

## Department of Science and Humanities

Date: 26.04.2019

### Action Taken Report on BoS

The meeting of the Fourth Board of Studies of Regulation 2019 for the Department of Science and Humanities was conducted on 29.03.2019 at 10.30 a.m in the Video Conference Hall, Central Library. The following action were taken based on those minutes.

### Syllabus related Recommendations:

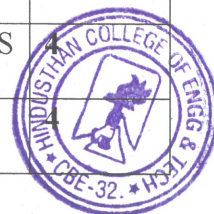
S. No	Courses in which revision has been done	Action Taken	Percentage Of Syllabus Revision Made
1.	19HE1101-Technical English	Incorporated.	60%
2.	19 HE 2101-Business English for Engineers	Incorporated.	40%
3.	19MA1101-Calculus -	Incorporated	25%
	19MA1102- Calculus and Linear Algebra	Modified	60%
4.	19 MA 1103-Calculus and Differential Equations	Incorporated	60%
	19MA2101- Differential Equations and Complex Variables	Modified	60%
5	19MA2102 - Complex Variables and Transform Calculus	Incorporated	20%
6.	19MA2103-Linear Algebra, Numerical Methods And Transform Calculus -	Incorporated.	60%
7.	19MA2104-Differential Equations and Linear Algebra -	Incorporated.	20%
8	19HE2101- Business English for Engineers	Incorporated	40%
9	19PH1151 - Applied Physics	Incorporated.	30%
10	19PH2151 – Material Science	Incorporated.	25%
11	19CY1101 - Engineering Chemistry-	Incorporated.	8%
12	19CY2102 –Environmental Sciences-	Incorporated.	16%



Overall Percentage of Revision Carried out in BoS 48%

Newly introduced courses during Academic year 2019-20 under Regulation 2019.

S.No	Regulation	Course Code with Name	Credits
1	2019	19HE1101- TECHNICAL ENGLISH (COMMON TO ALL BRANCHES)	3
2	2019	19MA1101-- CALCULUS(CSE/IT),	4
3	2019	19MA1102- CALCULUS AND LINEAR ALGEBRA (AERO/AUTO/MECH/MCTS/CIVIL/CHEMICAL/AGRI/FT),	4
4	2019	19MA1103- CALCULUS AND DIFFERENTIAL EQUATIONS (ECE/EEE/ EIE/ BM),	4
5	2019	19PH1151- APPLIED PHYSICS (COMMON TO ALL BRANCHES),	3
6	2019	19CY1151- CHEMISTRY FOR ENGINEERS(COMMON TO ALL BRANCHES	3
7	2019	19HE1071 -LANGUAGE COMPETENCY ENHANCEMENT COURSE – I (COMMON TO ALL BRANCHES)	1
8	2019	19HE2101 - BUSINESS ENGLISH FOR ENGINEERS (COMMON TO ALL BRANCHES)	3
9	2019	19MA2101- DIFFERENTIAL EQUATIONS AND COMPLEX VARIABLES (AERO/ AUTO/MECH/MCTS/CIVIL/CHEMICAL/FT/AGRI)	4
10	2019	19MA2102 -COMPLEX VARIABLES AND TRANSFORM CALCULUS (EEE/EIE/BM)	4
11	2019	19MA2103- LINEAR ALGEBRA, NUMERICAL METHODS AND TRANSFORM CALCULUS ( ECE )	4
12	2019	19MA2104- DIFFERENTIAL EQUATIONS AND LINEAR ALGEBRA ( CSE / IT)	4
13	2019	19PH2151- MATERIAL SCIENCE (COMMON TO ALL BRANCHES)	3
14	2019	19CY2151- ENVIRONMENTAL STUDIES (COMMON TO ALL BRANCHES)	3
15	2019	19HE2071- LANGUAGE COMPETENCY ENHANCEMENT COURSE – II (COMMON TO ALL BRANCHES)	1
16	2019	19MA3101 -FOURIER SERIES AND STATISTICS (AERO/AUTO/MECH/MCTS)	4
17	2019	19MA3102 -FOURIER ANALYSIS AND TRANSFORMS (AGRI/BM/FT/EEE/ ECE/ EIE)	4
18	2019	19MA3103 - FOURIER ANALYSIS AND NUMERICAL METHODS (CIVIL&CHEMICAL)	4



19	2019	19MA3104 -DISCRETE MATHEMATICS AND GRAPH THEORY (CSE)	4
20	2019	19MA3151-STATISTICS AND QUEUEING THEORY (IT)	4
21	2019	19MA4101-NUMERICAL METHODS (AERO/ AUTO/EEE/EIE/MECH/MCTS)	4
22	2019	19MA4102-DISCRETE MATHEMATICS (IT)	4
23	2019	19MA4103 - PROBABILITY AND STATISTICS (CIVIL)	4
24	2019	19MA4104 -PROBABILTY AND RANDOM PROCESSES (ECE)	4
25	2019	19MA4151 -PROBABILITY, STATISTICS AND QUEUEING THEORY (CSE)	4
26	2019	19MA4152 -STATISTICS AND NUMERICAL METHODS (AGRI/BM/FT)	4
27	2019	19MA4153-APPLIED PROBABILITY AND STATISTICS (CHEMICAL)	4
28	2016	16MA3111 - FOURIER ANALYSIS AND ZTRANSFORM (AGRI, BIO MEDICAL & FOOD TECH)	4
29	2016	16MA4112 -APPLIED STATISTICS AND NUMERICAL METHODS(AGRI, BIO MEDICAL & FOOD TECH)	4

The following recommendations given by stakeholders are considered and incorporated.

1. Vector space may be included in 19MA2107 for CSE and IT.
2. Sequence and series may be included in 19MA1101.

**General Recommendations:**

S.No	Suggestion given in the BoS experts	Action taken
1	It is suggested by the University Nominee Dr.Dhanabalan that different Mathematics courses may be followed for various branches.	Incorporated.
2	Language competency may be removed from the category of value added course.	Incorporated.
3	Latest Edition of Text books may be followed.	Considered
4	Course objective and Course outcome may be revised	Considered



*Cew*  
Chairman  
Board of Studies

**Dr. K. P. UMA**  
Prof & Head  
Department of Science and Humanities  
Hindusthan College of Engineering and Technology.  
C e.

## Department of Aeronautical Engineering

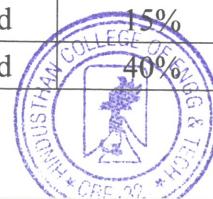
Date: 24.04.2019

### Action Taken Report on BoS

The meeting of Fourth Board of Studies of Regulation 2016 and Regulation 2019 for the Department of Aeronautical Engineering Undergraduate programme was conducted on 08.04.2019 at 10.00 AM. in the Video Conference Hall, Central Library.

#### (i) Syllabus Revision:

S. No.	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1	16AE7201-Avionics	Modified	20%
2	16AE7202- Computational Fluid Dynamics	Modified	25%
3	16AE7001- Aero Engine and Airframe Laboratory	Modified	5%
4	16AE7002- Avionics Laboratory	Modified	5%
5	16AE7301- Vibration and Elements of Aero Elasticity	Incorporated	20%
6	16AE7302- Satellite Propulsion	Modified	40%
7	16AE7303- Rockets and Missiles	Modified	30%
8	16AE7304- Airframe Maintenance and Repair	Modified	40%
9	16AE7305- Experimental Stress analysis	Modified	15%
10	16AE7306- Helicopter Theory	Incorporated	20%
11	16AE7307- Aircraft Design	Modified	20%
12	16AE7308- Engine system and control	Modified	5%
13	16AE8301- Fatigue and Fracture	Incorporated	10%
14	16AE8302- Professional Ethics	Incorporated	5%
15	16AE8303- Space Mechanics	Modified	40%
16	16AE8304- Aviation Management and Air safety	Modified	30%
17	16AE8305- Structural Dynamics	Modified	10%
18	16AE8306- UAV Systems	Incorporated	15%
19	16AE8307- Experimental Aerodynamics	Incorporated	10%
20	16AE8308- Air Transportation control and Planning	Modified	20%
21	16AE7402- Aerodynamics for Industrial Applications	Modified	20%
22	19HE1101- Technical English	Incorporated	60%
23	19MA1102- Calculus and Linear Algebra	Incorporated	60%
24	19PH1151- Applied Physics	Modified	30%
25	19ME1152- Engineering Drawing	Modified	15%
26	19HE2101- Business English for Engineers	Modified	40%



27	19MA2101- Differential Equations and Complex Variables	Modified	60%
28	19ME2101- Engineering Mechanics	Modified	15%
29	19PH2151- Material Science	Modified	25%
30	19ME2001- Engineering Practices Laboratory	Modified	10%

**Overall Percentage of syllabus revision made in the BoS: 28.21 %**

**(ii) New courses Introduced:**

S. No.	Regulation	Course code with name	Credits
1	2016	16AE7001-Aero Engine and Airframe Laboratory	2
2	2016	16AE7002-Avionics Laboratory	2
3	2016	16AE7201-Avionics	3
4	2016	16AE7202-Computational Fluid Dynamics	3
5	2016	16AE7301-Vibration and Elements of Aero Elasticity	3
6	2016	16AE7302-Satellite Propulsion	3
7	2016	16AE7303-Rockets and Missiles	3
8	2016	16AE7304-Airframe Maintenance and Repair	3
9	2016	16AE7305-Experimental Stress analysis	3
10	2016	16AE7306-Helicopter Theory	3
11	2016	16AE7307-Aircraft Design	3
12	2016	16AE7308-Engine system and control	3
13	2016	16AE7402- Aerodynamics for Industrial Applications	3
14	2016	16AE7701-Internship / Industrial Training	2
15	2016	16AE7702-Technical Publication	1
16	2016	16AE8301-Fatigue and Fracture	3
17	2016	16AE8302-Professional Ethics	3
18	2016	16AE8303-Space Mechanics	3
19	2016	16AE8304-Aviation Management and Air safety	3
20	2016	16AE8305-Structural Dynamics	3
21	2016	16AE8306-UAV Systems	3
22	2016	16AE8307-Experimental Aerodynamics	3
23	2016	16AE8308-Air Transportation control and Planning	3



24	2016	16AE8901-Project work	10
25	2019	19HE1101-Technical English	3
26	2019	19MA1102-Calculus and Linear algebra	4
27	2019	19PH1151-Applied physics	3
28	2019	19CY1151-Chemistry for engineers	3
29	2019	19HE1071-Language Competency Enhancement Course- I	1
30	2019	19CS1151-Python Programming and Practices	3
31	2019	19ME1152-Engineering Drawing	3
32	2019	19HE2101-Business English	3
33	2019	19MA2101-Differential Equations and Complex Variables	4
34	2019	19PH2151-Material Science	3
35	2019	19CY2151-Environmental Studies	3
36	2019	19HE2071-Language Competency Enhancement Course-II	1
37	2019	19HE1073-Entrepreneurship & Innovation (sem I)	0
38	2019	19HE1072-Career guidance – level I (sem I) Personality, Aptitude and Career Guidance	0
39	2019	19HE2072-Career guidance – level II (sem II) Personality, Aptitude and Career Guidance	0
40	2019	19EE2103-Basics of Electrical and Electronics Engineering	3
41	2019	19ME2101-Engineering Mechanics	3
42	2019	19ME2001-Engineering Practices Laboratory	2


The following recommendations given by stakeholders are considered and incorporated.

1. Students to be highly encouraged to participate in academic and co-curricular activities
2. Faculty and student interaction to be improved through peer group meeting/class committee meetings.



**General Recommendations:**

<b>S. No.</b>	<b>Suggestion given in the BoS experts</b>	<b>Action taken</b>
1	For laboratory course syllabus reference has to be given as books or department manuals.	Considered
2	Standard Text and Reference books should be preferred for all subjects with recent editions.	Considered
3	Suggested to verify whether bundled courses and fractional credits are permitted as per regulation.	Incorporated

  
**Chairman**  
**Board of Studies**  
**Chairman - BoS**  
**AERO - 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)  
Othakalmandapam Post, Coimbatore – 641 032

## DEPARTMENT OF AUTOMOBILE ENGINEERING

### Action Taken Report on BoS

Action taken report for the Board of Studies meeting conducted for the Academic Year: 2019  
-2020 on 05.04.2019 at 11.00 a.m. in the Automobile Board room.

(i) Syllabus Revision:

S. No.	Subject in which revision has been done	Action taken	Percentage Syllabus Revised (%)
1	16AU7201 Engine and Vehicle Management Systems	Incorporated	20
2	16AU7202 Professional Ethics	Modified	5
3	16AU7001 Engine Performance and Emission Testing Laboratory	Incorporated	15
4	16AU7002 Vehicle Maintenance Laboratory	Incorporated	5
5	16AU7301 Design of Jigs, Fixtures and Press Tools	Modified	20
6	16AU7302 Entrepreneurship Development	Modified	15
7	16AU7303 Automotive Emission and Pollution Control	Incorporated	35
8	16AU7304 Advanced Theory of IC Engines	Incorporated	20
9	16AU7305 Vehicle Dealership Management	Modified	20
10	16AU7306 Operation Research	Modified	5
11	16AU7307 Automotive Sensor and Embedded Systems	Incorporated	20
12	16AU7308 Hydraulics and Pneumatics	Incorporated	15
13	16AU7309 Total Quality Management	Incorporated	5
14	16AU7310 Non Destructive Testing and Materials	Modified	10
15	16AU7311 Microprocessor Application in Automobiles	Incorporated	20
16	16AU7312 Vehicle Body Engineering	Incorporated	30
17	16AU8301 Design for Manufacture and Assembly	Modified	5





18	16AU8302	Vehicle Concept Design and Styling	Modified	15
19	16AU8303	Off Road Vehicles	Incorporated	15
20	16AU8304	Engine Auxiliary Systems	Modified	20
21	16AU8305	Vehicle Troubleshooting and Maintenance	Incorporated	15
22	16AU8306	Unconventional Machining Processes	Incorporated	10
23	16AU8307	Supercharging and Scavenging	Modified	20
24	16AU8308	Reliability Concepts in Engineering	Incorporated	5
25	16AU8309	Principles of Management	Modified	5
26	16AU8310	New Generation and Hybrid Vehicles	Incorporated	25
27	16AU8311	Product Design and Development	Incorporated	10
28	16AU8312	Vehicle Transport Management	Incorporated	15
29	16AU7401	Automotive Safety	Modified	15
30	19HE1101	Technical English	Incorporated	60
31	19MA1102	Calculus and Linear Algebra	Incorporated	60
32	19PH1151	Applied Physics	Modified	30
33	19ME1152	Engineering Drawing	Modified	15
34	19HE2101	Business English for Engineers	Modified	40
35	19MA2101	Differential Equations and Complex Variables	Modified	60
36	19ME2101	Engineering Mechanics	Modified	15
37	19PH2151	Material Science	Modified	25
38	19ME2001	Engineering Practices Laboratory	Modified	10
21	16AU8305	Vehicle Troubleshooting and Maintenance	Incorporated	15
22	16AU8306	Unconventional Machining Processes	Incorporated	10
23	16AU8307	Supercharging and Scavenging	Modified	20
24	16AU8308	Reliability Concepts in Engineering	Incorporated	5
25	16AU8309	Principles of Management	Modified	5
26	16AU8310	New Generation and Hybrid	Incorporated	25



		Vehicles		
27	16AU8311	Product Design and Development	Incorporated	10
28	16AU8312	Vehicle Transport Management	Incorporated	15
29	16AU7401	Automotive Safety	Modified	15
30	19HE1101	Technical English	Incorporated	60
31	19MA1102	Calculus and Linear Algebra	Incorporated	60
32	19PH1151	Applied Physics	Modified	30
33	19ME1152	Engineering Drawing	Modified	15
34	19HE2101	Business English for Engineers	Modified	40
35	19MA2101	Differential Equations and Complex Variables	Modified	60
36	19ME2101	Engineering Mechanics	Modified	15
37	19PH2151	Material Science	Modified	25
38	19ME2001	Engineering Practices Laboratory	Modified	10

**Overall Percentage of syllabus revision made in the BoS : 30 %**

**(ii) New courses Introduced:**

S.No.	Regulation	Course code with name	Credits
1.	2016	16AU7001 Engine Performance and Emission Testing Laboratory	2
2.	2016	16AU7002 Vehicle Maintenance Laboratory	2
3.	2016	16AU7201 Engine and Vehicle Management Systems	3
4.	2016	16AU7202 Professional Ethics	3
5.	2016	16AU7301 Design of Jigs, Fixtures and Press Tools	3
6.	2016	16AU7302 Entrepreneurship Development	3
7.	2016	16AU7303 Automotive Emission and Pollution Control	3
8.	2016	16AU7304 Advanced Theory of IC Engines	3
9.	2016	16AU7305 Vehicle Dealership Management	3
10.	2016	16AU7306 Operation Research	3



11.	2016	16AU7307 Automotive Sensor and Embedded Systems	3
12.	2016	16AU7308 Hydraulics and Pneumatics	3
13	2016	16AU7309 Total Quality Management	3
14	2016	16AU7310 Non-Destructive Testing and Materials	3
15	2016	16AU7311 Microprocessor Application in Automobiles	3
16	2016	16AU7312 Vehicle Body Engineering	3
17	2016	16AU7401 Automotive Safety	3
18	2016	16AU8301 Design for Manufacture and Assembly	3
19	2016	16AU8302 Vehicle Concept Design and Styling	3
20	2016	16AU8303 Off Road Vehicles	3
21	2016	16AU8304 Engine Auxiliary Systems	3
22	2016	16AU8305 Vehicle Trouble shooting and Maintenance	3
23	2016	16AU8306 Unconventional Machining Processes	3
24	2016	16AU8307 Supercharging and Scavenging	3
25	2016	16AU8308 Reliability Concepts in Engineering	3
26	2016	16AU8309 Principles of Management	3
27	2016	16AU8310 New Generation and Hybrid Vehicles	3
28	2016	16AU8311 Product Design and Development	3
29	2016	16AU8312 Vehicle Transport Management	3
30	2016	16AU8901 Project Work	10
31	2019	19HE1101 Technical English	3
32	2019	19MA1102 Calculus and Linear algebra.	4
33	2019	19PH1151 Applied physics	3
34	2019	19CY1151 Chemistry for Engineers	3
35	2019	19HE1071 Language Competency Enhancement Course- I	1
36	2019	19CS1151 Python Programming and Practices	3
37	2019	19ME1152 Engineering Drawing	3
38	2019	19HE2101 Business English for Engineers	3
39	2019	19MA2101 Differential Equations and Complex Variables	4
40	2019	19PH2151 Material Science	3
41	2019	19CY2151 Environmental Studies	3
42	2019	19ME2101 Engineering Mechanics	3
43	2019	19HE2071 Language Competency Enhancement Course-II	1



44	2019	19IT2151 Programming in C	3
45	2019	19ME2001 Engineering Practices Laboratory	2

The following recommendations given by stakeholders are considered and incorporated.

- EDC club to be effectively conducted more awareness events for entrepreneurship among the student's community
- In Regulation 2019, Entrepreneurship oriented courses to be introduced as the ability enhancement courses.

**General Recommendations:**

Subject Name	Suggestions given in the BOS experts	Action Taken
Vehicle Maintenance	Suggested to move from Core to Professional Elective III	Suggestions Approved
Automotive Emission and Pollution Control	Suggested to move from professional elective III to Seventh semester core.	
Computational Fluid Dynamics	Suggested to add in Professional electives	

  
 Chairman  
 Board of Studies  
**Chairman - BoS**  
**AUTO - HiCET**





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Othakalmandapam Post, Coimbatore – 641 032

Date: 23.04.2019

## ACTION TAKEN REPORT ON BOS

Name of the Department: **CIVIL ENGINEERING**

The Fourth Board of Studies meeting of Regulation 2016 for the academic year 2019 - 2020 was conducted on 15.04.2019 at 10.00 a.m. in the library conference hall. This report consolidates the findings of the panel and the suggestions and area of improvements possible in the future put forth by the panel.

### (i) Syllabus Revision:

S. No	Course Code	Course Title	Action Taken	Percentage Syllabus Revised
1	16CE7201	Estimation, Costing and Valuation Engineering	Incorporated	20%
2	16CE7202	Concrete Technology	Modified	15%
3	16CE7203	Irrigation and Hydraulic Structures	Incorporated	20%
4	16CE7001	Design and Drawing –II (Irrigation & Env. Engg.)	Incorporated	25%
6	16CE8201	Structural Dynamics and Earthquake Engineering	Modified	20%
7	16CE7301	Air Pollution Management	Incorporated	15%
8	16CE7302	Environmental Impact Assessment	Modified	30%
9	16CE7303	Municipal Solid Waste Management	Modified	40%
10	16CE7304	Hazardous Waste Management and Site Remediation	Incorporated	25%
11	16CE7305	Industrial Wastewater Engineering	Incorporated	60%
12	16CE7306	Design of Masonry and Timber Structures	Incorporated	25%
13	16CE7307	Disaster Resistant Structures	Modified	20%
14	16CE7308	Tall Buildings	Incorporated	15%
15	16CE7309	Finite Element Techniques	Incorporated	5%
16	16CE7310	Prefabricated Structures	Incorporated	20%
17	16CE8301	Computer Aided Design of Structures	Incorporated	10%
18	16CE8302	Design of Industrial Structures	Modified	15%
19	16CE8303	Design of Prestressed Concrete Structures	Modified	60%

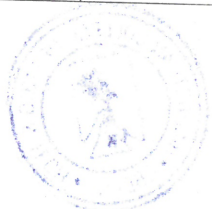


20	16CE8304	Repair and Rehabilitation of Structures	Incorporated	30%
21	16CE8305	Valuation of Land and Buildings	Modified	20%
22	16CE8306	Groundwater Engineering	Incorporated	6%
23	16CE8307	Integrated Water Resources Management	Modified	20%
24	16CE8308	Rock Engineering	Modified	5%
25	16CE8309	Ground Improvement Techniques	Incorporated	5%
26	16CE8310	Earth Retaining Structures	Incorporated	20%
27	16CE7402	Strategies of Green Buildings	Incorporated	10%
28	19HE1101	Technical English	Modified	60%
29	19PH1151	Applied Physics	Modified	30%
30	19MA1102	Calculus and Linear Algebra	Modified	60%
31	19ME1152	Engineering Drawing	Incorporated	20%
32	19HE2101	Business English for Engineers	Modified	40%
33	19MA2101	Differential Equations and Complex Variables	Modified	60%
34	19PH2151	Material Science	Modified	25%
35	19ME2001	Engineering Practices laboratory	Modified	10%
36	19ME2101	Engineering Mechanics	Modified	15%

Overall Percentage of syllabus revision made in the BoS: 32.94 %

**(ii) New courses Introduced:**

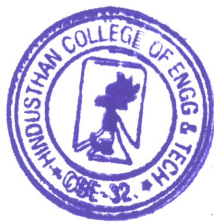
S.No.	Regulation	Course code with name		Credits
1.	2016	19HE1101	Technical English	3
2.	2016	19MA1102	Calculus and linear algebra.	3
3.	2016	19PH1151	Applied physics	3
4.	2016	19CY1151	Chemistry for engineers	3
5.	2016	19HE1071	Language competency enhancement course- I	3
6.	2016	19HE2101	Business English	3
7.	2016	19MA2101	Differential equations and complex variables	3
8.	2016	19PH2151	Material science	3
9.	2016	19CY2151	Environmental studies	3
10.	2016	19HE2071	Language competency enhancement course-II	3
11.	2016	19HE1073	Entrepreneurship & innovation (Sem I)	3
12.	2016	19HE1072	Career guidance – level I (Sem I) Personality, Aptitude and Career Guidance	3
13.	2016	19HE2072	Career guidance – level II (Sem II) Personality, Aptitude and Career Guidance	3
14.	2016	19CS1151	Python Programming and Practices	3
15.	2016	19ME1152	Engineering Drawing	3
16.	2016	19ME2101	Engineering Mechanics	3



17.	2016	19ME2001	Engineering Practices Laboratory	3
18.	2016	16CE7001	Design and Drawing –II (Irrigation & Environmental Engineering)	2
19.	2016	16CE7002	Design Project	3
20.	2016	16CE7201	Estimation, Costing and Valuation Engineering	3
21.	2016	16CE7202	Concrete Technology	3
22.	2016	16CE7203	Irrigation and Hydraulic Structures	3
23.	2016	16CE7301	Air Pollution Management	3
24.	2016	16CE7302	Environmental Impact Assessment	3
25.	2016	16CE7303	Municipal Solid Waste Management	3
26.	2016	16CE7304	Hazardous Waste Management and Site Remediation	3
27.	2016	16CE7305	Industrial Wastewater Engineering	3
28.	2016	16CE7306	Design of Masonry and Timber Structures	3
29.	2016	16CE7307	Disaster Resistant Structures	3
30.	2016	16CE7308	Tall Buildings	3
31.	2016	16CE7309	Finite Element Techniques	3
32.	2016	16CE7310	Prefabricated Structures	3
33.	2016	16CE7402	Strategies of Green Buildings	3
34.	2016	16CE7701	Implant Training / Internship	3
35.	2016	16CE8201	Structural Dynamics and Earthquake Engineering	3
36.	2016	16CE8901	Project Work	8
37.	2016	16CE8301	Computer Aided Design of Structures	3
38.	2016	16CE8302	Design of Industrial Structures	3
39.	2016	16CE8303	Design of Pre-stressed Concrete Structures	3
40.	2016	16CE8304	Repair and Rehabilitation of Structures	3
41.	2016	16CE8305	Valuation of Land and Buildings	3
42.	2016	16CE8306	Groundwater Engineering	3
44.	2016	16CE8307	Integrated Water Resources Management	3
45.	2016	16CE8308	Rock Engineering	3
46.	2016	16CE8309	Ground Improvement Techniques	3
47.	2016	16CE8310	Earth Retaining Structures	3

The following recommendations given by stakeholders are considered and incorporated.

- Value added courses on Modeling, Analysis and Design of Elements using Bentley STAAD.Pro has been introduced.
- More Skill and employability oriented courses to be offered in the curriculum.



*Chairman*  
 Board of Studies  
**Chairman - BOS**  
**CIVIL - 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)  
Othakalmandapam Post, Coimbatore – 641 032

## Department of Computer Science and Engineering

Date: 09.04.2019

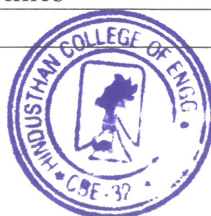
### Action Taken Report on BoS

Action taken report for the Board of Studies meeting conducted for the Academic Year:  
2019-2020 on 09.04.2019 at 11.30a.m. in the CSE Seminar Hall.

(i) Syllabus Revision:

Regulation 2016:

S.No.	Course Code	Subject in which revision has been done	Action Taken	Percentage Syllabus Revised (%)
1.	16CS7201	Cryptography and Network Security	Modified	25
2	16CS7202	Cloud Computing	Incorporated	20
3	16CS7203	Mobile Computing	Modified	25
4	16CS7001	Cryptography and Network Security Laboratory	Modified	5
5	16CS7002	Cloud Computing Laboratory	Modified	30
6	16CS7301	C# and .NET Programming	Incorporated	20
7	16CS7302	Biometrics	Modified	50
8	16CS7303	E-Commerce	Incorporated	20
9	16CS7304	Wireless Sensor Networks	Modified	13
10	16CS7305	Data Mining and Warehousing	Incorporated	13
11	16CS7306	Digital Signal Processing	Incorporated	10
12	16CS7307	Text Mining	Incorporated	30
13	16CS7308	Soft computing	Incorporated	30
14	16CS7309	Human Interface System Design	Modified	80
15	16CS7310	Artificial Intelligence	Incorporated	20
16	16CS7311	High speed Networks	Modified	20
17	16CS7312	Semantic Web	Incorporated	20
18	16CS8301	Software Project Management	Modified	20
19	16CS8302	Web Technology	Incorporated	20
20	16CS8303	Pervasive Computing	Incorporated	30
21	16CS8304	Database Security and Privacy	Modified	30
22	16CS8305	R programming	Incorporated	30
23	16CS8306	Database Tuning	Modified	40
24	16CS8307	Visual Programming	Incorporated	10
25	16CS8308	Software Testing	Modified	5
26	16CS8309	High Performance Computing	Incorporated	40
27	16CS8310	Management Information system	Incorporated	15
28	16CS8311	Engineering Economics	Modified	45
29	16CS8312	Big data Analytics	Modified	20





**Regulation 2019:**

S.No.	Course Code	Subject in which revision has been done	Action Taken	Percentage Syllabus Revised (%)
31	19HE1101	Technical English	Modified	60
32	19MA1101	Calculus	Incorporated	25
33	19PH1151	Applied Physics	Incorporated	30
34	19HE2101	Business English for Engineers	Incorporated	40
35	19MA2104	Differential Equations and Linear Algebra	Modified	80
36	19PH2151	Material Science	Modified	25
37	19ME2001	Engineering Practices	Modified	10
38	19CS1151	Python programming and practices	Incorporated	20
39	19CS2152	Essentials of C and C++ programming	Modified	20

**Overall Percentage of syllabus revision made in the BoS: 34.44 %**

**(ii) New courses Introduced:**

S.No.	Regulation	Course Code with Name	Credits
1.	2016	16CS7001- Cryptography and Network Security Laboratory	2
2	2016	16CS7002-Cloud Computing Laboratory	2
3	2016	16CS7201-Cryptography and Network Security	3
4	2016	16CS7202-Cloud computing	3
5	2016	16CS7203-Mobile Computing	3
6	2016	16CS7301-C# and .NET Programming	3
7	2016	16CS7302-Biometrics	3
8	2016	16CS7303- E-Commerce	3
9	2016	16CS7304-Wireless Sensor Networks	3
10	2016	16CS7305-Data Mining and Warehousing	3
11	2016	16CS7306-Digital Signal Processing	3
12	2016	16CS7307- Text Mining	3
13	2016	16CS7308-Soft computing	3
14	2016	16CS7309-Human Interface System Design	3
15	2016	16CS7310-Artificial Intelligence	3
16	2016	16CS7311-High speed Networks	3
17	2016	16CS7312-Semantic Web	3
18	2016	16CS7402-Optimization techniques	3
19	2016	16CS8301-Software project management	3
20	2016	16CS8302-Web technology	3
21	2016	16CS8303-Pervasive Computing	3
22	2016	16CS8304-Database Security and Privacy	3
23	2016	16CS8305-R programming	3
24	2016	16CS8306-Database Tuning	3
25	2016	16CS8307-Visual Programming	3
26	2016	16CS8308-Software testing	3
27	2016	16CS8309-High Performance Computing	3




28	2016	16CS8310-Management Information system	3
29	2016	16CS8311-Engineering Economics	3
30	2016	16CS8312-Big data Analytics	3
31	2016	16CS8901-Project Work	12
32	2019	19CS1151-Python programming and practices	3
33	2019	19EC1154-Basics of Electron devices and Electric Circuits	3
34	2019	19CS2152-Essentials of c and C++ programming	3
35	2019	19ME2154-Engineering Graphics	3
36	2019	19ME2001-Engineering Practices Laboratory	2

The following recommendations given by stakeholders are considered and incorporated.

- Students to be highly encouraged to participate in academic and co-curricular activities
- In this regulation, more Skill and employability oriented courses to be offered in the curriculum.

**General Recommendations:**

Subject Name	Suggestions	Explanation / Action Taken	Remarks
<b>Suggestions – R2016</b>			
Internet of Things	Suggested to include Higher order thinking as a case study (Ex: Create a unmanned supermarket for a common man to procure items using IOT concepts)	Suggestions passed on to the standing committee	Suggestions Approved
Web Technology	Suggested to include Higher order thinking as a case study (Ex: Create a web applications for online book store / online voting system for our district)		
Artificial Intelligence	Suggested to simplify the syllabus		
Optical Networks	Suggested to replace the course with some other relevant papers in Professional Elective – I		
Soft computing	Suggested to include the course as a professional elective course instead of Open Elective		
Common Suggestion	Suggested to include one credit courses from fourth semester onward	Suggestions passed on to the standing committee	Standing committee recommended to incorporate the Expert suggestions in Future
<b>Suggestions – R2019</b>			
Subject Name	Suggestions	Explanation / Action Taken	Remarks
Material Science	Suggested to remove Material Science from the second semester since this will be not be a constructive course for the engineering students	Since it is there in the AICTE model curriculum and that is the reason	Standing committee recommended to incorporate

		included in the second semester.	the Expert suggestions in Future
<b>Subject Name</b>	<b>Suggestions</b>	<b>Explanation / Action Taken</b>	<b>Remarks</b>
Environmental Science	Suggested to give as a mandatory and no credit course	Suggestions passed on to the standing committee	
Python programming and practices	Enquired why python is introduced in the first year.	Python is an easiest programming language to learn and to understand. For computer science stream, it is planned to introduce one programming language course is introduced in all the semesters. Python programming is common across all the branches.	Standing committee recommended to incorporate the Expert suggestions in Future
Internship training	Enquired why only 1 credit is given	Students those who are not interested in finding complex problems will do mini project in Project Phase I and another problem in Project work. Internship will be undergone by the students in the industry and how trustworthy a student completes the work is not aware by the institution.	
Project work	Suggested changing Project work as Project Phase II		
Professional Ethics and Intellectual Property rights	Suggested to remove the course from the elective and asked to give the course to MBA department as open electives.	Suggestions passed on to the standing committee	Suggestions Approved
Essentials of c and C++ programming	In the second semester C and C++ were combined together and given as a single course. It can be provided as two separate courses since C and C++ plays vital role in the CSE students during placement.	Suggestions passed on to the standing committee	Standing committee recommended to incorporate the Expert suggestions in Future
Common Suggestion	Suggested referring gate syllabus to frame the course syllabus so that it will be beneficial for the students for the placement and competitive examinations.		

	Suggested to update the edition and provide latest version or reprint year of the text and reference books in the syllabus		
	Suggested to change instructional hours to instructional periods in the syllabus		



**Chairman**

**Board of Studies**

**Chairman - BoS  
CSE - 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)  
Othakalmandapam Post, Coimbatore – 641 032

## Department of Electrical and Electronics Engineering

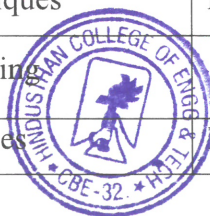
Date: 03.05.2019

### Action Taken Report on BoS

The meeting of Fourth Board of Studies of Regulation 2016 & Regulation 2019 for the Department of Electrical and Electronics Engineering Undergraduate Programme was conducted on 11.04.2019 at 10.00 a.m. in the Video Conference Hall, Central Library.

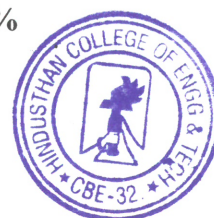
### Syllabus Revised and New Courses Introduced:

S.No.	Course Code	Course Title	Action Taken	Percentage Syllabus Revised
<b>Regulation 2016</b>				
1	16EE7201	Solid State Drives	Incorporated	20%
2	16EE7202	Electrical Energy Utilization and Conservation	Incorporated	25%
3	16EE7203	Power System Operation and Control	Incorporated	10%
4	16EE7001	Drives and Control Laboratory	Modified	5%
5	16EE7701	Technical Seminar	Incorporated	2%
6	16EE7702	Industrial Training / Internship	Incorporated	2%
7	16EE7301	Microcontroller Based System Design	Modified	25%
8	16EE7302	Micro Electro Mechanical Systems	Modified	10%
9	16EE7303	Solar Photo Voltaic Fundamentals & Applications	Modified	25%
10	16EE7304	Professional Ethics	Modified	15%
11	16EE7305	Advanced Control Theory	Incorporated	10%
12	16EE7306	Intelligent Control Techniques	Incorporated	20%
13	16EE7307	Communication Engineering	Modified	20%
14	16EE7308	Special Electrical Machines	Incorporated	20%



15	16EE7401	Lab VIEW for Engineering Applications	Modified	25%
16	16EE7403	Basics of Solar Photovoltaic Systems	Modified	30%
17	16EE8901	Project Work	Incorporated	2%
18	16EE8301	Application of Power Electronics for Renewable Energy Systems	Modified	15%
19	16EE8302	Biomedical Instrumentation	Incorporated	20%
20	16EE8303	Power System Dynamics	Incorporated	10%
21	16EE8304	Energy Management and Electrical Safety	Incorporated	20%
22	16EE8305	Computer Aided Design of Electrical Apparatus	Modified	5%
23	16EE8306	Industrial Electronics	Incorporated	20%
24	16EE8307	High Voltage Direct Current Transmission	Modified	20%
25	16EE8308	Total Quality Management	Incorporated	20%
<b>Regulation 2019</b>				
26	19PH1151	Applied Physics	Incorporated	30%
27	19HE1101	Technical English	Incorporated	60%
28	19MA1103	Calculus and Differential Equations	Incorporated	60%
29	19ME1152	Engineering Drawing	Incorporated	20%
30	19HE2101	Business English for Engineers	Incorporated	40%
31	19MA2102	Complex variables and Transform Calculus	Incorporated	20%
32	19PH2151	Material Science	Incorporated	25%
33	19ME2001	Engineering Practices Laboratory	Modified	10%

**Overall Percentage of syllabus revision made in the BoS: 28.75%**



**Syllabus related Recommendations:**

S. No	Suggestions given by BoS experts	Action taken
<b>R2016</b>		
1	In “Solid State Drives 16EE7201”, experts suggested to add V/f and slip power recovery scheme in unit-III and application of PI, PID controller to drive in unit V.	Implemented
2	In “16EE7201 Solid State Drives” a) Closed loop speed control for DC motors may be included in unit 2. b) Include application of PI & PID controllers for specific case studies in unit 5.	Included
3	Unit-I and unit-V to be modified based on Power Plant Engineering in “16EE7202-Electric Energy Utilization and Conservation”.	Modified
4	In “16EE7203-Power System Operation and Control”, straight line and exponential curve fitting techniques to be included.	Included
5	In 16EE8301 – Application of Power Electronics for Renewable Energy Systems: For including Higher Order Thinking “A case study on Applications of power electronics switches in renewable energy systems” may be included in unit-5.	Incorporated
<b>R2019</b>		
7	In “19EE2103-Basics of Electrical and Electronics Engineering” (i) Unit-I the title may be changed as “Electric circuits and measurements”, energy meter topic can be included. (ii) Unit-II include the topic “Three phase induction motor and its Applications”.	Included
8	In “19EE2151-Circuit Theory”, Unit-II the title can be modified as Network reduction and Network theorems for DC Circuits.	Modified
9	In “19EE2151-Circuit Theory” lab component include experiments related to simulation.	Incorporated

The following recommendations given by stakeholders are considered and incorporated.

- Subject wise industrial visit to be organized during each semester.
- More number of core industry/Institutional R&D laboratory/Research center to be visited by the students in their specific domain.



**General Recommendations:**

<b>S.No.</b>	<b>Suggestion given in the BoS experts</b>	<b>Action taken</b>
1	Suggested to verify whether bundled courses and fractional credits are permitted as per regulation.	Incorporated
2	For laboratory course syllabus reference has to be given as books or department manuals	Considered
3	Standard Text and Reference books should be preferred for all subjects with recent editions.	Incorporated



  
**Chairman**  
**Board of Studies**





# 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

## Department of Electronics and Communication Engineering

Date: 03.05.2019

### Action Taken Report on BoS

The Fourth Board of Studies meeting of Regulation 2016 & 2019 for the academic year 2019-20 was conducted on 12.04.19 at 10.30 am in Hindusthan College of Engineering and Technology in the Board room.

#### (i) Syllabus Revision:

S. No	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1.	16EC7201-Embedded and Real Time Systems	Incorporated	20%
2.	16EC7202-Wireless Communication	Modified	20%
3.	16EC7203-Microwave Engineering	Modified	5%
4.	16EC7301-Embedded Controllers	Modified	10%
5.	16EC7302-Fiber Optic Communication	Incorporated	20%
6.	16EC7303-High Speed Networks	Incorporated	25%
7.	16EC7304-Internet and Java	Modified	15%
8.	16EC7305-Mobile Communication	Modified	30%
9.	16EC7306-Satellite Communication	Incorporated	25%
10.	16EC7307-Artificial Intelligence	Incorporated	30%
11.	16EC7308-ASIC Design	Modified	5%
12.	16EC7309-Low Power VLSI	Modified	10%
13.	16EC7310-Network On Chip	Modified	5%
14.	16EC7311-Optimization Techniques	Incorporated	20%
15.	16EC7312-Robotics	Incorporated	30%
16.	16EC7402-Internet of Things	Modified	20%
17.	16EC7001-Embedded Systems Lab	Modified	10%
18.	16EC7002-Optical Communication and Microwave Lab	Incorporated	15%
19.	16EC8301-ARM System Architecture and Applications	Modified	25%
20.	16EC8302-Automotive Electronics	Incorporated	25%

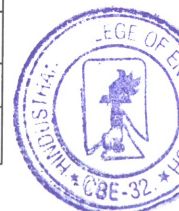


21.	16EC8303-E-Commerce Technology	Incorporated	20%
22.	16EC8304-Entrepreneurship Development	Modified	5%
23.	16EC8305-Industrial Automation	Modified	20%
24.	16EC8306-Real time Operating System	Modified	15%
25.	16EC8307-Disaster Management	Incorporated	10%
26.	16EC8308-Foundation Skills in Integrated Product Development	Modified	25%
27.	16EC8309-Intellectual Property Rights and Innovations	Modified	25%
28.	16EC8310-Operations Research	Incorporated	5%
29.	16EC8311-Total Quality Management	Modified	5%
30.	16EC8312-VLSI and Signal Processing	Incorporated	20%
31.	19PH1151 – Applied Physics	Incorporated	30%
32.	19HE1101 – Technical English	Incorporated	60%
33.	19MA1103- Calculus and Differential Equations	Incorporated	60%
34.	19HE2101 – Business English for Engineers	Incorporated	40%
35.	19MA2103- Linear Algebra, Numerical Methods and Transform Calculus	Incorporated	60%
36.	19PH2151 – Material Science	Incorporated	25%
37.	19ME2001– Engineering Practices Laboratory	Modified	10%

**Overall Percentage of syllabus revision made in the BoS: 28.89%**

**(ii) New courses Introduced:**

S.No.	Regulation	Course code with name	Credits
1.	2016	16EC7201-Embedded and Real Time Systems	3
2.	2016	16EC7202-Wireless Communication	3
3.	2016	16EC7203-Microwave Engineering	3
4.	2016	16EC7301-Embedded Controllers	3
5.	2016	16EC7302-Fiber Optic Communication	3
6.	2016	16EC7303-High Speed Networks	3
7.	2016	16EC7304-Internet and Java	3
8.	2016	16EC7305-Mobile Communication	3
9.	2016	16EC7306-Satellite Communication	3
10.	2016	16EC7307-Artificial Intelligence	3
11.	2016	16EC7308-ASIC Design	3
12.	2016	16EC7309-Low Power VLSI	3
13.	2016	16EC7310-Network On Chip	3
14.	2016	16EC7311-Optimization Techniques	3



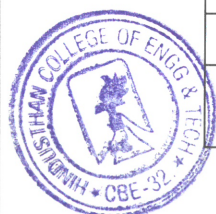
15.	2016	16EC7312-Robotics	3
16.	2016	16EC7402-Internet of Things	3
17.	2016	16EC7001-Embedded Systems Lab	2
18.	2016	16EC7002-Optical Communication and Microwave Lab	2
19.	2016	16EC7701-Technical Seminar/Implant Training/ Certification Course / Internship	1
20.	2016	16EC8301-ARM System Architecture and Applications	3
21.	2016	16EC8302-Automotive Electronics	3
22.	2016	16EC8303-E-Commerce Technology	3
23.	2016	16EC8304-Entrepreneurship Development	3
24.	2016	16EC8305-Industrial Automation	3
25.	2016	16EC8306-Real time Operating System	3
26.	2016	16EC8307-Disaster Management	3
27.	2016	16EC8308-Foundation Skills in Integrated Product Development	3
28.	2016	16EC8309-Intellectual Property Rights and Innovations	3
29.	2016	16EC8310-Operations Research	3
30.	2016	16EC8311-Total Quality Management	3
31.	2016	16EC8312-VLSI and Signal Processing	3
32.	2016	16EC8901-Project Work	10
33.	2019	19EC1153-Electron devices and Electric Circuits	3

The following recommendations given by stakeholders are considered and incorporated.

- Students to be highly encouraged to participate in academic and co-curricular activities
- Faculty and student interaction can be improved through peer group meeting/class committee meetings.

**Syllabus related Recommendations:**

S. No	Suggestions given by BoS experts	Action taken
1	Restructure the V unit of the subject 16EC7201-Embedded and Real Time Systems	Incorporated
2	Convert the subject 19EC1153 Electron devices and Electric circuits in semester I into 'Basics of Electrical Engg ' in semester I and 'Electron devices' in Semester II.	Considered
3	Structure the curriculum with the number of theory and Lab as 6+2 or 5+3.	Considered
4	Include 'Measurements and Instrumentation' as Professional core paper by reducing the additional credits given to tutorial papers.	Included
5	Reduce the credits in 7 <sup>th</sup> and 8 <sup>th</sup> semesters and increase in III -VI semesters.	Incorporated
6	Increase the number of professional electives to 6.	Considered
7	Course Objectives may be more general in a single line and course outcomes being more specific starting with an active verb. The course	Modified



	outcomes should be able to map with the Program outcomes from PO1 to PO12.	
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**General Recommendations:**

S.No	Suggestion given in the BoS experts	Action taken
1	For laboratory course syllabus reference has to be given as books or department manuals.	Incorporated
2	Standard Text and Reference books should be preferred for all subjects with recent editions.	Incorporated
3	The vision, PEO and PSO statements reframed in line with the changes made in the 2019 regulation curriculum.	Incorporated
4	For laboratory course syllabus reference has to be given as books or department manuals.	Incorporated

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**Chairman  
Board of Studies**

**Chairman - BoS  
ECE - HiCET**



## Department of Electronics and Instrumentation Engineering

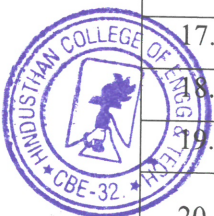
Date: 03.05.2019

### Action Taken Report on BoS

The meeting of Fourth Board of Studies of Regulation 2016 & Regulation 2019 for the Department of Electronics and Instrumentation Engineering Undergraduate programme was conducted on 05.04.2019 at 10 AM in the Video Conference Hall, Central Library.

#### (i) Syllabus Revision:

S. No.	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1.	16EI7201- Computer Control of Process	Incorporated	35%
2.	16EI7202- Industrial Data Networks	Modified	20%
3.	16EI7203- Programmable Logic and Distributed Control System	Included	20%
4.	16EI7001- Computer Control of Process and Simulation Laboratory	Modified	15%
5.	16EI7002- Instrumentation System Design Laboratory	Modified	30%
6.	16EI7301- Fiber Optics and Laser Instrumentation	Modified	25%
7.	16EI7302- Adaptive Control and System Identification	Included	30%
8.	16EI7303- Instrumentation in Cement and Steel Industries	Modified	20%
9.	16EI7304- Telemetry and Telecontrol	Incorporated	25%
10.	16EI7305- Instrumentation in Paper Industries	Modified	20%
11.	16EI7306- Micro Electro Mechanical Systems	Included	25%
12.	16EI7307- Non-Linear Control System	Incorporated	20%
13.	16EI7308- Sensor Technology	Modified	30%
14.	16EI8301- Instrumentation System Design	Included	20%
15.	16EI8302- Microcontroller Based System Design	Modified	30%
16.	16EI8303- Robotics and Automation	Incorporated	20%
17.	16EI8304- Nuclear Power Plant Instrumentation	Modified	30%
18.	16EI8305- Environmental Instrumentation	Included	20%
19.	16EI8306- Safety Instrumentation System	Incorporated	20%
20.	16EI8307- Instrumentation Systems for Disaster Management	Modified	30%
21.	16EI8308- Professional Ethics in Engineering	Incorporated	20%



22.	16EI7402- Electrical Energy Management	Included	25%
23.	16EI4205- Industrial Instrumentation- I	Incorporated	20%
24.	16EI6201- Process Control	Modified	20%
25.	16EI6304- Instrumentation in Petrochemical Industries	Included	20%
26.	19HE1101-Technical English	Incorporated	60%
27.	19MA1103- Calculus and Differential Equations	Incorporated	60%
28.	19PH1151- Applied Physics	Modified	30%
29.	19ME1152- Engineering Drawing	Modified	20%
30.	19HE2101- Business English for Engineers	Incorporated	40%
31.	19MA2102- Complex Variables and Transform Calculus	Incorporated	20%
32.	19PH2151- Material Science	Incorporated	25%
33.	19ME2001- Engineering Practices Laboratory	Modified	10%

**Overall Percentage of syllabus revision made in the BoS : 40.51 %**

**(ii) New courses Introduced:**

S. No.	Regulation	Course code with name	Credits
1.	2016	16EI7001- Computer Control of Process and Simulation Laboratory	2
2.	2016	16EI7002- Instrumentation System Design Laboratory	2
3.	2016	16EI7201- Computer Control of Process	3
4.	2016	16EI7202- Industrial Data Networks	3
5.	2016	16EI7203- Programmable Logic and Distributed Control System	3
6.	2016	16EI7301- Fiber Optics and Laser Instrumentation	3
7.	2016	16EI7302- Adaptive Control and System Identification	3
8.	2016	16EI7303- Instrumentation in Cement and Steel Industries	3
9.	2016	16EI7304- Telemetry and Telecontrol	3
10.	2016	16EI7305- Instrumentation in Paper Industries	3
11.	2016	16EI7306- Micro Electro Mechanical Systems	3
12.	2016	16EI7307- Non-Linear Control System	3
13.	2016	16EI7308- Sensor Technology	3
14.	2016	16EI8301- Instrumentation System Design	2
15.	2016	16EI8302- Microcontroller Based System Design	2
	2016	16EI8303- Robotics and Automation	3
	2016	16EI8304- Nuclear Power Plant Instrumentation	3
	2016	16EI8305- Environmental Instrumentation	3
	2016	16EI8306- Safety Instrumentation System	3



20.	2016	16EI8307- Instrumentation Systems for Disaster Management	3
21.	2016	16EI7402- Electrical Energy Management	3
22.	2016	16EI7701 – Internship/ Industrial Training	2
23.	2016	16EI8308 - Professional Ethics in Engineering	3
24.	2016	16EI8901 - Project Work	10
25.	2019	19HE1101 - Technical English	3
26.	2019	19MA1103 - Calculus and differential equations	4
27.	2019	19PH1151 - Applied physics	3
28.	2019	19CY1151 - Chemistry for engineers	3
29.	2019	19HE1071 - Language competency enhancement course- I	1
30.	2019	19CS1151 – Python Programming and Practices	3
31.	2019	19ME1152 - Engineering Drawing	3
32.	2019	19HE2101 - Business English	3
33.	2019	19MA2102 - Complex variables and transform calculus	4
34.	2019	19PH2151 - Material science	3
35.	2019	19CY2151 - Environmental studies	3
36.	2019	19HE2071 - Language competency enhancement course-II	1
37.	2019	19HE1073 - Entrepreneurship & innovation (sem I)	1
38.	2019	19HE1072 - Career guidance – level I (sem I) Personality, Aptitude and Career Guidance	1
39.	2019	19HE2072 - Career guidance – level II (sem II) Personality, Aptitude and Career Guidance	1
40.	2019	19EI2151 - Circuit theory	3
41.	2019	19ME2001/19EE2001 - Engineering Practices Laboratory	2
42.	2019	19CS2152 - Essentials of C and C++ Programming	3

The following recommendations given by stakeholders are considered and incorporated.

- Syllabus to be updated to meet the recent technology trends
- In Regulation 2019, Entrepreneurship oriented courses to be introduced as the ability enhancement courses.



**General Recommendations:**

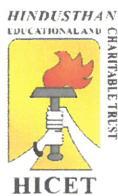
S.No.	Suggestion given in the BoS experts	Action taken
2	Suggested to verify whether bundled courses and fractional credits are permitted as per regulation.	Considered
3	For laboratory course syllabus reference has to be given as books or department manuals.	Considered
4	Standard Text and Reference books should be preferred for all subjects with recent editions.	Incorporated
5	In Open Elective, No trade Names as 'National Instruments' is allowed	Considered



**Chairman  
Board of Studies**

**Chairman - BoS  
EIE - 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)  
Othakalmandabam Post, Coimbatore – 641 032

## Department of MECHANICAL Engineering Action taken report on Board of Studies meeting

Action taken report for the Board of Studies meeting conducted for the Academic Year: 2019-2020 on 29.04.2019 at 11.00 a.m. in the Video Conference Hall, Central Library.

### (i) Syllabus Revision:

S. No.	Subject in which revision has been done		Action taken	Percentage Syllabus Revised (%)
1	16ME7201	Entrepreneurship and Business Concepts	Modified	20
2	16ME7202	Power Plant Engineering	Incorporated	20
3	16ME7203	Principles of Management	Incorporated	15
4	16ME7001	Comprehension Lab	Modified	15
6	16ME7301	Design of Jigs, Fixtures and Press Tools	Incorporated	15
7	16ME7302	Design for Manufacture and Assembly	Modified	20
8	16ME7303	Tool and Die Design	Incorporated	20
9	16ME7304	Design of Material Handling Equipment	Incorporated	25
10	16ME7305	Industrial Robotics and Expert Systems	Modified	20
11	16ME7306	Operations Research	Incorporated	20
12	16ME7307	Industrial Engineering	Incorporated	25
13	16ME7308	Production Planning and Control	Modified	15
14	16ME7309	Total Quality Management	Incorporated	20
15	16ME7310	Experimental Methods for Engineers	Incorporated	10
16	16ME7402	Renewable Energy Sources	Modified	5
18	16ME8301	Maintenance Engineering	Incorporated	20
19	16ME8302	Industrial Safety Engineering	Incorporated	25
20	16ME8303	Industrial Ergonomics	Modified	15
21	16ME8304	Metrology and Non Destructive Testing	Modified	20
22	16ME8305	Logistics and Supply Chain Management	Incorporated	25
23	16ME8306	Two and Three Wheeler Vehicle Technology	Incorporated	30



24	16ME8307	Manufacturing of Automotive Components	Modified	25
25	16ME8308	Hybrid Vehicles	Modified	20
26	16ME8309	Vehicle Maintenance	Incorporated	25
27	16ME8310	Heating, Ventilation and Air Conditioning Systems	Incorporated	20
28	19HE1101	Technical English	Modified	60
29	19PH1151	Applied Physics	Modified	30
30	19MA1102	Calculus and Linear Algebra	Incorporated	60
31	19ME1152	Engineering Drawing	Modified	20
32	19HE2101	Business English for Engineers	Incorporated	40
33	19MA2101	Differential Equations and Complex Variables	Modified	60
34	19ME2101	Engineering Mechanics	Modified	15
35	19PH2151	Material Science	Incorporated	25
36	19ME2001	Engineering Practices Laboratory	Modified	10

**Overall Percentage of syllabus revision made in the BoS: 36.05 %**

**(ii) New courses Introduced:**

S.No.	Regulation	Course code with name		Credits
1.	2016	16ME7001	Comprehension Lab	2
2.	2016	16ME7201	Entrepreneurship and Business Concepts	3
3.	2016	16ME7202	Power Plant Engineering	3
4.	2016	16ME7203	Principles of Management	3
5.	2016	16ME7301	Design of Jigs, Fixtures and Press Tools	3
6.	2016	16ME7302	Design for Manufacture and Assembly	3
7.	2016	16ME7303	Tool and Die Design	3
8.	2016	16ME7304	Design of Material Handling Equipments	3
9.	2016	16ME7305	Industrial Robotics and Expert Systems	3
10.	2016	16ME7306	Operations Research	3
11.	2016	16ME7307	Industrial Engineering	3
12.	2016	16ME7308	Production Planning and Control	3
13.	2016	16ME7309	Total Quality Management	3
14.	2016	16ME7310	Experimental Methods for Engineers	3
15.	2016	16ME7402	Renewable Energy Sources	3
16.	2016	16ME7901	Project Work – Phase I	3



17	2016	16ME8301	Maintenance Engineering	3
18	2016	16ME8302	Industrial Safety Engineering	3
19	2016	16ME8303	Industrial Ergonomics	3
20	2016	16ME8304	Metrology and Non-Destructive Testing	3
21	2016	16ME8305	Logistics and Supply Chain Management	3
22	2016	16ME8306	Two and Three-Wheeler Vehicle Technology	3
23	2016	16ME8307	Manufacturing of Automotive Components	3
24	2016	16ME8308	Hybrid Vehicles	3
25	2016	16ME8309	Vehicle Maintenance	3
26	2016	16ME8310	Heating, Ventilation and Air Conditioning Systems	3
27	2016	16ME8902	Project Work – Phase II	6

The following recommendations given by stakeholders are considered and incorporated.

1. Students are highly encouraged to participate in academic and co-curricular activities
2. Hybrid Vehicles course is offered as a New era technology course.

### **General Recommendations:**

#### **Suggestions – Regulation 2016**

<b>Subject Name</b>	<b>Suggestions</b>	<b>Explanation / Action Taken</b>	<b>Remarks</b>
16ME7202 - Power Plant Engineering	Suggested that, Pollution control technologies should be included in Unit-III.	Suggestions passed on to the standing committee	Suggestions Approved
16ME7203 - Principles of Management	Suggested that, the Current trends and issues in Management can be added in the Unit-I.		
16ME8304 - Metrology and Non Destructive Testing	Suggested that, Simple CMM exercise models can be given in Unit-I.		
16ME8306 - Two and Three Wheeler Vehicle Technology	Suggested to include Electric vehicle topic in Unit-V. Suggested that, E- Vehicles in campus and on roads to be added and also to remove the vehicles brand names.		
Soft computing	Suggested to include the course as a professional elective course instead of Open Elective		
Common Suggestion	Suggested to verify whether bundled courses and fractional credits are permitted as per regulation.		



	Suggested that, For laboratory course syllabus reference has to be given as books or department manuals.		
	Suggested that, Standard Text and Reference books should be preferred for all subjects with recent editions.		

**(i) Syllabus Revision: Regulation 2019**

S.No	Subject in which revision has been done		Action taken	Percentage Syllabus Revised
1.	19PH2151	Material science	Modified	15
2.	19ME2101	Engineering Mechanics	Incorporated	10
3.	19ME1152	Engineering Drawing	Modified	10

**Overall Percentage of syllabus revision made in the BoS: %**

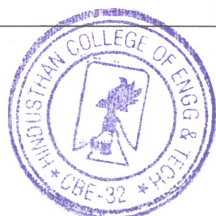
**(ii) New courses Introduced:**

S.No.	Regulation	Course code with name		Credits
1.	2019	19ME1152	Engineering Drawing	3
3.	2019	19ME2001	Engineering Practices Laboratory	2
4.	2019	19ME2101	Engineering Mechanics	3

**General Recommendations:**

**Suggestions – Regulation 2019**

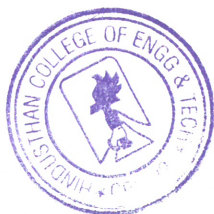
Subject Name	Suggestions	Explanation / Action Taken	Remarks
19ME1152 - Engineering Drawing	Suggested that the exercises should be related to Mechanical components.		
19MA1102 - Calculus and Linear Algebra	<p>Suggested the following changes:</p> <ul style="list-style-type: none"> <li>● Mechanical applications to be mentioned in Unit-I. Examples of maxima and minima (minimization of weight, maximization of pump efficiency).</li> <li>● Mechanical models for green theorem to be incorporated in Unit–III.</li> <li>● Eigen values: examples of natural frequency of mechanical components to be mentioned in Unit-V.</li> <li>● In Hamilton theorem FEA applications can be mentioned.</li> </ul>	Suggestions passed on to the standing committee	Standing committee recommended to incorporate the Expert suggestions in Future



19PH2151 Physics of Materials	Suggested that, Lab experiments should be relevant to the theory topics. Suggested that, '5 <sup>th</sup> experiment topic in material science lab' can be taken to 'applied physics lab'. Mechanical applications should be given in Unit-II and Unit-III.		
19CY2151 - Environmental Sciences	Suggested to convert as theory lab component instead of theory subject. Suggested that environment legislation act can be added in Unit-IV. Suggested that Causes of Tsunami and cyclones can be included.		
19MA3101- Fourier Series and Statistics	Suggested that, sine and cosine series mechanical examples have to be mentioned. Suggested that, In harmonic analysis 'shaft with unbalanced force examples' can be mentioned.		
19ME4201 Manufacturing Technology – II	Suggested that, Numerical control machine tools can be removed from Unit-V. Suggested that, Overviews on micromachining and IOT can be added.		
Common Suggestion	Suggested to verify whether bundled courses and fractional credits are permitted as per regulation.		
	Suggested that, For laboratory course syllabus reference has to be given as books or department manuals.		
	Suggested that, Standard Text and Reference books should be preferred for all subjects with recent editions.		

  
 Chairman

Board of Studies  
**Chairman - BoS**  
**MECH - HiCET**



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## Department of Mechatronics Engineering

Date: 25.04.2019

### Action Taken Report on BoS

The meeting of Fourth Board of Studies of Regulation 2016 & 2019 for the Department of Mechatronics Engineering Undergraduate programme was conducted on 05.04.2019 at 11.30 am in the Video Conference Hall, Central Library.

#### (i) Syllabus Revision:

S. No.	Subject in which revision has been done	Action Taken	Percentage Syllabus Revised
1	16MT7201 - Design of Mechatronics Systems	Modified	25%
2	16MT7202 - Robotics and Machine Vision	Modified	20%
3	16MT7001 - Robotics Laboratory	Modified	25%
4	16MT7301 - MEMS and Microsystems	Included	25%
5	16MT7302 - Factory Automation	Modified	25%
6	16MT7303 - Six Sigma and Lean Manufacturing	Included	15%
7	16MT7304 - Non Destructive Testing	Modified	5%
8	16MT7305 - Intelligent Manufacturing System	Modified	25%
9	16MT7306 - Essentials of Software Project Management	Modified	20%
10	16MT7307 - Rapid Prototyping and Reverse Engineering	Included	25%
11	16MT7308 - Computer Control of Manufacturing System	Modified	5%
12	16MT7309 - Total Quality Management	Included	10%
13	16MT7310 - Engineering Economics and Cost Analysis	Modified	5%
14	16MT7311 - Nano Technology	Modified	25%
15	16MT7312 - Signals and Systems for Mechatronics	Modified	20%
16	16MT7402 - Electric and Hybrid Vehicles	Included	25%
17	16MT8301 - Information System for Engineers	Included	10%
18	16MT8302 - Industrial IoT	Modified	30%
19	16MT8303 - Entrepreneurship Development	Modified	30%
20	16MT8304 - Mobile Robotics	Included	25%
21	16MT8305 - Artificial Intelligence for Mechatronics Engineering	Modified	25%
22	16MT8306 - Modern Wireless Communication Systems	Included	15%
23	16MT8307 - Professional Ethics in Engineering	Modified	10%
24	16MT8308 - Non-Conventional Energy Sources	Included	40%

25	16MT8309 - Foundation Skills in Integrated Product Development	Modified	25%
26	16MT8310 - Digital Image Processing Techniques	Included	10%
27	16MT8311 - Textile Automation	Modified	25%
28	16MT8312 - Micro Manufacturing	Modified	25%
29	19HE1101 – Technical English	Included	60%
30	19PH1151 – Applied Physics	Modified	30%
31	19MA1102 – Calculus and Linear Algebra	Included	60%
32	19ME1152 – Engineering Drawing	Included	20%
33	19HE2101 – Business English for Engineers	Modified	40%
34	19MA2101 – Differential Equations and Complex Variables	Modified	60%
35	19ME2101 – Engineering Mechanics	Modified	15%
36	19PH2151 – Material Science	Modified	25%
37	19ME2001 – Engineering Practices Lab	Modified	10%
38	19MT2153-Basics of Mechatronics Engineering	Included	40%

**Overall Percentage of syllabus revision made in the BoS: 33.71 %**

**(ii) New Courses Introduced:**

S.No.	Regulation	Course code with name	Credits
1.	2016	16MT7001-Robotics Laboratory	2
2.	2016	16MT7201-Design of Mechatronics Systems	3
3.	2016	16MT7202-Robotics and Machine Vision	3
4.	2016	16MT7301-MEMS and Microsystems	3
5.	2016	16MT7302-Factory Automation	3
6.	2016	16MT7303-Six Sigma and Lean Manufacturing	3
7.	2016	16MT7304-Non-Destructive Testing	3
8.	2016	16MT7305-Intelligent Manufacturing System	3
9.	2016	16MT7306-Essentials of Software Project Management	3
10.	2016	16MT7307-Rapid Prototyping and Reverse Engineering	3
11.	2016	16MT7308-Computer Control of Manufacturing System	3
12.	2016	16MT7309-Total Quality Management	3
13.	2016	16MT7310-Engineering Economics and Cost Analysis	3
14.	2016	16MT7311-Nano Technology	3



15.	2016	16MT7312-Signals and Systems for Mechatronics	3
16.	2016	16MT7402-Electric and Hybrid Vehicles	3
17.	2016	16MT7901-Design and Fabrication Project	4
18.	2016	16MT8301-Information System for Engineers	3
19.	2016	16MT8302-Industrial IoT	3
20.	2016	16MT8303-Entrepreneurship Development	3
21.	2016	16MT8304-Mobile Robotics	3
22.	2016	16MT8305-Artificial Intelligence for Mechatronics Engineering	3
23.	2016	16MT8306-Modern Wireless Communication Systems	3
24.	2016	16MT8307-Professional Ethics in Engineering	3
25.	2016	16MT8308-Non conventional Energy Sources	3
26.	2016	16MT8309-Foundation Skills in Integrated Product Development	3
27.	2016	16MT8310-Digital Image Processing Techniques	3
28.	2016	16MT8311-Textile Automation	3
29.	2016	16MT8312-Micro Manufacturing	3
30.	2016	16MT8902-Project Work	3
31.	2019	19HE1101-Technical English	3
32.	2019	19MA1102-Calculus and linear algebra.	4
33.	2019	19PH1151-Applied physics	3
34.	2019	19CY1151-Chemistry for engineers	3
35.	2019	19HE1071-Language competency enhancement course- I	1
36.	2019	19CS1151-Python Programming and Practices	3
37.	2019	19ME1152-Engineering Drawing	3
38.	2019	19HE2101-Business English	3
39.	2019	19MA2101-Differential equations and complex variables	4
40.	2019	19PH2151-Material science	3
41.	2019	19CY2151-Environmental studies	3
42.	2019	19ME2101-Engineering Mechanics	3
43.	2019	19HE2071-Language competency enhancement course-II	1
44.	2019	19HE1073-Entrepreneurship & innovation (sem I)	0
45.	2019	19HE1072-Career guidance – level I (sem I) Personality, Aptitude and Career Guidance	0
46.	2019	19HE2072-Career guidance – level II (sem II) Personality, Aptitude and Career Guidance	0
47.	2019	19MT2153-Basics of Mechatronics Engineering	3
48.	2019	19ME2001-Engineering Practices Laboratory	2



The following recommendations given by stakeholders are considered and incorporated.

- EDC club to be effectively conducted more awareness events for entrepreneurship among the student's community
- Subject wise industrial visit to be organized during each semester.

**General Recommendations:**

S.No.	Suggestion given by the BoS experts	Action taken
1	University Nominee suggested to include a common sentence "The students will be able to" before course outcome for all subjects.	Considered

*S. Dasgupta*

**Chairman  
Board of Studies**

**Chairman - BoS  
MCT - HiCET**





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## Department of Information Technology

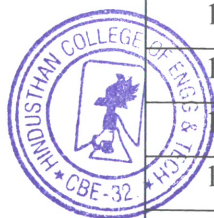
Date: 11.04.2019

### Action Taken Report on BoS

The meeting of Fourth Board of Studies of Regulation 2016 & Regulation 2019 for the Department of Information Technology Undergraduate programme was conducted on 09.04.2019 at 10 A.M in the Video Conference Hall, Central Library.

#### (i) Syllabus Revision:

S. No.	Subject in which revision has been done		Action taken	Percentage Syllabus Revised
1.	16IT7201	Data Analytics	Modified	35%
2.	16IT7202	Distributed And Cloud Computing	Modified	20%
3.	16IT7203	Internet of Things	Included	30%
4.	16IT7001	Application Development Laboratory	Included	30%
5.	16IT7002	Distributed and Cloud Computing Laboratory	Included	5%
6.	16IT7301	Multimedia Design and Storage	Modified	20%
7.	16IT7302	Knowledge Based Decision Support System	Modified	20%
8.	16IT7303	Computer Hardware and Peripherals	Modified	10%
9.	16IT7304	Wireless Security	Modified	20%
10.	16IT7305	Social Network Analysis	Modified	40%
11.	16IT7306	Service Oriented Architecture	Modified	30%
12.	16IT7307	Digital Image Processing	Modified	25%
13.	16IT7310	Wireless Communication	Modified	15%
14.	16IT7311	Semantic Web	Modified	30%
15.	16IT7312	Software Project Management	Modified	10%
16.	16IT8301	Virtual and Augmented Reality	Modified	40%
17.	16IT8302	Natural Language Processing	Modified	10%
18.	16IT8303	Advanced Database Technology	Modified	15%
19.	16IT8304	Mobile and Adhoc Networks	Modified	10%

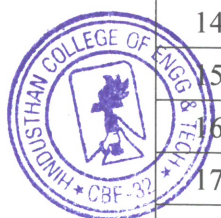


20.	16IT8306	Enterprise Resource Planning	Modified	30%
21.	16IT8309	Information Storage and Retrieval	Modified	30%
22.	16IT8311	Grid Computing	Modified	10%
23.	16IT8312	E-Commerce	Modified	15%
24.	16IT7402	Web Development Essentials	Modified	20%
25.	19HE1101	Technical English	Modified	60%
26.	19MA1101	Calculus	Incorporated	25%
27.	19PH1151	Applied Physics	Incorporated	30%
28.	19HE2101	Business English for Engineers	Incorporated	40%
29.	19MA2104	Differential Equations and Linear Algebra	Modified	80%
30.	19PH2151	Material Science	Modified	25%
31.	19ME2001	Engineering Practices	Modified	10%

**Overall Percentage of syllabus revision made in the BoS : 26.37 %**

**(ii) New courses Introduced:**

S.No.	Regulation	Course code with name	Credits
1	2016	16IT7001 - Application Development Laboratory	2
2	2016	16IT7002 - Distributed and Cloud Computing Laboratory	2
3	2016	16IT7201 - Data Analytics	3
4	2016	16IT7202 - Distributed And Cloud Computing	3
5	2016	16IT7203 - Internet of Things	3
6	2016	16IT7301 - Multimedia Design and Storage	3
7	2016	16IT7302 - Knowledge Based Decision Support System	3
8	2016	16IT7303 - Computer Hardware and Peripherals	3
9	2016	16IT7304 - Wireless Security	3
10	2016	16IT7305 - Social Network Analysis	3
11	2016	16IT7306 - Service Oriented Architecture	3
12	2016	16IT7307 - Digital Image Processing	3
13	2016	16IT7308 - Genetic Algorithms	3
14	2016	16IT7309 - Advanced Data Structures	3
15	2016	16IT7310 - Wireless Communication	3
16	2016	16IT7311 - Semantic Web	3
17	2016	16IT7312 - Software Project Management	3
18	2016	16IT7402 - Web Development Essentials	3
19	2016	16IT7901 - Project Work - Phase I	2



20	2016	16IT8301 - Virtual and Augmented Reality	3
21	2016	16IT8302 - Natural Language Processing	3
22	2016	16IT8303 - Advanced Database Technology	3
23	2016	16IT8304 - Mobile and Adhoc Networks	3
24	2016	16IT8305 - Media Analytics	3
25	2016	16IT8306 - Enterprise Resource Planning	3
26	2016	16IT8307 - Multimedia Mining	3
27	2016	16IT8308 - Speech Processing	3
28	2016	16IT8309 - Information Storage and Retrieval	3
29	2016	16IT8310 - Pervasive Computing	3
30	2016	16IT8311 - Grid Computing	3
31	2016	16IT8312 - E-Commerce	3
32	2019	19IT2151 - Programming in C	3

The following recommendations given by stakeholders are considered and incorporated.

- More number of core industry/Institutional R&D laboratory/ Research center to be visited by the students in their specific domain.
- Students to be highly encouraged to participate in academic and co-curricular activities

**(iii) Syllabus related Recommendations:**

S. No	Suggestions given by BoS experts	Action taken
1	BoS Members suggested to remove Hadoop framework in 16IT7201-Data Analytics since the same is repeated in 16IT7202 -Distributed and Cloud Computing subject. (R2016)	Modified
2	BoS Members suggested to revise Unit 2 based on Distributed Systems concepts in 16IT7202-Distributed and Cloud Computing.	Modified
3	BoS Members suggested to include IoT Fundamentals: Networking Technologies, Protocols and use cases for the internet of things by David Hanes, Gonzalo Salgueiro, Patrick Grossetete, Robert Barton, Jerom Henry, and CISCO Press 2017 as Text Book in 16IT7203-Internet of Things subject. (R2016)	Included
4	BoS Members suggested to include 5 to 6 experiments along with Mini Projects in 16IT7001-Application Development Lab	Included



*Rij*  
**Chairman**  
**Board of Studies**

**Chairman - BoS**  
**IT - HiCET**

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## Department of Agriculture Engineering

Date:14.04.2019

### Action Taken Report on BoS

The meeting of the second Board of Studies of Regulation 2016 and 2019 for the Department of Agriculture Engineering Undergraduate programme was conducted on 12.04.2019 at the CSE Seminar Hall, Hindusthan College of Engineering and Technology.

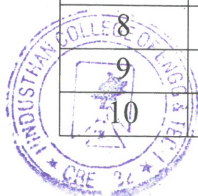
### Syllabus Revision

S. No.	Subject Code	Subject Name	Action taken	Percentage Syllabus Revised (%)
1	19HE1101	Technical English	Incorporated	60
2	19PH1151	Applied Physics	Incorporated	30
3	19MA1102	Calculus and Linear Algebra	Incorporated	60
5	19HE2101	Business English for Engineers	Incorporated	40
6	19MA2101	Differential Equations and Complex Variables	Modified	60
7	19PH2151	Material Science	Modified	25
8	19ME2001	Engineering Practices Laboratory	Modified	10

Overall Percentage of syllabus revision made in the BoS: 19.35%

### New Courses Introduced for 2016 and 2019 Regulation

S. No.	Regulation	Course Code with Name	Credits
1	2016	16AG3201- Soil Science and Engineering	3
2	2016	16AG3202- Fluid Mechanics and Hydraulics	3
3	2016	16AG3001- Fluid Mechanics Laboratory	3
4	2016	16AG4201- Unit Operations in Agricultural Processing	3
5	2016	16AG4202- Farm Tractors	3
6	2016	16AG4203- Hydrology and Water Resources Engineering	3
7	2016	16AG4204- Irrigation and Drainage Engineering	3
8	2016	16AG4001- Soil Science Laboratory	2
9	2016	16AG4002- Irrigation Field Laboratory	2
10	2019	19AG2104- Principles of Food Science	3



**Syllabus related Recommendations in 2016 and 2019 Regulation**

S. No.	Suggestions given by BoS experts	Action taken
1.	In 3 <sup>rd</sup> sem, "16AG3201- Soil Science and Engineering" suggested adding 'Engineering Properties of Soil' in Unit IV and Terzaghi's formula- BIS standards topic added in unit 5.	Included
2.	Suggested that, In 3 <sup>rd</sup> sem, '16AG3202- FLUID MECHANICS AND HYDRAULICS course, suggested to add Centrifugal pumps and types of pumps' topic can be added in Unit 5	Included
3.	In 4 <sup>th</sup> sem, "16AG4202- IRRIGATION AND DRAINAGE ENGINEERING' Course" syllabus, Water control and diversion structure could be added in unit 2.	Included
4	In 2 <sup>nd</sup> Sem "19AG2104- Principles of Food Science", course add as core for Agriculture Engineering	Included
5	In 3 <sup>rd</sup> Suggested to rename the subject name for '19AGXXXX- Design of Farm Tractors- as a 'Farm Tractors'.	Included
6	In 4 <sup>th</sup> Sem, '19AGXXXX Groundwater Engineering' course may be renamed as 'Groundwater and Well Engineering	Included

The following recommendations given by stakeholders are considered and incorporated.

- Value added course on Prototype Modelling has been introduced.
- Value added courses to be introduced for students to excel in their specific domain.

**General Recommendations:**

S. No.	Suggestion given in the BoS experts	Action taken
1	Board suggested to include recent editions of Text and Reference books should be preferred for all subjects with recent editions.	Considered
2	Suggested to include a common sentence "The students will be able to" before course outcome for all subjects	Considered
3	Suggested that Theory with lab component course can be limited with 5 experiments and Identification and Working of Equipment' can be included as any experiment in Laboratory course.	Considered
4	To encourage students for learn the additional course through online platform	Considered



*[Signature]*  
Chairman

**Board of Studies  
Chairman - BoS  
AGRI - HICET**



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Date: 10.04.2019

## Action Taken Report on BoS

Name of the Department: Biomedical Engineering

The Second Board of studies meeting of the Department Biomedical Engineering was conducted on 08.04.2019. The Board of studies members Reviewed Regulation 2016 and 2019, Curriculum and Syllabus 2016&2019 of Biomedical Engineering for the academic year 2019 - 2020. This report consolidates the findings of the panel and the suggestions and area of improvements possible in the future put forth by the panel.

### (i) Syllabus Revision

S. No	Subject Code and Name	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1.	19CS1151	Programming in C	Suggestion Approved	10%
2.	19EE1155	Basics of Electrical Engineering	Suggestion Approved	10%
3.	19PH1151	Applied Physics	Suggestion Approved	25%
4.	19HE1101	Technical English	Suggestion Approved	60%
5.	19HE2101	Business English for Engineers	Suggestion Approved	40%
6.	19PH2151	Material Science	Suggestion Approved	15%
7.	19ME2001	Engineering Practices Laboratory	Suggestion Approved	10%

Overall Percentage of Syllabus Revision made in the BoS: 22.58%



**(ii) Courses Introduced**

S.No.	Course Code	Course Title	Credit
1.	19HE1101	Technical English	3
2.	19MA1103	Calculus and Differential Equations	4
3.	19PH1151	Applied Physics	3
4.	19CY1151	Chemistry for Engineers	3
5.	19CS1151	Python Programming and Practices	3
6.	19EE1155	Basics of Electrical Engineering	3
7.	19HE1071	Value Added Course I : Language Competency Enhancement Course - I	1
8.	19HE2101	Business English for Engineers	3
9.	19MA2102	Complex Variables and Transform Calculus	4
10.	19PH2151	Material Science	3
11.	19CY2151	Environmental Studies	3
12.	19CS2152	Essentials of C & C++ Programming	3
13.	19ME2154	Engineering Graphics	3
14.	19ME2001	Engineering Practices Laboratory	2
15.	19HE2071	Language Competency Enhancement Course - II	1
16.	16MA3111	Fourier Analysis and Z Transforms	4
17.	16BM3201	Sensors and Measurement	4
18.	16BM3202	Human Anatomy and Physiology	3
19.	16BM3203	Bioelectric Phenomena	3
20.	16BM3204	Medical Biochemistry	3
21.	16CS3232	Fundamentals of Data Structures in C	3
22.	16BM3001	Biochemistry Lab	2
23.	16CS3032	Data Structures Lab	2
24.	16MA4112	Applied Statistics & Numerical Methods	4
25.	16BM4201	Pathology and Microbiology	3
26.	16BM4202	Linear Integrated Circuits	3
27.	16BM4203	Digital Electronics	3
28.	16EE4231	Basics of Electrical Engineering	3
29.	16HE4103	Professional Ethics in Engineering	3
30.	16BM4001	Human Physiology Laboratory	3
31.	16BM4002	Linear Integrated Circuits Lab	2





S.No.	Suggestions / Comments given by the Members	Action Taken
1	The first Semester Subject First 19CS1151 Programming in C then Python Programming may be included in the I semester curriculum.	Suggestion Approved
2	The first Semester 19EE1155 Add Basics of Electrical Engineering may be included in the I semester curriculum.	Suggestion Approved
3	The second Semester 19BMXXXX Add radiation physics and laser to radiological equipment may be included in the II semester curriculum.	Suggestion Approved
4	The second Semester 19BM3001 Separate lab for Electron circuits may be included in the II semester curriculum.	Suggestion Approved
5	The third Semester 16BM3202 Rename Anatomy and Human Physiology as Human Anatomy and Physiology	Suggestion Approved
6	The third Semester 16BM3204 Check if Biochemistry syllabus overlaps with Engineering Chemistry	Suggestion Approved
7	The third Semester 16BMXXXX Remove Medical Physics and add radiation physics to Radiological Equipment	Suggestion Approved

### General Recommendations:

The following recommendations given by stakeholders are considered and incorporated.

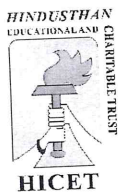
- Students to be involved actively with various skill-oriented training and club related activities.
- Opportunities to be provided to students to expose them to latest developments and advancements by conducting symposium, National/ international conferences, Seminar, Webinar, Lecturers/Workshop/Exhibitions.



*Jyoti*

Chairman  
Board of Studies

Chairman BoS  
BME - HiCET



# Hindusthan College of Engineering and Technology

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 Othakalmandapam Post, Coimbatore – 641 032

Date: 14.04.2019

## ACTION TAKEN REPORT

**Name of the Department:** Food Technology

The Board of studies meeting of the Department of Food Technology was conducted on 12.04.2019. The Board of studies members Reviewed Regulation 2016 and 2019, Curriculum and Syllabus 2016 & 2019 of Food Technology for the academic year 2019 - 2020. This report consolidates the findings of the panel and the suggestions and area of improvements possible in the future put forth by the panel.

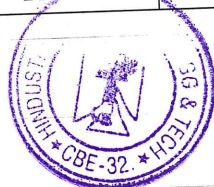
### Syllabus Revision:

S. No.	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1.	19MA1102 - Calculus and linear algebra	Incorporated	60%
2.	19PH1151 - Applied physics	Incorporated	30%
3.	19MA2101-Differential Equations and Complex Variables	Modified	60%
4.	19PH2151- Material science	Modified	25%
5.	19ME2001- Engineering Practices Laboratory	Incorporated	10%
6.	19HE1101 - Technical English	Incorporated	60%
7	19HE2101-Business English for Engineers	Incorporated	40%

**Overall Percentage of syllabus revision made in the BoS: 19.35 %**

### (ii) New courses Introduced:

S.No.	Regulation	Course Code with Course name	Credits
1.	R 2016	16MA3111 - Fourier analysis and Z- transform (AGRI, BM, FT)	4
2.	R 2016	16FT3201 - Fluid Mechanics	4
3.	R 2016	16FT3202 - Food Process Calculations	4
4.	R 2016	16FT3203- Food Microbiology	3
5.	R 2016	16FT3204- Food Chemistry	3
6.	R 2016	16FT3205 - Applied Thermodynamics	3
7.	R 2016	16FT3001 - Food Microbiology Laboratory	2
8.	R 2016	16FT3002 - Food Chemistry Laboratory	2



9.	R 2016	16MA4112 - Applied Statistics & Numerical Methods	4
10.	R 2016	16FT4201 - Engineering Properties of Food Materials	3
11.	R 2016	16FT4202 - Fundamentals of Heat and Mass Transfer	4
12.	R 2016	16FT4203 - Food Process Engineering - I	4
13.	R 2016	16FT4204 - Food Analysis	3
14.	R 2016	16HE4101 - Total Quality Management	3
15.	R 2016	16FT4001 - Food Analysis Laboratory	2
16.	R 2016	16FT4002 - Heat and Mass transfer Laboratory	2
17.	R 2019	19HE1101 - Technical English	3
18.	R 2019	19MA1102 - Calculus and linear algebra.	4
19.	R 2019	19PH1151 - Applied physics	3
20.	R 2019	19CS1151- Python Programming and Practices	3
21.	R 2019	19HE1071 - Language competency Enhancement course- I	1
22.	R 2019	19ME1101 - Basics of Civil and Mechanical Engineering	3
23.	R 2019	19HE2101 - Business English for Engineers	3
24.	R 2019	19MA2101 - Differential Equations and Complex Variables	4
25.	R 2019	19PH2151 - Material science	3
26.	R 2019	19HE2071 - Language Competency Enhancement Course-II	1
27.	R 2019	19IT2151 - Programming in C	3
28.	R 2019	19FT2201 - Principles of Microbiology	3

The Following recommendations given by stakeholders are considered and incorporated

- EDC club is effectively conducting more awareness events for entrepreneurship among the student's community
- Subject wise industrial visit are organized during each semesters.

**General Recommendations:**

1. University Nominee suggested to participate in conferences, seminars and project workshops that will explore the knowledge of students.
2. Subject experts suggested to participate in online training courses.



*[Signature]*  
Chairman

Board of Studies

**Chairman - BoS  
FT - HICET**

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Date: 02.05.2019

## ACTION TAKEN REPORT ON BOS

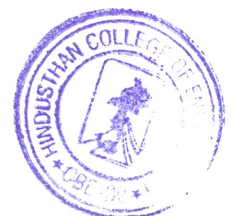
### Name of the Department: Chemical Engineering

The First Board of Studies of Regulation 2019 for the Department of Chemical Engineering Under Graduate Programme was conducted on 12.04.2019 at 10.00 AM, in Video Conference Hall, Central library, Hindusthan College of Engineering and Technology.

- (I) The corrections were made towards renaming the courses Process Heat Transfer, Mechanical Operations and Process Control Laboratory.
- (II) Other general comments like reference for lab manual, standard text and reference book for the courses also incorporated.
- (III) Semester - I Courses Introduced for B.Tech Chemical Engineering Passed by the Boards of Science and Humanities, Computer Science and Engineering and Mechanical Engineering and permitted by the members of the board of Chemical Engineering.
- (IV) The basic laws as recommended by members were incorporated in the course Principles of Chemical Engineering.
- (V) Semester - II Courses Introduced for B.Tech Chemical Engineering Passed by the Boards of Science and Humanities, Electrical and Electronics Engineering and Mechanical Engineering and permitted by the members of the board of Chemical Engineering.

### Semester - I Courses

S.No.	Course Code	Course Title
<b>THEORY</b>		
1	19HE1101	Technical English
2	19MA1102	Calculus and Linear Algebra
<b>THEORY &amp; LAB COMPONENT</b>		
3	19PH1151	Applied Physics
4	19CY1151	Chemistry for Engineers
5	19CS1151	Python Programming and Practices
6	19ME1152	Engineering Drawing
<b>VALUE ADDED COURSE</b>		
7	19HE1071/ 19HE1071R	Language Competency Enhancement Course-I
<b>PRACTICAL</b>		
8	19AC1191	Induction Program



## Semester – II Courses

S.No.	Course Code	Course Title
<b>THEORY</b>		
1	19HE2101	Business English for Engineers
2	19MA2101	Differential Equations and Complex Variables
3	19EE2103	Basics of Electrical and Electronics Engineering
4	19CH2101	Principles of Chemical Engineering
<b>THEORY &amp; LAB COMPONENT</b>		
5	19PH2151	Physics of Materials
6	19CY2151	Environmental Studies
<b>PRACTICAL</b>		
7	19ME2001	Engineering Practices Lab
8	19HE2071/ 19HE2071R	Language Competency Enhancement Course-II

The following recommendations given by stakeholders are considered and incorporated.

- EDC club to be effectively conducted more awareness events for entrepreneurship among the student's community
- In this regulation, more Skill and employability oriented courses to be offered in the curriculum.



Chairman  
Board of Studies

**Chairman - BoS  
CHE - HiCET**





# **Hindusthan College of Engineering and Technology**

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Othakalmandabam Post, Coimbatore – 641 032

## **Department of Electrical and Electronics Engineering**

Date: 14.04.2019

### **Action Taken Report on BoS**

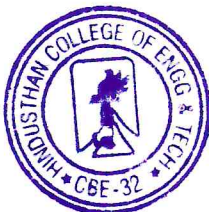
Action taken report for the Board of Studies meeting conducted for the Academic Year: 2019-2020 on 11.04.2019 at 10.30 p.m. in the Video Conference Hall, Central Library:

<b>BOS Members Suggestions</b>			
<b>Subject Name</b>	<b>Suggestions</b>	<b>Explanation / Action Taken</b>	<b>Remarks</b>
For I - IV Semester	The curriculum and syllabus of this semester were reviewed and accepted without any changes	NIL	-

  
Chairman

Board of Studies

**Chairman - BoS**  
**EEE - HICET**





# **Hindusthan College of Engineering and Technology**

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## **Department of Electronics and Communication Engineering**

Date: 03.05.2019

### **Action Taken Report on BoS**

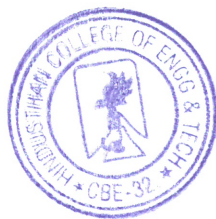
The Fourth Board of Studies meeting of ME CS regulation 2019 for the academic year 2019-20 was conducted on 12.04.19 at 10.30 for the post graduate course ME CS in Hindusthan College of Engineering and Technology in the Board room.

#### **Syllabus related Recommendations:**

<b>S. No</b>	<b>Suggestions given by BoS experts</b>	<b>Action taken</b>
1.	The syllabus and curriculum was ratified without any comments.	-

**Chairman**  
**Board of Studies**

**Chairman - BoS**  
**ECE - HiCET**





# Hindusthan College of Engineering And Technology

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## Department of Computer Science and Engineering

Date: 09.04.2019

### Action taken report on BoS

Action taken report for the Board of Studies meeting conducted for the Academic Year: 2019-2020 on 09.04.2019 at 11.30 a.m. in the Video Conference Hall, Central Library:

BOS Members Suggestions			
Subject Name	Suggestions	Explanation / Action Taken	Remarks
For I - IV Semester	The curriculum and syllabus of this semester were reviewed and accepted without any changes	NIL	



  
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Board of Studies

Chairman - BoS  
CSE - HICET





# Hindusthan College of Engineering and Technology

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## Department of Mechanical Engineering

29.04.2019

### Action Taken Report on BoS

Action taken report for the Board of Studies meeting Regulation 2016 PG – ME CAD/CAM) conducted for the Academic Year: 2019 - 2020 on 29.04.2019 at 11.00 am. in the Video Conference Hall, Central Library

#### (i) Syllabus Revision

S. No	Subject in which revision has been done		Action taken	Percentage Syllabus Revised
1.	16CC3301	Enterprise Resource Planning	Incorporated	15%
2.	16CC3305	Vibration Analysis and Control	Modified	5%

#### (ii) Syllabus related Recommendations:

S.No.	Suggestion given by BOS Committee Experts	Action Taken	Remarks
1	The curriculum and syllabus of the remaining courses were reviewed and accepted without any changes	Nil	-

  
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Board of Studies  
Chairman - BoS  
MECH - HICET





## **Hindusthan College of Engineering And Technology**

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Date: 08.05.2019

### **Department of Management Sciences (MBA)**

#### **Action Taken Report on BoS**

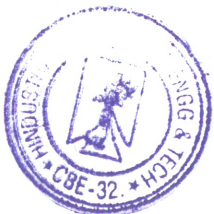
The meeting of Fourth Board of Studies of Regulation R 2016 for the Department of Management Sciences Post graduate program was conducted on 04.04.2019 at 11.00 am in the Conference room / Board.

#### **(i) Syllabus Revision:**


S. No	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1.	16BA1001- Professional Skill Lab for Managers	Incorporated	5%
2.	16BA1203- Total Quality Management	Incorporated	10%
3.	16BA2203- Marketing Management	Incorporated	5%
4.	16BA3306 - Investment Management	Incorporated	5%
5.	16BA3303- Retail Management	Incorporated	5%
6.	16BA3701- Business Plan Development	Incorporated	3%

#### **General Recommendations:**

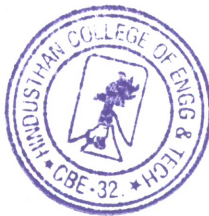
Sl.No	Suggestion given in the BoS experts	Action taken
1	Members had a detail discussion about Social Immersion Project, General Interest courses like Elementary Hindi, Yoga, and Theatre	Considered
2	Members had a discussion on one mandatory online certification course in the area of specialization.	Considered



3	Industry expert Dr.C V Madhusudhanan was ready to cooperate for an FDP in Legal Aspects of Business	Considered
4	Credit Transfer- Dr.V.R Nedunchezian suggested to incorporate transfer credit for online courses and substitutes for specialization course and effect transfer to be added in the forthcoming Regulation	Considered

  
**Chairman**  
**Board of Studies**

**Chairman - BoS**  
**MBA - HiCET**





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**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**

Date: 15.04.2019

**Action Taken Report on BoS**

The Board of studies meeting of the Department Computer Applications was conducted on 13.04.2019. The Board of studies members Reviewed Regulation 2016 (Revised), Curriculum and Syllabus 2016 of Computer Applications for the academic year 2019 - 2020. This report consolidates the findings of the panel and the suggestions and area of improvements possible in the future put forth by the panel.

**(i) Syllabus Revision**

Syllabus revision were not made

**(ii) New courses Introduced:**

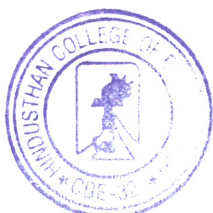
New Courses were not introduced

The following recommendations given by stakeholders are considered and incorporated.

1. ICT tools need to be improved.
2. Encourage students for internship/industry training.
3. Duration of practical has need to be revised

**General Recommendations:**

S. No	Suggestion given by BOS experts	Action Taken	Remarks
1.	No Specific Suggestions		
2.	Suggested to add Accounting and Financial Management paper as a core paper.	-----	Suggestions not Incorporated
3.	Experts suggested that Software testing and Software Quality Management subjects can be combined together as Software Testing and Quality Assurance	-----	Suggestions not Incorporated

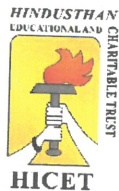


4.	Suggested that Cyber security and Network Security subjects can be combined as Cryptography and Network Security	-----	Suggestions not Incorporated
5.	Suggested that Network Security can be modified as Information Security.	-----	Suggestions not Incorporated
6.	Suggested to add Artificial intelligence, Predictive Analytics, Digital Image Processing, Human Computer Interaction, Technologies for Big Data and Enterprise Applications as Elective subjects.	-----	Suggestions not Incorporated



*Abdullah Jaffer*  
**Chairman**  
**Board of Studies**

**Chairman - BoS**  
**MCA - HiCET**



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Othakalmandabam Post, Coimbatore – 641 032

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 03.05.2019

### Action Taken Report on BoS

The Fourth Board of Studies meeting of ME ECE regulation 2019 for the academic year 2019-20 was conducted on 12.04.19 at 10.30 for the post graduate course ME ECE in Hindusthan College of Engineering and Technology in the Board room.

#### Syllabus related Recommendations:

S. No	Suggestions given by BoS experts	Action taken
1.	The syllabus and curriculum was ratified without any comments.	

Chairman

Board of Studies  
Chairman - BoS  
ECE - HICET

