



***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)  
Valley Campus, Pollachi Highway, Coimbatore - 641032.



**DEPARTMENT OF AGRICULTURAL ENGINEERING**  
**DEPARTMENT ADVISORY COMMITTEE MEETING**

**Dated: 08.04.2024**

**HiCET/Dept.of Agri. Engg /DAC 11/Circular/2024-25 (ODD)**

It is planned to conduct the Department Advisory Committee (DAC) meeting to discuss, syllabus revision /update, of the 2019 Regulation with amendments and 2022 Regulation for the students admitted from the academic year 2021-2022, 2022-2023 and 2023-2024 respectively. In this regard, the 11<sup>th</sup> DAC meeting for 2024-25 (ODD) is scheduled on 22<sup>nd</sup> April 2024 at 2.00 PM in the HOD cabin. The DAC members are requested to attend and discuss the same during the meeting and put forth their suggestions to develop the curriculum and syllabus for the upcoming Board of Studies (BoS). The agenda has been enclosed for further reference.

**Venue:** HOD Cabin

**Date of meeting:** 22.04.2024 at 2 .00 pm

**Agenda**

- ❖ Vision and Mission of the Institution and Department
- ❖ Curriculum and Syllabus (2022 Regulation) for I Semester for the students admitted 2024-2025 onwards.
- ❖ Curriculum and Syllabus (2022 Regulation) for III Semester for the students admitted 2023-2024 onwards.
- ❖ Curriculum and Syllabus (2022 Regulation) for V Semester for the students admitted 2022-2023 onwards
- ❖ Curriculum and Syllabus (2019 Regulation with amendments) for VII Semester for the students admitted 2021-2022.
- ❖ Syllabus for B.Tech (Hons) Agricultural Engineering and B.Tech (Minor) Agricultural Engineering for the students admitted 2021-2022 and 2022-2023.
- ❖ CO – PO attainment



**HoD/Agri.Engg.**  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

## **CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

### **DEPARTMENT OF AGRICULTURAL ENGINEERING**

The Constitution of DAC Members for the academic year of 2024-25 (ODD SEM) is listed below

<b>S.No.</b>	<b>Name of the Member</b>	<b>Position</b>
1.	Dr. Sridhar N Associate Professor & Head, Department of Agricultural Engineering, HiCET.	Chairman
2.	Dr.Paneerselvam Professor Department of Agricultural Engineering, HiCET.	Faculty Member
3.	Dr.Rajaravi C Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member
4.	Dr. Sekar S Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member
5.	Mr.Seerangurayar T Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
6.	Dr. Dinesh Kumar S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
7.	Dr.Dhayalan V Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
8.	Mrs. Gowsalya S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
9.	Ms.N.Ramya Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
10.	Mr.Amaran V Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
11.	Mrs.Kalaiselvi M Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
12.	Ms.Sowmiya V Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
13.	Mrs.K.Ramya Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
14.	Vidya AM Department of Agricultural Engineering, HiCET.	Student Member
15.	Vishwa R Department of Agricultural Engineering, HiCET.	Student Member





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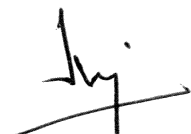
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16.	Mrs.K.GuruLakshimi	Parents Member
17.	Mrs.Leema jaya Rose	Parents Member
18.	Er.Guhan E V	Alumni



  
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## **DEPARTMENT OF AGRICULTURAL ENGINEERING**

### **MINUTES OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DATE: 24.04.2024**

The 11<sup>th</sup> DAC Meeting was held on 22.04.2024 at 2.00 PM in HoD Cabin, Department of Agricultural Engineering, Hindusthan College of Engineering and Technology, Coimbatore. All the stakeholder were presented during the session. The minutes of the session presented below.

Action taken report on minutes of previous meeting presented by Chairman

The Chairman presented the vision and mission of the institution as follows

#### **Vision of the Institute**

- **IV1:** To become a premier institution by producing professionals with strong technical knowledge, innovative research skills and high ethical values

#### **Mission of the Institute**

- **IM1:** To provide academic excellence in technical education through novel teaching methods
- **IM2:** To empower students with creative skills and leadership qualities
- **IM3:** To produce dedicated professionals with social responsibility

Chairman briefed the Vision and Mission, PEOs and PSOs of the Department of Agriculture Engineering as follows

#### **Vision of the Department**

To become a department of excellence in agricultural engineering by producing socially conscious professionals with good technical knowledge and innovative skill sets.

#### **Mission of the Department**

- To impart strong technical knowledge in agricultural engineering through conducive learning environment
- To empower students with innovative skill sets to address agricultural issues.
- To produce socially responsible agricultural professionals and provide sustainable solutions.

#### **Program Educational Objectives**

**PEO1:** Graduates shall exhibit their sound theoretical, practical skills and knowledge for being a successful professional.

**PEO2:** Graduates shall be creative with leadership qualities and lifelong learning skills.

**PEO3:** Graduates shall hold high ethical values and be able to devise sustainable solutions to address agricultural issue.

## Program Specific Outcomes

**PSO1-** Ability to understand agricultural scenario in World and India and superimpose agricultural engineering technologies for uplifting the agriculture.

**PSO2-** Ability to solve various issues in agriculture by infusing farm mechanization, conservation strategies for soil, water and renewable energy, advanced irrigation techniques and post harvest technology

Syllabus revision/updating under regulation 2019 Regulation with amendments and 2022 Regulation Odd semester in Theory, Theory with lab components and laboratory experiments for Agricultural Engineers were discussed below and suggestion by stakeholders are noted.

The following syllabus was revised in courses under 2022 (2024 batch) I Semester was discussed

S.No	Subject Code	Name of the Subject	Revision and Updation	Percentage (%) of Suggestion
1	22AG1251	Principles and Practices of Crop Production	Revision made in Unit I, II, III, IV and Unit V	30
Overall percentage of changes suggested by Members				3.2%

The following syllabus was revised in courses under 2022 (2023 batch) III Semester was discussed

S.No	Subject Code	Name of the Subject	Revision and Updation	Percentage (%) of Suggestion
1	22AG3202R	Fluid Mechanics and Pumps	Revision made in Unit I and Unit III	30
2	22AG3252R	Surveying and Levelling	Revision made in Unit II Lab component	6
Overall percentage of changes suggested by Members				3.6%

The following syllabus was revised in courses under 2019 regulation with amendments (2021 batch) VII Semester was discussed

S.No	Subject Code	Name of the Subject	Revision and Updation	Percentage (%) of Suggestion
1	21AG7201	Agriculture Extension	Revision made in Unit IV	15
2	21AG7301	Post harvest Technology	Revision made in Unit I, Unit II, Unit III and Unit V	21

3	21AG7251	Precision Farming and Protected Cultivation	Revision made in Unit I, Unit III and Unit IV	15
Overall percentage of changes suggested by Members				6.4 %

The following newly introduced curriculum and syllabus for the V semester of 2022 Regulation was discussed

S.No	Subject Code	Name of the Subject
1	22AG5202	Tractors and Engine Systems
2	22AG5301	Farm Power & Machinery Management
3	22AG5305	Groundwater and Well Engineering
4	22AG5307	Biomass Management for Fodder & Energy
5	22AG5251	Irrigation and Drainage Engineering
6	22AG5252	Food and Dairy Engineering
7	22AG5001	Renewable Energy Laboratory

DAC Members are suggested on syllabus for B.Tech (Hons) and B.Tech (Minor) for the students admitted from the academic year 2022-2023.

The following courses are suggested by DAC members

S.No	Course Code	Course Title	Credit
<b>B.Tech ( Hons)</b>			
V1	22AG5202	Off-Road Vehicle Engineering	3
V2	22AG5203	Open Channel Flow	3
V3	22AG5204	Industrial Processing of Foods and Beverages	3
V4	22AG5205	Solar radiation and measurements	3
V5	22AG5206	Big Data Processing	3
<b>B.Tech ( Minor)</b>			
1.	22AG5601	Agriculture for Engineers	3

DAC Members are suggested on syllabus for B.Tech (Hons) and B.Tech (Minor) for the students admitted from the academic year 2021-2022.

The following courses are suggested by DAC members

S.No	Course Code	Course Title	Credit
<b>B.Tech ( Hons)</b>			
V1	21AG7203	Tractor Systems Design -II	3
	21AG7252	Energy Conservation and Management in Farm Power and Machinery	3
V2	21AG7204	Water Systems Simulation And Modelling	3
	21AG7253	Modelling Soil Erosion Processes	3
V3	21AG7205	Robotics in Food Processing and Handling	3
	21AG7254	Food Process Modelling	3


V4	21AG7206	Analysis of Agrivoltaics system for Energy food and water production	3
	21AG7255	Design and installation of Agrivoltaics System	3
V5	21AG7207	Graph Machine Learning: Foundations and Applications	3
	21AG7256	AI Applications in Agriculture	3
<b>B.Tech ( Minor)</b>			
1.	21AG7601	Fundamentals of Food Process Engineering	3
2.	21AG7602	Non-Conventional Energy Sources	3

- ❖ Dr.Dhayalan suggested to change the 6 percentage of syllabus content in 22AG3252R - Surveying and Levelling Subject.
- ❖ Dr. Dinesh Kumar S suggested to change the 5 percentage of syllabus content in 22AG3202R - Fluid Mechanics and Pumps Subject.
- ❖ Mrs. Gowsalya S suggested to change the 15 percentage of syllabus content in 21AG6251 & Agriculture Extension subject.
- ❖ Mr.Seerangurayar suggested changing the 21 percentage of syllabus content in 21AG7301 & Post harvest Technology.
- ❖ Dr.Paneerselvam suggested changing the 15 percentage of syllabus content in 21AG7251 Precision Farming and Protected Cultivation.
- ❖ Mrs.Kalaiselvi M suggested changing the 30 percentage of syllabus content in 22AG1251 & Principles and Practices of Crop Production.
- ❖ Vishwa R and Vidya A M suggested arranging more internship/ conducting workshop for the II and III year students which help them too aware about industry expectation from the students.
- ❖ The CO – PO attainment for the academic year 2023 – 2024 was put forth among the DAC members
- ❖ Assessment levels for the courses were proposed.
- ❖ CO-PO mapping was discussed for the upcoming semester courses

The meeting ended by 5.00 P.M

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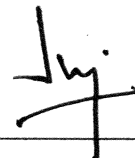



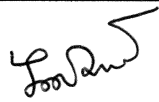
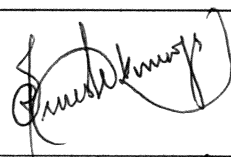
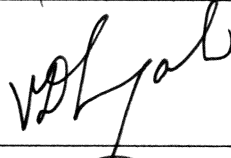

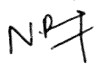




  
**HoD**  
**HEAD OF THE DEPARTMENT**  
 Department of Agriculture Engineering  
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 Coimbatore - 32.

## CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)

### DEPARTMENT OF AGRICULTURAL ENGINEERING

The following Members were attending DAC meeting held on 22.04.2024 (ODD SEM) at Department of Agricultural Engineering.




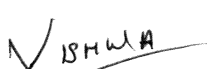
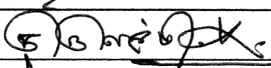
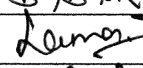
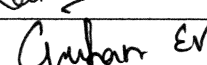
S.No.	Name of the Member	Position	Signature
1.	Dr. Sridhar N Associate Professor & Head, Department of Agricultural Engineering, HiCET.	Chairman	
2.	Dr.Paneerselvam Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
3.	Dr.Rajaravi C Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
4.	Dr. Sekar S Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
5.	Mr.Seerangurayar T Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
6.	Dr. Dinesh Kumar S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
7.	Dr.Dhayalan V Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
8.	Mrs. Gowsalya S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
9.	Ms.N.Ramya Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
10.	Mr.Amaran V Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
11.	Mrs.Kalaiselvi M Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	

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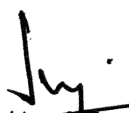
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12.	Ms.Sowmiya V Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
13.	Mrs.K.Ramya Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
14.	Vidya AM Department of Agricultural Engineering, HiCET.	Student Member	
15.	Vishwa R Department of Agricultural Engineering, HiCET.	Student Member	
16.	Mrs.K.GuruLakshimi	Parents Member	
17.	Mrs.Leema jaya Rose	Parents Member	
18.	Er.Guhan E V	Alumni	



  
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**DEPARTMENT OF AGRICULTURAL ENGINEERING**  
**DEPARTMENT ADVISORY COMMITTEE MEETING**

**Dated: 01.12.2023**

**HiCET/Dept.of Agri. Engg /DAC 10/Circular/2023-24 (Even)**

It is planned to conduct the Department Advisory Committee (DAC) meeting to discuss, syllabus revision /update, of the 2019 Regulation, 2019 Regulation with amendments and 2022 Regulation for the students admitted from the academic year 2020-2021, 2021-2022 and 2022-2023 respectively. In this regard, the 10<sup>th</sup> DAC meeting for 2023-24 (Even) is scheduled on 6<sup>th</sup> December 2023 at 2.00 PM in the HOD cabin. The DAC members are requested to attend and discuss the same during the meeting and put forth their suggestions to develop the curriculum and syllabus for the upcoming Board of Studies (BoS). The agenda has been enclosed for further reference.

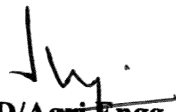
**Venue:** HOD Cabin

**Date of meeting:** 06.12.2023 at 2 .00 pm

**Agenda**

- ❖ Vision and Mission of the Institution and Department
- ❖ Curriculum and Syllabus (2022 Regulation) for IV Semester for the students admitted 2022-2023 onwards.
- ❖ Curriculum and Syllabus (2019 Regulation with amendments) for VI Semester for the students admitted 2021-2022.
- ❖ Curriculum and Syllabus (2019 Regulation) for VIII Semester for the students admitted 2020-2021.
- ❖ Syllabus for B.Tech (Hons) Agricultural Engineering with specialization and B.Tech (Minor) Agricultural Engineering for the students admitted 2021-2022.
- ❖ Any others matter



  
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## Program Specific Outcomes

**PSO1-** Ability to understand agricultural scenario in World and India and superimpose agricultural engineering technologies for uplifting the agriculture.

**PSO2-** Ability to solve various issues in agriculture by infusing farm mechanization, conservation strategies for soil, water and renewable energy, advanced irrigation techniques and post harvest technology

Action taken report on minutes of previous meeting presented by Chairman

Syllabus revision/updating under regulation 2019 Regulation, 2019 Regulation with amendments and 2022 Regulation Even semester in Theory, Theory with lab components and laboratory experiments for agricultural Engineers were discussed below and suggestion by stakeholders are noted.

The following syllabus was revised in courses under 2019 regulation with amendments (2021 batch) VI Semester was discussed

S.No	Subject Code	Name of the Subject	Revision and Updation	Percentage (%) of Suggestion
1	21AG6201	Hydrology and Water Resources Engineering	Revision made in Unit II, Unit IV and Unit V	30
2	21AG6181	Professional Ethics	Revision made in Unit I and Unit II	5
3	21AG6251	Food and Dairy Engineering	Revision made in Unit I, Unit II, Unit III and Unit IV	13
Overall percentage of changes suggested by Members				8 %

The following curriculum and syllabus for the II semester of 2022 Regulation was discussed

S.No	Subject Code	Name of the Subject	Revision and Updation	Percentage (%) of Suggestion
1	22AG2252R	Principles and Practices of Crop Production	Revision made in Unit I, Unit II, Unit III and Unit IV	10
Overall percentage of changes suggested by Members				10 %

DAC Members are suggested on syllabus for Vertical I B.Tech (Hons) and B.Tech (Hons with specialization) and B.Tech (Minor) in the scheme of curriculum for the students admitted from the academic year 2021-2022.

The following courses are suggested by DAC members

S.No	Course Code	Course Title	Credit
<b>B.Tech ( Hons) &amp; B. Tech ( Hons with Specialization )</b>			
V1	21AG6203	Design of Farm Machinery and System	3
	21AG6204	Tractor Systems Design -I	3
V2	21AG6205	Water Resources System Engineering	3
	21AG6206	Watershed Management and Modelling	3
V3	21AG6207	Instrumentation and Control in Food Industries	3
	21AG6208	Food Plant and Equipment Design	3
V4	21AG6209	Basics of solar PV systems and components	3
	21AG6210	Basics of Agronomic practices and components	3
V5	21AG6211	Dependable and Secure AI-ML	3
	21AG6212	Deep Learning Foundations and Applications	3
<b>B.Tech ( Minor)</b>			
1.	21AG6601	Soil & Water Conservation Engineering	3
2.	21AG6602	Farm Machinery and Equipment's	3

- ❖ Dr.Dhayalan suggested to change the 30 percentage of syllabus content in 21AG6201- Hydrology and Water Resources Engineering Subject.
- ❖ Dr.Rajaravi suggested to change the 5 percentage of syllabus content in 21AG6181 - Professional Ethics Subject.
- ❖ Mr.Seerangurayar suggested to change the 13 percentage of syllabus content in 21AG6251 & Food and Dairy Engineering subject.
- ❖ Mrs.Kalaiselvi suggested changing the 10 percentage of syllabus content in 22AG2252R & Principles and Practices of Crop Production.
- ❖ Dr. Sekar S suggested the course 21AG6203 Design of Farm Machinery and System
- ❖ Dr. Sridhar N suggested the course 21AG6204 Tractor Systems Design –I under the vertical I Farm Machinery and Power.

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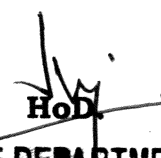
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- ❖ Ms.Sowmiya V suggested the course 21AG6205 Water Resources System Engineering & 21AG6206 Watershed Management and Modelling under the vertical II Simulation and Modelling in Irrigation.
- ❖ Mr.Seerangurayar suggested the course 21AG6207 Instrumentation and Control in Food Industries
- ❖ Ms.N.Ramya suggested the course 21AG6208 Food Plant and Equipment Design under the vertical III Food Engineering.
- ❖ Dr. Dinesh Kumar S suggested the course 21AG6209 Basics of solar PV systems and components & 21AG6210 Basics of Agronomic practices and components under the vertical IV Agrivoltaics Technology.
- ❖ Dr.Paneerselvam suggested the course 21AG6211 Dependable and Secure AI-ML
- ❖ Mr.Amaran V suggested the course 21AG6212 Deep Learning Foundations and Applications under the vertical V Artificial Intelligence Machine Learning and Applications.
- ❖ Mrs.K.Ramya suggested the course 21AG6601 Soil & Water Conservation Engineering
- ❖ Mrs. Gowsalya S suggested the course 21AG6602 Farm Machinery and Equipment's under the Minor verticals.
- ❖ Vishwa R and Vidya A M suggested arranging more internship/ conducting workshop for the II and III year students which help them too aware about industry expectation from the students.

The meeting ended by 5.00 P.M



  
**HOD**  
**HEAD OF THE DEPARTMENT**  
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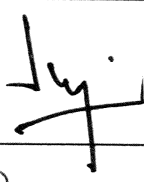


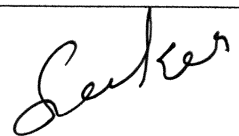

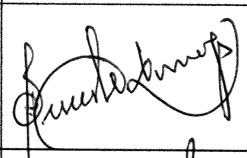
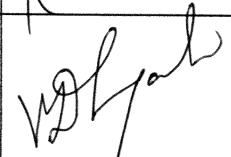



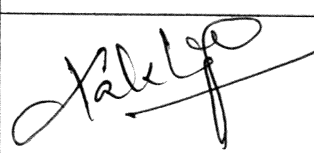
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## **CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

### **DEPARTMENT OF AGRICULTURAL ENGINEERING**

The following Members were attending DAC meeting held on 06.12.2023 (EVEN SEM) at Department of Agricultural Engineering.




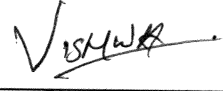
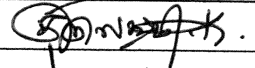
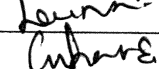
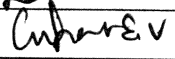
S.No.	Name of the Member	Position	Signature
1.	Dr. Sridhar N Associate Professor & Head, Department of Agricultural Engineering, HiCET.	Chairman	
2.	Dr. Paneerselvam Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
3.	Dr. Rajaravi C Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
4.	Dr. Sekar S Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
5.	Mr. Seerangurayar T Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
6.	Dr. Dinesh Kumar S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
7.	Dr. Dhayalan V Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
8.	Mrs. Gowsalya S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
9.	Ms. N. Ramya Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
10.	Mr. Amaran V Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
11.	Mrs. Kalaiselvi M Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	

# Hindusthan College of Engineering and Technology


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12.	Ms.Sowmiya V Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
13.	Mrs.K.Ramya Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
14.	Vidya AM Department of Agricultural Engineering, HiCET.	Student Member	
15.	Vishwa R Department of Agricultural Engineering, HiCET.	Student Member	
16.	Mrs.K.GuruLakshimi	Parents Member	
17.	Mrs.Leema jaya Rose	Parents Member	
18.	Er.Guhan E V	Alumni	



  
HEAD OF THE DEPARTMENT  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.



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**DEPARTMENT OF AGRICULTURAL ENGINEERING**  
**DEPARTMENT ADVISORY COMMITTEE MEETING**

**Dated: 31.05.2023**

**HiCET/Dept.of Agri. Engg /DAC 9/Circular/2022-23**

It is planned to conduct the Department Advisory Committee (DAC) meeting to discuss, syllabus revision /updatation, of the 2019 Regulation and new course introduction in 2022 Regulation for the students admitted from the academic year 2022-2023. In this regard, the 9<sup>th</sup> DAC meeting for 2022-23 is scheduled on 31<sup>st</sup> May 2023 at 2.00 PM in the HOD cabin. The DAC members are requested to attend and discuss the same during the meeting and put forth their suggestions to develop the curriculum and syllabus for the upcoming Board of Studies (BoS). The agenda has been enclosed for further reference.


**Venue:** HOD Cabin

**Date of meeting:** 31.05.2023 at 2 .00 pm

**Agenda**

- ❖ Vision and Mission of the Institution and Department
- ❖ Newly introduced Curriculum and Syllabus (2022 Regulation) for III Semester for the students admitted 2022-2023 onwards.
- ❖ Curriculum and Syllabus for V Semester for the students admitted 2021-2022.
- ❖ Curriculum and Syllabus (2019 Regulation) for VII Semester for the students admitted 2020-2021.
- ❖ Curriculum and Syllabus for B.Tech (Hons) Agricultural Engineering, B.Tech (Hons) Agricultural Engineering with specialization and B.Tech (Minor) Agricultural Engineering for the students admitted 2020-2021 and 2021-2022.
- ❖ CO – PO attainment of 2019-2023 Batch and Points discussed in PAC
- ❖ Any others matter



  
HoD.  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

## CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)

### DEPARTMENT: AGRICULTURAL ENGINEERING

The Constitution of DAC Members for the academic year of 2023-24 (ODD SEM) is listed below

S.No.	Name of the Member	Position
1.	Dr. Sridhar N Associate Professor & Head, Department of Agricultural Engineering, HiCET.	Chairman
2.	Dr. Sekar S Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member
3.	Dr.Rajaravi C Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member
4.	Mrs.Ramya K Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
5.	Mr.Seerangurayar T Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
6.	Mr.DineshKumar S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
7.	Mr.Dhayalan V Assistant Professor Department of Agricultural Engineering, HiCET.	Autonomous Coordinator
8.	Ms.Ramya N Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
9.	Mrs. Gowsalya S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
10.	Mrs.Kalaiselvi M Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
11.	Er.Ranjitha S Manager-Farm Operations Greenzy- Krishirishi Agrofarms LLP. Coimbatore.	Member (Alumni/Industry Expert)
12.	Siddhartha B D Department of Agricultural Engineering, HiCET.	Student Member
13.	Vidya A M Department of Agricultural Engineering, HiCET.	Student Member
14.	Mr. Manogaran P	Parents Member
	Mrs. Bharathi D	Parents Member



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## **DEPARTMENT OF AGRICULTURAL ENGINEERING**

### **MINUTES OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DATE: 31.5.2023**

The 9<sup>th</sup> DAC Meeting was held on 31.05.2023 at 2.00 pm in HoD Cabin, Department of Agrl.Engg, HiCET. The entire stakeholders were presented during the session. The minutes of the session presented below.

Action taken report on minutes of previous meeting presented by Chairman

The Chairman presented the vision and mission of the institution as follows

#### **Vision of the Institute**

- **IV1:** To become a premier institution by producing professionals with strong technical knowledge, innovative research skills and high ethical values

#### **Mission of the Institute**

- **IM1:** To provide academic excellence in technical education through novel teaching methods
- **IM2:** To empower students with creative skills and leadership qualities
- **IM3:** To produce dedicated professionals with social responsibility

Chairman briefed the Vision and Mission, PEOs and PSOs of the Department of Agriculture Engineering as follows

#### **Vision of the Department**

To become a department of excellence in agricultural engineering by producing socially conscious professionals with good technical knowledge and innovative skill sets.

#### **Mission of the Department**

- To impart strong technical knowledge in agricultural engineering through conducive learning environment
- To empower students with innovative skill sets to address agricultural issues.
- To produce socially responsible agricultural professionals and provide sustainable solutions.

#### **Program Educational Objectives**

**PEO1:** Graduates shall exhibit their sound theoretical, practical skills and knowledge for being a successful professional.

**PEO2:** Graduates shall be creative with leadership qualities and lifelong learning skills.

**PEO3:** Graduates shall hold high ethical values and be able to devise sustainable solutions to address agricultural issue.

## Program Specific Outcomes

**PSO1-** Ability to understand agricultural scenario in World and India and superimpose agricultural engineering technologies for uplifting the agriculture.

**PSO2-** Ability to solve various issues in agriculture by infusing farm mechanization, conservation strategies for soil, water and renewable energy, advanced irrigation techniques and post harvest technology

CO-PO attainment details of batch 2019-2023 and continuous improvement were discussed by the Chairman.

The suggestions given by the PAC members and action to be taken for continuous improvement in CO-PO attainment were discussed and Passed to BoS for approval.

Syllabus revision/updating under regulation 2019 (ODD Sem) in Theory, Theory with lab components and laboratory experiments for agricultural Engineers were discussed below and suggestion by stakeholders are noted.

The following syllabus was revised in courses under 2019 regulation (2020 batch) VII semester was discussed

S.No	Subject Code	Name of the Subject	Revision and Updation	Percentage (%) of Suggestion
1	19AG7202R	Remote Sensing and Geographical Information System	Revision made in Unit I and Unit III	14
2	19AG7304R	Process Engineering of Fruits and Vegetables	Revision made in Unit I, Unit II and Unit III	43
3	19AG7001R	Renewable Energy Laboratory	Revision made in Exp.No. 4 and 5	20
4	19AG7002R	Remote Sensing and GIS Laboratory For Agricultural Engineers	Revision made in Exp.No. 1 to 6	60
Overall percentage of changes suggested by Members				11.42 %

The following syllabus was revised in courses under 2019 regulation (2021 batch) V Semester was discussed

S.No	Subject Code	Name of the Subject	Revision and Updation	Percentage (%) of Suggestion
1	21AG5202	Refrigeration and Cold Chain Management	Revision made in Unit III, Unit IV and Unit V	30
2	21AG5203	Theory of Machines	Revision made in Unit II and Unit V	26

3	21AG5252	Soil and Water Conservation Engineering	Revision made in Unit I and Unit II	16
4	21AG5002	CAD for Agricultural Engineering	Revision made in Exp.No. 3 and 6	20
Overall percentage of changes suggested by Members				<b>7.07 %</b>

The following curriculum and syllabus for the new courses under II semester of 2022 Regulation was discussed

S.No	Course Code	Course Title	Credit
1	22AG3201	Soil Technology	03
2	22AG3202	Fluid Mechanics and Pumps	04
3	22AG3203	Engineering Thermodynamics	03
4	22AG3251	Unit operations in Agricultural Processing	03
5	22AG3252	Surveying and Levelling	03
6	22AG3001	Soil Technology laboratory	02
6	22AG3072	Basic Electrical, Electronics and Instrumentation Engineering	02

DAC Members are suggested on syllabus for Vertical I B.Tech (Hons) and B.Tech (Hons with specialization) and B.Tech (Minor) in the scheme of curriculum under regulation 2022 for the students admitted from the academic year 2021-2022.

The following courses are suggested by DAC members

S.No	Course Code	Course Title	Credit
<b>B.Tech ( Hons) &amp; B. Tech ( Hons with Specialization )</b>			
V1	21AG5204	Off-Road Vehicle Engineering	3
V2	21AG5205	Open Channel Flow	3
V3	21AG5206	Industrial Processing of Foods and Beverages	3
V4	21AG5207	Solar radiation and measurements	3
V5	21AG5208	Big Data Processing	3

**B.Tech ( Minor)**

1.	21AG5601	Agriculture for Engineers	3
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- ❖ Mr.Dhayalan suggested to change the 14 percent of syllabus content in 19AG7202R- Remote Sensing and Geographical Information System Subject and 60 percent change in 19AG7002R - Remote Sensing and GIS Laboratory for Agricultural Engineers Laboratory subject
- ❖ Mrs.Ramya K suggested to change the 43 percent of syllabus content in 19AG7304R & Process Engineering of Fruits and Vegetables.
- ❖ Mr.Dineshkumar suggested to change the 20 percent of syllabus content in 19AG7001 - Renewable Energy Laboratory Subject.
- ❖ Mr.Seerangurayar suggested to change the 30 percent of syllabus content in 21AG5202 & Refrigeration and Cold Chain Management subject.
- ❖ Dr.Rajaravi suggested to change the 26 percent of syllabus content in 21AG5203 - Theory of Machines Subject.
- ❖ Mrs.Kalaiselvi M suggested to change the 16 percent of syllabus content in 21AG5252 & Soil and Water Conservation Engineering Subject.
- ❖ Dr. Sekar S suggested to change 20 percent of syllabus content in 21AG5002 - CAD for Agricultural Engineering Laboratory subject.
- ❖ Siddhartha B D and Vidya A M suggested arranging more internship/ conducting workshop for the II and III year students which help them to aware about industry expectation from the students.
- ❖ The CO – PO attainment for the academic year 2022 – 2023 was discussed. All the POs are attained.
- ❖ Assessment levels for the courses were proposed were approved and forwarded to BoS.
- ❖ CO-PO mapping was discussed for the upcoming semester courses.

The meeting ended by 5.00 P.M



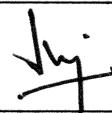
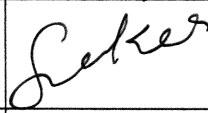

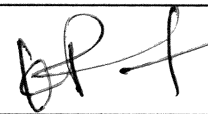
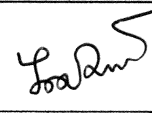
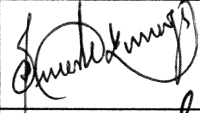
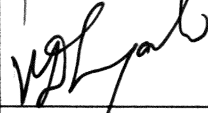

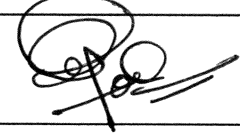


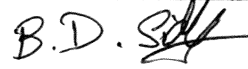
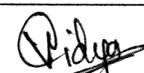
**HoD/Agri.Engg.**

**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

## CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)

### DEPARTMENT: AGRICULTURAL ENGINEERING

The following Members were attending DAC meeting held on 31.05.2023 (ODD SEM) at Department of Agricultural Engineering.

S.No.	Name of the Member	Position	Signature
1.	Dr. Sridhar N Associate Professor & Head, Department of Agricultural Engineering, HiCET.	Chairman	
2.	Dr. Sekar S Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
3.	Dr. Rajaravi C Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
4.	Mrs. Ramya K Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
5.	Mr. Seerangurayar T Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
6.	Mr. Dinesh Kumar S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
7.	Mr. Dhayalan V Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
8.	Ms. Ramya N Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
9.	Mrs. Gowsalya S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
10.	Mrs. Kalaiselvi M Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
11.	Er. Ranjitha S Manager-Farm Operations Greenzy- Krishirishi Agrofarms LLP. Coimbatore.	Member (Alumni/Industry Expert)	
12.	Siddhartha B D Department of Agricultural Engineering, HiCET.	Student Member	
13.	Vidya A M Department of Agricultural Engineering, HiCET.	Student Member	



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### **DEPARTMENT OF AGRICULTURAL ENGINEERING**

### **DEPARTMENT ADVISORY COMMITTEE MEETING (DAC)**

**Dated: 10.02.2023**

#### **HiCET/Dept.of Agri. Engg /DAC 8/Circular/2022-23**

It is planned to conduct the Department Advisory Committee (DAC) meeting to discuss, syllabus revision /update, new course introduction of the 2019 Regulation and 2022 Regulation for the students admitted from the academic year 2022-2023. In this regard, the 8<sup>th</sup> DAC meeting for 2022-23 is scheduled on 15<sup>th</sup> Feb 2023 at 10.00 AM in the HOD cabin. The DAC members are requested to attend and discuss the same during the meeting and put forth their suggestions to develop the curriculum and syllabus for the upcoming Board of Studies ( BoS). The agenda has been enclosed for further reference.


**Venue:** HOD Cabin

**Date of meeting:** 15.02.2023 at 10 .00 am

#### **Agenda**

- ❖ Vision and Mission of the Institution and Department
- ❖ Syllabus for II Semester for the students admitted 2022-2023 onwards.
- ❖ Laboratory Syllabus for III & IV Semester for the students admitted 2022-2023 onwards.
- ❖ Curriculum and Syllabus for IV Semester for the students admitted 2021-2022.
- ❖ Curriculum and Syllabus for VI Semester for the students admitted 2020-2021.
- ❖ Newly introduced Curriculum and Syllabus for VIII Semester for the students admitted 2019-2020.
- ❖ Curriculum for B.Tech (Hons) Agricultural Engineering, B.Tech (Hons) Agricultural Engineering with specialization and B.Tech (Minor) Agricultural Engineering.
- ❖ Any others matter



  
**HOD**  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

## **CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

### **DEPARTMENT: AGRICULTURAL ENGINEERING**

The Constitution of DAC Members for the academic year of 2022-23 (EVEN SEM) is listed below

<b>S.No.</b>	<b>Name of the Member</b>	<b>Position</b>
1.	Dr. Sridhar N Associate Professor & Head, Department of Agricultural Engineering, HiCET.	Chairman
2.	Dr. Bala Mohan Professor, Department of Agricultural Engineering, HiCET.	Faculty Member
3.	Dr. Sekar S Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member
4.	Dr.Rajaravi C Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member
5.	Mr.Jany Giles A Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
6.	Mrs. Gowsalya S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
7.	Mrs. Chinju Saju Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
8.	Mrs.Ramya K Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
9.	Mrs.Kalaiselvi M Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
10.	Mr.Seerangurayar T Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
11.	Mr.DineshKumar S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
12.	Mr.Dhayalan V Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
13.	Ms.Ramya N Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member
14.	Er.Ranjitha S Manager-Farm Operations Greenzy- Krishirishi Agrofarms LLP. Coimbatore.	Member (Alumni/Industry Expert)
15.	Sanjay M Department of Agricultural Engineering, HiCET.	Student Member




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16.	Vidhya S Department of Agricultural Engineering, HiCET.	Student Member
17.	Mrs.K.GuruLakshimi	Parents Member
18.	Mrs.Leema jaya Rose	Parents Member



  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
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Coimbatore - 32.



## **DEPARTMENT OF AGRICULTURAL ENGINEERING**

### **MINUTES OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DATE:15.2.2023**

The 8<sup>th</sup> DAC Meeting was held on 15.02.2023 at 10.00 AM in HoD Cabin, Department of Agri.Engg, HiCET. All the stakeholder were presented during the session. The minutes of the session presented below.

The Chairman presented the vision and mission of the institution as follows

#### **Vision of the Institute**

- **IV1:** To become a premier institution by producing professionals with strong technical knowledge, innovative research skills and high ethical values

#### **Mission of the Institute**

- **IM1:** To provide academic excellence in technical education through novel teaching methods
- **IM2:** To empower students with creative skills and leadership qualities
- **IM3:** To produce dedicated professionals with social responsibility

Chairman briefed the Vision and Mission, PEOs and PSOs of the Department of Agriculture Engineering as follows

#### **Vision of the Department**

To become a department of excellence in agricultural engineering by producing socially conscious professionals with good technical knowledge and innovative skill sets.

#### **Mission of the Department**

- To impart strong technical knowledge in agricultural engineering through conducive learning environment
- To empower students with innovative skill sets to address agricultural issues.
- To produce socially responsible agricultural professionals and provide sustainable solutions.

#### **Program Educational Objectives**

**PEO1:** Graduates shall exhibit their sound theoretical, practical skills and knowledge for being a successful professional.

**PEO2:** Graduates shall be creative with leadership qualities and lifelong learning skills.

**PEO3:** Graduates shall hold high ethical values and be able to devise sustainable solutions to address agricultural issue.

## **Program Specific Outcomes**

**PSO1-** Ability to understand agricultural scenario in World and India and superimpose agricultural engineering technologies for uplifting the agriculture.

**PSO2-** Ability to solve various issues in agriculture by infusing farm mechanization, conservation strategies for soil, water and renewable energy, advanced irrigation techniques and post harvest technology

Action taken report on minutes of previous meeting presented by Chairman

Syllabus revision/updating under regulation 2019 (EVEN Sem) in Theory, Theory with lab components and laboratory experiments for agricultural Engineers were discussed below and suggestion by stakeholders are noted.

The following syllabus was revised in courses under 2019 regulation (2020 batch) VI semester was discussed

S.No	Subject Code	Name of the Subject	Revision and Updation	Percentage (%) of Suggestion
1	19AG6302	19AG6302-Heat and Mass Transfer for Agricultural Engineers	Revision made in Unit I, II and II	30
2	19AG6401	19AG6401 -Modern Agricultural Practices	Revision made in Unit IV and II	40
3	19AG6251	19AG6251 -Food and Dairy Engineering	Revision made in Unit I and V	15
Overall percentage of changes suggested by Members				14

The following syllabus was revised in courses under 2019 regulation (2021 batch) IV semester was discussed

S.No	Subject Code	Name of the Subject	Revision and Updation	Percentage (%) of Suggestion
1	21AG4251	21AG4251-Bio - Energy Resource Technology	Revision made in Unit I,II IV and V	40
2	21AG4252	21AG4252-Surveying and Levelling	Revision made in Unit V	25
3	21AG4203	21AG4203-Irrigation and Drainage Engineering	Revision made in Unit V	25
Overall percentage of changes suggested by Members				12

The following curriculum and syllabus for the new courses under VII semester was discussed

S.No	Course Code	Course Title	Credit
1	19AG8301	19AG8301-Agricultural Business Management and Entrepreneurship	3
2	19AG8302	19AG8302-On-Farm Water Management	3
3	19AG8303	19AG8303-Application of drone and robotics technology in agriculture	3
4	19AG8304	19AG8304-Agricultural Waste Management	3
5	19AG8305	19AG8305-Energy Conservation in Agro based Industry	3
6	19AG8306	19AG8306-Special Farm Equipment's	3
7	19AG8307	19AG8307-Mechanics of Tillage and Traction	3
8	19AG8308	19AG8308-Watershed Hydrology and Management	3
9	19AG8309	19AG8309-Micro Irrigation System	3
10	19AG8310	19AG8310-Agriculture Economics and Farm Management	3
11	19AG8901	19AG8901-Project work	8

The curriculum and syllabus for the MOOC (NPTEL- SWAYAM) courses adding under Professional Elective IV discussed.

S.No	Course code	Name of the course	Credit
1	19AG8306	Cooling Technology: Why and How utilized in Food Processing and allied industries	3
2	19AG8307	Novel Technologies for Food Processing and Self life Extension	3
3	19AG8308	Machine Learning for soil and crop management	3

The following curriculum and syllabus for the new courses under II semester of 2022 Regulation was discussed

S.No	Course Code	Course Title	Credit
1	22AG2252	Principles and Practices of Crop Production	3
2	22AG3001	Soil Science Laboratory	1.5
3	22AG4001	Tractors and Farm Engines Laboratory	1.5

DAC Members are suggested to add advance courses in Vertical I and II and III and B.Tech (Hons) and B.Tech (Hons with specialization) in the scheme of curriculum under regulation 2022 for the students admitted from the academic year 2022-2023.

The following courses are suggested by DAC members

## **VERTICALS for B.Tech ( Hons) & B.Tech ( Hons with Specialization )**

<b>VERTICAL I Modern Technology in Agricultural Engineering- I</b>	<b>VERTICAL II Modern Technology in Agricultural Engineering- II</b>	<b>VERTICAL III Crop Production and Management</b>
ADVANCE NANO TECHNOLOGY IN AGRICULTURAL ENGINEERING 22AG5202	PRODUCTION TECHNOLOGY OF AGRIL. MACHINERY.	PRINCIPLES OF ORGANIC FARMING AND VERTICAL FARMING
TRACTOR DESIGN AND TESTING 22AG6202	FIELD OPERATION AND MAINTENANCE OF TRACTORS AND FARM MACHINERY	MANURES, FERTILIZERS AND SOIL FERTILITY MANAGEMENT
COMPUTATIONAL WATERSHED HYDROLOGY 22AG6203	GULLEY & RAVINE CONTROL STRUCTURES	FARM MANAGEMENT, PRODUCTION AND RESOURCE ECONOMICS
LANDSCAPE ARCHITECTURE 22AG7203	RESERVOIR & FARM POND DESIGN	MINOR IRRIGATION & COMMAND AREA DEVELOPMENT
FOOD SAFETY AND QUALITY ASSURANCE 22AG7204	ENGINEERING PROPERTIES OF BIOLOGICAL MATERIALS AND FOOD QUALITY	POST-HARVEST MANAGEMENT AND VALUE ADDITION OF HORTICULTURAL CROPS
CLEAN ENERGY TECHNOLOGIES 22AG8201	ENERGY STORAGE SYSTEMS	ENVIRONMENTAL STUDIES & DISASTER MANAGEMENT

- ❖ Mrs. Chinju Saju suggested to change the 25 percent of syllabus content in 21AG4203 & Irrigation and Drainage Engineering Subject.
- ❖ Dr. Bala Mohan and Mr.Jany Giles A suggested to change the 40 percent of syllabus content in 19AG6401 & Modern Agricultural Practices Subject.
- ❖ Mr.Dhayalan suggested to change the 25 percent of syllabus content in 21AG4252 Surveying and Levelling Subject.
- ❖ Dr.Rajaravi suggested to change the 30 percent of syllabus content in 19AG6302 & Heat and Mass Transfer for Agricultural Engineers Subject.



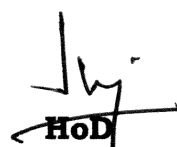
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- ❖ Mr.Seerangurayar suggested to change the 40 percent of syllabus content in 19AG6251 & Food and Dairy Engineering subject.
- ❖ Mr.Dineshkumar suggested to change the 25 percent of syllabus content in 21AG4252 & Bio - Energy Resource Technology.
- ❖ Er.Ranjitha (Alumni) suggested to create awareness among students related to online Courses and credit transfer.
- ❖ Sanjay M and Vidaya S suggested arranging more internship opportunities for the II and III year students which help them to aware about industry expectation from the students.

The meeting ended by 12.00 P.M

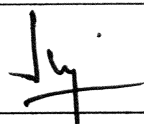
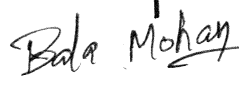



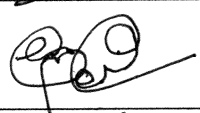
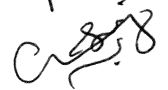

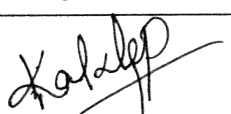
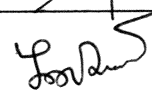
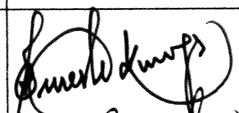
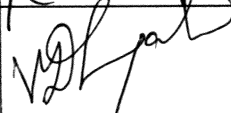
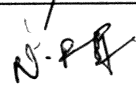
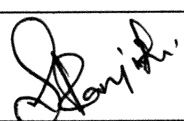


  
**HoD**  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

**CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DEPARTMENT: AGRICULTURAL ENGINEERING**

The following Members were attending DAC meeting held on 15.02.2023 (EVEN SEM) at Department of Agricultural Engineering.

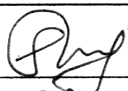
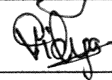
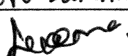
S.No.	Name of the Member	Position	Signature
1.	Dr. Sridhar N Associate Professor & Head, Department of Agricultural Engineering, HiCET.	Chairman	
2.	Dr. Bala Mohan Professor, Department of Agricultural Engineering, HiCET.	Faculty Member	
3.	Dr. Sekar S Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
4.	Dr. Rajaravi C Associate Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
5.	Mr. Jany Giles A Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
6.	Mrs. Gowsalya S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
7.	Mrs. Chinju Saju Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
8.	Mrs. Ramya K Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
9.	Mrs. Kalaiselvi M Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
10.	Mr. Seerangurayar T Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
11.	Mr. Dinesh Kumar S Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
12.	Mr. Dhayalan V Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
13.	Ms. Ramya N Assistant Professor Department of Agricultural Engineering, HiCET.	Faculty Member	
14.	Er. Ranjitha S Manager-Farm Operations Greenzy- Krishirishi Agrofarms LLP.	Member (Alumni/Industry Expert)	

# **Hindusthan College of Engineering and Technology**


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Valley Campus, Pollachi Highway, Coimbatore – 641 032

	Coimbatore.		
15.	Sanjay M Department of Agricultural Engineering, HiCET.	Student Member	
16.	Vidhya S Department of Agricultural Engineering, HiCET.	Student Member	
17.	Mrs.K.GuruLakshmi	Parents Member	Guru Lakshmi .
18.	Mrs.Leema jaya Rose	Parents Member	



  
**HEAD OF THE DEPARTMENT**  
 Department of Agriculture Engineering  
 Hindusthan College of Engg. & Tech.  
 Coimbatore - 32.



## ***Hindusthan College of Engineering and Technology***

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Valley Campus, Pollachi Highway, Coimbatore - 641032.

### **DEPARTMENT OF AGRICULTURE ENGINEERING**

### **DEPARTMENT ADVISORY COMMITTEE MEETING (DAC)**

**Dated: 19.08.2022**

#### **HiCET/Dept.of Agri. Engg /DAC 7/Circular/2022-23**

It is planned to conduct the Department Advisory Committee (DAC) meeting to discuss, syllabus revision /update, new course introduction of the 2019 Regulation and scheme of curriculum under regulation 2022 for the students admitted from the academic year 2022-2023. In this regard, the 7<sup>th</sup> DAC meeting for 2022-23 is scheduled on 22<sup>nd</sup> August 2022 at 10.00 AM in the HOD cabin. The DAC members all are asked to attend and discuss the same during the meeting and put forth their suggestions to develop the curriculum and syllabus for the upcoming BOS. The agenda has been enclosed for further reference.

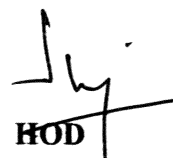
**Venue:** HOD Cabin

**Date of meeting:** 22.08.2022 at 10 .00 AM

#### **Agenda**

- Syllabus revision/updating under regulation 2019 (ODD Sem) in Theory, Theory with lab components and laboratory experiments.
- The curriculum and syllabus for the new courses under VII semester.
- The scheme of curriculum under regulation 2022 for the students admitted from the academic year 2022-2023
- CO – PO attainment of 2018-2022 Batch and Points discussed in PAC
- Any other issues.



  
HOD

**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.



## **CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

### **DEPARTMENT: AGRICULTURE ENGINEERING**

The Constitution of DAC Members for the academic year of 2022-23 is listed below

<b>S.No.</b>	<b>Name of the Member</b>	<b>Position</b>
1.	Dr Sridhar M Associate Professor & Head, Department of Agriculture Engineering, HiCET.	Chairman
2.	Dr. Balamohan TN Professor, Department of Agriculture Engineering, HiCET.	Member
3.	Dr. Sekar S Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Member
4.	Dr. Rajaravi C Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Member
5.	Mr. Dinesh Kumar S Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
6.	Mr. Dhayalan V Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
7.	Mrs. Gowsalya S Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
8.	Mrs. Ramya K Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
9.	Ms. Ramya N Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
10.	Mrs. Kalaiselvi M Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
11.	Mr. Seerangurayar T Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
12.	Mrs. Chinju Saju Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
13.	Jany Giles A Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member

## ***Hindusthan College of Engineering and Technology***

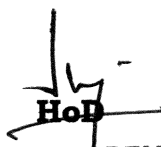
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14	Er.Ranjitha S Manager-Farm Operations Greenzy- Krishirishi Agrofarms LLP. Coimbatore.	Member (Alumni/Industry Expert)
15	Sanjay M Department of Agricultural Engineering, HiCET.	Student Member
16	Vidhya S Department of Agricultural Engineering, HiCET.	Student Member
17	Mrs.K.GuruLakshimi	Parents Member
18	Mrs.Leema jaya Rose	Parents Member



  
**HEAD OF THE DEPARTMENT**  
 Department of Agriculture Engineering  
 Hindusthan College of Engg. & Tech.  
 Coimbatore - 32.

**DEPARTMENT OF AGRICULTURE ENGINEERING**

**MINUTES OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DATE:22.8.2022**

The 7<sup>th</sup> DAC Meeting was held on 22.8.2022 at 10.00 AM in HoD Cabin, Department of Agri.Engg, HiCET. All the stakeholder were presented during the session. The minutes of the session presented below.

The Chairman presented the vision and mission of the institution as follows

**Vision of the Institute**

- **IV1:** To become a premier institution by producing professionals with strong technical knowledge, innovative research skills and high ethical values

**Mission of the Institute**

- **IM1:** To provide academic excellence in technical education through novel teaching methods
- **IM2:** To empower students with creative skills and leadership qualities
- **IM3:** To produce dedicated professionals with social responsibility

Chairman briefed the Vision and Mission, PEOs and PSOs of the Department of Agriculture Engineering as follows

**Vision of the Department**

To become a department of excellence in agricultural engineering by producing socially conscious professionals with good technical knowledge and innovative skill sets.

**Mission of the Department**

- To impart strong technical knowledge in agricultural engineering through conducive learning environment
- To empower students with innovative skill sets to address agricultural issues.
- To produce socially responsible agricultural professionals and provide sustainable solutions.

**Program Educational Objectives**

**PEO1:** Graduates shall exhibit their sound theoretical, practical skills and knowledge for being a successful professional.

**PEO2:** Graduates shall be creative with leadership qualities and lifelong learning skills.

**PEO3:** Graduates shall hold high ethical values and be able to devise sustainable solutions to address agricultural issue.

## Program Specific Outcomes

**PSO1-** Ability to understand agricultural scenario in World and India and superimpose agricultural engineering technologies for uplifting the agriculture.

**PSO2-** Ability to solve various issues in agriculture by infusing farm mechanization, conservation strategies for soil, water and renewable energy, advanced irrigation techniques and post harvest technology

Action taken report on minutes of previous meeting presented by Chairman

CO-PO attainment details of batch 2018-2022 and continuous improvement were discussed by the Chairman.

The suggestions given by the PAC members and action to be taken for continuous improvement in CO-PO attainment were discussed and Passed to BoS for approval.

Syllabus revision/updating under regulation 2019 (ODD Sem) in Theory, Theory with lab components and laboratory experiments for agriculture Engineers were discussed below and suggestion by stakeholders are noted.

S.No	Subject Code	Name of the Subject	Revision and Updation	Percentage (%) of Suggestion
1	21AG3202	Fluid Mechanics and Hydraulics	Unit – II, III and V	25
2	21AG3204	Principles and Practices of Crop Production	Unit-II, IV and V	35
3	21AG3251	Unit Operations in Agricultural Processing	Unit -II and V	15
4	19AG5201	Farm Machinery and Equipment	Unit -III, IV and V	30
5	19AG5203	Theory of Machines	Unit I, II and V	20
6	19AG5001	Operation And Maintenance of Farm Machinery Laboratory	Three Experiment has suggested to change	30
Overall percentage of changes suggested by Members				<b>21.54</b>

The following curriculum and syllabus for the new courses under VII semester was discussed

S.No	Course Code	Course Title	Credit
1	19AG7201	Agricultural Extension	3
2	19AG7202	Remote Sensing and Geographical Information System	3
3	19AG7301	Post-Harvest Technology	3

4	19AG7302	Dairy Process Technology	3
5	19AG7303	Storage and Packaging Technology	3
6	19AG7304	Process Engineering of Fruits and Vegetables	3
7	19AG7305	Fat and Oil Processing	3
8	19AG7401	Urban Agriculture and organic farming	3
9	19AG7251	Precision Farming and Protected Cultivation	3
10	19AG7001	Renewable Energy Laboratory	1.5
11	19AG7002	GIS Laboratory for Agricultural Engineers	1.5
12	19AG7901	Innovative Project	2

- ❖ Chairman explained about the integration of curriculum with RCPSDC (The Rubber, Chemical & Petrochemical Skill Development Council, under the aegis of National Skill Development Corporation (NSDC), GOI) under regulation 2019 for skill development and its importance to DAC members and following Course 19AG7402 -Quality analysis in rubber industry consider as open Elective in the current curriculum related to RCPSDC for other branch students.
- ❖ Members are suggested to add advance courses like Drone Technology, IOT in Agriculture and GIS and RS, Design of farm implements, learn of new design software and language for writing code for activating agricultural components in Vertical V and VI and B.Tech Hons in the scheme of curriculum under regulation 2022 for the students admitted from the academic year 2022-2023.
- ❖ Mrs.Chinju saju suggested creating awareness among students related to NPTEL Courses and credit transfer.
- ❖ Mr.Seerangurayar suggested arranging more internship opportunities for the II and III year students which help them too aware about industry expectation from the students.
- ❖ The CO – PO attainment for the academic year 2021 – 2022 was discussed. All the POs are attained and CO-PO mapping was discussed for the upcoming semester courses.

The meeting ended by 12.00 P.M

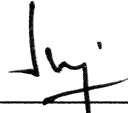
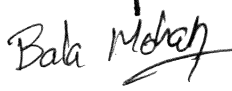


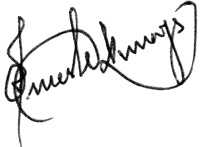
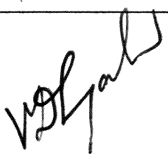



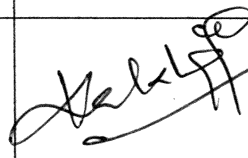
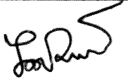


**HEAD OF THE DEPARTMENT**  
Department of Agricultural Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

**CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**


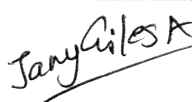
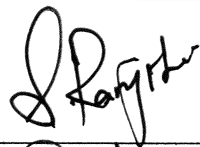

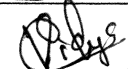
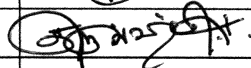
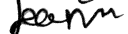
**DEPARTMENT: AGRICULTURE ENGINEERING**

The following Members were attending DAC meeting held on 22.08.2022 at Department of Agriculture Engineering.

S.No.	Name of the Member	Position	Signature
1.	Dr Sridhar M Associate Professor & Head, Department of Agriculture Engineering, HiCET.	Chairman	
2.	Dr. Balamohan TN Professor, Department of Agriculture Engineering, HiCET.	Member	
3.	Dr. Sekar S Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Member	
4.	Dr. Rajaravi C Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Member	
5.	Mr. Dinesh Kumar S Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
6.	Mr. Dhayalan V Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
7.	Mrs. Gowsalya S Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
8.	Mrs. Ramya K Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
9.	Ms. Ramya N Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
10.	Mrs. Kalaiselvi M Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
11.	Mr. Seerangurayar T Assistant Professor, Department of Agriculture	Member	

# Hindusthan College of Engineering and Technology

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Valley Campus, Pollachi Highway, Coimbatore – 641 032

	Engineering, Hindusthan College of Engineering and Technology.		
12.	Mrs. Chinju Saju Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
13.	Jany Giles A Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
14	Er.Ranjitha S Manager-Farm Operations Greenzy- Krishirishi Agrofarms LLP. Coimbatore.	Member (Alumni/Industry Expert)	
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Valley Campus, Pollachi Highway, Coimbatore - 641032.

### **DEPARTMENT OF AGRICULTURE ENGINEERING**

### **DEPARTMENT ADVISORY COMMITTEE MEETING (DAC)**

**Dated: 24.01.2022**

#### **HiCET/Dept.of Agri. Engg /DAC 6/Circular/2021-22**

It is planned to conduct the Department Advisory Committee (DAC) meeting to discuss, syllabus revision /update, new course introduction of the 2016 Regulation and 2019 Regulation for the students admitted from the academic year 2021-2022. In this regard, the 6<sup>th</sup> DAC meeting for 2021-22 is scheduled on 26<sup>th</sup> Jan 2022 at 10.00 AM in the HOD cabin. The DAC members all are asked to attend and discuss the same during the meeting and put forth their suggestions to develop the curriculum and syllabus for the upcoming BOS. The agenda has been enclosed for further reference.


**Venue:** HOD Cabin

**Date of meeting:** 26.01.2022 at 10 .00 AM

#### **Agenda**

- Action taken report of last DAC meeting
- Syllabus revision/updating under Regulation 2016 and Regulation 2019 (EVEN Sem) in Theory, Theory with lab components and laboratory experiments.
- The curriculum and syllabus for the new courses under VIII semester of Regulation 2016 and VI semester of Regulation 2019.
- Syllabus revision in IV semester of Regulation 2019 for admitting 2020 batch students.
- Considering NASCOM/ Learnathon course as a Value added course.
- Discussion on Soft Skills and Employability Enhancement Courses
- Any other issues.



  
**HOD**  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
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## **CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

### **DEPARTMENT: AGRICULTURE ENGINEERING**

The Constitution of DAC Members for the academic year of 2021-22 (EVEN Semester) is listed below


<b>S.No</b>	<b>Name of the Person</b>	<b>Department</b>	<b>Position</b>
1	Dr.N.Sridhar	Associate Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Chairman
2	Dr. Balamohan TN	Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
3	Dr. Sekar S	Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
4	Dr. Rajaravi C	Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
5	Mr. Dinesh Kumar S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
6	Ms. Meena S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
7	Mrs. Gowsalya S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
8	Mrs. Ramya K	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
9	Ms. Ramya N	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
10	Mrs. Kalaiselvi M	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
11	Mr. Seerangurayar T	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
12	Mrs. Chinju Saju	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member

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13	Mr.Jany Giles A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
14	Sakthi Kumar M	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Student
15	Sreelekshimi Saseendran	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Student



  
**HoD**  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

**DEPARTMENT OF AGRICULTURE ENGINEERING**

**MINUTES OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DATE: 26.01.2022**

The 6<sup>th</sup> DAC Meeting was held on 26.01.2022 at 10.00 AM in HoD Cabin, Department of Agri.Engg, HiCET. All the stakeholder were presented during the session. The minutes of the session presented below.

The Chairman presented the vision and mission of the institution as follows

**Vision of the Institute**

- **IV1:** To become a premier institution by producing professionals with strong technical knowledge, innovative research skills and high ethical values

**Mission of the Institute**

- **IM1:** To provide academic excellence in technical education through novel teaching methods
- **IM2:** To empower students with creative skills and leadership qualities
- **IM3:** To produce dedicated professionals with social responsibility

Chairman briefed the Vision and Mission, PEOs and PSOs of the Department of Agriculture Engineering as follows

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To become a department of excellence in agricultural engineering by producing socially conscious professionals with good technical knowledge and innovative skill sets.

**Mission of the Department**

- To impart strong technical knowledge in agricultural engineering through conducive learning environment
- To empower students with innovative skill sets to address agricultural issues.
- To produce socially responsible agricultural professionals and provide sustainable solutions.

**Program Educational Objectives**

**PEO1:** Graduates shall exhibit their sound theoretical, practical skills and knowledge for being a successful professional.

**PEO2:** Graduates shall be creative with leadership qualities and lifelong learning skills.

**PEO3:** Graduates shall hold high ethical values and be able to devise sustainable solutions to address agricultural issue.

## **Program Specific Outcomes**

**PSO1-** Ability to understand agricultural scenario in World and India and superimpose agricultural engineering technologies for uplifting the agriculture.

**PSO2-** Ability to solve various issues in agriculture by infusing farm mechanization, conservation strategies for soil, water and renewable energy, advanced irrigation techniques and post harvest technology

Syllabus revision/updating under Regulation 2016 and Regulation 2019 in Theory, Theory with lab components and laboratory experiments for agriculture Engineers were discussed below and suggestion by stakeholders are noted.

S.No	Subject Code	Name of the Subject	Revision and Updation suggested by Member	Percentage (%) of Suggestion
1	19AG4202	Thermodynamics	Unit II and II (Change syllabus content)	30
2	19AG4203	Irrigation and Drainage Engineering	Unit I and V (Change syllabus content)	30
3	19AG4201	Farm Tractors	Unit II and V (Change syllabus content)	35
4	19AG4251	Bio-Energy Resource Technology	Three practical experiment changes required and adding experiment regarding to biomass conservation	25
5	19AG4252	Surveying and Leveling	Four practical experiment changes required and adding experiment regarding to Theodolite	25
6	19AG4001	Irrigation Field Laboratory	Three practical experiment changes required and adding experiment regarding to design of drip system	25
Over all Percentage of change was suggested by member				<b>24.28</b>

The following curriculum and syllabus for the new courses under VIII semester of 2016 Regulation was discussed and suggestion noted

S.No	Course Code	Course Title	Credit
1.	16AG8901	Project Work	10
2.	16AG8301	Agricultural Business Management and Entrepreneurship	3

3.	16AG8302	Agricultural Economics and Farm Managements	3
4.	16AG8303	Intellectual Property Rights	3
5.	16AG8304	Agricultural Waste Management	3
6.	16AG8305	Special Farm Equipment	3
7.	16AG8306	Mechanics of Tillage and Traction	3
8.	16AG8307	Micro Irrigation System	3
9.	16AG8308	Automation in Irrigation	3

- The following curriculum and syllabus for the new courses under VI semester of 2019 Regulation was discussed and suggestion noted.

S.No	Course Code	Course Title	Credit
1.	19AG6201	Hydrology and Water Resources Engineering	3
2.	19AG6202	Solar and Wind Energy Engineering	3
3.	19AG6181	Professional Ethics	3
4.	19AG6251	Food and Dairy Engineering	3
5.	19AG6252	ICT in Agricultural Engineering	3
6.	19AG6701	Industrial Training	3
7.	19AG6301	Climate change and adaptation	3
8.	19AG6302	Heat and Mass Transfers for Agricultural Engineers	3
9.	19AG6303	Disaster Management	3
10.	19AG6304	Horticultural Crop Processing	3
11.	19AG6305	Organic Farming Technologies	3
12	19AG6401	Urban Agriculture and organic Farming	3

Members suggested to give following course 19VAAG01-Training on Manufacture of Agricultural Implements, 19VAAG02-Principles of machine drawing, 19VAAG03-Training on Mobile App and Web Development for monitoring agricultural practices, 19VAAG04-Practicing PLC,Arduino for agricultural machinery Automation and 19VAAG05-Principles of gardening and design consideration as a value-added course for improving students' skill.

**Members** following are the list of courses under NASCOM/ Learnathon consider as value added course.

- Python Basics
- SQL Fundamentals
- Acquiring Data
- Adobe UX/ UI
- Web Development. Foundation.
- Operation Systems and Shell Scripting.
- Microsoft Azure Fundamentals.
- Invite the industrial expert to provide value added courses

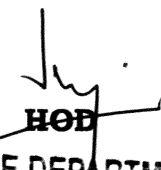
Following are the list of courses completed under Learnathon

- Basics of Managing money.
- Network virtualization concepts.
- Image and signal processing.
- Cybersecurity Essential.
- Automation 360 RPA Essentials.
- The basics of Process Mining.

Ms.Athira suggest to Encourage the Students to participates in various online certification courses

The meeting ended by 12.00 P.M



  
**HOD**  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

**CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DEPARTMENT: AGRICULTURE ENGINEERING**

The following Members were attending DAC meeting held on 26.01.2022 at Department of Agriculture Engineering.

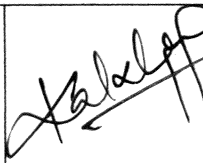

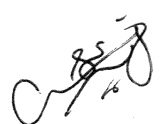

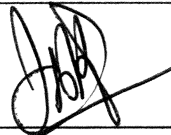

S.No	Name of the Person	Department	Position	Signature
1	Dr.N.Sridhar	Associate Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Chairman	
2	Dr. Balamohan TN	Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
3	Dr. Sekar S	Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
4	Dr. Rajaravi C	Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
5	Mr. Dinesh Kumar S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
6	Ms. Meena S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
7	Mrs. Gowsalya S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
8	Mrs. Ramya K	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
9	Ms. Ramya N	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	

# Hindusthan College of Engineering and Technology

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Valley Campus, Pollachi Highway, Coimbatore – 641 032

10	Mrs. Kalaiselvi M	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
11	Mr. Seerangurayar T	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
12	Mrs. Chinju Saju	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
13	Mr. Jany Giles A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
14	Sakthi Kumar M	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Student	
15	Sreelekshimi Saseendran	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Student	



  
HOD

**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
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Valley Campus, Pollachi Highway, Coimbatore - 641032.

### **DEPARTMENT OF AGRICULTURE ENGINEERING**

### **DEPARTMENT ADVISORY COMMITTEE MEETING (DAC)**

**Dated: 3.07.2021**

#### **HiCET/Dept.of Agri. Engg /DAC 5/Circular/2021-22**

It is planned to conduct the Department Advisory Committee (DAC) meeting to discuss, syllabus revision /update, new course introduction of the 2016 Regulation and 2019 Regulation for the students admitted from the academic year 2020-2021. In this regard, the 5<sup>th</sup> DAC meeting for 2021-22 is scheduled on 6<sup>th</sup> July 2021 at 10.00 AM in the HOD cabin. The DAC members all are asked to attend and discuss the same during the meeting and put forth their suggestions to develop the curriculum and syllabus for the upcoming BOS. The agenda has been enclosed for further reference.

**Venue:** HOD Cabin

**Date of meeting:** 06.07.2021 at 10 .00 AM

#### **Agenda**

- Action taken report of last DAC meeting
- Syllabus revision/updating under Regulation 2016 and Regulation 2019 (ODD Sem) in Theory, Theory with lab components and laboratory experiments.
- The curriculum and syllabus for the new courses under VII semester of Regulation 2016 and V semester of Regulation 2019.
- Syllabus revision in III semester of Regulation 2019 for admitting 2020 batch students.
- Online courses and skill-based courses and Value-added course
- CO – PO attainment
- Any other issues.



  
HOD

**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
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Coimbatore - 32.

## **CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

### **DEPARTMENT: AGRICULTURE ENGINEERING**

The Constitution of DAC Members for the academic year of 2021-22 (ODD Semester) is listed below

<b>S.No</b>	<b>Name of the Person</b>	<b>Department</b>	<b>Position</b>
1	Dr.N.Sridhar	Associate Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Chairman
2	Dr. Balamohan TN	Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
3	Dr. Sekar S	Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
4	Dr. Rajaravi C	Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
5	Mr. Dinesh Kumar S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
6	Ms. Meena S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
7	Mrs. Gowsalya S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
8	Mrs. Ramya K	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
9	Ms. Ramya N	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
10	Mrs. Kalaiselvi M	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
11	Mr. Seerangurayar T	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
12	Mrs. Chinju Saju	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member

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13	Mr.Jany Giles A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
14	Sakthi Kumar M	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Student
15	Sreelekshimi Saseendran	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Student



  
**HoD**  
**HEAD OF THE DEPARTMENT**  
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## **DEPARTMENT OF AGRICULTURE ENGINEERING**

### **MINUTES OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DATE:06.07.2021**

The 5<sup>th</sup> DAC Meeting was held on 06.07.2021 at 10.00 AM in HoD Cabin, Department of Agri.Engg, HiCET. All the stakeholder were presented during the session. The minutes of the session presented below.

The Chairman presented the vision and mission of the institution as follows

#### **Vision of the Institute**

- **IV1:** To become a premier institution by producing professionals with strong technical knowledge, innovative research skills and high ethical values

#### **Mission of the Institute**

- **IM1:** To provide academic excellence in technical education through novel teaching methods
- **IM2:** To empower students with creative skills and leadership qualities
- **IM3:** To produce dedicated professionals with social responsibility

Chairman briefed the Vision and Mission, PEOs and PSOs of the Department of Agriculture Engineering as follows

#### **Vision of the Department**

To become a department of excellence in agricultural engineering by producing socially conscious professionals with good technical knowledge and innovative skill sets.

#### **Mission of the Department**

- To impart strong technical knowledge in agricultural engineering through conducive learning environment
- To empower students with innovative skill sets to address agricultural issues.
- To produce socially responsible agricultural professionals and provide sustainable solutions.

#### **Program Educational Objectives**

**PEO1:** Graduates shall exhibit their sound theoretical, practical skills and knowledge for being a successful professional.

**PEO2:** Graduates shall be creative with leadership qualities and lifelong learning skills.

**PEO3:** Graduates shall hold high ethical values and be able to devise sustainable solutions to address agricultural issue.

## **Program Specific Outcomes**

**PSO1-** Ability to understand agricultural scenario in World and India and superimpose agricultural engineering technologies for uplifting the agriculture.

**PSO2-** Ability to solve various issues in agriculture by infusing farm mechanization, conservation strategies for soil, water and renewable energy, advanced irrigation techniques and post harvest technology

Syllabus revision/updating under Regulation 2016 and Regulation 2019 in Theory, Theory with lab components and laboratory experiments for agriculture Engineers were discussed below and suggestion by stakeholders are noted.

S.No	Subject Code	Name of the Subject	Revision and Updation suggested by Member	Percentage (%) of Suggestion
1	19AG3201	Soil Science and Engineering	Unit – II, III and V (change syllabus content)	25
2	19AG3001	Field Crop Production Practical	Change 4 experiments	40
3	19AG3002	Soil Science Laboratory	Change 4 experiments	40
4.	19AG3251	Unit Operations in Agricultural Processing	Unit -I and IV V (change syllabus content )	30
Over all Percentage of change was suggested by member				22.5

The following curriculum and syllabus for the new courses under VII semester of 2016 Regulation was discussed and suggestion noted

S.No	Course Code	Course Title	Credit
1	16AG7201	Groundwater and Well Engineering	3
2	16AG7202	Remote Sensing and Geographical Information System	3
3	16AG7203	Solar and Wind Energy Engineering	3
4	16AG7204	Agricultural Extension	3
5	16AG7001	GIS Laboratory for Agricultural Engineers	2
6	16AG7002	Renewable Energy Laboratory	2
7	16AG7003	ICT in Agricultural Engineering	2

9	19HE5072	Design Thinking	1
10	19AG5301	Systems Analysis and Soft Computing in Agricultural Engineering	3
11	19AG5302	Sustainable Agriculture and Food Security	3
12	19AG5303	CDM and Carbon Trading Technology	3
13	19AG5304	IOT in Agricultural Systems	3
14	19AG5305	Ergonomics and Safety in Agricultural Engineering	3

- ❖ Members suggested to give following course 16VA AG01- Training on Testing and Evaluation of agriculture machinery and implements, 16VA AG02-Principles of gardening and design consideration.16VA AG03- Training on Mobile App and Web Development for monitoring agricultural practices as a value-added course for improving students' skill.
- ❖ Mrs.Chinju saju suggested to create awareness among students related to Coursera /NPTEL Courses / Learn various software languages/Design software.
- ❖ Mr.Athira suggested to arrange more internship opportunities for the II and III year students.
- ❖ The CO – PO attainment for the academic year 2019 – 20 was discussed. All the POs are attained.
- ❖ Assessment levels for the courses were proposed were approved and forwarded to BoS.
- ❖ CO-PO mapping was discussed for the upcoming semester courses.

The meeting ended by 12.00 P.M

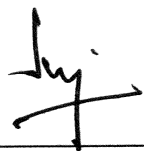




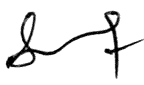





*[Signature]*  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

**CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DEPARTMENT: AGRICULTURE ENGINEERING**

The following Members were attending DAC meeting held on 06.07.2021 at Department of Agriculture Engineering.



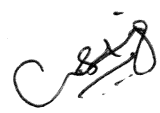

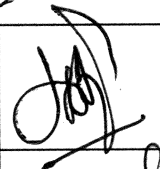
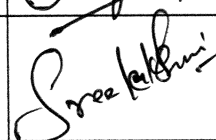
S.No	Name of the Person	Department	Position	Signature
1	Dr.N.Sridhar	Associate Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Chairman	
2	Dr. Balamohan TN	Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
3	Dr. Sekar S	Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
4	Dr. Rajaravi C	Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
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6	Ms. Meena S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
7	Mrs. Gowsalya S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
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9	Ms. Ramya N	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	

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Valley Campus, Pollachi Highway, Coimbatore – 641 032

10	Mrs. Kalaiselvi M	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
11	Mr. Seerangurayar T	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
12	Mrs. Chinju Saju	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
13	Mr. Jany Giles A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
14	Sakthi Kumar M	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Student	
15	Sreelekshimi Saseendran	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Student	



  
HoD  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.





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### **DEPARTMENT OF AGRICULTURE ENGINEERING**

### **DEPARTMENT ADVISORY COMMITTEE MEETING (DAC)**

**Dated: 2.02.2021**

#### **HiCET/Dept.of Agri. Engg /DAC 4/Circular/2020-21**

It is planned to conduct the Department Advisory Committee (DAC) meeting to discuss, syllabus revision /update, new course introduction of the 2016 Regulation and 2019 Regulation for the students admitted from the academic year 2020-2021. In this regard, the 4<sup>th</sup> DAC meeting for 2020-21 is scheduled on 04<sup>th</sup> Feb 2021 at 10.00 AM in the HOD cabin. The DAC members all are asked to attend and discuss the same during the meeting and put forth their suggestions to develop the curriculum and syllabus for the upcoming BOS. The agenda has been enclosed for further reference.

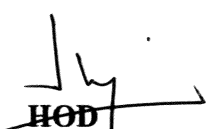
**Venue:** HOD Cabin

**Date of meeting:** 04.02.2021 at 10 .00 AM

#### **Agenda**

- Syllabus revision/updating under Regulation 2016 and Regulation 2019 (EVEN Sem) in Theory, Theory with lab components and laboratory experiments.
- The curriculum and syllabus for the new courses under VI semester of Regulation 2016 and IV semester of Regulation 2019.
- Syllabus revision in II semester of Regulation 2019 for admitting 2020 batch students.
- Any other issues.



  
**HOD**  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
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**DEPARTMENT OF AGRICULTURE ENGINEERING**

**MINUTES OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DATE:04.02.2021**

The 4<sup>th</sup> DAC Meeting was held on 04.02.2021 at 10.00 AM in HoD Cabin, Department of Agri.Engg, HiCET. All the stakeholder were presented during the session. The minutes of the session presented below.

The Chairman presented the vision and mission of the institution as follows

**Vision of the Institute**

- **IV1:** To become a premier institution by producing professionals with strong technical knowledge, innovative research skills and high ethical values

**Mission of the Institute**

- **IM1:** To provide academic excellence in technical education through novel teaching methods
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## **Program Specific Outcomes**

**PSO1-** Ability to understand agricultural scenario in World and India and superimpose agricultural engineering technologies for uplifting the agriculture.

**PSO2-** Ability to solve various issues in agriculture by infusing farm mechanization, conservation strategies for soil, water and renewable energy, advanced irrigation techniques and post harvest technology.

Syllabus revision/updating under Regulation 2016 and Regulation 2019 in Theory, Theory with lab components and laboratory experiments for agriculture Engineers were discussed below and suggestion by stakeholders are noted.

S.No	Subject Code	Name of the Subject	Changes suggested by DAC members
1	16AG6204	Bio-Energy Resource Technology	Unit- I, II, and V (change syllabus content)
2	16AG6401	Nanotechnology in Agriculture	Change course like Roof Top gardening and Organic Farming
3	19AG4252	Surveying and Levelling	Unit -II (Add Theory part regarding to survey)
4	-	19AG6201 Thermodynamics courses. 19AG4202 Hydrology and water resource Engineering	Interchange from VI sem to IV sem and IV sem into VI sem

The following curriculum and syllabus for the new courses under V and VI semester of Regulation 2016 was discussed suggestions noted

S.No	Course Code	Course Title	Credit
1	16AG6201	Soil and Water Conservation Engineering	3
2	16AG6202	Food and Dairy Engineering	3
3	16AG6203	Precision Farming and Protected Cultivation	3
4	16AG6204	Bio-Energy Resource Technology	3
5	16AG6301	Climate Change and Adaptation	3
6	16AG6302	Heat and Mass Transfers for Agricultural Engineers	3
7	16AG6303	Disaster Management	3

8	16AG6304	Horticultural Crop Processing	3
9	16AG6401	Rooftop gardening and organic farming	3
10	16AG6001	CAD for Agricultural Engineering	2
11	16AG6002	Drawing of Farm Structures	2
12	16AG6003	Food and Dairy Engineering Laboratory	2

The following curriculum and syllabus for the new courses under III and VI semester of Regulation 2019 was discussed and suggestions noted

S.No	Course Code	Course Title	Credit
1	19AG4201	Farm Tractors	3
2	19AG4202	Thermodynamics	3
3	19AG4203	Irrigation and Drainage Engineering	3
4	19AG4251	Bio-Energy Resource Technology	3
5	19AG4252	Surveying and leveling	3
6	19AG4001	Irrigation Field Laboratory	2

**Mrs.Chinju saju suggested** to create awareness among students related to NPTEL Courses /

Learn various software languages/Design software.

Mr.Likshitha suggested to arrange more internship opportunities for the II and III year students.

The meeting ended by 12.00 P.M



**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
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## CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)

### DEPARTMENT: AGRICULTURE ENGINEERING

The following Members were attending DAC meeting held on 04.02.2021 at Department of Agriculture Engineering.

S.No	Name of the Person	Department	Position	Signature
1	Dr.N.Sridhar	Associate Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Chairman	
2	Dr. Balamohan TN	Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
3	Dr. Sekar S	Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
4	Dr.Archana Nancy	Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
5	Mr. Shanmugasundaram A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
6	Mr. Parthasarathi A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
7	Mrs. Gowsalya S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
8	Mrs. Ramya K	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
9	Mr. Arun Karthick G	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of	Member	

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		Engineering and Technology.		
10	Ms. Likshitha	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	<i>Likshitha</i>
11	Mr. Deepak N	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	<i>Deepak N</i>
12	Mrs. Chinju Saju	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	<i>Chinju Saju</i>
13	Mr. Jany Giles A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	<i>Jany Giles A</i>
14	Sakthi Kumar M	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Student	<i>Sakthi Kumar M</i>
15	Sreelekshimi Saseendran	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Student	<i>Sreelekshimi Saseendran</i>



*[Signature]*  
HOD

**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.



## ***Hindusthan College of Engineering and Technology***

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

### **DEPARTMENT OF AGRICULTURE ENGINEERING DEPARTMENT ADVISORY COMMITTEE MEETING (DAC)**

**Dated: 02.09.2020**

#### **HiCET/Dept.of Agri. Engg /DAC 3/Circular/2020-21**

It is planned to conduct the Department Advisory Committee (DAC) meeting to discuss, syllabus revision /update, new course introduction of the 2016 Regulation and 2019 Regulation for the students admitted from the academic year 2019-2020. In this regard, the 3<sup>rd</sup> DAC meeting for 2020-21 is scheduled on 04<sup>th</sup> September 2020 at 10.00 AM in the HOD cabin. The DAC members all are asked to attend and discuss the same during the meeting and put forth their suggestions to develop the curriculum and syllabus for the upcoming BOS. The agenda has been enclosed for further reference.

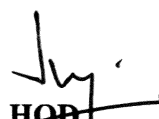
**Venue:** HOD Cabin

**Date of meeting:** 04.09.2020 at 10 .00 AM

#### **Agenda**

- Syllabus revision/updating under Regulation 2016 and Regulation 2019 (ODD Sem) in Theory, Theory with lab components and laboratory experiments.
- The curriculum and syllabus for the new courses under V semester of Regulation 2016 and III semester of Regulation 2019.
- Syllabus revision in I semester of Regulation 2019 for admitting 2020 batch students
- CO – PO attainment
- Any other issues.



  
**HOD**  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

**CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DEPARTMENT: AGRICULTURE ENGINEERING**

The Constitution of DAC Members for the academic year of 2020-21 (ODD Semester) is listed below

S.No	Name of the Person	Department	Position
1.	Dr.N.Sridhar	Associate Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Chairman
2.	Dr. Balamohan TN	Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
3.	Dr. Sekar S	Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
4.	Dr.Archana Nancy	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
5.	Mr. Shanmugasundaram A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
6.	Mr. Parthasarathi A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
7.	Mrs. Gowsalya S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
8.	Mrs. Ramya K	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
9.	Mr. Arun Karthick G	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
10.	Ms. Likshitha	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member



# **Hindusthan College of Engineering and Technology**

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(An Autonomous Institution, Affiliated to Anna University, Chennai)

Valley Campus, Pollachi Highway, Coimbatore – 641 032

11.	Mr. Deepak N	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
12.	Mrs. Chinju Saju	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
13.	Mr. Jany Giles A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member
14.	Mr.C.V.Madheswaran	Managing Director, KSNM Marketing, Coimbatore BME Industrial Expert; SF NO 29/1B Onapalayam Coimbatore- 641190.	Industry Expert
15.	Abitha	Student Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Student Member
16.	Ayyappan	Pillaiyar Kovil St, Othaveedu, Adhambar P. O, Nannilam. 610105	Parent Member



**HoD**  
**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

**DEPARTMENT OF AGRICULTURE ENGINEERING**

**MINUTES OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DATE:04.09.2020**

The 3rd DAC Meeting was held on 04.09.2020 at 10.00 AM in HoD Cabin, Department of Agri.Engg, HiCET. All the stakeholder were presented during the session. The minutes of the session presented below.

The Chairman presented the vision and mission of the institution as follows

**Vision of the Institute**

- **IV1:** To become a premier institution by producing professionals with strong technical knowledge, innovative research skills and high ethical values

**Mission of the Institute**

- **IM1:** To provide academic excellence in technical education through novel teaching methods
- **IM2:** To empower students with creative skills and leadership qualities
- **IM3:** To produce dedicated professionals with social responsibility

Chairman briefed the Vision and Mission, PEOs and PSOs of the Department of Agriculture Engineering as follows

**Vision of the Department**

To become a department of excellence in agricultural engineering by producing socially conscious professionals with good technical knowledge and innovative skill sets.

**Mission of the Department**

- To impart strong technical knowledge in agricultural engineering through conducive learning environment
- To empower students with innovative skill sets to address agricultural issues.
- To produce socially responsible agricultural professionals and provide sustainable solutions.

**Program Educational Objectives**

**PEO1:** Graduates shall exhibit their sound theoretical, practical skills and knowledge for being a successful professional.

**PEO2:** Graduates shall be creative with leadership qualities and lifelong learning skills.

**PEO3:** Graduates shall hold high ethical values and be able to devise sustainable solutions to address agricultural issue.

## Program Specific Outcomes

**PSO1-** Ability to understand agricultural scenario in World and India and superimpose agricultural engineering technologies for uplifting the agriculture.

**PSO2-** Ability to solve various issues in agriculture by infusing farm mechanization, conservation strategies for soil, water and renewable energy, advanced irrigation techniques and post harvest technology

Syllabus revision/updating under Regulation 2016 and Regulation 2019 in Theory, Theory with lab components and laboratory experiments for agriculture Engineers were discussed below and suggestion by stakeholders are noted.

S.No	Subject Code	Name of the Subject	Changes suggested by DAC members
1.	16AG53XX	Evapotranspiration and Smart Irrigation	Unit – II, III and V (Syllabus Content change)
2.	19AG3201	Soil Science and Engineering	Unit – I and II ( Syllabus Content change )

The following curriculum and syllabus for the new courses under V and VI semester of Regulation 2016 was discussed suggestions noted

S.No	Course Code	Course Title	Credit
1.	16AG5201	Refrigeration and Cold chain management	3
2.	16AG5202	Farm Machinery and Equipment	3
3.	16AG5203	Design of Farm Implements and Machinery	3
4.	16AG5204	Post-Harvest Technology	3
5.	16AG5301	Systems Analysis and Soft Computing in Agricultural Engineering	3
6.	16AG5302	Sustainable Agriculture and Food Security	3
7.	16AG5303	CDM and Carbon Trading Technology	3
8.	16AG5304	IT in Agricultural Systems	3
9.	16AG5305	Evapotranspiration and Smart Irrigation	3

10.	16AG5001	Operation and Maintenance of Farm Machinery Laboratory	2
11.	16AG5002	Post-Harvest Engineering Laboratory	2

The following curriculum and syllabus for the new courses under III and VI semester of Regulation 2019 was discussed and suggestions noted

S.No	Course Code	Course Title	Credit
1.	19AG3201	Soil Science and Engineering	3
2.	19AG3202	Fluid Mechanics and Hydraulics	3
3.	19AG3203	Principles and practices of Crop Production	3
4.	19AG3251	Unit Operations in Agricultural Processing	3
5.	19AG3001	Field Crop Production Practical	1.5
6.	19AG3002	Soil Science Laboratory	1.5

- ❖ Mrs.Chinju saju suggested to create awareness among students related to NPTEL Courses / Learn various software languages/Design software.
- ❖ Mr.Likshitha suggested arranging more internship opportunities for the II and III year students.
- ❖ The CO – PO attainment for the academic year 2018 – 19 was discussed. All the POs are attained.
- ❖ Assessment levels for the courses were proposed were approved and forwarded to BoS.
- ❖ CO-PO mapping was discussed for the upcoming semester courses.

The meeting ended by 12.00 P.M




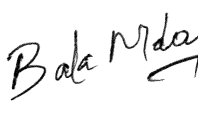

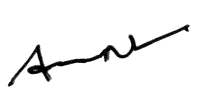
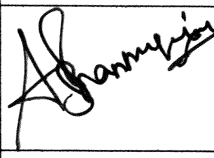

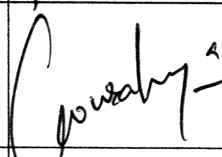



*[Signature]*  
HoD

**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Techn.  
Coimbatore - 32.

**CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

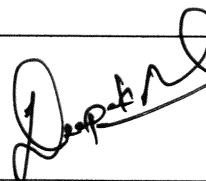
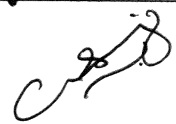
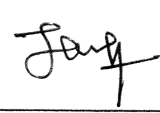


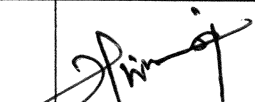
**DEPARTMENT: AGRICULTURE ENGINEERING**

The following Members were attending DAC meeting held on 04.09.2020 at Department of Agriculture Engineering.


S.No	Name of the Person	Department	Position	Signature
1.	Dr.N.Sridhar	Associate Professor / Head, Department of Agriculture Engineering, Hindustan College of Engineering and Technology.	Chairman	
2.	Dr. Balamohan TN	Professor, Department of Agriculture Engineering, Hindustan College of Engineering and Technology.	Member	
3.	Dr. Sekar S	Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
4.	Dr.Archana Nancy	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
5.	Mr. Shanmugasundaram A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
6.	Mr. Parthasarathi A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
7.	Mrs. Gowsalya S	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
8.	Mrs. Ramya K	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
9.	Mr. Arun Karthick G	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
10.	Ms. Likshitha	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of	Member	

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		Engineering and Technology.		
11.	Mr. Deepak N	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
12.	Mrs. Chinju Saju	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
13.	Mr. Jany Giles A	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
14.	Mr.C.V.Madheswaran	Managing Director, KSNM Marketing, Coimbatore BME Industrial Expert; SF NO 29/1B Onapalayam Coimbatore- 641190.	Industry Expert	
15.	Abitha	Student Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Student Member	
16.	Ayyappan	Pillaiyar Kovil St, Othaveedu, Adhambar P. O, Nannilam. 610105	Parent Member	



  
HoD  
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### **DEPARTMENT OF AGRICULTURE ENGINEERING**

### **DEPARTMENT ADVISORY COMMITTEE MEETING (DAC)**

**Dated: 5.04.2019**

#### **HiCET/Dept.of Agri. Engg /DAC 2/Circular/2019-2020**

It is planned to conduct the Department Advisory Committee (DAC) meeting to discuss, syllabus revision /update, new course introduction of the 2016 Regulation and scheme of curriculum under regulation 2019 for the students admitted from the academic year of 2019-2020. In this regard, the 2<sup>nd</sup> DAC meeting for 2019-20 is scheduled on 7<sup>th</sup> April 2019 at 10.00 AM in the HOD cabin. The DAC members all are asked to attend and discuss the same during the meeting and put forth their suggestions to develop the curriculum and syllabus for the upcoming BOS. The agenda has been enclosed for further reference.

**Venue:** HOD Cabin

**Date of meeting:** 07.04.2019 at 10 .00 AM

#### **Agenda**

- Syllabus revision/updating under regulation 2016 in Theory and laboratory experiments.
- The curriculum and syllabus for the new courses under III and IV semesters.
- The scheme of curriculum under regulation 2019 for the students admitted from the academic year 2019-2020
- Any other issues.



**HOD**

**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

**CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DEPARTMENT: AGRICULTURE ENGINEERING**

The Constitution of DAC Members for the academic year of 2019-2020 is listed below

S.No	Name of the Person	Department	Position
1	Dr.N.Asoka Raja,	Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Chairman
2	Dr.Archana Nancy	Assistant Professor, Department of Agriculture Engineering , Hindusthan College of Engineering and Technology.	Member
3	Ms.Mercy Backiyam	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Member
4	Mr. Deepak N	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Member
5	Mr.C.V.Madheswaran	Managing Director, KSNM Marketing, Coimbatore BME Industrial Expert; SF NO 29/1B Onapalayam Coimbatore- 641190.	Industry Expert
6	Abitha	Student Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Student Member
7	Ayyappan	Pillaiyar Kovil St, Othaveedu, Adhambar P. O, Nannilam. 610105	Parent Member



*[Signature]*  
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Coimbatore - 32.



**DEPARTMENT OF AGRICULTURE ENGINEERING**

**MINUTES OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DATE:07.04.2019**

The 2<sup>nd</sup> DAC Meeting was held on 07.04.2019 at 10.00 AM in HoD Cabin, Department of Agri.Engg, HiCET. All the stakeholder were presented during the session. The minutes of the session presented below.

The Chairman presented the vision and mission of the institution as follows

**Vision of the Institute**

- **IV1:** To become a premier institution by producing professionals with strong technical knowledge, innovative research skills and high ethical values

**Mission of the Institute**

- **IM1:** To provide academic excellence in technical education through novel teaching methods
- **IM2:** To empower students with creative skills and leadership qualities
- **IM3:** To produce dedicated professionals with social responsibility

Chairman briefed the Vision and Mission, PEOs and PSOs of the Department of Agriculture Engineering as follows

**Vision of the Department**

To become a department of excellence in agricultural engineering by producing socially conscious professionals with good technical knowledge and innovative skill sets.

**Mission of the Department**

- To impart strong technical knowledge in agricultural engineering through conducive learning environment
- To empower students with innovative skill sets to address agricultural issues.
- To produce socially responsible agricultural professionals and provide sustainable solutions.

**Program Educational Objectives**

**PEO1:** Graduates shall exhibit their sound theoretical, practical skills and knowledge for being a successful professional.

**PEO2:** Graduates shall be creative with leadership qualities and lifelong learning skills.

**PEO3:** Graduates shall hold high ethical values and be able to devise sustainable solutions to address agricultural issue.

### Program Specific Outcomes

**PSO1-** Ability to understand agricultural scenario in World and India and superimpose agricultural engineering technologies for uplifting the agriculture.

**PSO2-** Ability to solve various issues in agriculture by infusing farm mechanization, conservation strategies for soil, water and renewable energy, advanced irrigation techniques and post harvest technology

- Chairman present the new course going to introduce in III and IV of 2016 Regulation which is listed below

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

- Chairman present the scheme and credit distribution in each semester of 2019 regulation for the academic year of 2019-2020 admitted students.

### CREDITWISE SPILT-UP

Category	SEM I	SEM II	SEM III	SEM IV	SEM V	SEM VI	SEM VII	SEM VIII	Total credit
Total	20	22	20	21	24	24	20	14	165

- Members suggested to add one core subject like Principles of Food Science in II semester for better understanding about basic food science by students.
- Chairman suggested to offer Math's paper up to four semesters (Engineering Mathematics-I in First sem, Engineering Mathematics-II in Second Sem Fourier analysis and Z transforms in Third Sem, Applied Statistics and Numerical methods in fourth sem ) for simplifying the agricultural problems through mathematical solution.
- Stakeholders suggested to frame the curriculum and syllabus based on equal weightage of skill, Employability and Entrepreneurship opportunity in 2019 Regulation.
- Ms.Swathi suggested to give more field exposure to students.



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- The members also recommended to make students to involve themselves in attending seminar, conference, workshop, paper and poster presentation and project competitions like various Hackathon and grant challenges.
- Members were Suggested that Theory with lab component course can be limited with 5 to 7 experiments.
- Members suggested to motivate the students to learn Various new era course was for improve students' skill.

The meeting ended by 12.00 P.M


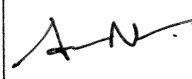

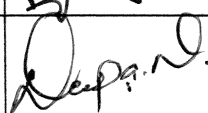


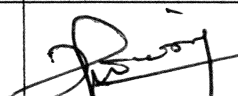


**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

## CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)

### DEPARTMENT: AGRICULTURE ENGINEERING

The following Members were attending DAC meeting held on 07.04.2019 at Department of Agriculture Engineering.

S.No	Name of the Person	Department	Position	Signature
1	Dr.N.Asoka Raja,	Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Chairman	
2	Dr.Archana Nancy	Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Member	
3	Ms.Mercy Backiyam	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Member	
4	Mr. Deepak N	Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	Member	
5	Mr.C.V.Madheswaran	Managing Director, KSNM Marketing, Coimbatore BME Industrial Expert; SF NO 29/1B Onapalayam Coimbatore- 641190.	Industry Expert	
6	Abitha	Student Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Student Member	
7	Ayyappan	Pillaiyar Kovil St, Othaveedu, Adhambar P. O, Nannilam. 610105	Parent Member	



  
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### **DEPARTMENT OF AGRICULTURE ENGINEERING**

### **DEPARTMENT ADVISORY COMMITTEE MEETING (DAC)**

**Dated: 20.03.2018**

### **HiCET/Dept.of Agri. Engg /DAC 1/Circular/2018-2019**

It is planned to conduct the Department Advisory Committee (DAC) meeting to discuss scheme, curriculum and syllabus of the 2016 Regulation for the students admitted from the academic year 2018-2019. In this regard, the 1<sup>st</sup> DAC meeting for 2018-19 is scheduled on 22<sup>nd</sup> March 2018 at 10.00 AM in the HOD cabin. The DAC members all are asked to attend and discuss the same during the meeting and put forth their suggestions to develop the curriculum and syllabus for the upcoming BOS. The agenda has been enclosed for further reference.

**Venue:** HOD Cabin

**Date of meeting:** 22.03.2018 at 10 .00 AM

### **Agenda**

- Discussion on Vision and Mission, PEOs and PSOs of the Department.
- The scheme of curriculum under regulation 2016 for the students admitted from the academic year 2018-2019.
- To add core course in II semester and offering Maths paper up to IV semester
- To emphasize the curriculum to be in line with the industry needs, skill development, employability and entrepreneurship opportunity.
- CO-PO attainment
- Any other issues.



  
HOD

**HEAD OF THE DEPARTMENT**  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.

**CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DEPARTMENT: AGRICULTURE ENGINEERING**

The Constitution of DAC Members for the academic year of 2018-2019 is listed below

S.No	Name of the Person	Department	Position
1	Dr. N. Asoka Raja	Professor / Head, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Chairman
2	Dr. Siva Kumar K	Associate Professor, Department of Science and Humanities, Hindusthan College of Engineering and Technology.	Member
3	Mrs. M. Sangeetha	Assistant Professor, Department of Science and Humanities, Hindusthan College of Engineering and Technology.	Member
4	Mr.C.V.Madheswaran	Managing Director, KSNM Marketing, Coimbatore BME Industrial Expert; SF NO 29/1B Onapalayam Coimbatore- 641190.	Industry Expert
5.	Abitha	Student (1 <sup>st</sup> Year) Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	Student Member
6	Ayyappan	Pillaiyar Kovil St, Othaveedu, Adhambar P. O, Nannilam. 610105	Parent Member



*[Signature]*  
HoD

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Department of Agriculture Engineering,  
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Coimbatore - 32.

**DEPARTMENT OF AGRICULTURE ENGINEERING**

**MINUTES OF DEPARTMENT ADVISORY COMMITTEE (DAC)**

**DATE: 22.03.2018**

The 1<sup>st</sup> DAC Meeting was held on 22.03.2018 at 10.00 AM in HoD Cabin, Department of Agri.Engg, HiCET. All the stakeholder were presented during the session. The minutes of the session presented below.

Chairman welcomed the DAC constituent members and presented the vision and mission of the institution as follows

**Vision of the Institute**

- **IV1:** To become a premier institution by producing professionals with strong technical knowledge, innovative research skills and high ethical values

**Mission of the Institute**

- **IM1:** To provide academic excellence in technical education through novel teaching methods
- **IM2:** To empower students with creative skills and leadership qualities
- **IM3:** To produce dedicated professionals with social responsibility

Based on the department suggestion, Inputs received from the stakeholders, following Vision and Mission, PEOs and PSOs of the Department of Agriculture Engineering were drafted as follows:

**Vision of the Department**

**DV1:** To become a department of excellence in agricultural engineering by producing socially conscious professionals with good technical knowledge.

**Mission of the Department**

**DM1:** To impart strong technical knowledge in agricultural engineering through conducive learning environment

**DM2:** To empower students with skill set to address agricultural issues

**DM3:** To produce socially responsible agricultural professionals.

**Program Educational Objectives**

The graduates will be able to:

**PEO1:** Graduates shall exhibit their sound theoretical, practical skills and knowledge for being a successful professional

**PEO2:** Graduates shall be creative with leadership qualities and lifelong learning skills

**PEO3:** Uphold professional and ethical responsibilities as engineers, consultants and entrepreneurs while addressing the demands of the society.

**Program Specific Outcomes**

**PSO1-** Ability to understand agricultural scenario in World and India and superimpose agricultural engineering technologies for uplifting the agriculture.

**PSO2-** Ability to solve various issues in agriculture by infusing farm mechanization, conservation strategies for soil, water and renewable energy, advanced irrigation techniques and post harvest technology

Based on the Department suggestion, Inputs received from the stakeholders and Students Performance in their HSC Examination the CO-PO attainment is framed as 50% as minimum for all subjects and passed to BoS for approval.

- Chairman presents the scheme and credit distribution in each semester of 2016 regulation for the academic year of 2018-2019 admitted students.

**CREDITWISE SPILT-UP**

Categ ory	SEM I	SEM II	SEM III	SEM IV	SEM V	SEM VI	SEM VII	SEM VIII	Total credit
Total	27	25	25	23	19	24	28	16	187

- Members suggested to add two core subject like Principles and Practices of Crop Production' and Crop Husbandry Laboratory (Theory and Practical) could add in II semester for better understanding about basic agricultural practices by students.
- Chairman suggested to offer Math's paper up to four semesters (Engineering Mathematics-I in First sem, Engineering Mathematics-II in Second Sem Fourier analysis and Z transforms in Third Sem, Applied Statistics and Numerical methods in fourth semester) for simplifying the agricultural problems through mathematical solution.
- Stakeholders suggested to frame the curriculum and syllabus based on equal weightage of skill, Employability and Entrepreneurship opportunity in 2016 Regulation.
- Ms.Swathi suggested to give more field exposure to students.
- The members also recommended to make students to involve themselves in attending seminar, conference, workshop, paper and poster presentation and project competitions like various Hackathon and grant challenges.
- Various new era course was suggested by members to improve students' skill.

The meeting ended by 12.00 P.M



*[Signature]*  
HEAD OF THE DEPARTMENT  
Department of Agriculture Engineering  
Hindusthan College of Engg. & Tech.  
Coimbatore - 32.





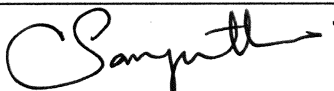
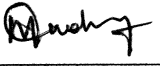


# Hindusthan College of Engineering and Technology

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

## CONSTITUTION OF DEPARTMENT ADVISORY COMMITTEE (DAC)

### DEPARTMENT: AGRICULTURE ENGINEERING

The following Members were attending DAC meeting held on 22.03.2018 at Department of Agriculture Engineering.

S.No	Name of the Person	Position	Signature
1	Dr.N.Asoka Raja,	Chairman	
2	Dr.SivaKumar K	Member	
3	Mrs.M. Sangeetha	Member	
4	Mr.C.V.Madheswaran	Industry Expert	
5.	Abitha	Student Member	
6	Ayyappan	Parent Member	



  
HoD

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Coimbatore - 32.