



Hindusthan College of Engineering And Technology

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

Date:02.06.2023

ACTION TAKEN REPORT ON BoS

Name of the Department: Mechatronics Engineering

The meeting of eleventh board of studies of Regulation 2019 & Regulation 2022 for the Department of Mechatronics Engineering, Under Graduate Programme was conducted on 30.05.2023 at 10.30 am, in Simulation Lab, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision for the Regulations 2022

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	22MT3201 - Industrial Motor Control	Modified	8.5%
2	22MT3251 - Manufacturing Process	Modified	2.5%

Overall Percentage of revision made in the BoS: 11%

(III) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1	R2022	22MT3202 - Solid and Fluid Mechanics	4
2	R2019	21MT5231 - Basics of Mechatronics System	3
3	R2019	21MT5204 - Concepts of Machines and Mechanisms	3
4	R2019	21MT5205 - Robotics in Medicine	3
5	R2019	21MT5206 - Robots and Systems in Smart Manufacturing	3



(IV) Additional Courses for Minor Degree common to all branches

Vertical I Fintech and Block Chain	Vertical II Entrepreneurship	Vertical III Environment and Sustainability
Financial Management	Foundations of Entrepreneurship	Sustainable infrastructure Development
Fundamentals of Investment	Introduction to Business Venture	Sustainable Agriculture and Environmental Management
Banking, Financial Services and Insurance	Team Building & Leadership Management for Business	Sustainable Bio Materials
Introduction to Block chain and its Applications	Creativity & Innovation in Entrepreneurship	Materials for Energy Sustainability
Fintech Personal Finance and Payments	Principles of Marketing Management for Business	Green Technology
Introduction to Fintech	Human Resource Management for Entrepreneurs	Environmental Quality Monitoring and Analysis
	Financing New Business Ventures	

(V) B Tech (HONS) Mechatronics Engineering

Vertical I Industrial Automation	Vertical II Medical Mechatronics	Vertical III Applied Robotics
22MT5203 Concepts of Machines and Mechanisms	22MT5204 Robotics in Medicine	22MT5205 Robots and Systems in Smart Manufacturing
22MT6202 Drives and Actuators for Automation	22MT6204 Brain Computer Interface and its Applications	22MT6206 Medical Robotics
22MT6203 Power Electronics	22MT6205 Digital Image Processing	22MT6207 Agricultural Robotics and Automation
22MT7203 Advanced PLC	22MT7205 Radiological Equipment	22MT7207 Collaborative Robotics
22MT7204 Distributed Control System	22MT7206 Biomaterials	22MT7208 Robot Operating Systems



22MT8201 HMI & SCADA	22MT8202 Bionics	22MT8203 Humanoid Robotics
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(IV). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	For R2022 “22MT3201 - Industrial Motor Control” Case Study should be added in unit IV	Considered
2.	For R2022 “22MT3251 - Manufacturing Process” In unit V, remove unconventional machining processes topics and add some case studies on manufacturing the product like agricultural farm Equipments, Erection of boilers, sports products.	Considered
3.	For R2019 (Batch 2021-2025) & R2022 – Thermal Engineering Honours degree vertical may be replaced with Applied Robotics vertical as per anna university curriculum.	Considered

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

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Dean Academics
Dean (Academics)
HiCET





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Date: 21.12.2023

ACTION TAKEN REPORT ON BoS

Name of the Department: Mechatronics Engineering

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

(I) Syllabus Revision for the Regulations 2019

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

Overall Percentage of revision made in the BoS: NIL

(II) Syllabus Revision for the Regulations 2022

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

Overall Percentage of revision made in the BoS: 37.5%



(III) New Course Introduced:

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

(IV). General Recommendations:

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

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