriculum by the stakeholders was presented.

The Chairperson also gave an outline of the changes to be made in the curriculum given by the Pre- Board of Studies (Pre- BoS)/ 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.

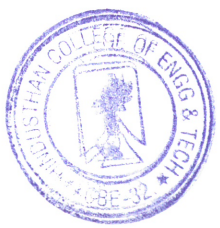
Also, the following points were discussed.

1. For **2019-23** batch students, the following courses have been introduced

- In Semester V – Soft Skill and Design Thinking new subjects added with the weightage of each 1 Credit under Employability Enhancement Course – Total 2 Credits
- In Semester VI – Soft Skill and Intellectual Property Rights (IPR) new subjects added with the weightage of Each 1 Credit under Employability Enhancement Course – Total 2 Credits
- Also the credit for Project in VIII sem has been reduced from 12 to 8.

2.For **2020-24** batch students, the following courses have been introduced

- In Semester III – Two Employability Enhancement Subjects (19HE3072 Career Guidance - Level III and 19HE3073 Leadership Management Skills) added within the curriculum as Mandatory Course with Zero Credit
- In Semester IV – Two Employability Enhancement Subjects (19HE4072 Career Guidance – Level IV and 19HE4073 Ideation Skills) added within the curriculum as Mandatory Course with Zero Credit
- In Semester V – 19HE5071 Soft Skill - I and 19HE5072 Design Thinking new subjects added with the weightage of each 1 Credit under Employability Enhancement Course – Total 2 Credits



- In Semester VI – 19HE6071 Soft Skill -II and 19HE6072 Intellectual Property Rights (IPR) new subjects added with the weightage of Each 1 Credit under Employability Enhancement Course – Total 2 Credits
- Also the credit for Project in VIII semester has been reduced from 12 to 8.

3. For **2021-25** batch students, the following courses have been introduced

- As per the AICTE guideline, in Semester I, II, III & IV NCC one credit subject is added as Value Added Course with Extra Credit. Further, the students who enroll in HiCET NCC and Air Wing are eligible to undergo this subject. The earned extra credits will be printed in the Consolidated Mark sheet as per the regulation.
- NCC course level 1 & Level 2 will be added in the open elective subject in the appropriate semester. Further, the students who have opted NCC subjects in Semester I, II, III & IV are eligible to undergo NCC Open Elective Subjects.
- The above mentioned NCC Courses will be offered to the students admitted from Academic Year 2021 - 2022 onwards.

4. Chairman highlighted the inclusion of employability enhancement courses in the curriculum

The following skill development courses introduced for members' approval.

1. 19EC6181 - Principles of Management
2. 19EC6001 - Digital Communications Lab

The following employability courses introduced for members' approval.

1. 19EC6201 - Digital Communications
2. 19EC6251 - Embedded systems and IoT

Department specific Board of Studies Discussion / Suggestions:

Subjects reviewed

S.No	Course code	Course name
1.	19EC3201	Digital Electronics
2.	19EC3202	Signals and Systems
3.	19EC3203	Electronic Circuits
4.	19EC3001	Electronic circuits lab
5.	19EC3002	Digital Electronics Lab
6.	19EC4201	Electro Magnetic Fields and waves



7.	19EC4202	Analog Communication
8.	19EC4203	Linear Integrated Circuits
9.	19EC4251	Control Systems
10.	19EC4001	Linear Integrated Circuits Lab
11.	19EC4002	Analog communication Lab
12.	19EC5201	Microprocessor and Microcontroller
13.	19EC5202	Transmission lines and Wave Guides
14.	19EC5203	VLSI Design
15.	19EC5251	Data Communication and Networks
16.	19EC5252	Digital Signal Processing
17.	19EC5001	VLSI Design Lab
18.	19EC5002	Microprocessors and Microcontrollers Lab
19.	19EC6181	Principles of Management
20.	19EC6201	Digital Communication
21.	19EC6203	Antenna and Wave Propagation
22.	19EC6251	Embedded Systems and IOT
23.	19EC6001	Digital Communication Lab
24.	19EC6701	Internship
25.	19EC5301	Measurements and Instrumentation
26.	19EC5302	PCB Design
27.	19EC5303	RF System Design
28.	19EC5304	Network Security
29.	19EC5181	Total Quality Management
30.	19EC6301	Medical Electronics
31.	19EC6302	Industrial Automation
32.	19EC6303	Mobile Communication
33.	19EC6304	High Speed Networks
34.	19EC6182	E-Commerce Technology

Suggestions given for the reviewed subjects

S.No	Course Code	Course Name	Remarks	Modification
1.	19EC3201	Digital Electronics	Verilog should be included.	Already included in lab course
2.	19EC3203	Electronic Circuits	Some units are compressed and some are expanded.	Changes incorporated
3.	19EC3001	Electronic circuits lab	Aim and inference to be clearly given for all experiments	Changes incorporated
4.	19EC4201	Electro Magnetic Fields and waves	In 5th unit EM waveguides to be replaced by uniform plane waves.	Changes incorporated
			I and II unit to be moved to physics	Suggestions submitted to S&H dept.

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5.	19EC4202	Analog Communication	Transmitter and Receiver can be combined as single unit. PAM,PPM and PWM included in V unit	Changes incorporated
6.	19EC5252	Digital Signal Processing	Experiment changes suggested .	Changes incorporated
7.	19EC6201	Digital Communication	4th unit can be revamped.	Changes incorporated

Percentage of Programmes where syllabus revision was carried out in BoS

S.No	Semester	New Course Code	Course Name	Credit	Percentage of Revision
1.	III	19EC3203R	Electronic Circuits	3	2%
2.	IV	19EC4201R	Electro Magnetic Fields and waves	3	20%
3.	IV	19EC4202R	Analog Communication	4	20%
4.	V	19EC5252	Digital Signal Processing	3	5%
5.	VI	19EC6201	Digital Communication	3	20%

Department specific Board of Studies resolutions/Common Suggestions:

S.No	Remarks
1.	Discrete mathematics can be included in I or II year which will be helpful for AI and ML.
2.	Transforms can be replaced by Discrete mathematics in III semester maths course
3.	Suggestions were given to include soft skills and non credit mandatory course.

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

1. In almost all the courses, changes have been made as per the Local, Regional, National and Global needs.
2. The syllabi of I & II semester of the UG Programmes for the students admitted during the academic year 2021 - 2022 and onwards was passed and permitted to move on Academic Council.
3. The syllabi of III & IV semester of the UG Programmes for the students admitted during the academic year 2020 - 2021 and onwards was passed and permitted to move on Academic Council.



4. The syllabi of V & VI semester of the UG Programmes for the students admitted during the academic year 2019 - 2020 and onwards was passed and permitted to move on Academic Council.
5. The syllabi of VII & VIII semester of the UG Programmes for the students admitted during the academic year 2018 - 2019 and onwards was passed and permitted to move on Academic Council.
6. The updation of **Course Outcomes (COs)** of each course were discussed and approved.

The meeting came to an end with a vote of thanks to the members by Chairman at 1.30 pm

Chairman

Board of Studies

Chairman - BoS
ECE - HiCET

Enclose:

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4. All the Members of BoS
5. File

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

Date: 08.02.2021

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: Electronics and Instrumentation Engineering

The Sixth Board of Studies meeting of Regulation 2016 & 2019 for the academic year 2021-22 was conducted on 06.02.2021 (Saturday) at 10.00 am in ONLINE mode through Google Meet. (Meeting Link: http://meet.google.com/rtg-rigq-efb)

The following members were present:

S.No	Name of the Person	Department	Position
1	Dr.B.Anand	Professor / Head, Department of Electronics and Instrumentation Engineering, Hindusthan College of Engineering and Technology.	BoS Chairman
2	Dr.T.Aruldoss Albert Victoire,	Associate Professor, Department of Electrical and Electronics Engineering, Anna University Regional Campus-Coimbatore	University Nominee
3	Dr. K. Srinivasan	Professor & Head, Department of EIE, Sri Ramakrishna Engineering College, Coimbatore.	Subject Expert 1
4	Dr.V.Dinesh Kumar	Associate Professor, Department of EIE, Kumaraguru College of Technology, Coimbatore.	Subject Expert 2
5	Mr.J.Senthil Prakash	Technical Head, Spark Drives & Automation, Coimbatore.	Representative from Industry
6	Dr.P.Karuppanan,	Associate Professor, Department of Electronics and Communication Engineering, Motilal Nehru National Institute of Technology, Allahabad, Uttar Pradesh – 211004.	Member from QS Rated Institution

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

7	Dr.B.Paulchamy,	Professor & Head, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, Coimbatore.	Member from Sister Concern (HiTech)
8	Dr. R.MadhuSudhanan	Associate Professor, Department of Electronics and Instrumentation Engineering, Hindusthan College of Engineering and Technology.	Member
9	Mr.R.Vinothkumar Assistant Professor	Assistant Professor, Department of Electronics and Instrumentation Engineering, Hindusthan College of Engineering and Technology.	Member
10	Mr.D.Deivasigamani Assistant Professor	Assistant Professor, Department of Electronics and Instrumentation Engineering, Hindusthan College of Engineering and Technology.	Member
11	Mrs.P.Sakthipriya Assistant Professor	Assistant Professor, Department of Electronics and Instrumentation Engineering, Hindusthan College of Engineering and Technology.	Member
12	Mr.T.ArulPastin,	Engineer (Maintenance), Madras Fertilizers Ltd., Manali, Chennai – 600068.	AlumniMember
13	Mrs.R.M.Alagu,	51 A, Thoppu Street, Kollidam - 609102	Parent Member
14	Mr.K.Radhakrishnan,	2/832, 1st North Street, Mahalakshmi Nagar, Tirupur Road, Palladam - 641662	Parent Member
15	Mr. B.Chandran	IV Electronics and Instrumentation Engineering,	Student Member
16	Mr. T.R.Raswanth	III Electronics and Instrumentation Engineering,	Student Member
17	Ms.N.Sornalatha	II Electronics and Instrumentation Engineering,	Student Member

The following member could not attend the meeting due to other official engagements.

1. Mr.K.Radhakrishnan (Parent Member)

- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the third 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 **13.03.2020** was approved.
- Chairman also gave an outline of the changes to be made in the curriculum given by the Curriculum Development Cell & 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 feedback received on curriculum by the stakeholders was presented.

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

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

Recommendations by BoS members (Subject Related)

1. In "19EI5201- Industrial Instrumentation– II", 20% syllabus change has been made based on the feedback of stakeholders.
2. In "19I5202- Control Systems", 20% syllabus revision made with relevant topics.
3. In "19EI5204- Analytical Instrumentation", 20% syllabus revision made with relevant topics.
4. In "19EI5251- Programmable Logic Controllers and SCADA", 20% syllabus change carried out based on the feedback from stakeholders.
5. In "19EI5001- Industrial Instrumentation Laboratory", 30% syllabus revision made with relevant topics.
6. In "19EI5002- Microprocessors and Microcontrollers Laboratory", 30% syllabus revision has been done.
7. In "19EI6181- Industrial Safety Management", 20% syllabus revised based on feedback from experts.
8. In "19EI6201- Process Control", 25% syllabus change has been made based on the feedback of stakeholders.
9. In "19EI6251- Embedded Systems", 20% syllabus revision made with relevant topics.
10. In "19EI6001- Process Control Laboratory", 20% syllabus change has been made based on the feedback of stakeholders.
11. In "19EI6002- Virtual Instrumentation Laboratory", 20% syllabus revision made with relevant topics.
12. In "19EI5301- Power Plant Instrumentation", 30% syllabus revision has been undertaken.
13. In "19EI5302- Communication Theory", 25% syllabus revision made with relevant topics.
14. In "19EI6301- VLSI Design", 20% syllabus revision has been undertaken.
15. In "19EI6302- Micro Electro Mechanical Systems", 25% syllabus revision made with relevant topics.
16. In "19EI6303- Industrial Data Communication", 20% syllabus change has been made based on the feedback of stakeholders.
17. In "19EI6305- Introduction to Soft Computing", 25% syllabus revision made with relevant topics.
18. In 19EI6401 - Smart Sensors for Engineering Applications", 20% syllabus change has been made based on the feedback of stakeholders.
19. In R2019 - Semester V & VI - Following Employability Enhancement Courses introduced for member's approval.
    a. 16EI5251- Programmable Logic Controllers and SCADA
    b. Basics of LabVIEW (Additional Credit)
    c. 16EI6701- Internship Training
    d. Proficiency in Graphical Design with hardware (Additional Credit)
20. Employability courses introduced for member's approval.
    - 19EI6401 - Smart Sensors for Engineering Applications
21. Skill Development courses introduced for member's approval.



- 19EI6181 - Industrial Safety Management
- 19EI6305 - Introduction to Soft Computing

22. The Regulation 2016, Curriculum and Syllabi of semester VII & VIII for the students admitted in the academic year 2018-2019 and onwards is forwarded by the Board of Studies to the Standing committee/Academic Council and recommends for approval.
23. The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.

- Object Oriented Programming
- Design Of PCB Using ORCAD Software
- Java Programming
- Programming With Arduino
- Industrial Field Instrumentation & SCADA / HMI

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

For Regulations 2016:

- In almost all the courses, changes have been done as per the current needs.
- The curriculum and syllabi of 2016 for the VII & VIII semester subjects of B.E Electronics and Instrumentation Engineering program for the students admitted during the academic year 2018 - 2019 and onwards was permitted to move on to Academic Council.
- Chairman conveyed that, the suggestions given by the Board of Studies members are to be incorporated in 2016.
- Chairman conveyed that, the suggestions given by the Previous Board of Studies members are ratified and resolved.

For Regulations 2019:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabus of Regulation 2019 with amendments for the I & II semester subjects were passed by the Science and Humanities, Computer Science and Engineering, Mechanical Engineering and Electrical and Electronics Engineering boards are permitted to move on Academic Council by the BoS members of Electronics and Instrumentation Engineering for the students admitted during the academic year 2021-2022 and onwards.
- The curriculum and syllabi of 2019 with amendments for the III & IV semester subjects of B.E Electronics and Instrumentation Engineering program for the students admitted during the academic year 2020 - 2021 and onwards was permitted to move on to Academic Council.
- The curriculum and syllabi for V and VI semesters of Regulation 2019 with amendments were introduced for B.E Electronics and Instrumentation Engineering program for the students admitted in the academic year 2019-20 and onwards and the same were presented and discussed. It 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.

The meeting ended with a vote of thanks at 10.30 A.M.

Chairman
Board of Studies

Chairman - BoS
EIE - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
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 ENGG & TECH CBE-32

Hindusthan College of Engineering and Technology

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Valley Campus, Pollachi Highway ,Coimbatore – 641 032

Date: 08-02-2021

Academic Year: 2017-2018

Sixth Board of Studies Meeting Minutes

The Sixth Board of Studies meeting of Regulation 2019 for the academic year 2021-22 was conducted on 08.02.2021 at 10.30 a.m. at ONLINE mode through Google Meet: https://meet.google.com/igo-gdat-fzt. The following members were present.

S.No	Name of the Person	Department	Position
1	Dr. K. Siva	Professor and Head, Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Chairman
2	Dr. V. Prabhuraja	Associate Professor, Department of Manufacturing Engineering, PSG College of Technology, Coimbatore.	University Nominee
3	Dr. K. Marimuthu	Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore.	Subject Expert 1
4	Dr. K. Ramesh Kumar	Professor Department of Mechanical Engineering, Amirta School of Engineering, Coimbatore.	Subject Expert 2
5	Mr. N. Sampathkumar	DGM Training & Development, Roots Industries India Ltd, Coimbatore.	Representative from Industry
6	Dr. M.S. Bobji	Professor, Department of Mechanical Engineering, IISC, Bangalore.	Member from QS Rated Institution
7	Dr. S. Sekar	Associate Professor, Department of Mechanical Engineering, Hindusthan Institute of Technology	Member from HiTECH
8	Dr. M. Mohanraj	Professor , Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member
9	Dr. C. Nithyanandam	Associate Professor , Mechanical Engineering Department, Hindusthan College of Engineering and Technology.	Member
10	Dr. P. N. Karthikeyan	Associate Professor , Mechanical Engineering Department, Hindusthan College of Engineering and Technology.	Member
11	Dr. V. Senthilmurugan	Assistant Professor , Mechanical Engineering Department, Hindusthan College of Engineering and Technology.	Member

12	Mr. P. Vigneshwar	Pie Bags Pvt Ltd, Madurai	Alumni
13	Mr. N. Gowtham Rajan.	Student (IV Year-Mech)	Student Member
14	Mr. V. Dinesh Kumar	Student (III Year-Mech)	Student Member
15	Mr. C. Arun Rathnavel	Student (II Year-Mech)	Student Member

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.

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 Curriculum Development Cell (CDC) & Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC) and emphasized the importance of including the Skill Development and Employability related courses in the curriculum to be in line with the industry needs.

Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during **14.03.2020.** Members of the BOS approved the same.

The Chairman also mentioned the revision of Regulation 2019 Syllabus, which meets, on higher order thinking levels based on the recommendations from stakeholder.

Recommendations by BoS members (Subject Related) Regulations 2019:

1. The Subject Expert (Dr. K. Marimuthu) suggested that, in Semester 05, in "19ME5204 - Automobile Engineering", The title of Unit-V shall be changed as "Electrical Vehicles and Electric Hybrid Vehicles". Emphasis shall be given to energy storage and types of motors used in electrical vehicles.
2. University Nominee (Dr. V. Prabhuraja) suggested that, in semester 05, "19ME5002-Heat Transfer Lab", the list of experiments on "Heat Transfer and Refrigeration & Air conditioning" are to be merged.
3. Subject Expert (Dr. K. Ramesh Kumar) suggested that, in 6th Sem, "19ME6203-Design of Transmission Systems", assignment practice on "Design and analysis of small components used for power transmission" shall be given to students for enhancing the design and analysis skills.

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

4. Subject Expert (Dr. K. Ramesh Kumar) suggested that, in 6th Sem, "19ME6001-CAD/CAM Lab" Modeling of Heavy Assembly parts like, stuffing box, tail stock & etc can be given. MASTER CAM software practice shall be given.
5. The following Employability courses for members approval
    - 19HE6072 Intellectual Property Rights (IPR)
    - 19HE5072 Design Thinking
6. The following Skill Development course for members approval
    - 19HE5071 Soft Skills – I
    - 19HE6071 Soft Skills – II
7. Subject Expert (Dr. K. Marimuthu) suggested that, the certification courses from various Skill development Agencies can be offered as mandatory courses or one credit courses.
8. Subject Expert (Dr. K. Ramesh Kumar) suggested that, Non-credit mandatory course focusing on GATE and other competitive examinations can be offered in each semester.
9. Subject Expert (Dr. K. Marimuthu) suggested that, summer internship from various reputed mechanical industry can be offered to students in every year.
10. Also the expert suggested, One credit course for emerging skills such as Artificial intelligence, Machine Learning, Data Analytics as per FICCI and World Economic forum report may be offered. It can also be taken up from MOOCs.
11. Subject Expert (Dr. K. Ramesh Kumar) suggested that, One extra credit course as per the local region industry requirements can be offered.
12. University Nominee (Dr. V. Prabhuraja) suggested that, to issue B.E.(Hons) for the students who earn extra credits and scored CGPA above 8.5.
13. Also the expert suggested, Assessment tools such as seminars, Group discussion, project work can be considered for assessment methods.
14. Expert from QS rated Institution (Dr. M.S. Bobji) suggested introducing One credit mini Project work/ Hands on training may be offered every semester along with practical course.
15. The Student member, (Mr. N. Gowtham Rajan., IV MECH) requested to offer more number of additional credit courses to enhance their technical skills.
16. Chairman conveyed about the Consideration of MOOC courses like NPTEL/Coursera / Edx etc as Additional credit courses so that students can get wide exposure on knowledge sharing.



Regulations 2016

- The Regulation 2016, Curriculum and Syllabi of semester VI & VII for the students admitted in the academic year 2018-2019 and onwards is forwarded by the Board of Studies to the Standing committee/Academic Council and recommends for approval.

Value Added Courses:

The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.

- Creo-5.0 - Industrial Design Engineering
- CATIA V5 - Industrial Design Engineering

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

For Regulations 2016:

- In almost all the courses, changes have been done as per the current needs.
- The curriculum and syllabi of Regulation 2016 for the VII & VIII semester subjects of B.E Mechanical Engineering program for the students admitted during the academic year 2018 - 2019 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.

For Regulations 2019:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabus of Regulation 2019 for the I & II semester subjects were passed by the Science and Humanities, Computer Science and Engineering, and Electrical and Electronics Engineering permitted board and permitted to move on Academic Council by the BoS members of Mechanical Engineering for the students admitted during the academic year 2021-2022 and onwards.
- The curriculum and syllabi of Regulation 2019 for the III & IV semester subjects of B.E Mechanical Engineering program for the students admitted during the academic year 2020 - 2021 and onwards was permitted to move on to Academic Council.
- Based on Regulation 2016, the revised curriculum and syllabi for V and VI semesters of Regulation 2019 were introduced for B.E Mechanical Engineering program for the students admitted in the academic year 2019-20 and onwards and the same were presented and discussed. It was permitted to move on to Academic Council.



- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in Regulation 2019.
- 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 1.30 P.M.

Chairman
Board of Studies

Chairman - BoS
MECH - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
4. Curriculum and Syllabi

Copy:

1. The Principal
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3. Controller of Examinations
4. All the Members of BoS
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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 27.07.2021

SEVENTH BOS MEETING MINUTES

The Seventh BOS meeting of regulation R2019 for the academic year 2021 – 22 was conducted on 27.07.2021 in online mode using Google Meet: meet.google.com/set-rhpv-bet. The objective of the meeting was to discuss the curriculum and syllabi with all professional elective courses, open elective courses and newly added courses.

The following members were present

S.No.	Name of the Expert	Nomination
1	**Dr. K. Siva** Professor and Head, Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Chairman
2	**Dr. M. Sakthivel,** Associate Professor, Department of Mechanical Engineering, Anna University, Regional Campus, Coimbatore.	Anna University Nominee
3	**Dr.P.K.PALANI.,** Professor of Mechanical Engineering, Vice Principal & Controller of Examinations, Government College of Technology, Coimbatore- 641 013.	Academic Expert
4	**Dr. Anbuudayasankar S. P.,** Associate Professor, Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Coimbatore.	Academic Expert
5	**Dr. VS Saravanan,** Vice President at Indoshell Cast private limited Coimbatore.	Industry Member
6	**Dr. M.S. Bobji** Professor Department of Mechanical Engineering, Indian Institute of Science, Bangalore.	Members from QS Rated Institutions

7	**Dr.S. Sekar,** Associate Professor Mechanical Engineering Department, Hindusthan Institute of Technology	Members from Sister Concern – HiTECH
8	**Dr. M. Mohanraj** Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member
9	**Dr. C.Nithyanandam** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member
10	**Dr. P.N. Karthikeyan** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member
11	**Dr. V. Senthilmurugan** Associate Professor Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member
12	**Mr. M. Vigneshwar,** Proprietor Pie Bags Private Limited, Madurai.	Alumnus
13	**Mr. N. Subramonia Pillai,** Deputy General Manager, Liquid Rocket Engine Test Facility Instrumentation, ISRO Propulsion Complex, Mahendragiri, Tirunelveli.	Parent
14	**Dinesh Kumar.V** **18-22 Batch Student** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	18-22 Batch Student
15	**Arun Rathnavel.C** **19-23 Batch Student** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	19-23 Batch Student

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.

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

HINDUSTHAN COLLEGE OF ENGG & TECH * CBE-32 *

Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during **08.02.2021.** Members of the BOS approved the same.

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

- In Semester I & II – Three Employability Enhancement Subjects (Career Guidance 1&2 + Entrepreneur & Innovation) are added with the curriculum as Mandatory Course with Zero Credit
- In Semester III – Two Employability Enhancement Subjects (Career Guidance 3 & Leadership Management Skills) are added with the curriculum as Mandatory Course with Zero Credit
- In Semester IV – Two Employability Enhancement Subjects (Career Guidance 4 & Ideation Skills) are added with the curriculum as Mandatory Course with Zero Credit
- In Semester V – 'Soft Skill' and 'Design Thinking' subjects are added with the weightage of 1 Credit each under Employability Enhancement Course – Total 2 Credits
- In Semester VI – Soft Skill and Intellectual Property Rights (IPR) subjects are added with the weightage of 1 Credit each under Employability Enhancement Course – Total 2 Credits
- As per the AICTE guideline, in Semester I, II, III & IV one credit subject on NCC is added as Value Added Course with Extra Credit. Further, the students who enroll in HICET NCC and Air Wing are eligible to undergo this subject. The earned extra credits will be printed in the Consolidated Mark sheet as per the regulation.

After the presentation is over, the chairman shared the syllabus of subjects considered.

Comments given by BoS members:

19ME3201 Manufacturing Technology-I:

- Suggested changes in Course Objectives.

19ME3203 Engineering Materials and Metallurgy:

- Suggested changes in Course Objectives.

19ME5301 Advanced Foundry Technology:

- Recent Furnace technology and casting topics can be added.

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

For Regulations 2016:

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



- The curriculum and syllabi of Regulation 2016 for the VII semester subjects of B.E Mechanical Engineering program for the students admitted during the academic year 2018 - 2019 and onwards was reviewed and permitted to move on to Academic Council.
- Chairman conveyed that the suggestions given by the Previous Board of Studies members are ratified and resolved.

For Regulations 2019:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabi of Regulation 2019 for the III semester subjects of B.E Mechanical Engineering program for the students admitted during the academic year 2020 - 2021 and onwards was reviewed and permitted to move on to Academic Council.
- The curriculum and syllabi of Regulation 2019 for the V semester subjects of B.E Mechanical Engineering program for the students admitted during the academic year 2019 - 2020 and onwards was reviewed and permitted to move on to Academic Council.
- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in Regulation 2019.
- 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 1.30 P.M.

Chairman
Board of Studies

Chairman - BoS
MECH - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
4. Curriculum and Syllabi

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Date: 11.02.2022

EIGHTH BOS MEETING MINUTES

The Eighth BOS meeting of regulation 2016 and R2019 for the academic year 2021 – 22 Even Semester was conducted on 07.02.2022 in online mode using Google Meet: https://meet.google.com/etp-uooe-vyq The objective of the meeting was to discuss the curriculum and syllabi with all professional elective courses, open elective courses and newly added courses.

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. M. Sakthivel** Associate Professor, Department of Mechanical Engineering, Anna University, Regional Campus, Coimbatore.	Anna University Nominee	Present
3	**Dr.P.K.Palani** Professor of Mechanical Engineering, Vice Principal & Controller of Examinations, Government College of Technology, Coimbatore- 641 013.	Academic Expert	Present
4	**Dr. Anbuudayasankar S. P** Associate Professor, Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Coimbatore.	Academic Expert	Present
5	**Dr. VS Saravanan** Vice President at Indoshell Cast private limited Coimbatore.	Industry Member	Present
6	**Dr. M.S. Bobji** Professor Department of Mechanical Engineering, Indian Institute of Science, Bangalore.	Members from QS Rated Institutions	Absent
7	**Dr. S. Sekar** Associate Professor 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. P.N. Karthikeyan** 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	**Mr. M. Vigneshwar,** Proprietor Pie Bags Private Limited, Madurai.	Alumnus	Present
13	**Mr. N. Subramonia Pillai,** Deputy General Manager, Liquid Rocket Engine Test Facility Instrumentation, ISRO Propulsion Complex, Mahendragiri, Tirunelveli.	Parent	Present
14	**Dinesh Kumar.V** **18-22 Batch Student** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	18-22 Batch Student	Present
15	**Arun Rathnavel.C** **19-23 Batch Student** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	19-23 Batch Student	Present
16	**Rono George Roy** **20-24 Batch Student** Mechanical Engineering Department, Hindusthan College of Engineering and Technology	20-24 Batch Student	Present

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.

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

Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during **27.07.2021.** Members of the BOS approved the same.



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

Comments given by BoS members:

19ME4201 Manufacturing Technology-II

- Burnishing operation, types of burnishing and tools used -topics can be added
- Latest metal coating techniques like TiN, TiC -topics can be added

19ME6202 Metrology & Quality Control

- Reproducibility, Advanced 3D Scanner - topics can be added

19ME6305 Energy Conservation and Management

- Energy Source types and 'Energy conservation act' - topics can be added

19HE6071 Soft Skills – II

- Team Building, Leadership skills and Crisis management - topics can be added

Dr. V S Saravanan, Vice President at Indoshell Cast private limited, Specially invited our faculties and students, to visit their industry for studying ISO 15001:2010 energy management system which gives general guidelines for the selection of materials and components based on the available data on their oxygen compatibility, and for carrying out risk analysis, including addressing the toxicity of products of combustion.

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

For Regulations 2016:

- In almost all the courses, changes have been done as per the current needs.
- The curriculum and syllabi of Regulation 2016 for the VIII semester subjects of B.E Mechanical Engineering program for the students admitted during the academic year 2018 - 2019 and onwards was reviewed and permitted to move on to Academic Council.
- Chairman conveyed that the suggestions given by the Previous Board of Studies members are ratified and resolved.

For Regulations 2019:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.



- The curriculum and syllabi of Regulation 2019 for the IV semester subjects of B.E Mechanical Engineering program for the students admitted during the academic year 2020 - 2021 and onwards was reviewed and permitted to move on to Academic Council.
- The curriculum and syllabi of Regulation 2019 for the VI semester subjects of B.E Mechanical Engineering program for the students admitted during the academic year 2019 - 2020 and onwards was reviewed and permitted to move on to Academic Council.
- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in Regulation 2019.
- 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 4.30 P.M.

Chairman
Board of Studies

Chairman - BoS
MECH - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
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Valley Campus, Pollachi Highways, Coimbatore, Tamil Nadu.

Date: 29.01.2021

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Mechatronics Engineering**

The Sixth Board of Studies meeting of Regulation 2019 for the academic year 2020-21 was conducted on 29.01.2021 at 10.00 a.m. in the Video Conference Hall, Central Library.

The following members were present:

S.No	Name of the Person	Department	Position
1	Dr. S.J. Narmadha	Professor & Head, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Chairman
2	Dr. M. Saravana Mohan	Associate Professor Department of Mechatronics Engineering, Kumaraguru College of Technology, Coimbatore	University Nominee
3	Dr.M.Poongothai	Associate professor, Department of Electronics and communication Engineering, Coimbatore Institute of Technology, Coimbatore	Subject Expert (1)
4	Dr. John Alexis	Professor, Department of Automobile Engineering, Kumaraguru College of Technology, Coimbatore	Subject Expert (2)
5	Dr.K.Selvaraj	Senior Member IEEE, Solution Architect at DXC Technology, Bangalore.	Representative from Industry
6	Dr.A.Purushothaman	Microelectronic Circuits Centre Ireland(MCCI), Tyndall National Institute, Cork, Ireland	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	Mr.Pradeep Johnson	Assistant Professor, Department of Mechatronics Engineering Hindusthan College of Engineering and Technology, Coimbatore	Member
9	Mr.G.Thilak	Assistant Professor, Department of Mechatronics Engineering Hindusthan College of Engineering and Technology, Coimbatore	Member
10	Mr.S.PremAnand	Assistant Professor, Department of Mechatronics Engineering , Hindusthan College of Engineering and Technology, Coimbatore	Member
11	Mr.M.Karthikeyan	Assistant Professor, Department of Mechatronics Engineering , Hindusthan College of Engineering and Technology, Coimbatore	Member
12	Mr.R.Abbishek	Manager – Business Development(BDM) BYJUS, Coimbatore	Alumni Member

- The Chairman welcomed University nominee, Subject experts, special invitees and all the internal members for the Board of Studies meeting.
- The Chairman briefly explained the salient features of Regulation 2019 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) & Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC).
- The feedback received on curriculum by the stakeholders was presented.
- Followed by, Chairman presented the suggestions given by the BoS experts and the action taken report during the Previous BoS meeting, which was held during 28.02.2020, was approved.

Recommendations by BoS members (Subject Related)

- In "19MT5201-Machine Design", 25% syllabus revision made with relevant topics.
- In "19MT5202-Industrial Automation and Control", 20% syllabus change has been made based on the feedback of stakeholders.
- In "19MT5203-Control of Mechatronics Systems", 25% syllabus revision has been undertaken.

HINDUSTHAN COLLEGE OF ENGG & TECH * CBE-32 *

- In "19MT5251-Fluid Power Systems", 25% syllabus change has been made based on the feedback of stakeholders.
- In "19MT5001-Computer Aided Machine Drawing Laboratory", 40% syllabus change has been made based on the feedback of stakeholders.
- In "19MT5301-Engineering Metrology and Measurements", 25% syllabus change has been made based on the feedback of stakeholders.
- In "19MT5302-Non Traditional Machining Techniques", 25% syllabus change has been made based on the feedback of stakeholders.
- In "19MT5303-Automobile Systems", 25% syllabus change has been made based on the feedback of stakeholders.
- In "19MT6202-CNC Technology", 25% syllabus change has been made based on the feedback of stakeholders.
- Semester V & VI - Skill Development courses for members approval
  - 19MT5251-Fluid Power system
  - 19MT5302-Nontraditional Machining Techniques
  - 19MT6301-Embedded System
  - 19MT6304-Non Destructive Testing Techniques
- Semester V & VI – Employability courses for members approval
  - 19MT5202- Industrial Automation and Control
  - 19MT6202-CNC Technology
  - 19MT5304-Operational Research
- Semester V -Entrepreneurship courses for members approval
  - 19MT5201-Machine Design

General Recommendations

- Chairman conveyed about the Consideration of MOOC courses like NPTEL/Coursera / Edx etc 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,

For Regulations 2016:

- In almost all the courses, changes have been done as per the current needs.
- The curriculum and syllabi of R2016 for the VII & VIII semester subjects of B.E., Mechatronics Engineering program for the students admitted during the academic year 2018 - 2019 and onwards was permitted to move on to Academic Council.

HINDUSTHAN COLLEGE OF ENGG & TECH. CBE-32

- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in R2016.

For Regulations 2019:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabus of Regulation 2019 for the I & II semester subjects were passed by the Science and Humanities, Computer Science and Engineering and Mechanical Engineering boards and permitted to move on Academic Council by the BoS members of Mechatronics Engineering for the students admitted during the academic year 2021-2022 and onwards.
- The curriculum and syllabi of R2019 for the III & IV semester subjects of B.E Mechatronics Engineering program for the students admitted during the academic year 2020 - 2021 and onwards was permitted to move on to Academic Council.
- Based on Regulation 2016, the revised curriculum and syllabi for V and VI semesters of R2019 were introduced for B.E., Mechatronics Engineering program for the students admitted in the academic year 2019-20 and onwards and the same were presented and discussed. It was permitted to move on to Academic Council.
- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in R2019.
- Chairman conveyed that the suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with a vote of thanks at 12.30 pm.

Chairman
Board of Studies

Chairman - BoS
MCT - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
4. 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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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, Tamil Nadu.

TÜVRheinland CERTIFIED

Date: 08.07.2021

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Mechatronics Engineering**

The Seventh Board of Studies meeting of Regulation 2019 for the academic year 2021-22 was conducted on 08.07.2021 at 10.00 a.m. in the Video Conference Hall, Central Library.

The following members were present:

S.No.	Name of the Person	Department	Position
1	Dr. S.J. Narmadha	Professor & Head, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Chairman
2	Dr. M. Sakthivel	Associate Professor, Department of Mechanical Engineering, Anna University, Regional Campus Coimbatore.	University Nominee
3	Dr.M. Poongothai	Associate professor, Department of Electronics and communication Engineering, Coimbatore Institute of Technology, Coimbatore	Subject Expert (1)
4	Dr.S. Saravanan	Professor & Associate Dean – Autonomous Functioning, Department of Production Engineering, PSG College of Technology, Peelamedu, Coimbatore.	Subject Expert (2)
5	Dr.K. Selvaraj	Senior Member IEEE, Solution Architect at DXC Technology, Bangalore.	Representative from Industry
6	Dr.A. Purushothaman	Microelectronic Circuits centre Ireland (MCCI), Tyndall National Institute, Cork, Ireland	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	Mr. Pradeep Johnson	Assistant Professor, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member

HINDUSTHAN COLLEGE OF ENGG & TECH * CBE-32

9	Mr.G. Thilak	Assistant Professor, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
10	Mr.S. PremAnand	Assistant Professor, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
11	Mr.M. Karthikeyan	Assistant Professor, Department of Mechatronics Engineering, Hindusthan College of Engineering and Technology, Coimbatore	Member
12	Mr. Madhan Mohan	Service and Support Engineer, Rhythmsoft Robotics and Automation Pvt Ltd, Satpur, Nashik.	Alumni Member

- The Chairman welcomed University nominee, Subject experts, special invitees and all the internal members for the Board of Studies meeting.
- The Chairman briefly explained the Salient features of Regulation 2019 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) & Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC).
- The feedback received on curriculum by the stakeholders was presented.
- Followed by, Chairman presented the suggestions given by the BoS experts and the action taken report during the Previous BoS meeting, which was held during 29.01.2021, was approved.

Recommendations by BoS members (Subject Related)

- In "19MT6002-Industrial Automation and Control Laboratory – II", 25% syllabus change has been made based on the feedback of stakeholders.
- In "19MT6302-Discrete Event System Simulation", 25% syllabus change has been made based on the feedback of stakeholders.
- In "19MT6251-Vetronics", 25% syllabus change has been made based on the feedback of stakeholders.
- In "19MT6305-Distinctive Electrical Machines", 25% syllabus change has been made based on the feedback of stakeholders.

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

- In almost all the courses, changes have been made as per the Local, Regional, National and Global needs.
- The curriculum and syllabus of Regulation 2019 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 Mechatronics Engineering for the students admitted during the academic year 2021-2022 and onwards.
- The curriculum and syllabi of R2019 for the III & IV semester subjects of B.E Mechatronics Engineering program for the students admitted during the academic year 2020 - 2021 and onwards was reviewed and permitted to move on to Academic Council.
- Based on Regulation 2016, the revised curriculum and syllabi for V and VI semester of R2019 were reviewed for B.E Mechatronics Engineering program for the students admitted in the academic year 2019-20 and onwards and the same were presented and discussed. It was permitted to move on to Academic Council.
- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in R2019.
- Chairman conveyed that the suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with a vote of thanks at 12.30 p.m.

Chairman
Board of Studies

Chairman - BoS
MCT - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
4. Curriculum and Syllabi

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Othakalmandapam Post, Coimbatore – 641 032

Date: 22.01.2021

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Information Technology**

The Seventh Board of Studies meeting of Regulation 2019 for the academic year 2021-22 was conducted on 22.01.2021 at 11.50 A.M at ONLINE mode through Google Meet. (Meeting Link: http://meet.google.com/gxw-hduz-ccg)

The following members were present.

S.No	Name of the Person	Department	Position
1	Dr. N.Rajkumar	Professor / Head, Department of Information Technology, Hindusthan College of Engineering and Technology	Chairman
2	Dr.D.Rasi	Assistant Professor, Department of Information Technology, Hindusthan College of Engineering and Technology	Member
3	Dr.B.Gomathi	Assistant Professor, Department of Information Technology, Hindusthan College of Engineering and Technology	Member
4	Mr.M.Ganesan	Assistant Professor, Department of Information Technology, Hindusthan College of Engineering and Technology	Member
5	Mrs.N.Yamuna	Assistant Professor, Department of Information Technology, Hindusthan College of Engineering and Technology	Member
6	Dr.Latha Parameswaran	Professor, Computer Science Engineering, Amrita School of Engineering, Coimbatore	Subject Expert 1
7	Dr.Kumutha Raimond	Professor, Department of Computer Science and Engineering, Karunya Institute of Technology and Sciences, Coimbatore	Subject Expert 2
8	Dr. R.Mohan	Assistant Professor, Department of Computer Science and Engineering, National Institute of Technology, Tiruchirapalli	Member from QS Rated Institution
9	Dr.S.Balamurugan	Head of Research and Development, QUANTS IS & Consultancy	Representative from Industry

		Services, Coimbatore	
10	Ms.E.Saranya	Assistant Professor, Department of Computer Science and Engineering, Sri Eshwar College of Engineering, Coimbatore	Alumni
11	Dr.S.Valli	Professor, Department of Computer Science Engineering, Anna University, Chennai	University Nominee
12	Mr. B.Manikandan	Associate Professor, Department of Information Technology, Hindusthan Institute of Technology, Coimbatore	Member from Sister Concern – HiTECH
13	Mr.G.Ashwin	Final Year Student	Student Member
14	Mr.T.Raguram	Third Year Student	Student Member
15	Ms.C.Varsha	Second Year Student	Student Member

The following members could not attend their meeting due to other official engagements.

1. Dr.S.Valli (University Nominee)

- The Chairman-BoS welcomed the University nominee, Subject experts, Special Invitees and all the internal members for the Seventh 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 **28.08.2020** 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 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.



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

- Subject experts suggested to include Industry Oriented Programming courses so that it would be benefitted by students for their placement.

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

a) Semester: VI, Course Code: 19IT6202R - Principles of Compiler Design, Credits: 3 (Percentage of revision was done– 40%) done based on the feedback of stakeholders

b) Semester: III, Course Code: 19IT3002R- Object Oriented Programming Using C++ Laboratory, Credits: 2 (Percentage of revision was done– 40%) done based on the feedback of stakeholders

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

For Regulation 2016:

- In almost all the courses, changes have been done as per the current needs.
- The Curriculum and Syllabi of Regulation 2016 for the VII & VIII semester subjects of B.Tech Information Technology program for the students admitted during the academic year 2018 - 2019 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.

For Regulation 2019:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The Curriculum and Syllabi of Regulation 2019 for the I & II semester subjects were passed by the Science and Humanities, Computer Science and Engineering, Mechanical Engineering and Electronics and Communication Engineering boards and permitted to move on Academic Council by the BoS members of Information Technology for the students admitted during the academic year 2021-2022 and onwards.
- The curriculum and syllabi of Regulation 2019 for the III & IV semester subjects of B.Tech Information Technology program for the students admitted during the academic year 2020 - 2021 and onwards was permitted to move on to Academic Council.



- The curriculum and syllabi of Regulation 2019 for the V and VI semester subjects of B.Tech Information Technology program for the students admitted during the academic year 2019-20 and onwards was reviewed and permitted to move on to Academic Council.

- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in Regulation 2019.

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

The meeting ended with a vote of thanks to the members by the Chairman at 01.30 P.M.

Chairman

Board of Studies

Chairman - BoS
IT - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
4. Curriculum and Syllabi

Copy:

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Othakalmandapam Post, Coimbatore – 641 032

Date: 10.07.2021

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Information Technology**

The Eighth Board of Studies meeting of Regulation 2016 & Regulation 2019 for the academic year 2021-22 was conducted on 10.07.2021 at 11.30 A.M at ONLINE mode through Google Meet. (Meeting Link: http://meet.google.com/xpo-vahu-gru)

The following members were present.

S.No	Name of the Person	Department	Position
1	Dr. N.Rajkumar	Professor / Head, Department of Information Technology, Hindusthan College of Engineering and Technology	Chairman
2	Dr.D.Rasi	Assistant Professor, Department of Information Technology, Hindusthan College of Engineering and Technology	Member
3	Dr.B.Gomathi	Assistant Professor, Department of Information Technology, Hindusthan College of Engineering and Technology	Member
4	Mr.M.Ganesan	Assistant Professor, Department of Information Technology, Hindusthan College of Engineering and Technology	Member
5	Mrs.N.Yamuna	Assistant Professor, Department of Information Technology, Hindusthan College of Engineering and Technology	Member
6	Dr. P. Sakthivel	Professor and Dean, University College of Engineering, Anna University, Kancheepuram	Subject Expert 1
7	Dr. S. Geetha	Professor and Associate Dean, School of Computer Science and Engineering, VIT University, Chennai Campus, Chennai	Subject Expert 2
8	Dr. E.S. Gopi	Associate professor, Department of Electronics and Communication	Member from QS Rated Institution

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

		Engineering, National Institute of Technology, Tiruchirappalli	
9	Mr.R.V.Vinay	Senior Project Manager, Robert Bosch Engineering and Business Solutions India Ltd, Bangalore	Representative 1 from Industry
10	Ms.Sheetal Soni	Country Channel Manager, IBM India	Representative 2 from Industry
11	Mr.R.Gokul	Senior Automation Developer, Cognizant Technology Solutions, Coimbatore	Alumni
12	Dr.K.Thulasimani	Professor, Department of Computer Science and Engineering, Government College of Engineering, Tirunelveli	University Nominee
13	Mr. B.Manikandan	Associate Professor, Department of Information Technology, Hindusthan Institute of Technology, Coimbatore	Member from Sister Concern – HiTECH
14	Mr.T.Raguram	Final Year Student	Student Member
15	Ms.C.Varsha	Third Year Student	Student Member
16	Mr.M.Shaik Sadam Hussain	Second Year Student	Student Member

The following members could not attend their meeting due to other official engagements.

1. Ms.Sheetal Soni (Representative 2 from Industry)
2. Mr.M.Shaik Sadam Hussain (Student Member)

- The Chairman-BoS welcomed the University nominee, Subject experts, Special Invitees and all the internal members for the Eighth 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 (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 feedback received on the curriculum by the stakeholders was presented.
- Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during **21.01.2021** was approved.



- The Chairman also mentioned the revision of Regulation 2019 Syllabus which meets on higher order thinking levels based on the recommendations from Stakeholders.
- The Chairman of BoS revised the following Lab Courses Syllabi under Regulation-2019 such as 21IT2151-Programming in C (Theory with Lab component) in Semester II and 19IT3001R- Data Structures and Algorithm Laboratory in Semester III, 19IT4001R- Java Programming Laboratory and 19IT4002R- Database Management Systems Laboratory in Semester IV to enhance the knowledge among students for better placement.
- For the students admitted from 2020 onwards, the following **Employability Enhancement courses** have been introduced.

  1.In Semester I & II – Three Employability Enhancement Subjects (19HE1072 Career Guidance - Level I, 19HE1073 Entrepreneurship & Innovation and 19HE2072 Career Guidance - Level II) added within the curriculum as Mandatory Course with Zero Credit.

  2.In Semester III – Two Employability Enhancement Subjects (19HE3071 Career Guidance - Level III and 19HE3073 Leadership Management Skills) added within the curriculum as Mandatory Course with Zero Credit.

  3.In Semester IV – Two Employability Enhancement Subjects (19HE4072 Career Guidance – Level IV and 19HE4073 Ideation Skills) added within the curriculum as Mandatory Course with Zero Credit.

  4.In Semester V – 19HE5071 Soft Skill - I and 19HE5072 Design Thinking new subjects added with the weightage of each 1 Credit under Employability Enhancement Course – Total 2 Credits

  5.In Semester VI – 19HE6071 Soft Skill -II and 19HE6072 Intellectual Property Rights (IPR) new subjects added with the weightage of Each 1 Credit under Employability Enhancement Course – Total 2 Credits

  6.Also the credit for Project in VIII semester has been reduced from 12 to 8.
- For 2019-2023 batch students, the following courses have been introduced

  1. In Semester V, 19HE5071 Soft Skill - I and 19HE5072 Design Thinking subjects were added with the weightage of each 1 Credit under Employability Enhancement Course. Hence, totally 2 credits were added.
  2. In Semester VI, 19HE6071 Soft Skill -II and 19HE6072 Intellectual Property Rights (IPR) subjects were added with the weightage of Each 1 Credit under Employability Enhancement Course. Hence, totally 2 credits were added.



3. To compensate the above credits, Credit of Project Phase-II in VIII semester has been reduced from 12 to 8.

- For the students admitted from 2021 onwards, the following courses have been introduced
  1. As per the AICTE guideline, NCC one credit subject is added as Value Added Course with Extra Credit in Semester I, II, III & IV. Further, the students who enroll in HiCET NCC and Air Wing are eligible to undergo this subject. The earned extra credits will be printed in the Consolidated Mark sheet as per the Regulation.
  2. NCC course level 1 & Level 2 will be added in the Open Elective Subjects in the appropriate semester. Further, the students who have opted NCC subjects in Semester I, II, III & IV are eligible to undergo NCC Open Elective Subjects.
  3. The above mentioned NCC Courses will be offered to the students admitted from Academic Year 2021 - 2022 onwards.
- The Syllabi for the following Skill Oriented courses under Choice Based Credit System were introduced under Computer Science and Engineering board, the same was presented in Information Technology board for the students admitted from 2021 onwards:

  1.19CS3252-Clean Coding and Devops (Theory with Lab component)

  2.19CS4203-Design Thinking

  3.19CS4002-Design Thinking Laboratory
- In addition, the Chairman of BoS introduced the service subject titled "19IT3252-Relational Database Management System" for the Third Semester of Electronics and Communication Engineering Students admitted from 2021 onwards.
- The Chairman introduced 3rd Program Specific Outcomes (PSO) to improve the department outcomes.

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

1. The Subject Experts advised to give credits for non-credit Employability Enhancement Courses for the benefit of students.
2. The BoS members discussed that if the number of courses in each semester will be increased due to extra credit courses, it is a burden to the students.
3. The Credit of 19IT5201- Mobile Computing in Fifth Semester was reduced to 3 and that extra credit is assigned to 19IT6251-Cryptography and Network Security (Theory with Lab Component) in Sixth Semester with the approval of BoS Experts and permitted to move on Academic Council.



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

a) Semester: II, Course Code: 21IT2151-Programming in C, Credits: 3 (Percentage of revision was done– 40%)

b) Semester: III, Course Code: 19IT3002R- Object Oriented Programming Using C++ Laboratory, Credits: 3 (Percentage of revision was done– 30%)

c) Semester: III, Course Code: 19IT3001R- Data Structures and Algorithm Laboratory, Credits: 2 (Percentage of revision was done– 100%) done based on the feedback of stakeholders

d) Semester: II, Course Code: 19IT4001R- Java Programming Laboratory, Credits: 2 (Percentage of revision was done– 100%)

e) Semester: IV, Course Code: 19IT4002R- Database Management Systems Laboratory, Credits: 2 (Percentage of revision was done– 35%)

f) Semester: V, Course Code: 19IT5351R - Internet and Web Technology, Credits: 3 (Percentage of revision was done– 50%) done based on the feedback of stakeholders

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

For Regulations 2016:

- In almost all the courses, changes have been done as per the current needs.
- The Curriculum and Syllabi of Regulation 2016 for the VIII semester subjects of B.Tech Information Technology program for the students admitted during the academic year 2018 - 2019 and onwards was permitted to move on to Academic Council.

For Regulations 2019:

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabus of Regulation 2019 for the I & II semester subjects were passed by the Science and Humanities, Computer Science and Engineering, Mechanical Engineering and Electronics and Communication Engineering boards and permitted to move on Academic Council by the BoS members of Information Technology for the students admitted during the academic year 2021-2022 and onwards.
- The curriculum and syllabi of Regulation 2019 for the III & IV semester subjects of B.Tech Information Technology program for the students admitted during the academic year 2020 - 2021 and onwards was permitted to move on to Academic Council.
- The curriculum and syllabi of Regulation 2019 for the V and VI semester subjects of B.Tech Information Technology program for the students admitted during the academic

HINDUSTHAN COLLEGE OF ENGG & TECH ★ CBE-32 ★

year 2019-20 and onwards were reviewed and permitted to move on to Academic Council.

- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated in Regulation 2019.
- Chairman conveyed that the suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with vote of thanks to the members by the Chairman at 01.30 P.M.

Chairman

Board of Studies

Chairman - BoS
IT - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
4. Curriculum and Syllabi

Copy:

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Valley Campus, Pollachi Highways, Coimbatore, Tamil Nadu.

TÜVRheinland CERTIFIED

Date: 14.07.2021

BOARD OF STUDIES MEETING

Name of the Department: **Agriculture Engineering**

The Fifth Board of Studies meeting of Regulation 2016 (VII semester) & Regulation 2019 (V semester) for the academic year 2021-22 was conducted on 14.07.2021 at 2.30 PM. in the Board Room (Virtual mode), Hindusthan College of Engineering and Technology.
Google Meet: https://meet.google.com/qvq-asyfq-klj

The following members were present,

S. No.	Name of the Person	Department	Position
1	Dr.N.Sridhar	Assistant Professor/ Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Chairman
2	Dr.M.Krishnaveni	Professor, Centre for Water Resources, CEG Campus, Anna University, Chennai.	University Nominee
3	Mr. C.Mayilsamy	Associate Professor, Dept of Agrl Engg, Karunya Institute of Technology and Sciences, Coimbatore.	Subject Expert
4	Dr.M. Singaravelu	Dean , SNS College of Engineering and Technology , Coimbatore .	Subject Expert
5	Dr.Manickavasagan Annamalai	Associate Professor , University of Guelph, Canada.	Subject Expert
6	Mr.C.V.Madheswaran	Managing Director, KSNM Marketing, Coimbatore	Representative from Industry
7	Mr Shanmugasundaram	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
8	Mrs Chinju Saju	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
9	Mrs.K.Ramya	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member

10	Ms.P.Athira	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
11	Mrs.K.GuruLakshimi	Higher secondary Teacher	Parent
12	Mrs. Leema jaya Rose	Undergraduate/ House wife	Parent
13	Sakthi Kumar M	Agri.Engg	Student
14	Sreelekshimi Saseendran	Agri.Engg	Student

The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the third 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 **10.02.2021** was approved.
- The feedback received on curriculum by the stakeholders was presented.
- Chairman also gave an outline of the changes to be made in the curriculum given by the Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC) and emphasized the importance of curriculum to be in line with the industry needs.

Following are the Comments put forth by the Experts:

For the Regulation 2016

The new courses introduced are 16AG7201-Groundwater and Well Engineering, 16AG7202-Remote Sensing and Geographical Information System, 16AG7203-Solar and Wind Energy Engineering, 16AG7204-Agricultural Extension, 16AG7001-GIS Laboratory for Agricultural Engineers, 16AG7002-Renewable Energy Laboratory, 16AG7003- ICT in Agricultural Engineering, 16AG7701-Industrial Training/ Technical Seminar, 16AG7301-Industrial Waste Water Management, 16AG7302-Ergonomics and Safety in Agricultural Engineering, 16AG7303-On Farm Water Management, 16AG7304-Watershed Hydrology and Management, 16AG7305-Application of Drone Technology in Agriculture, 16AG7306-Dairy Process Technology, 16AG7307-Storage and Packaging Technology, 16AG7308-Process Engineering of Fruits and Vegetables, 16AG7401-Emerging Technologies in Food Process Engineering

For the Regulation 2019

1. In "19AG3201 - Soil Science and Engineering" 25% of syllabus revision done in Unit – II, III and V (For the Batch 2020 – 2024).
2. In "19AG3251 - Unit Operations in Agricultural Processing", 30% of syllabus was revised with relevant topics in Unit – I and V (For the Batch 2020 – 2024).
3. In "19AG3001 - Field Crop Production Practical" recommended to change 40 % of syllabus (For the Batch 2020 – 2024).

4. In "19AG3002 - Soil Science Laboratory" recommended to change 40 % of syllabus (For the Batch 2020 – 2024).

- The new courses introduced are 19AG5201-Farm Machinery and Equipment, 19AG5202-Refrigeration and Cold Chain Management, 19AG5203-Theory of Machines, 19AG5251-Groundwater and Well Engineering, 19AG5252-Soil and Water Conservation Engineering, 19AG5001-Operation and Maintenance of Farm Machinery Laboratory, 19AG5002-CAD for Agricultural Engineering, 19AG5301-Systems Analysis and Soft Computing in Agricultural Engineering, 19AG5302-Sustainable Agriculture and Food Security, 19AG5303-CDM and Carbon Trading Technology, 19AG5304-IOT in Agricultural Systems, 19AG5305-Ergonomics and Safety in Agricultural Engineering. Members were accepted to add 19HE 5071 -Soft Skills-II and 19HE5072-Design thinking" suggested to add each 1 Credit under Employability Enhancement Course.
- Skill Development courses introduced for member's approval.
    - 19AG5303 - CDM and Carbon Trading Technology
    - 19AG5201-Farm Machinery and Equipment
- Employability courses introduced for member's approval.
    - 19AG5202 - Refrigeration and Cold Chain Management
    - 19AG5302 - Sustainable Agriculture and Food Security

The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.

- Training on Mobile App and Web Development
- Practicing PLC and arduino for Agricultural Machinery Automation
- Principles of Machine Drawing
- Millet Processing and Cookies
- Bakery Technology
- Wipro Training

General Comments by the BoS Members:

If possible, to add the following course and it is the need of the hour actually for farmers' concern.

- Automation of irrigation - Now all the irrigation companies are focusing on automation.
- Farm Mechanization- In addition to B.E courses, special attention and interested students may be trained in design of machineries & equipment to suit the local Indian farmers, CAD, IoT in agriculture, etc.

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

For Regulations 2016:

- In almost all the courses, changes have been made as per the Local, Regional, National and Global needs.
- The curriculum and syllabus for the VII 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 2018-2019 and onwards.

For Regulations 2019:

- In almost all the courses, changes have been made as per the Local, Regional, National and Global needs.
- The curriculum and syllabus for the V 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 2019-2020 and onwards.
- The curriculum and syllabi of 2019 with revision and updation for the III, V semester courses of B.E., Agriculture Engineering programme for the students admitted during the academic year 2020-2021 and onwards was suggested to move on to Academic Council.

The meeting ended with thanks by the Chairman at 4.00 P.M.

Chairman
Board of Studies
Chairman - BoS
AGRI - HiCET

Enclose:

1. Previous BoS Minutes- ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
4. 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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Valley Campus, Pollachi Highways, Coimbatore, Tamil Nadu.

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Date: 04.02.2022

BOARD OF STUDIES MEETING

Name of the Department: **Agriculture Engineering**

The sixth Board of Studies meeting of Regulation 2016 (VIII semester) & Regulation 2019 (VI semester) for the academic year 2021-22 was conducted on 04.02.2022 at 2.30 PM in the Board Room (Virtual mode), Hindusthan College of Engineering and Technology.

Google Meet: https://meet.google.com/sdc-vuiq-dsj

The following members were present,

S. No.	Name of the Person	Department	Position
1	Dr.N.Sridhar	Assistant Professor/ Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Chairman
2	Dr.M.Krishnaveni	Professor, Centre for Water Resources, CEG Campus, Anna University, Chennai.	University Nominee
3	Mr. C.Mayilsamy	Associate Professor, Dept of Agrl Engg, Karunya Institute of Technology and Sciences, Coimbatore.	Subject Expert
4	Dr.M. Singaravelu	Dean, SNS College of Engineering and Technology, Coimbatore.	Subject Expert
5	Dr.Manickavasagan Annamalai	Associate Professor , University of Guelph, Canada.	Subject Expert
6	Mr.C.V.Madheswaran	Managing Director, KSNM Marketing, Coimbatore.	Representative from Industry
7	Mr Shanmugasundaram	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
8	Mrs Chinju Saju	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
9	Mrs.K.Ramya	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member

10	Ms.P.Athira	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
11	Mrs.K.GuruLakshimi	Higher Secondary Teacher	Parent
12	Mrs.Leema jaya Rose	Undergraduate/ House wife	Parent
13	Sakthi Kumar M	Agri.Engg	Student
14	Sreelekshimi Saseendran	Agri.Engg	Student

The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the third 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 14.07.2021 was approved.
- Chairman also gave an outline of the changes to be made in the curriculum given by the Pre-Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC) and emphasized the importance of curriculum to be in line with the industry needs.
- The feedback received on curriculum by the stakeholders was presented.

Following are the Comments put forth by the Experts:

For the Regulation 2016

- The new courses introduced 16AG8901-Project Work, 16AG8301-Agricultural Business Management and Entrepreneurship, 16AG8302-Agricultural Economics and Farm Managements, 16AG8303-Intellectual Property Rights, 16AG8304-Agricultural Waste Management, 16AG8305-Special Farm Equipment, 16AG8306-Mechanics of Tillage and Traction, 16AG8307-Micro Irrigation System, 16AG8308-Automation in Irrigation.

  Skill Development courses introduced for member's approval.
  - 16AG8304 - Agricultural Waste Management
  - 16AG8303 - Intellectual Property Rights

  Employability courses introduced for member's approval.
  - 16AG8302 - Agricultural Economics and Farm Managements

For the Regulation 2019

1. In "19AG4201-Farm Tractors" recommended to revise 35% of syllabus in Unit – II and III (For the Batch 2020 – 2024).
2. In "19AG4203 - Irrigation and Drainage Engineering" recommended to change 30% of syllabus in Unit – I and V (For the Batch 2020 – 2024).
3. In "19AG4202 - Thermodynamics" recommended to update 30% of syllabus in Unit II and III. (For the Batch 2020 – 2024).

4. In "19AG4251 – "Bio Energy Resource Technology" recommended to change 25% of syllabus (For the Batch 2020 – 2024).
5. In "19AG4252 – "Surveying and Leveling" recommended to revise 25% of syllabus (For the Batch 2020 – 2024).
6. In "19AG4001 – "Irrigation Field Lab" recommended to change 25% of syllabus (For the Batch 2020 – 2024).
7. The new courses introduced 19AG6201-Hydrology and Water Resources Engineering, 19AG6202-Solar and Wind Energy Engineering, 19AG6181-Professional Ethics, 19AG6251-Food and Dairy Engineering, 19AG6252- ICT in Agricultural Engineering, 19AG6701-Industrial Training, 19AG6301-Climate change and adaptation, 19AG6302-Heat and Mass Transfers for Agricultural Engineers, 19AG6303-Disaster Management, 19AG6304-Horticultural Crop Processing, 19AG6305-Organic Farming Technologies, 19AG6401-Urban Agriculture and organic Farming . Members accepted to add 19HE 6071 -Soft Skills-II and 19HE6072-Intellectual Property Rights (IPR)" suggested to add each 1 Credit under Employability Enhancement Course.
8. The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.

    - Training on Mobile App and Web Development
    - Practicing PLC and arduino for Agricultural Machinery Automation
    - Principles of Machine Drawing
    - Millet Processing and Cookies
    - Bakery Technology
    - Wipro Training

General Comments by the BoS Members:

- Members suggested to invite the industrial expert to provide value added courses.
- Members suggested to provide industry exposure and research experience to the students, to Encourage the students to participate in various online certification courses.
- Members accepted to value added courses are added within the curriculum as Mandatory Course with Zero Credit.

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

For Regulation 2016:

- 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 2018-2019 and onwards.

For Regulations 2019:

- In almost all the courses, changes have been made as per the Local, Regional, National and Global needs.
- The curriculum and syllabus for the VI 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 2019-2020 and onwards.

- The curriculum and syllabi of 2019 with revision and updation for the IV 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.

The meeting ended with a vote of thanks at 4.00 PM.

Chairman
Board of Studies

Chairman - BoS
AGRI - HiCET

Enclose:

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09.07.2021

DEPARTMENT OF BIOMEDICAL ENGINEERING

The meeting of the Board of Studies in the Department of Biomedical Engineering undergraduate programme was conducted on 07.07.2021 July 2021 at 10:30 am in the ONLINE mode through Google Meet. (Meeting Link: https://meet.google.com/bfu-rwiu-zeo)

The following members were present:

S.No	Name of the Person	Department	Position
1	**Dr. S. Saravanasundaram**	Professor / Head, Department of Biomedical Engineering, Hindusthan College of Engineering and Technology.	Chairman
2	**Dr. S.J. Thiruvengadam**	Professor Department of Electronics and Communication Engineering Thiyagarajar College of Engineering ,Madurai-625015 sjtece@tce.edu	University Nominee
3	**Dr Vidhya Priya**	Prof & Head Department of Biomedical Engineering, PSG College of Technology, Coimbatore. rvp.bme@psgtech.ac.in	Academic Expert
4	**Dr.P.Manimegalai,**	Associate Professor Department of Biomedical Engineering, Karunya Institute of Technology and Science, Coimbatore. manimegalaip@karunya.edu	Academic Expert
5	**Dr.N.Nandakumar**	Proprietor / Bio Medical Engineer, PRIME BIO MEDICAL SYSTEMS, Amarjothi Garden, Kangayam Road, Tiruppur-641 604 nandaprime@gmail.com	Industry Expert
6	**A.Thirugnanam**	Associate Professor and Head, NIT Rourkela, Odisha, Department of Biotechnology and Medical Engineering, thirugnanam.a@nitrkl.ac.in	Member QS Rated Institution

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7	**Dr. L. Vijayakumar** M.Tech., Ph.D.	Professor and Head, Department of Pharmaceutical Hindusthan Institute of Technology, Coimbatore.	Member -HITECH
8	**Mrs S ShobhaChristila**	Assistant Professor Department of Biomedical Engineering, Hindusthan College of Engineering and Technology	Internal member
9	**Mr R. Anandha Kumar**	Assistant Professor Department of Biomedical Engineering, Hindusthan College of Engineering and Technology	Internal member
10	**Ms D. Monisha**	Assistant Professor Department of Biomedical Engineering, Hindusthan College of Engineering and Technology	Internal member
11	**Ms S P Manoalagammai**	Department of Biomedical Engineering, Hindusthan College of Engineering and Technology	Student – IV BME
12	**Mr. S Siddharth**	Department of Biomedical Engineering, Hindusthan College of Engineering and Technology	Student – III BME
13	**Ms. M.Sushmitha**	Department of Biomedical Engineering, Hindusthan College of Engineering and Technology	Student – II BME

- The chairman of the BoS, **Dr. S. Saravanasundaram** welcomed all the dignitaries for the meeting. **Chairman** introduced the BoS members.
- The feedback received on the curriculum by the stakeholders was presented.
- The **Chairman** presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during 22-**01-2021** was approved.
- **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) and emphasized the importance of including the employability enhancement courses, design thinking and IPR related courses in the curriculum to be in line with the industry needs.
- As per the AICTE guideline, in Semester I, II, III & IV, NCC has one credit subject added as Value Added Course with Extra Credit. Further, the students who enroll in HiCET NCC and Air Wing are eligible to undergo this subject. The earned extra credits will be printed in the Consolidated Mark sheet as per the regulation.



- NCC course level 1 & Level 2 will be added as the open elective subject in the appropriate semester to the students admitted from Academic Year 2021 - 2022 and onwards.

In Semester V & VI –Skill development Courses for members approval

- 19BM5201 Bio control System
- 19BM5202 Bio Mechanics
- **In Semester V &VI – Employability Courses for members approval**
- 19BM5251 - Virtual Instrumentation using Lab VIEW
- 19BM6001 Bio Signal Processing Laboratory
- 19HE5072 Design Thinking
- 19HE6072 Intellectual Property Rights (IPR)

Department specific Board of Studies Discussion / Suggestions:

Regulation 2019

- Based on the Department advisory committee suggestions the subjects Virtual Instrumentation using Lab view, Robotics in medicine, Drug Delivery System, Cardiovascular Engineering, Ultrasound in Medicine, Medical Physics, Medical Ethics and Standards, Radiological Equipments and nuclear Medicine,IOT Applications in Healthcare, Artificial Intelligence in Healthcare and Augmented Reality and Virtual Reality in Medicine included in the curriculum of regulation 2019 were submitted to the panel for approval and it was approved by the BoS panel members.
- Subject Expert **(Dr.P.Manimegalai)** suggested that,Panel members suggested that Neural Networks subject may be replaced by deep learning subject.(Add neural network topics in first two units)
- Industry Expert **(Mr.Pragadheewaran)** suggested that,Modification to be done in the syllabi of Artificial Intelligence in Healthcare subject.
- Subject Expert (**Dr. L. Vijayakumar**) suggested that,In open elective: Instead of title "Applications of Biomedical Engineering" the title "Recent Trends in Health Care' can be considered.



- Subject Expert **(A.Thirugnanam)** suggested that,Instead of title "Hospital Engineering" the title "Hospital Management" can be considered.
- Industry Expert **(Mr.Pragadheewaran)** suggested that,In open elective syllabus instead of the topic diagnostic and therapeutic equipments mention specific equipments.
- Industry Expert **(Dr.N.Nandakumar)** suggested that,Include case studies in biomaterial and Artificial organ syllabus.
- Subject Expert **(A.Thirugnanam)** suggested that,Change Unit 5 title in robotics in medicine syllabus.
- Subject Expert **(Mr.Pragadheewaran)** suggested that,In Drug delivery system syllabi include syringe pump, volumetric pump and infusion pump.
- Subject Expert **(DrVidhyaPriya)** suggested that,In Virtual reality in medicine syllabus include open source software's detail.
- Subject Expert **(Dr.P.Manimegalai)** suggested that,Panel members suggested that the subject Augmented Reality and Virtual Reality in Medicine may be considered as a core paper.

The following resolutions were 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 2019 for the I & II semester subjects were passed by the Science and Humanities, Electrical and Electronics Engineering, Computer Science and Engineering, Mechanical Engineering boards and permitted to move on Academic Council by the BoS members of Biomedical Engineering for the students admitted during the academic year 2021-2022 onwards.
- The curriculum and syllabus of Regulation 2019 for the III & IV semester was passed by the Biomedical Engineering Board and permitted to move on Academic Council by the BoS members of Biomedical Engineering for the students admitted during the academic year 2020-2021 onwards.



- The curriculum and syllabus of Regulation 2019 for the V & VI semester subjects were introduced and passed by the Biomedical Engineering Board, and permitted to move on Academic Council by the BoS members of Biomedical Engineering for the students admitted during the academic year 2019-2020 onwards.
- The curriculum and syllabus of Regulation 2016 for the VII & VIII semester subjects were introduced and passed by the Biomedical Engineering Board, and permitted to move on Academic Council by the BoS members of Biomedical Engineering for the students admitted during the academic year 2018-2019 onwards.
- Subject Expert (Dr B BanuRekha) suggested that, the Semester VI 19BM6302, the syllabus content of Embedded system in Medical devices has to be revised.
- University Nominee(Dr S. Poonguzhali) suggested that, The Semester VI 19BM6401 the open elective subject Applications of Biomedical Engineering syllabus has to be revised.
- In 19BM6301 Biomaterial and Artificial Organs 60% syllabus revision was made based on the feedback of the stakeholders.
- In 19BM5301 Medical Physics 15% syllabus revision was made based on the relevant topics.
- In 19BM5251 Virtual Instrumentation using LabVIEW 30% syllabus revision was made based on the relevant topics.
- In 19BM5302 Robotics in Medicine 20% syllabus revision was made based on feedback from experts.
- In 19BM6202 Radiological Equipments and nuclear Medicine 10% syllabus revision was made based on the relevant topics.
- In 19BM6305 Artificial Neural Networks 15% syllabus revision was made based on the feedback of the stakeholders.
- In 19BM6401 Applications of Biomedical Engineering 15% syllabus revision was made based on the relevant topics.
- The credit for Project in VIII semester has been reduced from 12 to 8.

  The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.

  - ➢ PCB Design using ORCAD Software
  - ➢ Object Oriented Programming Using JAVA
  - ➢ Hospital Clinical Trial



- ➢ First Aid and Emergency Care
- ➢ Labview GUI Programming with Real time Application

Department specific Board of Studies resolutions/Common Suggestions:

- Panel members suggested that GATE topics may be included in the syllabus.

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

Chairman
Board of Studies

Chairman BoS
BME - HiCET

Enclose:

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4. Curriculum and Syllabi

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Date: 22.01.2021

MINUTES OF BOARD OF STUDIES MEETING

Board of Studies in Department: **Biomedical Engineering**

The Fourth Board of Studies meeting for the Academic year 2021-2022 was conducted on 22.01.2021 at 10.00 a.m. in online mode through Google Meet.

(Meeting Link: http://meet.google.com/gjh-ghjn-ejk).

The following members were present.

S.No	Name of the Person	Department	Position
1	Dr. S. Saravanasundaram	Professor and Head Department of Biomedical Engineering Hindusthan College of Engineering and Technology	Chairman
2	Dr S. Poonguzhali	Associate Professor Department of ECE Anna University, Chennai 600025Biomedical Engg	University Nominee
3	Dr G. Gopu	Professor and Head, Department of Biomedical Engineering, Sri Ramakrishna Engineering College, Coimbatore.	Academic Expert
4	Mr Pragadheeswaran	Aries Biomed Technology Pvt Ltd Thudiyalur Coimbatore	Industry Expert
5	Dr. BanuRekha B,	Associate Professor, Biomedical Engg PSG College of Technology, Peelamedu, Coimbatore-641044	Academic Expert
6	A.Thirugnanam,	Associate Professor and Head, Department of Biotechnology and Medical Engineering, NIT Rourkela, Odisha.	Special Invitee
7	Dr. L. Vijayakumar	Professor and Head, Department of Pharmaceutical, Hindusthan Institute of Technology, Coimbatore.	Special Invitee
8	Mrs ShobhaChristila	Assistant Professor Department of Biomedical Engineering, Hindusthan College of	Internal member

HINDUSTHAN COLLEGE OF ENGINEERING & TECHNOLOGY * CBE *

		Engineering and Technology	
9	Ms K. Kiruthika	Assistant Professor Department of Biomedical Engineering, Hindusthan College of Engineering and Technology	Internal member
10	Ms D. Monisha	Assistant Professor Department of Biomedical Engineering, Hindusthan College of Engineering and Technology	Internal member
11	Ms S P Manoalagamai	Department of Biomedical Engineering, Hindusthan College of Engineering and Technology	Student Member

The following members could not attend the meeting due to other engagements.

Dr G. Gopu

Professor and Head

Department of Biomedical Engineering, SREC

- The Chairman welcomed University nominee, Subject experts, special invitees and all the internal members for the Board of Studies meeting.
- The feedback received on 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).
- Followed by, Chairman presented the suggestions given by the BoS experts and the action taken report during the Previous BoS meeting, which was held during **12.03.2020** was approved.

Department specific Board of Studies Discussion / Suggestions:

Regulation 2019

- Subject Expert (Dr B BanuRekha) suggested that, the Semester VI 19BM6302, the syllabus content of Embedded system in medical devices has to be revised
- University Nominee(Dr S. Poonguzhali) suggested that, The Semester VI 19BM6401 the open elective subject Applications of Biomedical Engineering syllabus has to be revised
- Subject Expert (Dr. L. Vijayakumar) suggested that, The subject Bio transport Phenomenon may be included in the curriculum

Regulation 2016

- Subject Expert (Dr B BanuRekha) suggested that, the Semester VI 16BM6302 Remove Biomaterials and add it to Elective Course.
- Subject Expert (Mr Pragadheeswaran) suggested that, the Semester VII Computers in Medicine subject should be added.
- Industry Expert (Mr Pragadheeswaran) suggested that, Semester VII (16BM7201) The syllabus content of Medical Image Processing has to be revised

- Industry Expert (Mr Pragadheeswaran) suggested that, Semester VII (16BM7307)Change textbook for Neural Networks

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

Regulations 2016

- The curriculum and syllabi for VII and VIII semesters of Regulation 2016 were introduced for B.E Biomedical Engineering program for the students admitted in the academic year 2018-2019 and onwards and the same were presented and discussed.
- Chairman conveyed that, the Suggestions given by the Board of Studies members are to be incorporated in Regulation 2016.
- Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

Regulations 2019

- In almost all the courses, changes have been done as per the Local, Regional, National and Global needs.
- The curriculum and syllabi for III and IV semesters of Regulation 2019 were introduced for B.E Biomedical Engineering program for the students admitted in the academic year 2020-2021 and onwards and the same were presented and discussed.
- Based on 2016 regulation, the revised Curriculum and syllabi for V and VI semesters of Regulation 2019 were introduced for B.E Biomedical Engineering program for the students admitted in the academic year 2019-2020 and onwards and the same were presented and discussed.
- Chairman conveyed that, the Suggestions given by the Board of Studies members are to be incorporated in Regulation 2019.
- Chairman conveyed that the Suggestions given by the Previous Board of Studies members are ratified and resolved.
- The following Skill development Courses for members approval
  - 16BM7201 - Medical Image Processing
  - 19BM5251 - Virtual Instrumentation using Lab VIEW
- The Following Employability Courses for members approval
  - 19BM6202 Radiological Equipment and nuclear Medicine
  - 19BM6203 Entrepreneurship Development

- The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.

➢ Programming Using C
➢ Data Structures
➢ Clinical Management
➢ Awareness of First Aid

The meeting ended with thanks to the members by Chairman at 12.30 pm

Chairman
Board of Studies

Chairman BoS
BME - HiCET

Enclose:

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4. Curriculum and Syllabi

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DEPARTMENT OF FOOD TECHNOLOGY

Date: 30.01.2021

MINUTES OF THE BOARD OF STUDIES MEETING

Name of the Department: **Food Technology**

The Fourth Board of Studies meeting of Regulation 2016 and Regulation 2019 (for the students admitted from 2019-2020 and to be admitted from 2020-21 onwards) for the Academic year 2020-2021 (II) was conducted on 30.01.2021 at 10.00 a.m. through google meet.

The following members were present.

S.No.	Name of the Person	Department	Position
1.	Dr. Jeevarathinam G	Assistant Professor, 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	Associate Professor and Head, Department of Food Process Engineering, Indian Institute of Food Processing Technology Ministry of Food Processing Industries, Government of India Pudukkottai Road, Thanjavur.	Academic Expert
4.	Dr Eyarkai Nambi V	Associate Professor, Department of Academics and HRD, Indian Institute of Food Processing Technology Ministry of Food Processing Industries, Government of India Pudukkottai Road, Thanjavur.	Academic Expert
5.	Dr. Kaliramesh Siliveru	Assistant Professor, Department of Grain Science & Industry, Kansas State University, 209 Shellenberger Hall, 1301 Mid Campus Drive, Manhattan, KS 66506.	Academic Expert
6.	Mr. Kirankumar R	PD Executive – Biscuits	Industry Expert

		ITC - Life sciences and Technology Centre, Phase 1,3, 1st Main road, Peenya, Bengaluru.	
7.	Dr Seenuvasan M	Professor & Head, Department of Food Technology, HICET.	Member
8.	Mrs Princy N	Assistant Professor, Department of Food Technology, HICET.	Member
9.	Mrs.G.Nageswari,	Assistant Professor, Department of Food Technology, HICET.	Member
10.	Mr Dillwyn S	Assistant Professor, Department of Food Technology, HICET.	Member
11.	Ms Neethu C S	Assistant Professor, Department of Food Technology, HICET.	Member
12.	Ms Dharshana R	III Year	Student Member
13.	Ms Keerthana J M	III Year	Student Member
14.	Mr Rajendran	-	Parent Member

- The Chairman-BoS welcomed University nominee, Subject experts, special invitees and all the internal members for the Fourth Board of Studies meeting.
- Chairman presented the suggestions given by the experts and the action taken report of the previous BoS meeting, which was held on 05.09.2020. Members of the BOS approved the same.
- 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 curriculum and syllabus for the new courses under VIth semester of regulation 2016 and II & IV semesters of regulation 2019 was presented by the Chairman and discussed.

The Chairman discussed the scheme of curriculum under regulation 2019 for the students admitted from the academic year 2020-2021 onwards.

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

For the Regulation 2016 curriculum and syllabus

The curriculum for VIth semester were rearranged and presented for discussion.

- In the sixth semester, the Industrial training course was presented in the BoS meeting and discussed as follows:



Most of the students are not able to undergo implant training/industry internship due many restrictions policies followed by the industries (COVID19 pandemic). One of the following online certificate courses is also considered for obtaining the credit.

Skill development courses

Courses listed:

- Health practices: nutrition, physical activity, community, and family participation
- Leading healthcare quality and safety
- Leadership and emotional intelligence

- Suggested to change the title of Unit I as Processing of Milk and suggested to interchange the Unit III and IV in the 16FT6201 Dairy Engineering course in the sixth semester.

- Suggested to reframe the title of 16FT620X Meat, fish, and Poultry Process Technology as 16FT620X Poultry, Meat and Fish Process Technology in the sixth semester.

- Suggested to include 16FTXXXX Refrigeration and Cold Chain Management in the sixth semester.

- The new courses recommended to introduce with course code and title in VIth semester as follows "16FT620X Dairy Engineering, 16FT620X Food Packaging, 16FT620X Poultry, Meat and Fish Process Technology, 16FT620X Refrigeration and Cold chain Management, 16FT600X Food Packaging and Fruits & Vegetable Processing Laboratory, 16FT600X Dairy Engineering Laboratory, 16FT670X Industrial Training".

- The professional elective II courses recommended to introduce with course code and title in VIth semester as follows "16FT630X Fermentation Technology, 16FT630X Bioprocess Engineering, 16FT630X Cane Sugar Technology, 16FT630X Enzyme Technology".

  The following skill development courses are introduced for members' approval.

  16FT6301 - Fermentation Technology

  16FT6302 - Bioprocess Engineering

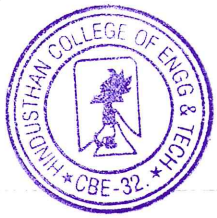
- The following employability courses are introduced for members' approval.

  16FT6002 - Dairy Engineering Laboratory

  16FT6001 - Food Packaging and Fruits & Vegetable Processing Laboratory

For the Regulation 2019 curriculum and syllabus

- Suggested to include 19FT4002 Food Process Equipment Design laboratory in the IVth Semester.



- Suggested to replace the following experiments in the 19FT4002 Food Process Equipment Design Laboratory course of fourth semester:

    i. Design of a pressure vessel

    ii. Design of an extruder

    iii. Design of a sterilizer

    iv. Design of a tray dryer

    v. Design and drawing of a freeze dryer

    vi. Design and drawing of belt conveyor

- Suggested to include 19FTXXXX Engineering Properties of Food materials in the IVth Semester.
- The courses recommended with course code and title in IVth semester for the students admitted from 2019-20 onwards as follows "19FT420X Fundamentals of Heat and Mass Transfer, 19FT420X Food Process Calculations, 19FT420X Engineering properties of food materials, 19FT425X Food Chemistry, 19MA415X Statistics and Numerical Methods 19FT400X Food Process Equipment Design Laboratory".
- The new courses recommended to introduce with course code and title in IVth semester as follows "19400X Unit Operations Laboratory".
- The courses recommended with course code and title in IInd semester for the students admitted from 2020-21 onwards as follows "19HE2101 Business English for Engineers, 19MA2101 Differential Equations and Complex Variables, 19PH2151 Material Science, 19IT2151 Programming in C, 19FT2105 Principles of Microbiology, 19HE2001 Language Competency Enhancement course – II".

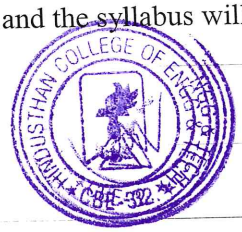
General recommendations:

1. University Nominee suggested to participate in online certificate and training courses that will explore the knowledge of students.
2. Subject experts suggested participating in an online internship programme.

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

For Regulations 2016:

- In almost all the courses, changes have been done as per the current needs.
- The curriculum and syllabi of Regulation 2016 for the VIth semester were introduced for the Food Technology program for the students admitted the academic year 2018-2019 and onwards was permitted to move on to Academic Council.
- Chairman has confirmed that, the suggestions given by the subject experts will be considered in R2016 and the syllabus will be updated based on the suggestions given in this BoS meeting.



- Chairman conveyed that, the suggestions given by the Previous Board of Studies / DAC meeting were ratified and resolved.

For Regulations 2019:

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

- The curriculum and syllabi for the IV semester subjects of Regulation 2019 were introduced and passed by the Food Technology board and permitted to move on Academic Council by the BoS members of Food Technology for the students admitted during the academic year 2019-2020 and onwards.

- The curriculum and syllabus of Regulation 2019 for the IV semester subjects- 19MA4152 were passed by Science and Humanities board and permitted to move on Academic Council by the BoS members of Food Technology for the students admitted during the academic year 2019-2020 onwards.

- The curriculum and syllabi for the II semester subjects of Regulation 2019 were passed by the Food Technology board and permitted to move on Academic Council by the BoS members of Food Technology for the students admitted during the academic year 2019-2020 and onwards.

- The curriculum and syllabus of Regulation 2019 for the II semester subjects- 19HE2101, 19MA2101, 19PH2151, 19CY2151, and 19HE2001 were passed by Science and Humanities board and permitted to move on Academic Council by the BoS members of Food Technology for the students admitted during the academic year 2020-2021 onwards.

- Syllabus of Regulation 2019 for the II semester subjects- 19IT2151- Programming in C were passed by Information Technology board and permitted to move on Academic Council by the BoS members of Food Technology for the students admitted during the academic year 2020-2021 and onwards.

- Syllabus of Regulation 2019 for the II semester subject- 19FT2105- Principles of Microbiology were passed by the Food Technology board and permitted to move on Academic Council by the BoS members of Food Technology for the students admitted during the academic year 2020-2021 and onwards.

- Syllabus of Regulation 2019 for the II semester subjects- 19ME2001- Engineering Practices Laboratory were passed by the Mechanical Engineering board and permitted to move on Academic Council by the



BoS members of Food Technology for the students admitted during the academic year 2020-2021 and onwards.

- Chairman has confirmed that, the suggestions given by the subject experts will be considered in R2019 and the syllabus will be updated based on the suggestions given in this BoS meeting.

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

The meeting ended with thanks to the members by Chairman at 12.30 pm.

Chairman
Board of Studies

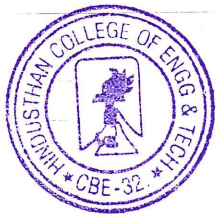
Chairman - BoS
FT - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
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

(An Autonomous Institution, Affiliated to Anna University, Chennai
Approved by AICTE, New Delhi & Accredited by NAAC with 'A' Grade)
Valley Campus, Pollachi Highways, Coimbatore, Tamil Nadu.

DEPARTMENT OF FOOD TECHNOLOGY

Date: 10.07.2021

MINUTES OF THE BOARD OF STUDIES MEETING

Name of the Department: **Food Technology**

The Fifth Board of Studies meeting of Regulation 2016 and Regulation 2019 (for the students admitted from 2019-2020, 2020-21 and to be admitted from 2021-22 onwards) for the Academic year 2021-2022 (I) was conducted on 10.07.2021 at 10.00 a.m. through google meet.

Google meet link: https://meet.google.com/kqz-qhdo-iqx

The following members were present.

S.No.	Name of the Person	Department	Position
1.	Dr. Jeevarathinam G	Associate Professor, 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	Associate Professor and Head, Department of Food Process Engineering, Indian Institute of Food Processing Technology Ministry of Food Processing Industries, Government of India Pudukkottai Road, Thanjavur.	Academic Expert
4.	Dr Eyarkai Nambi V	Associate Professor, Department of Academics and HRD, Indian Institute of Food Processing Technology Ministry of Food Processing Industries, Government of India Pudukkottai Road, Thanjavur.	Academic Expert
5.	Dr. Kaliramesh Siliveru	Assistant Professor, Department of Grain Science & Industry, Kansas State University,209 Shellenberger Hall, 1301 Mid Campus Drive, Manhattan, KS 66506.	Academic Expert
6.	Mrs.Vidyalakshmi Y	Head of Quality Assurance, Olam international Pvt., Ltd, Kerala.	Industry Expert
7.	Dr Seenuvasan M	Professor & Head, Department of Food Technology, HICET.	Member
8.	Mrs Swathi K	Assistant Professor,	Member

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		Department of Food Technology, HICET.	
9.	Mrs Princy N	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.	Ms Neethu C S	Assistant Professor, Department of Food Technology, HICET.	Member
13.	Ms. S.Magitta Sherine,	Student, Department of Food Technology, HICET	Student Member
14.	Ms. C.Ronitalini	Student, Department of Food Technology, HICET	Student Member
15.	Ms.G.Kanishka	Student, Department of Food Technology, HICET	Student Member
16.	Ms.k.Kaviya	Student, Department of Food Technology, HICET	Student Member
17.	Mr Charles A	-	Parent Member

- The Chairman-BoS welcomed University nominees, Subject experts, special invitees and all the internal members for the Fifth Board of Studies meeting.
- Chairman presented the suggestions given by the experts and the action taken report of the previous BoS meeting, which was held on 30.01.2021. Members of the BOS approved the same.
- 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 curriculum and syllabus for the new courses under VIIth semester of regulation 2016 and I, III & V semesters of regulation 2019 was presented by the Chairman and discussed.

The Chairman discussed the scheme of curriculum under regulation 2019 for the students admitted from the academic year 2021-2022 onwards.

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

For the Regulation 2016 curriculum and syllabus

- Suggested to include 16FTXXXX Plantation and Spices Product Technology in the seventh semester.
- Suggested to split the processing of tea and coffee into two units and unit V can be given as processing of tuber crops in 16FT7XXX Plantation Crops and Spices Product Technology of seventh semester.
- Suggested and recommended 16FTXXXX Food Product Development to be given as open elective.
- Suggested to 16FTXXXX Entrepreneurship Opportunities for Food Technologists can be included in the professional elective of eighth semester.
- Suggested to replace 16FTXXXX Entrepreneurship Management with 16FTXXXX Economics & management subject in the Professional Elective VI.

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- The following value-added and certificate courses with the duration of minimum 30 hrs each for all the batches are introduced as suggested by the internal board members:
    1. Waste management in Food Industries
    2. Computer Application in Food Industry
    3. HACCP LEVEL 3

- As per the discussion from the Pre – Board of Studies (Pre-BoS) / DAC, the value-added course "Food Product Development" with the duration of 30 hrs has been conducted during 4th Sem and "Computer Applications in Food Industry" with the duration of 30 hrs has been conducted during 6th Sem. I am put forth, the above mentioned course for BoS member's recommendation and approval and the same has approved by the members.
- The new courses recommended to introduce with course code and title in VIIth semester as follows "16HE7XXX Professional Ethics, 16FT7XXX Food Additives, 16FT7XXX Plantation Crops & Spices Product Technology, 16FT7XXX Food Process Equipment Design Laboratory, 16FT7XXX Professional Elective III, 16FT7XXX Professional Elective IV, 16FT7XXX Mini Project".

- The professional elective III courses recommended to introduce with course code and title in VIIth semester as follows "16FT7XXX Biology and Chemistry of Food Flavours, 16FT7XXXX Food Laws and Safety, 16FT7XXXX Functional Foods and Nutraceuticals, 16FT7XXXX Food Toxicology and Allergy".

- The professional elective IV courses recommended to introduce with course code and title in VIIth semester as follows "16FT7XXX Instrumentation and Process Control, 16FT7XXXX Technology of Snack and Extruded Foods, 16FT7XXXX Beverage Technology, 16FT7XXXX Food Process Plant Layout and Safety".

- The open elective II course recommended to introduce with course code and title in VIIth semester as follows "16FT7XXX Food Product Development".
- The following skill development courses are introduced for members' approval.

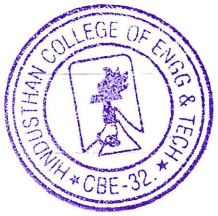
    - 16FT7401 - Food Product Development
    - 16FT7304 - Food Toxicology and Allergy

- The following employability courses are introduced for members' approval.

    - 16FT7305- Instrumentation and Process Control
    - 16FT7306 - Technology of Snack and Extruded Foods

For the Regulation 2019 curriculum and syllabus

- As per the recommendation from the Pre – Board of Studies (Pre-BoS) / DAC, the value-added course "Food Product Development" with the duration of 30 hrs had been conducted during 4th Sem was submitted to the panel for approval and it was approved by the BoS panel members.



- As per the recommendation from the Pre – Board of Studies (Pre-BoS)/ DAC, the value-added course "Computer Applications in Food Industry" with the duration of 30 hrs had been conducted during 6th Sem was submitted to the panel for approval and it was approved by the BoS panel members.
- As per the recommendation from the Pre – Board of Studies(Pre-BoS) / DAC, the following value-added courses can be introduced from 3rd semester onwards:

    1. Food colours and flavor technology
    2. Waste management in Food industries
    3. Skill development in sensory assessment techniques

The courses were submitted to the panel for approval, and it was approved by the BoS panel members.

- As per the recommendation from the Pre – Board of Studies (Pre-BoS) / DAC, the 19FTXXXX Food Product Development course can be removed from discipline elective as the course was offered as value added course with the duration of 30 hrs in the 4th semester was submitted to the panel for approval, and it was approved by the BoS panel members.
- As per the recommendation from the Pre – Board of Studies (Pre-BoS) / DAC, the certification course HACCP level 3 was introduced with the duration of minimum 30 hrs in the 4th and 6th semester was submitted to the panel for approval, and it was approved by the BoS panel members.
- In "19FT5204 - Principles of Food Processing" 60% revision was made with relevant topics.
- Suggested to change the title of the course in 19FTXXXX Milling Technology for Food 'Grains' as Milling Technology for Food Materials.
- Suggested to change the title of Unit II, III, and IV as 'Equipment's in Baking Technology, Bakery Product Preparation I, and Bakery Product Preparation II of 19FTXXXX Bakery and Confectionery Technology course in the fifth semester.
- Suggested to reframe the title of 19FT520X Meat, fish, and Poultry Process Technology as 19FT520X Poultry, Meat and Fish Process Technology in the fifth semester.
- Suggested that, 19FTXXXX Food Process Engineering – II can be shifted to Vth semester and renamed as Unit Operations in Food Processing as theory and 19FT5002 & 19FT6001 both courses combined and given as 19FT500X Unit Operations in Food Processing laboratory as separate laboratory course.
- Suggested to include the following subjects in the Vth semester with the subject code and title for the students admitted from 2019-20 onwards

    19FT520X Baking and Confectionery Technology – 3 credits
    19FT520X Food Additives – 3 credits
    19FT520X Poultry, Meat and Fish Process Technology – 3 credits
    19FT520X Principles of Food Processing – 3 credits
    19FT520X Unit Operations in Food Processing – Theory with Lab Component
    19FT500X Baking and Confectionery Technology Laboratory – 2 credits
    19FT500X Unit Operations in Food Processing Laboratory– 2 credits

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- The career guidance level – I (Personality, Aptitude and Career Development) was introduced in the I[st] semester by the Curriculum Development Cell (CDC) was approved by the BoS members and moved to the Academic Council.
- The career guidance level – III (Personality, Aptitude and Career Development) was introduced in the IIIrd semester by the Curriculum Development Cell (CDC) was approved by the BoS members and moved to the Academic Council.
- The courses recommended with course code and title in III semester for the students admitted from 2020-21 onwards as follows "19MA3102 Fourier Analysis and Transform, 19FT320X Fluid Mechanics, 19FT310X Principles of Thermodynamics, 19FT320X Food Microbiology, 19FT32XX Bio Chemistry, 19FT300X Food Microbiology Laboratory, 19FT300X Food Production Analysis Laboratory".
- The courses recommended with course code and title in I semester for the students admitted from 2021-22 onwards as follows "21HE1101 Technical English, 21MA1102 Calculus and Linear Algebra, 21ME1101 Basics of Civil and Mechanical Engineering, 21PH1151 Applied Physics, 21CY1151 Chemistry for Engineers, 21CS1151 Python Programming and Practices, 21HE1001 Language Competency Enhancement course – I, 21HE1072 Career Guidance Level-I (Personality, Aptitude and Career Development)".

General recommendations:

1. University Nominee suggested to participate in online certificate and training courses that will explore the knowledge of students.
2. Subject experts suggested to provide industry integrated value added courses/certificate courses.

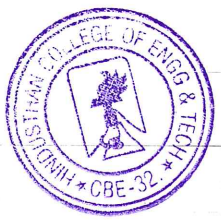
The following resolutions are made in the Board of Studies meeting:

Regulation 2016

- In almost all the courses, changes have been done as per the current needs.
- The curriculum and syllabi of Regulation 2016 for the VIIth semester were introduced for the Food Technology program for the students admitted the academic year 2018-2019 and onwards was permitted to move on to Academic Council.
- Chairman has confirmed that, the suggestions given by the subject experts will be considered in R2016 and the syllabus will be updated based on the suggestions given in this BoS meeting.
- Chairman conveyed that, the suggestions given by the Previous Board of Studies meeting were ratified and resolved.

Regulation 2019

- In almost all the courses, changes have been done as per the current needs.
- The curriculum and syllabi for the Vth semester subjects of Regulation 2019 were introduced and passed by the Food Technology board and permitted to move on Academic Council by the BoS members of Food Technology for the students admitted during the academic year 2019-2020 and onwards.



- The curriculum and syllabi for the IIIrd semester subjects of Regulation 2019 were introduced and passed by the Science and Humanities and Food Technology board and permitted to move on Academic Council by the BoS members of Food Technology for the students admitted during the academic year 2020-2021 and onwards.

- The curriculum and syllabi for the I[st] semester subjects of Regulation 2019 were introduced and passed by the Science and Humanities, Computer Science and Engineering, and Mechanical Engineering boards and permitted to move on Academic Council by the BoS members of Food Technology for the students admitted during the academic year 2021-2022 and onwards.

- Chairman conveyed that, the Suggestions given by the Board of Studies members are to be forwarded to Science and Humanities, Computer Science and Engineering, and Mechanical Engineering Boards and incorporated in Regulation 2019.
- Chairman conveyed that, the Suggestions given by the Previous Board of Studies members are ratified and resolved.

The meeting ended with thanks to the members by Chairman at 12.30 pm.

Chairman
Board of Studies
Chairman - BoS
FT - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
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 ENGG & TECH CBE-32

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
HICET

Hindusthan College of Engineering and Technology

(An Autonomous Institution, Affiliated to Anna University, Chennai
Approved by AICTE, New Delhi & Accredited by NAAC with 'A' Grade)
Valley Campus, Pollachi Highways, Coimbatore, Tamil Nadu.

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04.02.2022

DEPARTMENT OF FOOD TECHNOLOGY

MINUTES OF THE BOARD OF STUDIES MEETING

The sixth Board of Studies meeting of Regulation 2016 and Regulation 2019 (for the students admitted from 2019-2020, 2020-2021, and 2021-2022) for the academic year 2021-2022 (II) was conducted on 04.02.2022 at 10 am through Online Mode.

(Google Meet: https://meet.google.com/ovr-jsjr-scy?hs=224).

The following members were present:

S. No.	Name of the Person	Department	Position
1	Dr. Jeevarathinam G	Associate Professor, 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	Associate Professor and Head, Department of Food Process Engineering, 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, 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.R.Pandiselvam	Scientist, Physiology, Biochemistry and Post-Harvest Technology Division, ICAR –Central Plantation Crops Research Institute, Kasaragod-671 124, India.	Member from QIS rated Institution

HINDUSTHAN COLLEGE OF ENGG & TECH ★ CBE-32 ★

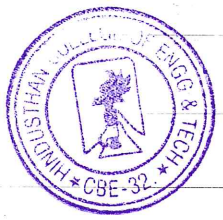
7	Dr Seenuvasan M	Professor & Head, Department of Food Technology, HICET.	Subject Expert
8	Ms Princy N	Assistant Professor, Department of Food Technology, HICET.	Member
9	Mrs Nageswari G	Assistant Professor, Department of Food Technology, HICET.	Member
10	Mrs Neethu C S	Assistant Professor, Department of Food Technology, HICET.	Member
11	Mr Dillwyn S	Assistant Professor, Department of Food Technology, HICET.	Member
12	Ms.T.Nivetha	Assistant Professor, Department of Food Technology, HICET.	Member
13	Ms. Priyadharshini S	Assistant Professor, Department of Food Technology, HICET.	Member
14	Ms. S.Magitta Sherine,	Student, Department of Food Technology, HICET	Student Member
15	Ms. C.Ronitalini	Student, Department of Food Technology, HICET	Student Member
16	Ms.G.Kanishka	Student, Department of Food Technology, HICET	Student Member
17	Ms.k.Kaviya	Student, Department of Food Technology, HICET	Student Member
18	Mr. R. Shellamuthu	Parent	Parent Member

- The chairman of the BoS, **Dr Jeevarathinam G** welcomed University Nominee, subject experts, special invitees and all the internal members for the VIth Board of Studies meeting. The chairman introduced the BoS members.
- The Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during 10.07.2021 was approved.
- The chairman gave an outline of the views expressed by the members of Pre - Board of Studies meeting (Pre-BoS)/ Department Advisory Committee (DAC) and Curriculum Development Cell (CDC) related to the curriculum and syllabus. The Board of Studies member's suggestion has been sought in this regard.
- The curriculum and syllabus for the new courses under VIIIth semester of regulation 2016 and II, IV & VI semesters of regulation 2019 was presented by the Chairman and discussed.
- The Chairman discussed the scheme of curriculum under regulation 2019 for the students admitted from the academic year 2021-2022 onwards.

The following points were discussed.

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

For the Regulation 2016 curriculum and syllabus



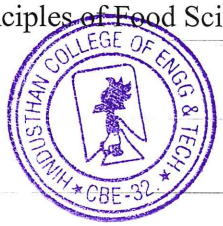
- The professional elective V courses recommended to introduce with course code and title in VIIIth semester as follows "16FT830X Drying Technology, 16FT830X Emerging Technologies in Food Processing, 16FT830X Modeling, Simulation and Soft Tools for Food Technologists, 16FT830X Analytical Instruments in Food Industries".
- The professional elective VI courses recommended to introduce with course code and title in VIIIth semester as follows "16FT830X Separation Techniques in Food Processing, 16FT830X Emerging Technologies in Food Processing, 16FT830X Economics and Management, 16FT830X Emerging non-thermal processing of foods".
- The new courses recommended to introduce with course code and title in VIIIth semester is 16FT890X Project.
- As per the discussion from the Pre-Board of Studies / DAC the value-added courses related to ETP & Waste Management with the duration of 35 hrs was recommended to conduct in VIIIth semester. I am put forth, the above mentioned course for BoS member's recommendation and approval and the same has approved by the members.
- The following skill development courses are introduced for members' approval.
    - 16FT8301 - Drying Technology
    - 16FT8302 - Emerging Technologies in Food Processing
- The following employability courses are introduced for members' approval.
    - 16FT8304- Analytical Instruments in Food Industries
    - 16FT8306 - Waste Management and By-Product Utilization in Food Industries

For the Regulation 2019 curriculum and syllabus

- The Chairman also mentioned the revision of Regulation 2019, which meets on higher order thinking levels.
- The chairman presented the curriculum and syllabus for the II, IV, & VI along with electives, value added course and Certificate course.
- Suggested to include milk powder using drum and spray dryer, probiotics in Unit IV and Applications of Non-thermal processing in Dairy industry in Unit V of 19FT620X Dairy Engineering in sixth semester.
- Suggested to modify the contents of Unit III, IV and V of 19FT620X Plantation Crops and Spices Products Technology in sixth semester.
- Suggested to include the topic "Cryogenic Grinding" in Unit II of 19FT620X Plantation, Crops and Spices Product Technology course.
- As per discussion, Minimal Processing can be included in Unit IV of 19FT620X Fruits and Vegetable Processing Technology course of VI Semester.



- Suggested to change the title of the Unit I from Harvest and Handling to Harvesting, handling and storage of fresh fruits and vegetables, and to modify Unit IV with contents in 19FT620X Fruit and Vegetable Processing Technology course of sixth semester.
- Suggested that, in 19FT6XXX Dairy Engineering Laboratory, the experiment on total milk protein can be replaced with designing of dairy equipment and suggested to include 2 more experiments.
- Suggested that, in 19FTXXXX Fruits and Vegetable processing lab, the term 'Preparation' of can be changed to technical term and suggested to modify 6 experiments.
- Suggested to include the types of frying like Vacuum frying in the 19FT630X Technology of Snacks and Extruded Foods course.
- Suggested that 19FTXXXX Food Product development can be recommended as professional elective instead as open elective and Agriculture Process Machineries / Post-Harvest Technology of Fruits and Vegetables can be given as open elective in the seventh semester.
- Suggested that, 19FTXXXX Processing Technology of Legumes and Oilseeds can be included in Professional elective-III of seventh semester.
- Suggested that, 19FTXXXX Entrepreneurship Opportunities for Food Technologists can be included in the professional elective of VIIIth semester.
- Discussion held related to inclusion of new innovative courses and Professional electives.
- 19FT630X Crop Process Engineering in Professional Elective II, 19FT730X Emerging Non-Thermal Processing of Foods in Professional Elective III and 19FT83XX Total Quality Management in Professional Elective V can be introduced as new professional electives.
- Suggested to include the following subjects in the VIth semester with the subject code and title for the students admitted from 2019-20 onwards.
    - 19FT620X Dairy Engineering
    - 19FT620X Plantation crops and Spices Products Technology
    - 19FT620X Fruits and Vegetable Processing Technology
    - 19FT6XXX Professional Ethics in Engineering
    - 19FT600X Dairy Engineering Laboratory
    - 19FT60OX Fruits and Vegetable Processing Technology Laboratory
    - 19FT6XXX Industrial Training
    - 19HE6XXX Soft Skills – II
    - 19HE6XXX Intellectual Property Rights (IPR)
- Suggested that, 19FTXXXX Traditional Foods can be replaced as open elective for Principles of Food Science course in the sixth semester.



- The professional elective II courses recommended to introduce with course code and title in VIth semester as follows "19FT6XXX Beverage Technology, 19FT6XXX Technology of Snack and Extruded Foods, 19FT6XXXX Food Biotechnology, 19FT6XXX Bioprocess Engineering, 19FT6XXX Enzyme Technology, 19FT6XXX Crop Process Engineering".
- The open elective I course recommended to introduce with course code and title in VIth semester as follows "19FT6XXX Traditional Foods".
- The Chairman explained about the swapping of Food Process Calculation to professional elective and Refrigeration and Cold chain Management to IVth semester and its importance to BoS members.
- Suggested to include introduction to unsteady state heat transfer in Unit I and concept of Mass transfer coefficients in Unit V of 19FT4201 Fundamentals of Heat and Mass transfer.
- Suggested to rename Unit I Introduction as Unit I Basics in the 19FTXXXX Refrigeration and cold chain management Course of IVth semester and suggested to include ecofriendly refrigerants in Unit I and reefer vans in Unit V.
- As per discussion in Pre-Board of studies meeting / DAC, "Introduction to Psychrometry and its basics" can be included in the Unit I of 19FTXXXX Refrigeration and cold chain management Course.
- The Chairman defined about the introduction of some new topics in Fundamentals of Heat & Mass Transfer in the upcoming IV Semester.
- The Chairman also defined the "Applications of Rheological Properties in Food Processing in Unit IV and Applications of textural properties in Food Processing" topics added in 19FT4203 Engineering Properties of Food Materials.
- Suggested to include some mechanical properties in Unit – I of 19FT4203 Engineering Properties of Food materials course. And, they insisted to give the course in the order of Mechanical, Structural and Rheology characteristics.
- MSME offers intern come placement for third and final year students that can be utilized. Due to COVID pandemic situation the intern from MSME can also be considered for obtaining the credit of 19FT6701 Industrial Training.
- The career guidance level – II (Personality, Aptitude and Career Development) was introduced in the IInd semester by the Curriculum Development Cell (CDC) was approved by the BoS members and moved to the Academic Council.
- The career guidance level – IV (Personality, Aptitude and Career Development) was introduced in the IVth semester by the Curriculum Development Cell (CDC) was approved by the BoS members and moved to the Academic Council.



- The courses recommended with course code and title in IV semester for the students admitted from 2020-21 onwards as follows "19FT420X Fundamentals of Heat and Mass Transfer, 19FT420X Engineering properties of food materials, 19FT420X Refrigeration and Cold Chain Management, 19FT42XX Food Chemistry, 19MA4XXX Statistics and Numerical Methods, 19FT400X Unit Operations Laboratory, 19FT400X Food Process Equipment Design Laboratory".
- The other mandatory courses recommended from Curriculum Development Cell (CDC) are 19MC4191 Essence of Indian tradition knowledge/Value Education, 19HE4072 Career Guidance Level – IV Personality, Aptitude and Career Development and 19HE4073 Ideation Skills.
- The courses recommended with course code and title in II semester for the students admitted from 2021-22 onwards as follows "21HE2101 Business English for Engineers, 21MA2101 Differential Equations and Complex Variables, 21FT2105 Principles of Microbiology, 21IT2151 Programming in C, 21PH2151 Material Science, 21CY2151 Environmental Studies, 21ME2001 Engineering Practices Lab, and 21HE2001 Language Competency Enhancement course – II".
- The other mandatory courses recommended from Curriculum Development Cell (CDC) are 21HE1072 Career Guidance Level-II (Personality, Aptitude and Career Development), 21HE2073 Entrepreneurship & Innovation".

General recommendations:

1. University Nominee suggested to participate in online certificate and training courses that will explore the knowledge of students.
2. Subject experts suggested to provide industry integrated value added courses/certificate courses.
3. The industry expert and BoS members suggested and recommended to include New era Technology courses and courses like "Computer Applications related to Food Industry" with the duration of 35 hrs can during 4,6 and 8th Sem. I am put forth, the above mentioned course can move to Academic Council Members for approval by the BoS members of Food Technology.

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

<u>Regulation 2016</u>

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

HINDUSTHAN COLLEGE OF ENGG & TECH * CBE-32 *

- The curriculum and syllabi of Regulation 2016 for the VIIIth semester were introduced for the Food Technology program for the students admitted the academic year 2018-2019 and onwards was permitted to move on to Academic Council.
- Chairman has confirmed that, the suggestions given by the subject experts will be considered in R2016 and the syllabus will be updated based on the suggestions given in this BoS meeting.
- Chairman conveyed that, the suggestions given by the Previous Board of Studies meeting were ratified and resolved.

For Regulation 2019

- In almost all the courses, changes have been done as per the current needs.
- Syllabus of Regulation 2019 for the II semester subjects- 21HE2101, 21MA2101, 21FT2105, 21IT2151, 21PH2151, 21CY2151, 21ME2001 were introduced and passed by Science and Humanities, Mechanical Engineering, Information Technology, Food Technology board and permitted to move on Academic Council by the BoS members of Food Technology for the students admitted during the academic year 2021-2022 onwards.
- Chairman conveyed that, the Suggestions given by the Board of Studies members are to be forwarded to Science and Humanities, Computer Science and Engineering, and Mechanical Engineering Boards and incorporated in Regulation 2019.
- The syllabi of IV & VI semester of the UG Programme for the students admitted during the academic year 2020 – 2021, 2019-20 and onwards was passed and permitted to move on Academic Council.
- The following courses were introduced for member's approval.
- 19FT6306 Crop Process Engineering in Professional Elective II, 19FT7307 Emerging Non-Thermal Processing of Foods in Professional Elective III and 19FT8312 Total Quality Management in Professional Elective V and it was approved by panel members.
- Percentage of courses where syllabus revision was carried out in BoS:

➢ In "19FT4201 - Fundamentals of Heat and Mass transfer", 15% syllabus change has been made based on the feedback of Stakeholders.

➢ In "19FT4204 - Refrigeration and Cold chain Management", 15% syllabus revision was made with relevant topics.

➢ In "19FT4203 - Engineering Properties of Food Materials", 6% revision has been made.

➢ In "19FT6201 - Dairy Engineering", 9% syllabus revision has been done.

➢ In "19FT6202 - Plantation crops and Spices Products Technology", 15% syllabus change has been made based on the feedback of Stakeholders.



- In "19FT6001 - Dairy Engineering Laboratory" - 16% revision has been done.
- In "19FT6002 - Fruits and Vegetable Processing Technology", 64% revision has been done.

- Introduction of new Courses:
  - 19FT6306 Crop Process Engineering
  - 19FT7307 Emerging Non-Thermal Processing of Foods
  - 19FT8312 Total Quality Management
- Chairman thanked all the members for spending their valuable time in giving suggestions for all the courses.

The meeting came to an end at 12.00 pm with vote of thanks.

Chairman
Board of Studies

Chairman - BoS
FT - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2019
4. Curriculum and Syllabi

Copy:

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

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DEPARTMENT OF CHEMICAL ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Chemical Engineering** **Date:** 10.07.2021

The Fourth Board of Studies meeting of regulation 2019 for the academic year 2021-2022 ODD Semester was conducted on 10.07.2021 at 11.30 a.m. in the Hindusthan College of Engineering and Technology through google meet (https://meet.google.com/xei-wtix-stx).

The following members were present:

S.No.	Name of the Member	Position
1.	**Dr Seenuvasan M** Professor & Head, Department of Chemical Engineering, HICET.	Chairman
2.	**Dr Venkatesan S** Professor and Head Department of Petrochemical Technology University College of Engineering Bharathidasan Institute of Technology (BIT) Campus Anna University, Tiruchirappalli	University Nominee
3.	**Dr Prabhakaran D** Professor, Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore	Academic Expert
4.	**Dr Parthiban R** Professor and Head, Department of Chemical Engineering, SSN College of Engineering, Rajiv Gandhi Salai (Old Mahabalipuram Road, SSN Nagar, Kalavakkam Chennai.	Academic Expert
5.	**Dr Tamilarasan K** Associate Professor, Department of Chemical Engineering, SRM Institute of Science and Technology, Kattankulathur, Chennai.	Academic Expert
6.	**Dr Raja T** Professor, Department of Chemical Engineering, Engineering Department, Salalah College of Technology, Salalah 211, Sultanate of Oman, Oman.	Academic Expert
7.	**Mr Sivanesan K** Asst. Manager, LSFM , (TNPL Cement), Kagithapuram, Karur.	Industry Expert

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

8.	**Mr Rajkumar A** Assistant Professor Department of Chemical Engineering, HICET	Member
9.	**Ms Induja P** Assistant Professor Department of Chemical Engineering, HICET	Member
10.	**Mr Gokul Jothi R** Student, Department of Chemical Engineering, HICET	Student Member
11.	**Ms Nayana Merin M** Student, Department of Chemical Engineering, HICET	Student Member
12.	**Mr Varghese T Mammen** Parent	Parent Member

- The Chairman-BoS welcomed the University nominee, Subject Experts, special invitees and all the internal members for the Fifth Board of Studies meeting.
- Chairman presented the suggestions given by the experts and the action taken report of the previous BoS meeting held on 30.01.2021. Members of the BOS approved the same.
- The feedback 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 Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC) based on the recommendations received from Curriculum Development Cell and emphasized the importance of curriculum to be in line with the industry needs.
- Chairman explained about the additional credit course for NCC Cadets for all the UG Programmes (for the batch going to be admitted in 2021-2022 AY onwards).
- As recommended by Pre- BoS/ DAC members, syllabus revision/updation under regulation 2019 (ODD Sem) in Fluid Mechanics for Chemical Engineers were discussed in the meeting.
- The curriculum and syllabus for the new courses under V semester was presented by the Chairman and discussed.

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

1. In "19CH3202–Fluid Mechanics for Chemical Engineers" recommended 30% revisions and updates in Unit – II, III and IV (For the Batch 2021 – 2025).
2. The new courses introduced, Chemical Reaction Engineering – I (19CH5201), Mass Transfer – II (19CH5202), Process Instrumentation Dynamics and Control (19CH5203), Safety in Chemical Industries (19CH5204), Water Treatment and Solid

HINDUSTHAN COLLEGE OF ENGG & ★CBE-32★

Waste Management (19CH5251), Mass Transfer Lab (19CH5001), Process Control Lab (19CH5002) as Professional Core Courses and "Energy Technology(19CH5301), Petroleum Technology (19CH5302), Electrochemical Engineering (19CH5303), Polymer Technology (19CH5304), Food Technology (19CH5305) as Professional Electives, Soft Skills-I (19HE 5071), Design Thinking (19HE5072), Leadership Management Skills (19HE3073) Courses under Employability Enhancement are recommended.

Skill Development courses introduced for member's approval.

- 19CH5301 - Energy Technology
- 19CH5201 - Chemical Reaction Engineering – I

Employability courses introduced for member's approval.

- 19CH5305 - Food Technology
- 19HE5072 - Design Thinking
- 19CH5303- Electrochemical Engineering

The following value added and certificate courses with the duration of minimum 30 hrs each are introduced as suggested.

- Bulk Solid Handling for Chemical Engineers
- Fundamentals of AI and its Chemometric Applications
- Learnathon

General Recommendations:

1. Provide more industry exposure to the students (Industrial training, industry people guest lectures and so on).
2. Provide international exposure to the students (International lectures, international visit and so on).
3. Create opportunities for the Students to participate in many online certification courses.
4. Provide certification courses related to safety and hazards.

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

For Regulations 2019:

- The curriculum and syllabus for the V semester was passed by the Chemical Engineering board and permitted to move on Academic Council by the BoS members of Chemical Engineering for the students admitted during the academic year 2019-2020 and onwards.



- The curriculum and syllabi of 2019 with revision and updation for the III semester Courses of B.Tech Chemical Engineering program for the students admitted during the academic year 2020-2021 and onwards was suggested to move on to Academic Council.

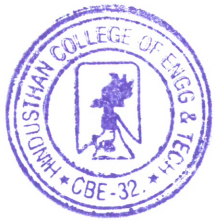
- As recommended by curriculum development cell Soft Skills-I, Soft Skills – II, Design Thinking and IPR will be introduced in V^{th} and VIth Semesters as new single credit courses within the curriculum, to compensate these additional four credits VIII semester project total credit reduced from 12 to 8 for the batch 2019-23 onwards and was suggested to move on to Academic Council.

- As recommended by the Curriculum Development Cell and passed by the board of Chemical Engineering, As per the AICTE guideline, in Semester I, II, III & IV NCC one credit subject is added as Value Added Course with Extra Credit. Further, the students' who enrolled his name in HICET NCC and Air Wing are eligible to undergo this subject. The earned extra credits may be printed in the Consolidated Mark sheet as per the regulation. The same was suggested to move on to Academic Council.

- As recommended by curriculum development cell and passed by the board of Chemical Engineering, NCC course level 1 & Level 2 to be added in the open elective subject in the appropriate semester. Further, the students' who have opted NCC subjects in Semester I, II, and III & IV are eligible to undergo NCC Open Elective Subjects. The same was suggested to move on to Academic Council.

- As recommended by curriculum development cell and passed by the board of Chemical Engineering the life skill courses General Studies for Competitive Examinations (19LSZ401), Human Rights, Women's Rights and Gender Equality (19LSZ402), Indian Ethos and Human Values (19LSZ403), Indian Constitution and Political System (19LSZ404) and Yoga for Human Excellence (19LSZ405) and permitted to move on Academic Council by the BoS members of Chemical Engineering for the students admitted during the academic year 2019-2020 and onwards.

- As recommended by curriculum development cell and passed by the board of Chemical Engineering, In Semester I & II -Three Employability Enhancement Subjects (Career Guidance 1&2 + Entrepreneur & Innovation) are added with in the curriculum as Mandatory Course with Zero Credit, in Semester III – Two



Employability Enhancement Subjects (Career Guidance 3 & Leadership Management Skills) are added within the curriculum as Mandatory Course with Zero Credit and In Semester IV – Two Employability Enhancement Subjects (Career Guidance 4 & Ideation Skills) are added within the curriculum as Mandatory Course with Zero Credit for the batch admitted during 2020 – 2024 onwards and permitted to move on Academic Council by the BoS members of Chemical Engineering

- The meeting ended with thanks to the Chair at 2.00PM.

Chairman
Board of studies

Chairman - BoS
CHE - HiCET

Enclose:

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DEPARTMENT OF CHEMICAL ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Chemical Engineering** **Date: 28.01.2022**

The Fifth Board of Studies meeting of regulation 2019 for the academic year 2021-2022 Even Semester was conducted on 28.01.2022 at 11.00 a.m. in the Hindusthan College of Engineering and Technology through google meet (https://meet.google.com/zap-ncen-xdq).

The following members were present:

S.No.	Name of the Member	Position
1.	**Dr Seenuvasan M** Professor & Head, Department of Chemical Engineering, HICET.	Chairman
2.	**Dr Venkatesan S** Professor and Head Department of Petrochemical Technology University College of Engineering Bharathidasan Institute of Technology (BIT) Campus Anna University, Tiruchirappalli	University Nominee
3.	**Dr Prabhakaran D** Professor, Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore	Academic Expert
4.	**Dr Parthiban R** Professor and Head, Department of Chemical Engineering, SSN College of Engineering, Rajiv Gandhi Salai (Old Mahabalipuram Road, SSN Nagar, Kalavakkam Chennai.	Academic Expert
5.	**Dr Tamilarasan K** Associate Professor, Department of Chemical Engineering, SRM Institute of Science and Technology, Kattankulathur, Chennai.	Academic Expert
6.	**Dr Raja T** Professor, Department of Chemical Engineering, Engineering Department, Salalah College of Technology, Salalah 211, Sultanate of Oman, Oman.	Academic Expert
7.	**Mr Sivanesan K** Asst. Manager, LSFM , (TNPL Cement), Kagithapuram , Karur.	Industry Expert

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8.	**Mr Rajkumar A** Assistant Professor Department of Chemical Engineering, HICET	Member
9.	**Ms Induja P** Assistant Professor Department of Chemical Engineering, HICET	Member
10.	**Mr Dinesh Kumar M** Assistant Professor Department of Chemical Engineering, HICET	Member
11.	**Mrs Fetcia Jackulin C** Assistant Professor Department of Chemical Engineering, HICET	Member
12.	**Ms Drisya G Chandran** Assistant Professor Department of Chemical Engineering, HICET	Member
13.	**Mr Gokul Jothi R** Student, Department of Chemical Engineering, HICET	Student Member
14.	**Ms Nayana Merin M** Student, Department of Chemical Engineering, HICET	Student Member
15.	**Mr Varghese T Mammen** Parent	Parent Member

- The Chairman-BoS welcomed the University nominee, Subject Experts, special invitees and all the internal members for the Sixth Board of Studies meeting.
- Chairman presented the suggestions given by the experts and the action taken report of the previous BoS meeting held on 10.07.2021. 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 Pre- Board of Studies (Pre- BoS)/ Department Advisory Committee (DAC) and emphasized the importance of curriculum to be in line with the industry needs.
- The Chairman also mentioned the change in current Regulation, which meets on higher order thinking levels.
- Chairman explained about the newly introduced course "Computer Applications in Chemical Engineering" and its importance to BoS members.
- Chairman indicated that two electives were merged in the current curriculum such as Petroleum Technology and Petroleum Exploration and Exploitation Techniques.
- Chairman explained the simulation based long term workshop for the students, and recommended the same as equal to one week industrial training.
- As recommended by Pre- BoS/ DAC members, syllabus revision/updation under regulation 2019 (EVEN Sem) in Process Heat Transfer, Chemical Engineering Thermodynamics– II, Mass Transfer- I were discussed in the meeting.
- Chairman also defined about the state-of-the-art topics added in Mass Transfer- I and in Process Heat Transfer Courses.

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

- Completed and ongoing value-added courses were discussed in the meeting.
- The curriculum and syllabus for the new courses under VI semester was presented by the Chairman and discussed.

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

1. In "19CH4201 - Process Heat Transfer" recommended to incorporate the recent technologies with 20% syllabus revisions and updates in Unit –I, III and IV and the inclusion of state-of-the-art content as proposed by Pre- BoS/ DAC.
2. In "19CH4202- Mass Transfer – I", 10 % syllabus revision has been recommended for the inclusion of design of cooling tower and State of the Art.
3. In "19CH4203 - Chemical Engineering Thermodynamics – II" recommended 10% syllabus revisions and updates in Unit-V as proposed by Pre- BoS/ DAC.
4. The new courses introduced, Chemical Reaction Engineering– II (19CH6201), Chemical Process Industries (19CH622) & Professional Ethics in Engineering (19CH6181), Fluidization Engineering (19CH6251), Chemical Reaction Engineering Lab (19CH6001) and Internship/Industrial Training (19CH6701) as Professional Core Courses, Petroleum Exploration and Exploitation Techniques (19CH6301), Enzyme Engineering (19CH6302), Fundamentals of Nano Science (19CH6303), Corrosion Science and Engineering (19CH6304) & Piping and Instrumentation (19CH6305) as Professional Elective Courses, Waste to Energy Conversion (19CH6401) as open elective, Career Guidance Level – IV (21HE4072) For the Batch 2021 – 2025 & For the Batch 2020 – 2024 (19HE4072), Ideation Skills (21HE4073) For the Batch 2021 – 2025 & For the Batch 2020 – 2024, 19HE4073) as non-credit mandatory courses, Soft Skills – II (19HE6071) & Intellectual Property Rights (IPR) (19HE6072) as mandatory courses are recommended.
5. The additional credit course Fundamentals of AI and it's Chemometric Applications is recommended as value added course

Skill Development courses introduced for member's approval.

- 19CH6302 - Enzyme Engineering
- 19CH6251 - Fluidization Engineering
- 19CH6303 - Fundamentals of Nano Science

Employability courses introduced for member's approval.

- 19CH6301 - Petroleum Exploration and Exploitation Techniques
- 19CH6304 - Corrosion Science and Engineering



General Recommendations:

1. Recommended to arrange more skill development opportunities for the students.
2. Recommended for more ICT enabled teaching and learning practice.

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

- The curriculum and syllabus for the VI semester was passed by the Chemical Engineering board and permitted to move on Academic Council by the BoS members of Chemical Engineering for the students admitted during the academic year 2019-2020 and onwards.
- The curriculum and syllabi of 2019 with revision and updation for the IV semester Courses of B. Tech Chemical Engineering program for the students admitted during the academic year 2020-2021 and onwards was suggested to move on to Academic Council.
- The syllabus for Semester – II and if any revision and updation under regulation 2019 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 Chemical Engineering.
- Online certificate courses under NASSCOM 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 ICT Learnathon online certificate course during the month of July 2021. BOS Members recommended the same and was suggested to move on to Academic Council.
  The meeting ended with thanks to the Chair at 1.30PM.

Chairman

Board of Studies

Chairman - BoS
CHE - HiCET

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Valley Campus, Pollachi Highways, Coimbatore, Tamil Nadu.

Date: 10.07.2021

BOARD OF STUDIES MEETING

Name of the Department: **Artificial Intelligence and Machine Learning**

The Third meeting of the Board of Studies in the Department of Artificial Intelligence and Machine Learning undergraduate programme was conducted on 10th July 2021 at 10:00 am in the Online Mode (Google Meet: meet.google.com/gxa-mchc-afg).

The following members were present:

S. No.	Name of the Person	Department	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. Mobile: 9486939882 E-Mail id: thulasimani@gcetly.ac.in	University Nominee
3	**Dr Marikkannan M** Ass. Professor(Senior)	Dept of CSE, Institute of Road and Transport Technology, Erode - 638316. Mobile: 9443851839, 9095909111 Mail id: mmk.irtt@gmail.com	Subject Expert
4	**Dr Sivaganesan D** Professor	Department of Computer Science and Engineering, PSG Institute of Technology and Applied Research, Coimbatore. Mobile: 9942237029 E-Mail id: sivaganesand@gmail.com	Subject Expert

5	**Mr Rajesh Kumar H** Founder	BuzzTech Training Institute, Coimbatore. Mobile: 9840123422 E-Mail id: rajesh.karthi79@gmail.com	Industry Expert
6	**Ms Vidhya Sri T** Director - Institute Relations and HR	International Business Machines (IBM) Corporation, Coimbatore Mobile: 9524239135 E-Mail id: prgm@adroittechnologies.in	Industry Expert
S. No.	**Name of the Person**	**Department**	**Position**
7	**Dr Prakash P** Associate Professor	School of Computer Science and Engineering, VIT Chennai. Mobile: 9884814492 E-Mail id: npprakash@gmail.com	Member from QIS rated Institution
8	**Dr Jameer Basha A** Professor & HOD	Department of Computer Science and Engineering, Hindusthan Institute of Technology. Mobile: 9443403786 E-Mail id: jameer@hit.edu.in	Member from sister concern
9	**Dr Dhiyanesh B** Associate Professor	Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Member
10	**Mr Satheesh Kumar D** Assistant Professor	Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Member
11	**Ms Revathi M** Assistant Professor	Department of Computer Science and Engineering Hindusthan College of Engineering and Technology	Member
12	**Ms Ramya Devi M** Assistant Professor	Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Member

HINDUSTHAN COLLEGE OF ENGG & TECH * CBE-32 *

13	**Mr Nishit Bohra M**	20115035 - I B.Tech AI&ML	Student Member
14	**Mr Mukesh Kumar Bohra**	F/o. Mr. Nishit Bohra M I B.Tech AI&ML	Parent Member

*** Note:**

Due to the preoccupied schedule Mr Nishit Bohra M and Mr Mukesh Kumar Bohra did not attend the meeting.

The chairman of the BoS, **Dr Shankar S** welcomed all the members for the Board of Studies meeting and thanked the Management, Chief Executive Officer, and Dean for giving permission to conduct this meeting. The chairman introduced the BoS members.

The Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during 30.01.2021 was approved.

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

The Chairman also gave an outline of the changes to be made in the curriculum given by the Pre- Board of Studies (Pre- BoS)/ 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.

Also, the following points were discussed.

. *For **2020-2024** batch students, the following courses have been introduced*

- In Semester I & II – Three Employability Enhancement Subjects (19HE1072 Career Guidance - Level I, 19HE1073 Entrepreneurship & Innovation and 19HE2072 Career Guidance - Level II) added within the curriculum as Mandatory Course with Zero Credit
- In Semester III – Two Employability Enhancement Subjects (19HE3072 Career Guidance - Level III and 19HE3073 Leadership Management Skills) added within the curriculum as Mandatory Course with Zero Credit
- In Semester IV – Two Employability Enhancement Subjects (19HE4072 Career Guidance – Level IV and 19HE4073 Ideation Skills) added within the curriculum as Mandatory Course with Zero Credit

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

- In Semester V – 19HE5071 Soft Skill - I and 19HE5072 Design Thinking new subjects added with the weightage of each 1 Credit under Employability Enhancement Course – Total 2 Credits
- In Semester VI – 19HE6071 Soft Skill -II and 19HE6072 Intellectual Property Rights (IPR) new subjects added with the weightage of Each 1 Credit under Employability Enhancement Course – Total 2 Credits
- Also the credit for Project in VIII semester has been reduced from 12 to 8.

*3. For **2021-2025** batch students, the following courses have been introduced*

- As per the AICTE guideline, in Semester I, II, III & IV NCC one credit subject is added as Value Added Course with Extra Credit. Further, the students who enroll in HiCET NCC and Air Wing are eligible to undergo this subject. The earned extra credits will be printed in the Consolidated Mark sheet as per the regulation.
- NCC course level 1 & Level 2 will be added in the open elective subject in the appropriate semester. Further, the students who have opted NCC subjects in Semester I, II, III & IV are eligible to undergo NCC Open Elective Subjects.
- The above mentioned NCC Courses will be offered to the students admitted from Academic Year 2021 - 2022 onwards.

4. Skill based subjects, EEC (Employability Enhancement Course) and Entrepreneurship & Innovation subjects are introduced.

1. Employability courses introduced for member's approval.

✔ 19AI3002 - Artificial Intelligence Laboratory

✔ 19AI4201 - Database Management System

2. Skill Development courses introduced for member's approval.

✔ 19AI3201 - Data Structures and Algorithms

✔ 19AI3202 -Foundations of Artificial Intelligence

5. The following Discussion on Curriculum and Syllabus took place:

- Anna University Nominee **Dr Thulasimani K** suggested grouping the laboratory experiments based on the usual list as per Anna University syllabi.
- Academic Expert **Dr Marikkannu P** suggested revamping the syllabus of laboratory courses.



- Academic Expert **Dr Jameer Basha A** suggested to include mini project in Database Management Systems Laboratory.
- Industry Expert **Mr Rajesh Kumar H** suggested to include more number of scenario based experiments in Database Management Systems Laboratory.
- Industry Expert **Ms Vidhya Sri T** suggested to change the Data Structures Laboratory experiments by providing real time scenario based questions to make students understand which data structure to be used where.
- Academic Expert **Dr Prakash P** appreciated Head of the Department for the hard work which was put forth for conducting BOS meeting. He also appreciated the inclusion of certain scenario based laboratory courses as well as Employability Enhancement courses.

6. The following resolutions were made in the Board of Studies meeting:

- The syllabi of I & II semester of B.Tech Artificial Intelligence and Machine Learning program for the students admitted during the academic year 2021 - 2022 and onwards was passed and permitted to move on the Academic Council.
- The syllabi of III & IV semester of B.Tech Artificial Intelligence and Machine Learning program for the students admitted during the academic year 2020 - 2021 and onwards was passed and permitted to move on the Academic Council.
- Chairman conveyed that the suggestions given by the Board of Studies members are to be incorporated.

Chairman thanked all the members for spending their valuable time and giving suggestions for all the courses.

The meeting came to an end at 11:00 am with a vote of thanks.

Chairman
Board of Studies

Chairman - BoS
AIML - HiCET

Enclose:
1. Previous BoS Minutes-ATR
2. Copy of Regulation 2019
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

(An Autonomous Institution, Affiliated to Anna University, Chennai
Approved by AICTE, New Delhi & Accredited by NAAC with 'A' Grade)
Valley Campus, Pollachi Highways, Coimbatore, Tamil Nadu.

Date: 16.04.2021

BOARD OF STUDIES MEETING

Name of the Department: **Electrical and Electronics Engineering**

The Second Board of Studies meeting for the ME Applied Electronics programme of Regulation 2020 for the academic year 2021-2022 was conducted on 16.04.21 at 10.30 am in ONLINE mode through Google Meet.

The following members were present.

S. No	Name of the Person	Department	Position
1	Dr.N.P.Ananthamoorthy	Professor / Head, Department of Electrical and Electronics Engineering Hindusthan College of Engineering and Technology	Chairman
2	Dr. R.L. Josephine	Assistant Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli-620 015.	University Nominee
3	Dr. L. Ashok Kumar	Professor, Department of Electrical and Electronics Engineering, PSG College of Technology, Coimbatore - 641 004.	Academic Expert
4	Dr. S. Balamurugan	Professor & Chairperson, Electrical and Electronics Engineering, Amrita Vishwa Vidyapeetham School of Engineering, Coimbatore-641 112	Academic Expert
5	Er. R. Shantharam	Managing Director, Electronic Signals & Controls, New No.7, V.K.R. Nagar, Vilankurichi Road, Coimbatore - 641 004.	Representativefr omIndustry
6	Mr. R. ShanmughaPrabu	Branch Manager, Sew- Eurodrive India Private Limited, 687, Sri Sakthivel Towers, 1 st Floor,	Alumni Member

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

		Trichy Road, Ramanathapuram, Coimbatore- 641 045.	
7	Dr. K.Sekar	Associate Professor, Department of Electrical and Electronics Engineering, Hindusthan College of Engineering and Technology.	Member
8	Dr. R. RajeshKanna	Associate Professor, Department of Electrical and Electronics Engineering, Hindusthan College of Engineering and Technology.	Member
9	Mr. M.P.Viswanathan	Assistant Professor, Department of Electrical and Electronics Engineering, Hindusthan College of Engineering and Technology,	Member
10	Mr. G.Muthuram	Assistant Professor, Department of Electrical and Electronics Engineering, Hindusthan College of Engineering and Technology,	Member

- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the Second 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) and emphasized the importance of including the Audit courses in the curriculum
- The feedback received on the curriculum by the stakeholders was presented
- The Chairman conveyed to the members that, Based on Regulation 2016, we introduce the Curriculum for I – IV semesters of M.E, Applied Electronics.

Recommendations by BoS members (Subject Related)

The chairman presented and requested the board members to accept the syllabi of Regulation 2020 for III to IV semester subjects which were passed by the Electrical and Electronics Engineering board.

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

- The curriculum and syllabi of these semesters were reviewed and accepted without any changes
- In "20AE3302 – An introduction to Electronics system packaging", 20% syllabus revision has been undertaken.
- In "20AE3305 – Electronics for solar power", 10% syllabus revision has been made based on feedback of stakeholders.
- In "20AE3401 - Robotics", 10% syllabus revision was made with relevant topics.

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 curriculum and syllabus of Regulation 2020 for I and II semester subjects were reviewed and permitted to move on the Academic Council by the BoS members of Electrical and Electronics Engineering for the students admitted during the academic year 2021-2022 onwards.
- The curriculum and syllabus of Regulation 2020 for III and IV semester subjects were introduced and passed by the Electrical and Electronics Engineering board and permitted to move on Academic Council by the BoS members of Electrical and Electronics Engineering for the students admitted during the academic year 2020-2021 onwards.

The meeting ended with a vote of thanks by the Chairman at 12.00 P.M.

Chairman

(Board of Studies)

Chairman - BoS
EEE - HiCET

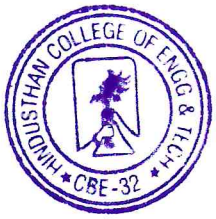
HINDUSTHAN COLLEGE OF ENGG & TECH ★ CBE-32 ★

Enclose:

1. Pre-Board of studies/ DAC meeting Minutes
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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Valley Campus, Pollachi Highways, Coimbatore, Tamil Nadu.

Date: 08.07.2021

MINUTES OF BOARD OF STUDIES MEETING

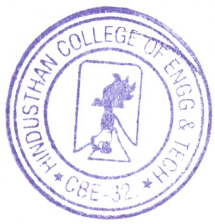
Name of the Department: **Electronics and Communication Engineering**

The meeting of the Board of Studies in Department of Electronics and Communication Engineering for ME Communication Systems Postgraduate programme was conducted on 09th July 2021 at 10.00 am in the Online Mode (Google Meet).

The following members were present:

S.No	Name of the Person	Department	Position
1.	Dr.P.Rajeswari, 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 in charge, PSG College of Technology, Coimbatore-641 004.	ECE Dept	Subject Expert
5.	Ms. Jebaselvi Johnson, PrimeSoc Technologies, Chennai.	CEO	Industry Expert
6.	Ms. T. Vidhya Sri, Institute Relations and HR, Adroit technologies Innovation Solutions (IBM Partner), Coimbatore.	Director	IBM Partner
7.	Dr. R. Michaelraj Kingston, Associate Professor, Sri Eshwar College of Engineering, Coimbatore.	ECE Dept	Alumni Member

8.	Dr.M.Pachiyaannan, Associate Professor of Electronics Engineering, Vignan's foundation for Science,Technology and Research,	ECE Dept	Member from QIS rated Institution



	Guntur, AndraPradesh		
9.	Dr.B.Paulchamy, Professor Hindusthan Institute of Technology	ECE Dept	Member from sister concern
10.	Dr.R.Sabitha Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
11.	Dr. P.Vijayalakshmi, Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
12.	Mr.B.Veerasamy Associate Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
13.	Dr.P.F.KhaleelurRahiman Asst Professor Hindusthan College of Engineering and Technology	ECE Dept	Member
14.	Dr.P.Geetha Asst Professor Hindusthan College of Engineering and Technology	ECE Dept	Autonomous Coordinator
15.	Ms.A.Mizpah Hephzibah IV ECE B Hindusthan College of Engineering and Technology	ECE Dept	Student Member
16.	Mr.Naveen R III ECE B Hindusthan College of Engineering and Technology	ECE Dept	Student Member
17.	Anumol A A II ECE Hindusthan College of Engineering and Technology	ECE Dept	Student Member

*Due to her preoccupied schedule, Ms.Jebaselvi Johnson, CEO, PrimeSoc Technologies, could not attend the meeting.

- The Chairperson of the BoS, Dr.P.Rajeswari welcomed all the dignitaries for the meeting and introduced the BoS members.
- The feedback received on curriculum by the stakeholders were presented.
- Followed by, the Chairperson presented the suggestions given by the experts in the previous BoS meeting held on 01.02.2021 and approved the action taken report of the previous BoS meeting

HINDUSTHAN COLLEGE OF ENGG & TECH * CBE-32 *

Recommendations by BoS members (Subject Related)

The syllabus for ME CS has been approved with no changes. The following resolutions were made in the Board of Studies meeting,

- The syllabi of I & II semester of the PG Programmes for the students admitted during the academic year 2021 - 2022 and onwards was passed and permitted to move on Academic Council
- The syllabi of III & IV semester of the PG Programmes for the students admitted during the academic year 2020 - 2021 and onwards was passed and permitted to move on Academic Councils.
- Percentage of Programmes where syllabus revision was carried out in BoS: Nil
- All the courses in the curriculum are framed based on Employability, Entrepreneurship and Skill Development context to meet the industry needs.
- Introduced Course :Nil
- Department specific Board of Studies resolutions/Common Suggestions: Nil

The meeting came to an end at 1.30 pm with a vote of thanks.

Chairman

(Board of Studies)

Chairman - BoS
ECE - HiCET

Enclose:

1. CDC Minutes
2. DAC meeting Minutes –ATR
3. Previous BoS Minutes-ATR
4. Copy of Regulation 2016R
5. Regulation 2019
6. 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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Valley Campus, Pollachi Highway, Coimbatore – 641032

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Date: 10.07.21

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Computer Science and Engineering**

The Board of Studies meeting for M.E Computer Science and Engineering Postgraduate programme of Regulation 2020 for the academic year 2021-2022 was conducted on 10.07.21 at 10.00 am in ONLINE mode thorough [Google Meet: meet.google.com/gxa-mchc-afg]

The following members were present.

S. No	Name of the Person	Department	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.Mobile: 9486939882 E-Mail id: thulasimani@gcetly.ac.in	University Nominee
3	Dr Sudha Sadasivam G Professor	Department of Computer Science and Engineering, PSG College of Technology,Coimbatore. Mobile: 9843112267 E-Mail id: sudhasadhasivam@yahoo.com	Subject Expert
4	Dr Surendiran B Assistant Professor	Dept of Computer Science and Engineering, National Institute of Technology, Puducherry. Mobile: 9942761363 E-Mail id: surendiran@gmail.com, surendiran@nitpy.ac.in	Subject Expert
5	Mr Rajesh Kumar H Founder	BuzzTech Training Institute, Coimbatore. Mobile: 9840123422 E-Mail id: rajesh.karthi79@gmail.com	Industry Expert
6	Ms Vidhya Sri T	International Business Machines (IBM) Corporation,	Industry

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

	Director - Institute Relations and HR	CoimbatoreMobile: 9524239135 E-Mail id: prgm@adroittechnologies.in	Expert
7	Mr Manuraj Rajamanikandan Non-Functional Consultant	Cognizant, Kochi, Kerala. Mobile: 7845162390 E-Mail id: manuraj.rajamanikandan@cognizant.com	Alumni
8	Dr Prakash P Associate Professor	School of Computer Science and Engineering, VIT Chennai. Mobile: 9884814492 E-Mail id: npprakash@gmail.com	Member from QIS rated Institution
9	Dr Jameer Basha A Professor & HOD	Department of Computer Science and Engineering, Hindusthan Institute of Technology. Mobile: 9443403786 E-Mail id: jameer@hit.edu.in	Member from sister concern
10	Dr Sakthi G Assistant Professor	Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Member
11	Dr Vidhya R Assistant Professor	Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Member
12	Mr Mahesh D Assistant Professor	Department of Computer Science and Engineering Hindusthan College of Engineering and Technology	Member
13	Mr Jayaraj R Assistant Professor	Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Member
14	Ms Ramya Devi M Assistant Professor	Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology	Member
15	Mr Suryaprakesh A	18104140 - IV BE CSE C	Student Member
16	Mr Sriram S	19104145 - III BE CSE C	Student

HINDUSTHAN COLLEGE OF ENGG & TECH. CBE-32

			Member
17	Mr Alagu Murugan	F/o. Mr. A. Suryaprakesh IV BE CSE C	Parent Member

- The Chairman-BoS welcomed the University nominee, Subject experts, special invitees and all the internal members for the third 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 **10.03.2020** was approved.
- 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) And emphasized the importance of including the audit course in the curriculum.
- The feedback received on the curriculum by the stakeholders were presented.

Comments by Experts:

- Chairman presented and requested the board members to accept the syllabi of Regulation 2020 for III to IV semester subjects which were passed by the Computer Science Engineering Board.
- The curriculum and syllabus of these semesters were reviewed and accepted without changes.

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

- In almost all the courses, changes have been done as per Local, Regional, National and Global needs.
- All the courses in the curriculum are framed based on the employability, skill development and entrepreneurship context to meet the industry needs.
- The curriculum and syllabus of Regulation 2020 for I and II semester subjects were passed by the Computer Science and Engineering 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 2021-2022 onwards.
- The curriculum and syllabus of Regulation 2020 for III and IV semester subjects were introduced and passed by the Computer Science and Engineering board and permitted

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

to move on Academic Council by the BoS members of Computer Science and Engineering for the students admitted during the academic year 2020-2021 onwards.

The meeting ended with thanks by the Chairman at 12.00 P.M.

Chairman

Board of Studies

Chairman - BoS
CSE - HiCET

HINDUSTHAN COLLEGE OF ENGG & TECH
CBE-32

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016
3. Copy of Regulation 2020
4. Curriculum and Syllabi

Copy:

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Valley Campus, Pollachi Highway, Coimbatore – 641 032

Date: 08.02.2021

MINUTES OF BOS MEETING

Name of the Department: **Mechanical Engineering**

The Sixth Board of Studies meeting of Regulation 2020 ME CAD/CAM for the academic year 2021-22 was conducted on 08.02.2021 at 10.30 a.m. at ONLINE mode through Google Meet.

The following members were present:

S.No	Name of the Person	Department	Position
1	Dr. K. Siva	Professor and Head, Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Chairman
2	Dr. V. Prabhuraja	Associate Professor, Department of Manufacturing Engineering, PSG College of Technology, Coimbatore.	University Nominee
3	Dr. K. Marimuthu	Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore.	Subject Expert 1
4	Dr. K. Ramesh Kumar	Professor, Department of Mechanical Engineering, Amirta School of Engineering, Coimbatore.	Subject Expert 2
5	Mr. N. Sampathkumar	AGM Training & Development, Roots Industries India Ltd, Coimbatore.	Representative from Industry
6	Dr. M. Mohanraj	Professor , Mechanical Engineering Department, Hindusthan College of Engineering and Technology	Member
7	Dr. C. Nithyanandam	Associate Professor , Mechanical Engineering Department, Hindusthan College of Engineering and Technology.	Member
8	Dr. P. N. Karthikeyan	Associate Professor , Mechanical Engineering Department, Hindusthan College of Engineering and Technology.	Member
9	Dr. V. Senthilmurugan	Assistant Professor , Mechanical Engineering Department, Hindusthan College of Engineering and Technology.	Member
10	Mr. P. Vigneshwar	Pie Bags Pvt Ltd	Alumni

- 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.
- 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) and emphasized the importance of including the Skill Development, Entrepreneurship and Employability related courses in the curriculum to be in line with the industry needs.
- The feedbacks received on the curriculum by the stakeholders were presented.
- Followed by, Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held during 14.03.2020 was approved.
- The Chairman also mentioned the revision of Regulation 2019 Syllabus, which meets, on higher order thinking levels based on the recommendations from stakeholder.

Recommendations by BoS members (Subject Related)- Regulations 2020:

- In "20CC3301 Mechatronics Applications in Manufacturing", 15% syllabus revision was made with relevant topics.
- In "20CC3304 Industrial Robotics and Expert Systems", 18% syllabus change has been made based on the feedback of stakeholders.
- In "20CC3312 Basics and applications for Internet of Things", 10% syllabus revision has been undertaken.
- In "20CC3311 Design and Analysis of Thermal Energy Systems", 10% syllabus change has been made based on the feedback of stakeholders.
- Based on the Pre-Board of studies/ DAC suggested that 20CC3310 Manufacturing – Online Course Nptel/EDX/Mooc and 20CC3402 Quality –Online Course NPTEL /EDX/ MOOC introduced.
- Chairman presented and requested the board members to accept the syllabi of Regulation 2020 for I to IV semester subjects which were passed by Science and Humanities board & Mechanical Engineering Boards.
- University Nominee (Dr. V. Prabhuraja) Suggested that, 20CC3301 Mechatronics Applications in Manufacturing' Subject add 3D Printer and automation.
- Subject Expert (Dr. K. Marimuthu) Suggested that, 20CC3303 Supply Chain Management' subject add logistics case analysis.
- Subject Expert Dr. K. Ramesh Kumar suggested that, 20CC3306 "Vibration analysis and Control" subject add identification from frequency response and testing response.

HINDUSTHAN COLLEGE OF ENGG & TECH • CBE-32 •

General Recommendations:

- Suggested to verify whether bundled courses and fractional credits are permitted as per regulation.
- For laboratory course syllabus reference has to be given as books or department manuals.
- Standard Text and Reference books should be preferred for all subjects with recent editions.

For Regulations 2020:

- In almost all the courses, changes have been done as per Local, Regional, National and Global needs.
- All the courses in the curriculum are framed based on the employability, skill development and entrepreneurship context to meet the industry needs.
- The curriculum and syllabus of Regulation 2020 for III and IV semester subjects were introduced and passed by the Mechanical board and permitted to move on Academic Council by the BoS members of Electrical and Electronics Engineering for the students admitted during the academic year 2020-2021 onwards.
- Chairman conveyed that, the Suggestions given by the Board of Studies members are to be forwarded to Science and Humanities, and incorporated in Regulation 2020.

The meeting ended with thanks by the Chairman at 01.00 P.M.

Chairman

(Board of Studies)

Chairman - BoS
MECH - HiCET

Enclose:

1. CDC Minutes
2. Pre-Board of studies/ DAC meeting Minutes –ATR
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4. All the Members of BoS
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Valley Campus, Pollachi Highways, Coimbatore, Tamilnadu.

TÜVRheinland CERTIFIED

Date: 13.07.2021

MINUTES OF BOARD OF STUDIES MEETING

Name of the Department: **Management Sciences (MBA)**

The Seventh Board of Studies meeting of Regulation 2020 for the academic year 2021-2022 was conducted on 13.07.2021 at 12.30 pm via Google Meet (Link: https://meet.google.com/qif-tdof-izk). Following are the members of Board of Studies:

S.No	Name of the Person	Department	Position	Signature
1	Dr. K.Samuvel	MBA	Chairman	Present
2	Dr. M. Bhuvaneswari	MBA	Member	Present
3	Dr. S. Kamalasaravanan	MBA	Member	Present
4	Dr. R. Suyam Praba	MBA	Member	Present
5	Dr.K. Nithyavathi	MBA	Member	Absent
6	Ms. V. Kanimozhi	MBA	Member	Present
7	Mr. R. Manoj	MBA	Member	Present
8	Dr. R. Krishnaveni	MBA	University Nominee	Present
9	Dr. V.R Nedunchezhian	MBA	Academic Expert 1	Present
10	Dr. Rupa Gunaseelan	MBA	Academic Expert 2	Absent
11	Dr.G.Muruganantham	MBA	Academic Expert 3	Present
12	Dr.Ulaganathan Subramaniam	MBA	Academic Expert 4	Present
13	Ms. R. Geetha	N/A	Industry Expert	Present
14	Mr. S. Harikishore	MBA	Alumni Batch 2015-17	Present

HINDUSTHAN COLLEGE OF ENGG & TECH * CBE-32 *

15	Ms R Nadhiya	MBA	Student Batch 2020-22	Present

- The Chairman welcomed the 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 2020 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 the curriculum by the stakeholders were presented.
- Followed by, the chairman presented the suggestions given by the BoS experts and was approved.

Recommendations by BoS members (subjected related)

1. The course "20BA3201- Strategic Management", was obtained from the course 16BA3201- Strategic Management from Regulations 2016.
2. The course "20BA3302 International Business", was obtained from the course 16BA4201 International Business Management from Regulations 2016
3. In "20BA3001- Data Analysis And Business Modelling Lab", 20% of syllabus was changed from the course in 16BA2001 Data Analysis and Business Modeling in Regulations 2016.
4. The courses "20BA3702- Managerial Skill Development – III, 20BA3703- Online Certification/Conference Certification were introduced in Regulations 2020.
5. The course "20BA3701- Summer Internship" was obtained from the course 16BA3705- Summer Internship Training from Regulations 2016.
6. The course "20BA4201- Indian Ethos and Values" was obtained from the course 16BA4202- Indian Ethos and Values in Regulations 2016.
7. The course "20BA4701- Project Internship" was obtained from the course 16BA4901- Project in Regulations 2016.
8. The course "20BA4702- Conference/Online/National/ International Certification Program was introduced in Regulations 2020.
9. The courses 20BAX302- Customer Relationship Management, 20BAX306- Consumer Behaviour and 20BAX307- International Marketing were introduced in Regulations 2020.
10. The courses 20BAX301- Integrated Marketing Communication, 20BAX303- Brand Management, 20BAX304- Retail Management and 20BAX305- Services Marketing

HINDUSTHAN COLLEGE OF ENGG & TECH CBE-32

were obtained from the courses of Marketing Electives of Regulations 2016.

11. In 20BAX308- Equity Research & Portfolio Management", 20% of the syllabus has changed from the course 16BA3306- Investment Management in Regulations 2016.
12. In "20BAX309-Financial & Insurance Services", 40% of syllabus has changed from the course 16BA3307- Merchant Banking and Financial Services in Regulations 2016
13. The course 20BAX310- Banking Regulations and Services was introduced by obtaining 80% of the syllabus from the course 16BA3310- Banking Financial Services Management in Regulations 2016.
14. In "20BAX311- International Financial Management", 20% of the syllabus has changed from the course 16BA3309- International Financial Management in Regulations 2016.
15. The courses 20BAX312- Financial Derivatives and 20BAX313- Behavioral Finance were introduced under Specialization.
16. The courses 20BAX314- Personnel & Interpersonal Effectiveness, 20BAX315- Talent Management, 20BAX319- Strategic HRM, 20BAX320- Manpower Planning, Recruitment, and Selection and 20BAX321- Team Dynamics at Work were introduced as new courses in Regulations 2020.
17. In "20BAX316- Industrial Relations and Labour Legislations", 40% of syllabus has changed from the course 16BA3311- Industrial Relations and Labour Welfare in Regulations 2016.
18. In "20BAX317- Organizational Development", 60% of the syllabus has changed from the course 16BA3314- Organizational Change and Development in Regulations 2016.
19. In "20BAX318- International HRM", 40% of the syllabus has changed from the course 16BA3312- Global Workforce Management in Regulations 2016.
20. The courses "20BAX327- Innovation and Technology Management, 20BAX328- Lean and Agile Manufacturing Systems, 20BAX329- Total Quality Management, 20BAX330- Logistics and Supply Chain Management; 20BAX331- Operations Strategy; 20BAX332- Sales and Operations Planning; 20BAX333- Sourcing Management and 20BAX334- Quality Toolkit for Managers were introduced under Operations Specializations in Regulations 2020.
21. In "20BAX350- Electronic Commerce", 60% of the syllabus has changed from the course - 16BA3322- E-Commerce Management in Regulations 2016.
22. The courses "20BAX351- System Analysis and Design, 20BAX352- Enterprises Resource Planning, 20BAX353- Business Analytics and 20BAX354- Software Project Management were introduced under System specialization in Regulations 2020.



23. In "20BAX336- Export Import Trade and Documentation", 40% of the syllabus has changed from the course 16BA3328-Export Trade Documentation in Regulation 2016.
24. The courses "20BAX335- Logistics Management, 20BAX337- Supply Chain Management, 20BAX338- International Logistics & Shipping Management and 20BAX339- Supply Chain Analytics were introduced under Logistics specialization in Regulations 2020.
25. The courses "20BAX322- Data Visualization for Managers, 20BAX323- Business Intelligence, 20BAX324- Big Data Analytics, 20BAX325- HR and Finance Analytics and 20BAX326- Marketing Analytics" were introduced under Business Analytics specialization in Regulations 2020.
26. The courses "20BAX340- Design and Change in Organizations, 20BAX341- Planning, Structuring, and Financing Small Business, 20BAX342- Business Plan Preparation for Small Business, 20BAX343- Marketing for Small Business and 20BAX344- Finance and Accounting for Small Business were introduced under Micro & Small Business Management specialization in Regulations 2020.
27. The courses "20BAX345- Mass Communication, 20BAX346- Journalism, 20BAX347- Media Management and Public Relations, 20BAX348- Media Law and Ethics and 20BAX349- Media Production Planning & Management were introduced under Media Management specialization in Regulations 2020.
28. The courses "20BAX355- Tourism Management, 20BAX356- Tourism Marketing, 20BAX357- Event Management, 20BAX358- Travel Agency and Tour Operation and 20BAX359- Hospitality Management were introduced under Tourism & Travel Management specialization in Regulations 2020.
29. The courses "20BAX360- Hospital Operations Management, 20BAX361- Hospital Architecture Planning, Design & Maintenance, 20BAX362- International Health Management, 20BAX363- Public Health Systems and Health Insurance, 20BAX364- Health Care Laws and Ethics and 20BAX365- Hospital front office Management were introduced under Health Care Management specialization in Regulations 2020.
30. The courses "20BAX366- Entrepreneurship development, 20BAX367- Innovation Management, 20BAX368- Social Entrepreneurship, 20BAX369- Small Business Management and 20BAX370-Science and Technology Entrepreneurship were introduced under Entrepreneurship specialization in Regulations 2020.

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31. The courses "20BAX371- Fertilizer Technology Management, 20BAX372- Management Of Agro Chemicals, 20BAX373- Management Of Floriculture And Landscaping, 20BAX374- Farm Power And Machinery Management, 20BAX375- Feed Business Management, 20BAX376- Poultry And Hatchery Management, 20BAX377- Food Technology And Processing Management and 20BAX378- Fruit Production And Post Harvest Management were introduced under Agri Business Management specialization in Regulations 2020.
32. The courses "20LSX401- Entrepreneurship and Innovation, 20LSX402- Leadership and Management Skills and 20LSX403- Indian Ethos and Human Values were introduced under Open Electives for BE programmes in Regulations 2020

Skill Development courses introduced for member's approval.

- 20BAX377 - Food Technology And Processing Management

Employability courses introduced for member's approval.

- 20BAX376 - Poultry And Hatchery Management
- 20BAX378 - Fruit Production And Post Harvest Management
- 20BAX374 - Farm Power And Machinery Management
- 20BAX365 - Hospital front office Management

Entrepreneurship courses introduced for member's approval.

- 20BAX371 - Fertilizer Technology Management
- 20LSX401 - Entrepreneurship and Innovation
- 20BAX368 - Social Entrepreneurship
- 20BAX369 - Small Business Management

General Suggestions

1. Introduce HR Analytics as a separate Course. Enquired the practical exposure of students during the rural Immersion project.
2. Purchase of Plagiarism Tools and Software to check originality of Project and to promote original thinking among students
3. Introduce Taxation in Finance which can include GST, Direct tax, Indirect tax, Crypto currency as one credit course. Introduce Entrepreneur Finance as a Open elective for Engineering Students as a extra credit course.

4. Introduce an elective Paper named as Course of Independence study for 2 credits, where students have liberty to choose their mini project topic and their faculty. Can be evaluated with an external evaluation.
5. Ensure that the learning process is not disturbed as field work and internship in companies is not possible during pandemic.
6. Focus on Placement training is essential for students during this pandemic and online mode of classes.

The following Resolutions were made in the Board of Studies Meeting

1. In almost all the courses, change has been made as per the Local, Regional, National and Global needs.
2. The Curriculum and syllabi of Regulation R2020 for Management courses were introduced by Management Sciences Board and permitted to move on Academic Council by BoS members for students admitted during the academic year 2020-2021 onwards.
3. Chairman conveyed, the suggestions given by the Board of Studies members are to be incorporated in Regulations 2020.

The meeting was ended with a vote of thanks at 01:45 pm

Chairman

Board of Studies

Chairman - BoS
MBA - HiCET

Enclose:

1. Previous BoS Minutes - ATR
2. Copy of Anna University 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.

1. Enclosed
   Approved Syllabus

HINDUSTHAN EDUCATIONAL AND CHARITABLE TRUST
HICET

Hindusthan College of Engineering and Technology
(An Autonomous Institution, Affiliated to Anna University, Chennai
Approved by AICTE, New Delhi & Accredited by NAAC with 'A' Grade &
NBA) Valley Campus, Pollachi highway, Coimbatore – 641 032

TÜVRheinland CERTIFIED

Date: 10.07.2021

MINUTES OF BOARD OF STUDIES MEETING

Department of Master of Computer Applications

The seventh Board of Studies meeting of Regulation 2020 for the Academic year 2021 - 2022(odd sem) was conducted on 10.07.2021 at 2.00 pm in the Virtual mode.

The following members were present:

S.No	Name of the Person	Department	Position
1	Dr.A.R.Jayasudha	Professor / Head, Department of MCA, Hindusthan College of Engineering and Technology.	Chairman
2	Dr. K. Thulasimani	Professor Department of Computer Science and Engineering Government College of Engineering, Tiruelveli	University Nominee
3	Dr.G.Suganya	Associate Professor – School of Computer Science and Engineering (SCOPE) Vellore Institute of Technology, Vandalur – Kelambakkam Road Chennai, Tamil Nadu – 600 127 VIT Chennai	Subject Expert 1
4	Dr. M.V. Judy	Professor, Department of Computer Applications NIT Cochin University of Science and Technology (CUSAT)	Subject Expert 2
5	Mr. B. Thangapandian	CEO, Certify(TN) , Certiport India Chennai.	Representative from Industry
6	Mrs.M.Nirmala	Assistant Professor, Department of MCA, Hindusthan College of Engineering and Technology.	Member

HINDUSTHAN COLLEGE OF ENGINEERING & TECHNOLOGY CBE-32

7	Mrs.Princess Maria John	Assistant Professor, Department of MCA, Hindusthan College of Engineering and Technology.	Member
8	Mrs.N.Deepa	Assistant Professor, Department of MCA, Hindusthan College of Engineering and Technology.	Member
9	Mr.Nithin Mohanakrishnan	System Engineer, Network & Voice Technology Network Engineering, Point72, 50 Collyer Quay, Singapore	Alumni Member

The following member could not attend the meeting due to other engagements.

1. Mr. Nithin Mohanakrishnan, System Engineer, Network & Voice Technology Network Engineering, Point72, 50 Collyer Quay, Singapore - Alumni Member

2. Dr.T.Padma, Professor & Head, Department of MCA, Sona College of Technology Salem - Academic Expert.

3. Mr. Vivek Bernard, IHS Markit, Information Services, 4th floor Ropemaker Place25 Ropemaker Street, London. - Industry Expert

- The chairman of the BoS, Dr. A.R.Jayasudha welcomed all the dignitaries and internal members for the seventh Board of Studies meeting.
- The chairperson briefly explained 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 that, Based on Anna University Curriculum, the board introduced Curriculum for I, III semesters and Bridge courses of Computer Applications Board.

Recommendations by BoS members (Subject Related)

- In "21CA1201 – UI Design and Development ", 3% syllabus revision has been undertaken.
- In "21CA1202 - Computer Networks", 20% syllabus revision was made with relevant topics.
- In "21CA1203 -Java Programming", 20% syllabus revision has been done.
- In "21CA1204 - Database Management Systems", 20% syllabus change has been made based on the feedback of stakeholders.

- In "21CA1002 - DBMS Lab", 10% syllabus revision has been done.
- In "20CA3202 - Operating System", 20% syllabus change has been made based on the feedback of stakeholders.
- In "20CA3201 - Big Data Analytics", 65% syllabus revision has been undertaken.

Department specific Board of Studies Discussion / Suggestions:

- BOS members suggested including Real time applications in the course Computer Networks.
- It was suggested to reduce the content of unit II in the course Java Programming.
- and frames and applets to be moved to unit 5 of the same
- Suggestion was given to include NoSQL in Unit 5 of Database Management System instead of blockchain.
- It was suggested to include the software installation process as a program in the DBMS lab instead of Block chain program.
- Experts suggested including Design framework topics in the subject UI design and development.
- It was suggested to implement Unit II(Mining Data Streams) of the subject Big Data Analytics using Spark and also to reduce the entire content of Big Data Analytics.
- Experts suggested including the Virtualization topic in the subject Operating Systems .
- It was also suggested to include File system and Windows/ Linux/ MAC OS case study in the subject Operating System.
- BoS members suggested reducing the syllabus of AI paper and to include NLP and image processing as a unit.
- It was suggested to give Professional Ethics paper as core paper
- Suggestion was given to revamp the Syllabus of Mixed Reality paper to add more topics in Augmented Reality.
- It was suggested to give Research Methodology in all semesters.
- It was suggested to include E-Learning Techniques instead of Principles of Programming Languages.
- Experts suggested combining Programming in C and OOPs as a single subject.

HINDUSTHAN COLLEGE OF ENGG & TECH * CBE-32 *

- A course PoP&OOPs to be introduced as a new paper instead of OOPsin the bridge course of even semester.
- It was suggested to include Fundamentals of web Designing in the bridge course.
- It was decided that Online course will be taken through EDX and the same is ratified.
- The following skill development courses are introduced for members approval.

  20CA3304-Deep Learning

  20CA3303-Cryptography and Network Security
- The following employability courses are introduced for members approval.

  20CA3204 – Artificial Intelligence

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.
- All the courses in the curriculum are framed based on Employability, Entrepreneurship and Skill Development context to meet the industry needs.
- In Regulation 2020,the curriculum and syllabus of III semester courses were introduced which was passed by the Computer Applications Board, and permitted to move on Academic Council by the BoS members of Board of Computer Applications for the students admitted during the academic year 2020-2021 onwards.

The meeting ended with thanks to the members by Chairman at 03.00 pm

Chairman

(Board of Studies)

Chairman - BoS
MCA - HiCET

Enclose:

1. Previous 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

Hindusthan College of Engineering and Technology

(An Autonomous Institution Affiliated to Anna University, Chennai
Approved by AICTE, New Delhi & Accredited by NAAC with 'A'Grade)
Valley Campus, Pollachi Highway, Coimbatore – 641032

Date: 29.01.2022

MINUTES OF THE BOARD OF MEETING

Department of Master of Computer Applications

The Eighth Board of Studies meeting of Regulation 2020 for the Academic year 2021 - 2022(Even sem) was conducted on 29.01.2022 at 2.45 pm. in the Virtual mode.

The following members were present.

S.No	Name of the Person	Department	Position
1	Dr.A.R.Jayasudha	Professor / Head, Department of MCA, 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	Dr.G.Suganya	Associate Professor – School of Computer Science and Engineering (SCOPE) Vellore Institute of Technology, Vandalur – Kelambakkam Road Chennai, Tamil Nadu – 600 127	Subject Expert 1
4	Dr.T. Padma	Professor and Head Department of MCA Sona College of Technology Salem- 63 005.	Subject Expert 2
5	Mr.Nithin Mohanakrishnan	2018 – 2021 Batch System Engineer, Network & Voice Technology	Alumni

S.No	Name of the Person	Department	Position
		Network Engineering Point72, 50 Collyer Quay, Singapore	
6	Mr.Leo Andrew Ezhil	Enterprise Architect Tata Consultancy Services Chennai	Industry Expert
7	Mrs.M.Nirmala	Assistant Professor, Department of MCA, Hindusthan College of Engineering and Technology.	Member
8	Mrs. Princess Maria John	Assistant Professor, Department of MCA, 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 seventh Board of Studies meeting.
- The chairperson briefly explained 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 that, Based on Anna University Curriculum, The board introduced Curriculum for II, IV semesters and Bridge courses of Computer Applications Board.

Recommendations by BoS members (Subject Related)

- In "21CA2202 - Artificial Intelligence", 20% syllabus revision made with relevant topics.
- In "21CA2203 - Python Programming", 10% syllabus revision has been done.
- In "21CA2001 – Python Programming Lab", 10% syllabus revision has been undertaken.
- In "21CA2308 - BlockChain", 20% syllabus change has been made based on the feedback of stakeholders.

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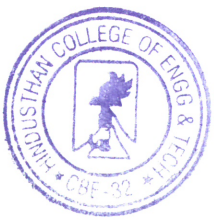
- In "21CA2291 - Software Engineering", 20% syllabus revision has been undertaken.
- In "21CA2292 - Operating System", 20% syllabus change has been made based on the feedback of stakeholders.
- Chairman presented and requested the board members to accept the introduction of new course 21EC2231 - Embedded System and Sensors which was passed by Electronics and Communication Board

Department specific Board of Studies Discussion / Suggestions:

- BOS members suggested renaming Basics of Electronics to Basics of Embedded System.
- Experts suggested including the latest reference books for Data Structures and Algorithms. And also suggested to include Data Structures using Java and Python as reference books.
- It was suggested to reduce the content of Artificial Intelligence by removing the content of unit IV. It was suggested to remove the topic fuzzy logic from the course Artificial Intelligence and to retain the topics NLP and Expert System.
- Suggestion was given to include a subject Design Thinking in any one of the semesters.
- Experts suggested including Django as one of the topics in the subject Python Programming.
- It was also suggested to include Scenario Development in Python Programming Lab.
- It was suggested to move the subject Block chain from Professional Electives of third semester to Professional Electives of second semester.
- Suggestion was given to revamp unit IV and unit V of the subject Block Chain.
- Experts suggested removing unit V of the subject Software Engineering and revamp the syllabus for the same.
- It was suggested to reduce the syllabus of the subject Operating System.

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 Regulation 2020 ,the curriculum and syllabus of the course 21EC2231 - Embedded System and Sensors was introduced and passed by the Electronics and Communication Engineering Board, and permitted to move on Academic Council by the BoS members of Board of Computer Applications for the students admitted during the academic year 2021-2022 onwards.
- The curriculum and syllabus of Regulation 2020 for the IV semester subjects were introduced and passed by the Computer Applications Board, and permitted to move on



to Academic Council by the BoS members of Board of Computer Applications for the students admitted during the academic year 2020-2021 onwards.

- All the courses in the curriculum are framed based on Employability, Entrepreneurship and Skill Development context to meet the industry needs.
- Chairman conveyed that, the Suggestions given by the Board of Studies members are to be forwarded to Electronics and Communication Board, and incorporated in Regulation 2020.
- The following courses were introduced as Value Added Courses.
  - Advanced Python Programming
  - Advanced Java Programming

The meeting ended with thanks to the members by Chairman at 04.00 pm

Chairman

(Board of Studies)

Chairman - BoS
MCA - HiCET

Enclose:

1. Previous BoS Minutes-ATR
2. Copy of Regulation 2016R
3. Curriculum and Syllabi

HINDUSTHAN COLLEGE OF ENGG & TECH * CBE-32 *

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