



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: 08.06.2023

ACTION TAKEN REPORT ON 9th BOS

Name of the Department: **Agricultural Engineering**

The meeting of Ninth board of studies of Regulation 2019 and Regulation 2022 for the Department of Agricultural Engineering under Graduate Programme was conducted on 07.06.2023 at 3.00 pm in the Board Room, Hindusthan College of Engineering and Technology.

(I) Syllabus Revision for the Regulations 2019

S.No	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1	19AG7202R- Remote Sensing and Geographical Information System	Modified	14%
2	19AG7304R & Process Engineering of Fruits and Vegetables	Modified	43%
3	19AG7001R & Renewable Energy Laboratory	Included	20%
4	19AG7002R & Remote Sensing and GIS Laboratory For Agricultural Engineers	Included	60%
5	21AG5202- Refrigeration and Cold Chain Management	Modified	30%
6	21AG5203 & Theory of Machines	Incorporated	26%
7	21AG5252 & Soil and Water Conservation Engineering	Incorporated	16%
8	21AG5002 & CAD for Agricultural Engineering	Incorporated	20%

Overall Percentage of revision made in the BoS

: **18.49 %**



(II) New Course Introduced:

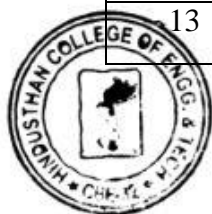
S. No	Regulation	Course Code with Name	Credits
1	2022	22AG3201 & Soil Technology	3
2	2022	22AG3202 & Fluid Mechanics and Pumps	3
3	2022	22AG3203 & Engineering Thermodynamics	4
4	2022	22AG3251 & Unit operations in Agricultural Processing	1.5
5	2022	22AG3252 & Surveying and Levelling	1.5
6	2022	22AG3001 & Soil Technology laboratory	3
7	2022	22AG3072 & Basic Electrical, Electronics and Instrumentation Engineering	3

(III) Value Added Introduced:

S.No.	Course Code with Name
1.	22AGVA01- Training on Design of Agricultural System (Solar, Food instruments and Hydroponics)
2.	21AGVA03 - Geospatial Technology for Climate-Smart Agriculture

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

S.No	Regulation	Course Code with Name	Credits
1	2022	21AG5204 & Off-Road Vehicle Engineering	3
2	2022	21AG6203 & Design of Farm Machinery and System	3
3	2022	21AG6204 & Tractor Systems Design -I	3
4	2022	21AG7203 & Tractor Systems Design -II	3
5	2022	21AG7204 & Farm Machinery Dynamics Noise & Vibrations	3
6	2022	21AG8311 & Operations Research in Farm Power & Machinery Management	3
7	2022	21AG5205 & Open Channel Flow	3
8	2022	21AG6205 & Water Resources System Engineering	3
9	2022	21AG6206 & Watershed Management and Modelling	3
10	2022	21AG7205 & Water Systems Simulation And Modelling	3
11	2022	21AG7206 & Modelling Soil Erosion Processes	3
12	2022	21AG8312 & Plant Growth Modelling and Simulation	3
13	2022	21AG5206 & Industrial Processing of Foods and	3

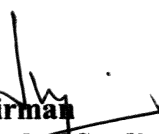


		Beverages	
14	2022	21AG6207 & Instrumentation and Control in Food Industries	3
15	2022	21AG6208 & Food Plant and Equipment Design	3
16	2022	21AG7207 & Food Process Modelling	3
17	2022	21AG7208 & Robotics in Food Processing and Handling	3
18	2022	21AG8313 & Marketing of Food and Agricultural Products	3
19	2022	21AG5207 & Solar radiation and measurements	3
20	2022	21AG6209 & Basics of solar PV systems and components	3
21	2022	21AG6210 & Basics of Agronomic practices and components	3
22	2022	21AG7209 & Design and installation of Agrivoltaics system	3
23	2022	21AG7210 & Analysis of Agrivoltaics system for Energy food and water production	3
24	2022	21AG8314 & Cost analysis and standards	3
25	2022	21AG5208 & Big Data Processing	3
26	2022	21AG6211 & Dependable and Secure AI-ML	3
27	2022	21AG6212 & Deep Learning Foundations and Applications	3
28	2022	21AG7211 & Graph Machine Learning: Foundations and Applications	3
29	2022	21AG7212 & AI Applications in Agriculture	3
30	2022	21AG8315 & Process Modelling and Simulation	3
31	2022	21AG5601 & Agriculture for Engineers	3
32	2022	21AG6601 & Soil & Water Conservation Engineering	3
33	2022	21AG6602 & Farm Machinery and Equipment's	3
34	2022	21AG7601 & Fundamentals of Food Process Engineering	3
35	2022	21AG7602 & Non-Conventional Energy Technology	3
36	2022	21AG8601 & Integrated on Farm Managements	3




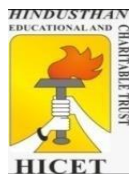
(V). General Recommendations:

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


Chairman
(Board of Studies)
Chairman - BoS
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Date: 15.12.2023

ACTION TAKEN REPORT ON 10th BOS

Name of the Department: **Agricultural Engineering**

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

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

S.No	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1	21AG6201- Hydrology and Water Resources Engineering	Included and Modified	6.1%
2	21AG6181- Professional Ethics	Included and Deleted	5%
3	21AG6251 - Food and Dairy Engineering	Included and Deleted	8.2%
4	22AG2252R - Principles and Practices of Crop Production	Included and Modified	8.13

Syllabus Revision carried out in 2023-2024 EVEN Semester

2022 Regulation (2023 batch) - II semester = 8.13 %

2019 Regulation with amendments (2021 batch) - VI semester = 19.30 %

(II) New Course Introduced: NIL

(III) Value Added Courses Introduced:

S.No.	Course Code with Name
1.	21AGVA04- Training on Mobile App and Web Development for monitoring agricultural practices.
2.	22AGVA02 - Principles of machine drawing




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


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

(V). General Recommendations:

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


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Dean Academics
Dean (Academics)
HICET