PROGRAM ASSESSMENT COMMITTEE

Through this department order the following members are nominated and approved for constitutions program Assessment Committee (PAC). Responsibilities of the committee are outlined below

1. Monitors attainment of COs, POs and PEOs
2. PAC evaluate programme effectiveness and process necessary changes
3. Preparation of periodic reports, records on program activities, progress and status reports.

Constitution of Program Assessment Committee.

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
15.	Mrs. Bharathi D	Parents Member

Chairman/Head of the Department

AGRI ENGG HICET

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

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Valley Campus, Pollachi Highway, Coimbatore 641 032. | www.hicet.ac.in

Meeting Circular

Ref:HICET/AGRI/PAC-CIRCULAR/2022-2023-02

Date: 08.05.2023

It is to inform you all that, the second Program Assessment Committee meeting is scheduled as below. All the PAC members are kindly asked to attend and also provide your valuable suggestions.

Date : 15-05-2023

Time : 1.00 pm

Venue :HoD's office

The Agenda for the following meeting are

1. Vision and Mission, Program Educational Objectives (PEOs), Program Specific Outcomes (PSOs).
2. Academic plans preparation by faculty members for their respective courses allotted by the Department
3. Filling the curriculum gap
4. CO-PO attainment for 2019-2023 Batch.
5. Assessment and action to be taken to improvise the CO-PO attainment for upcoming batches.
6. Discussion on Stakeholders feedback on POs

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Attendance for Program Assessment Committee meeting on 15-05-2023

S.No.	Name of the Member	Signature
1.	Dr. Sridhar N Associate Professor & Head, Department of Agricultural Engineering, HiCET.	
2.	Dr. Sekar S Associate Professor Department of Agricultural Engineering, HiCET.	
3.	Dr.Rajaravi C Associate Professor Department of Agricultural Engineering, HiCET.	
4.	Mrs.Ramya K Assistant Professor Department of Agricultural Engineering, HiCET.	
5.	Mr.Seerangurayar T Assistant Professor Department of Agricultural Engineering, HiCET.	
6.	Mr.DineshKumar S Assistant Professor Department of Agricultural Engineering, HiCET.	
7.	Mr.Dhayalan V Assistant Professor Department of Agricultural Engineering, HiCET.	
8.	Ms.Ramya N Assistant Professor Department of Agricultural Engineering, HiCET.	
9.	Mrs. Gowsalya S Assistant Professor Department of Agricultural Engineering, HiCET.	
10.	Mrs.Kalaiselvi M Assistant Professor Department of Agricultural Engineering, HiCET.	
11.	Er.Ranjitha S Manager-Farm Operations Greenzy- Krishirishi Agrofarms LLP. Coimbatore.	
12.	Siddhartha B D Department of Agricultural Engineering, HiCET.	

13.	Vidya A M Department of Agricultural Engineering, HiCET.	
14.	Mr. Manogaran P	
15.	Mrs. Bharathi D	

Chairman/Head of the Department

HEAD OF THE DEPARTMENT
Department of Agriculture Engineering
Hindusthan College of Engg. & Tech.
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Meeting of Minutes

1. The Chairman welcomed all the members.

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.

2. Program Educational Outcomes and Program Specific Outcomes are verified with curriculum and syllabus.
3. A clear awareness has to be given to the stakeholders on the outcome based education system. Awareness can be created to the students during seminar hours and during possible meetings for other stakeholders.
4. HOD presented and requested the board members to accept the Curriculum and of Regulation 2022 for the semesters III & IV subjects.
5. Regulation 2019 with amendments and Regulation 2022 has two Continuous Internal Assessments CIA; CIA I (100 marks for first 2.5 units), CIA II (100 marks for second 2.5 units).
6. The weightage will be 40 marks for CIA and 60 marks for ESE.
7. The CO-PO attainment for batch 2019-2023 was discussed as follows

CO Attainment – Process Attainment of COs of the Course (2019-2023)

Code	Course Code	Course Name	CIA					ESE				
			CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
C101	19HE1101	Technical English	80.13	84.1	87.54	93.87	89.46	80.12	83.72	85.27	91.47	92.3
C102	19MA1102	Calculus and linear algebra	81.52	71.20	65.21	50.00	100.00	92.86	92.86	92.86	92.86	92.86
C103	19ME1101	Basics of civil and mechanical Engineering	73.4	72.1	69.0	81.3	90.1	91.3	82.5	81.0	70.0	100

C104	19PH1151	Applied physics	81.02	79.91	78.73	80.35	92.81	84.30	71.32	80.62	86.05	87.60
C105	19CY1151	Chemistry for Engineers	75.71	78.34	92.60	74.08	60.42	71.3	73.46	78.4	76.54	77.78
C106	19CS1151	Python programming and practices	80.91	80.29	88.00	87.47	91.11	84.52	91.27	81.75	80.16	88.10
C107	19HE1001	Language competency	87.50	90.62	100.00	100.00	97.92	100.00	100.00	100.00	100.00	100.00
C108	19HE2101	Business English for Engineers	79.93	80.09	87.54	90.87	71.46	80.12	83.72	85.27	91.47	85.27
C109	19MA2101	Differential Equations and complex variable	76.60	65.23	60.49	50.00	100.00	77.78	77.78	77.78	77.78	77.78
C110	19AG2104	Principles of food science	100.00	99.38	100.00	100.00	100.00	79.63	94.44	87.04	92.59	87.04
C111	19PH2151	Material Science	88.83	86.31	66.67	89.94	91.25	97.62	95.24	82.00	97.00	97.00
C112	19CY2151	Environmental Studies	76.49	78.70	92.60	79.26	64.82	92.13	96.91	98.77	96.91	96.3
C113	19IT2151	Programming in C	87.50	90.62	100.00	100.00	97.92	100.00	100.00	100.00	100.00	100.00

C114	19ME2001	Engineering Practices	88.83	81.31	81.67	89.94	91.25	94.62	91.24	82.32	91.00	97.90
C115	19HE2001	Language Competency Enhancement Course - II	88.46	86.18	87.74	91.34	92.19	90.24	84.55	86.18	87.80	94.31
C201	19MA3102	Fourier Analysis and Transforms	66.9	59.3	67.54	50.00	100.00	100	100	100	100	100
C202	19AG3201	Soil Science and Engineering	100.00	96.91	100.00	100.00	100.00	92.45	96.23	88.68	94.34	96.23
C203	19AG3202	Fluid Mechanics and Hydraulics	80.7	82.0	90.7	86.8	91.5	69.4	74.1	67.6	66.7	67.6
C204	19AG3203	Principles and Practices of Crop Production	100	100	100	100	100	94.44	96.3	98.15	94.44	88.89
C205	19AG3251	Unit Operations in Agricultural Processing	99.74	98.39	97.1	98.2	91.8	50.46	59.26	58.64	62.96	48.77
C206	19AG3001	Field Crop Production Practical	100	100	100	100	100	100	100	100	100	100
C207	19AG3002	Soil Science Laboratory	98.15	100	85.185	99.075	100	100	100	100	100	100
C208	19AG4201	Farm Tractors	82.10	85.80	66.67	74.07	66.67	98.15	98.15	96.3	98.15	98.15
C209	19AG4202	Thermodynamics	92.59	91.98	90.74	95.37	50.00	98.15	98.15	94.44	92.59	98.15

C210	19AG4203	Irrigation and Drainage Engineering	**91.36**	**96.30**	**100.00**	**100.00**	**89.81**	**100**	**100**	**100**	**100**	**100**
C211	19MA4152	Statics and Numerical Methods	**69.19**	**71.31**	**80.02**	**48.61**	**97.22**	**97.2**	**97.2**	**97.2**	**97.2**	**97.2**
C212	19AG4251	Bio-Energy Resource Technology	**93.83**	**93.00**	**99.54**	**98.85**	**99.54**	**61.11**	**61.11**	**61.11**	**61.11**	**61.11**
C213	19AG4252	Surveying and Levelling	**100.00**	**100.00**	**100.00**	**94.44**	**95.37**	**75.0**	**75.0**	**75.0**	**75.0**	**75.0**
C214	19AG4001	Irrigation Field Laboratory	**95.37**	**95.37**	**95.37**	**95.37**	**95.37**	**100**	**100**	**100**	**100**	**100**
C301	19AG5201	Farm Machinery and Equipment	**80.14**	**84.11**	**84.26**	**77.78**	**100.00**	**81.07**	**76.39**	**74.07**	**94.44**	**98.15**
C302	19AG5202	Refrigeration and Cold Chain Management	**80.84**	**81.55**	**81.30**	**80.43**	**86.42**	**71.0**	**79.0**	**77.2**	**80.6**	**79.0**
C303	19AG5203	Theory of Machines	**79.51**	**78.81**	**80.87**	**80.10**	**84.26**	**79.84**	**73.15**	**74.07**	**98.15**	**98.15**
C304	19AG5305	Ergonomics and safety in Agricultural Engineering	**78.36**	**75.77**	**83.80**	**80.19**	**78.71**	**79.63**	**83.33**	**81.48**	**74.69**	**82.72**
C305	19AG5251	Ground Water and Well Engineering	**99.58**	**98.36**	**96.89**	**99.51**	**98.21**	**81.48**	**74.69**	**70.99**	**69.75**	**69.75**

C306	19AG5252	Soil and Water Conservation Engineering	91.65	89.53	96.30	97.87	95.60	91.65	89.53	96.30	97.87	95.60
C307	19AG5001	Operation and Maintenance of Farm Machinery Laboratory	91.67	83.34	88.89	90.74	87.97	100	100	100	100	100
C308	19AG5002	CAD for Agricultural Engineering	100	100	100	100	100	100	100	100	100	100
C309	19AG6201	Hydrology and Water Resources Engineering	54.4	47.56	65.5	80.9	76.5	69.8	69.44	63.0	64.2	71.6
C310	19AG6202	Solar and Wind Energy Engineering	63.5	60.8	77.3	77.6	73.8	61.7	54.6	48.8	54.9	48.2
C311	19AG6181	Professional Ethics	71.49	63.12	81.35	88.52	85.97	81.6	76.1	71.07	71.7	72.33
C312	19AG6302	Heat and mass transfer For Agricultural Engineering	72.8	73.59	87.7	78.7	85.4	65.09	62.89	71.7	67.92	66.04
C313	19AG6251	Food and Dairy Engineering	93.03	90.69	97.27	100.76	97.89	75.94	50.94	64.15	67.92	71.7
C314	19AG6252	ICT in Agricultural Engineering	100	100	100	100	100	100	100	100	100	100
C401	19AG6701	Industrial Training	100	100	100	100	100	100	100	100	100	100

C402	19AG7201	Agricultural Extension	68.5	68.8	75.7	78.1	82.1	70.83	63.58	59.26	56.17	69.14
C403	19AG7202	Remote Sensing and Geographical Information System	56.3	51.7	64.5	75.3	69.8	71.3	72.2	76.5	76.5	75.9
C404	19AG7304	Process Engineering of fruits and vegetables	67.18	62.39	73.27	77.36	73.40	79.63	75.31	71.6	75.93	76.54
C405	19AG7251	Precision Farming and Protected Cultivation	89.0	87.4	90.9	93.2	90.5	59.3	59.3	59.3	59.3	59.3
C406	19AG7001	Renewable Energy Laboratory	100	100	100	100	100	100	100	100	100	100
C407	19AG7002	GIS Laboratory For Agricultural Engineering	49.4	49.4	49.4	49.4	49.4	100	100	100	100	100
C408	19AG7901	Innovative Project	98.15	98.15	100	100	100	98.2	98.2	98.2	98.2	98.2
C409	19AG8309	Micro irrigation system	49.36	49.04	63.03	50.00	100.00	100	100	100	100	100
C410	19AG8301	Agriculture business management and Entrepreneurship	48.0	49.9	63.6	75.0	73.3	66.7	66.7	66.7	66.7	66.7
C411	19AG8901	Project Work	100	100	98.2	98.2	100	100	100	100	100	100

Overall attainment of POs and PSOs for 2019-2023 batch

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Direct attainment (100%)	2.30	2.11	1.99	1.82	1.73	1.68	1.77	1.53	1.86	2.13	1.99	1.84	2.03	2.06
Direct attainment (80%)	1.84	1.69	1.59	1.45	1.38	1.35	1.42	1.22	1.49	1.71	1.59	1.47	1.62	1.36
Indirect attainment (100%)	2.54	2.53	2.45	2.44	2.45	2.44	2.38	2.46	2.5	2.51	2.54	2.52	2.57	2.64
Indirect attainment (20%)	0.508	0.506	0.49	0.488	0.49	0.488	0.476	0.492	0.5	0.502	0.508	0.504	0.514	0.528
Overall attainment	**2.35**	**2.19**	**2.08**	**1.94**	**1.87**	**1.83**	**1.90**	**1.72**	**1.99**	**2.21**	**2.10**	**1.97**	**2.14**	**1.89**

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8. In Calculus and linear algebra, Differential Equations and complex variable, Fourier analysis and Transforms and Micro irrigation system CO4 need improvement, In Thermodynamics CO5 need special improvement and after giving special coaching for students end semester results have been improved.
9. In Hydrology and Water Resources Engineering C02 has only 47.56% and after giving special coaching for students end semester results have been improved.
10. In Micro irrigation system CO1 and CO2 has not reached the maximum attainment level and hence needs improvement.
11. All courses have more than 85% attainment scale.
12. Since overall CO-PO attainment level were attained no gap found but need of continuous improvement in CO1, CO2, CO4 and CO5 in all subjects
13. Based on the continuous assessment of CO-PO attainment for the batches 2018-2022 and 2019-2023 the CO-PO attainment is defined as 65% for 2023 Batch students.
14. Range of CO attainment levels was set as 1 for attainment greater than or equal 65% and less than 70%, 2 for greater than or equal to 70% and less than 80%, and 3 for greater than or equal to 85%.
15. The question papers shall be set according to blooms taxonomy.
16. All the laboratory courses shall be evaluated using proper rubrics.
17. Rubrics for all the laboratory courses was presented and approved.
18. Assignments and should be mapped with the Course outcome.
19. Contents beyond Syllabus should be mapped with the Course outcome and Program outcome.

20. The members expressed that the curriculum and syllabus were to be prepared and present the same to the Department Advisory Committee and Board of Studies meeting.
21. The meeting ended with Vote of thanks by Mr.Dhayalan V, Assistant Professor, Agri.Engg., HICET.

Chairman/Head of the Department

HEAD OF THE DEPARTMENT
Department of Agricultural Engineering
Hindusthan College of Engg. & Tech.
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Action Taken Report

Date: 18.05.2023

The second Program Assessment Committee meeting was conducted on 15-05-202. The Action taken report for the same as follows

- Training on Design of Agricultural System (Solar, Food instruments and Hydroponics) and Geospatial Technology for Climate-Smart Agriculture domain subjects is introduced to improve the Engineering knowledge
- Bridge courses are conducted to strengthen the knowledge of students in fundamentals of mathematics and science.
- Remedial classes by means of "I shall" have been conducted after identifying weak students.
- Conduct periodical workshops/Webinars on core Engineering areas.
- Introduce project based learning as a part of curriculum
- Guide Students to perform proper literature survey for analyzing and solving complex engineering problems.
- Introduced Innovative Projects to design and develop products towards societal benefits
- Workshops on Design of Experiments will be conducted
- Conduct Workshops and Value Added Program on modern tools and its applications like GIS, ERDAS etc.
- Arrange Industrial Visits for identified courses
- Encourage the students to involve them in societal activities.
- Introduced Human Value courses/Programmes.

- Institute has initiated many events which provide a platform to work in individual as well as a group in the fields of Agricultural Engineering. It helps the students to groom the skills like leadership or as an effective team member. There are a number of societies and clubs where the students learn to work both as individuals and in a team work environment.

- Soft skills training is imparted to students to enhance various aspects of communication/technical talks by group discussions, presentations and new learning outcomes.

- Students are made to recognize the importance of lifelong learning through motivational talks and programmes. Using Information and Communication Technology (ICT) facilities such as Power Point Presentation (PPTs), live demonstration of topics imparted using video lecture, real time webcast, lecture contents including new technological developmental tools and knowledge of new products which gives lifelong knowledge to be further improved upon.

- Students were offered with value added courses to enhance their knowledge in Agricultural engineering technologies.

- Students will be encouraged to take up projects and convert them in to products by taking societal problems relevant to Agricultural Engineering

Head of the Department

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PROGRAM ASSESSMENT COMMITTEE

Through this Department order the following members are nominated and approved for constitutions program Assessment Committee (PAC). Responsibilities of the committee are outlined below

1. Monitors attainment of COs, POs and PEOs
2. PAC evaluate programme effectiveness and process necessary changes
3. Preparation of periodic reports, records on program activities, progress and status reports.

Constitution of Program Assessment Committee.

S.No.	Name of the Member	Position
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,	Member

	Hindusthan College of Engineering and Technology.	
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
14	Dr.Lakshmanan Chandran , Director (Sales and Marketing), Greenzy Agro Pvt.Ltd, Coimbatore.\	Industry Expert
15	Ranjitha S 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

Chairman/Head of the Department

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Meeting Circular

Ref:HICET/AGRI/PAC-CIRCULAR/2022-2023-01

Date: 01.08.2022

It is to inform you all that, the First Program Assessment Committee meeting is scheduled as below. All the PAC members are kindly asked to attend and also provide your valuable suggestions.

Date : 08-08-2022

Time : 1.00 pm

Venue :HoD's office

The Agenda for the following meeting are

1. Vision and Mission, Program Educational Objectives (PEOs), Program Specific Outcomes (PSOs).
2. Academic plans preparation by faculty members for their respective courses allotted by the Department
3. Filling the curriculum gap
4. CO-PO attainment for 2018-2022 Batch.
5. Assessment and action to be taken to improvise the CO-PO attainment for upcoming batches.
6. Discussion on Stakeholders feedback on POs

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Attendance for Program Assessment Committee meeting on 08-08-2022

S.No.	Name of the Member	Signature
1.	Dr Sridhar M Associate Professor & Head, Department of Agriculture Engineering, HiCET.	
2.	Dr. Balamohan TN Professor, Department of Agriculture Engineering, HiCET.	
3.	Dr. Sekar S Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	
4.	Dr. Rajaravi C Associate Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology	
5.	Mr. Dinesh Kumar S Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	
6.	Mr. Dhayalan V Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	
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8.	Mrs. Ramya K Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	
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12.	Mrs. Chinju Saju Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	

13.	Jany Giles A Assistant Professor, Department of Agriculture Engineering, Hindusthan College of Engineering and Technology.	
14	Dr.Lakshmanan Chandran , Director (Sales and Marketing), Greenzy Agro Pvt.Ltd, Coimbatore.\	
15	Ranjitha S Department of Agricultural Engineering, HiCET.	
16	Vidhya S Department of Agricultural Engineering, HiCET.	
17	Mrs.K.GuruLakshimi	
18	Mrs.Leema jaya Rose	

Chairman/Head of the Department

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

Meeting of Minutes

1. The Chairman welcomed all the members.

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.

2. Program Educational Outcomes and Program Specific Outcomes are verified with curriculum and syllabus.
3. A clear awareness has to be given to the stakeholders on the outcome based education system. Awareness can be created to the students during seminar hours and during possible meetings for other stakeholders.
4. HOD presented and requested the board members to accept the Curriculum and of Regulation 2019 with amendments for the semesters III & V subjects.
5. Regulation 2019 with amendments and Regulation 2022 has two Continuous Internal Assessments CIA; CIA I (100 marks for first 2.5 units), CIA II (100 marks for second 2.5 units).
6. The weightage will be 40 marks for CIA and 60 marks for ESE.
7. The CO-PO attainment for batch 2018-2022 was discussed as follows

S.NO	CODE	COURSE CODE	COURSE NAME	CIA					ESE				
1	C101	16HE1101	Essential English for Engineers	80.1	78	80.1	88	78	91	83	84	83	90
2	C102	16MA1101	Engineering Mathematics-I	83.0	75.0	78.3	85.2	100	92.1	95.3	93.4	92.1	88.2
3	C103	16PH1101	Engineering Physics	78.2	81.6	77.3	74.5	91.5	83.2	72.1	77.2	89.1	82.6
4	C104	16CY1101	Engineering Chemistry	75.4	78.1	92.3	71.5	66.2	74.5	72.4	81.6	73.1	71.2
5	C105	16GE1102	Engineering Graphics	81.2	77.5	81.3	73.2	81.2	83.2	92.3	81.2	84.2	88.1
6	C106	16GE1103	Problem Solving and Python Programming	84	92.1	77.5	88.3	85.0	83.0	88.0	72.0	76.0	74.0
7	C107	16PH1001	Physical Sciences Lab-I	80.40	95.00	94.00	93.00	97	99.0	100.0	99.0	95.0	94.0
8	C108	16GE1004	Problem Solving and Python Programming Laboratory	95.00	98.00	93.00	88.00	97	82.0	84.0	86.0	89.0	97.0
9	C109	16GE1002	Engineering Practices Laboratory	88.00	83.00	94.00	88.00	76	82.0	94.0	91.0	82.0	83.0
10	C110	16HE2102	Essential English for Engineers – II	88.00	86.00	87.00	91.00	92	90.0	84.0	86.0	87.0	94.0
11	C111	16MA2102	Engineering Mathematics-2	70.00	66.00	67.00	80.00	100	100	100	100	100	100
12	C112	16CY2102	Environmental Science	90.0	85.0	84.0	86.0	75.0	90.0	95.0	72.0	96.0	92.0
13	C113	16EE2201	Basics of Electrical and Electronics Engineering	75.0	74.0	68.0	75.0	88.0	84.0	81.0	73.0	76.0	77.0
14	C114	16GE2101	Engineering Mechanics	88.1	83.2	86.4	85.4	91.2	99.5	94.5	96.3	84.2	91.3
15	C115	16AG2201	Principles and Practices of Crop Production	94	93.2	95.1	85.1	88.2	84.3	86.4	85.1	93.2	94.1
16	C116	16PS2001	Physical Sciences Laboratory II	88.2	87.5	88.6	74.5	72.3	78.5	82.1	83.2	86.4	81.2
17	C117	16AG2001	Crop Husbandry Laboratory	95.2	100	99.4	98.5	99.5	98.7	100	100	100	100
18	C118	16GE2001	Value Added Course II Language Competency Enhancement Course-II	78.4	76.5	77.4	76.5	78.9	74.5	73.1	78.9	75.2	75.6
19	C201	16MA3111	Fourier analysis and Z transforms	68.5	77.8	76.3	85.4	76.2	74.1	73.2	74.5	71.5	76.2
20	C202	16AG3201	Soil Science and Engineering	82.4	75.4	84.7	77.6	86.5	76.4	80.6	86.1	88.9	86.1
21	C203	16AG3202	Fluid Mechanics	86.2	80.6	79.8	79.5	89.4	66.4	70.5	62.9	66.7	61.9
22	C204	16ME3232	Theory of Machines	92.5	93.8	95.3	90	93.7	78.6	74.3	73.3	72.4	79.1
23	C205	16CE3207	Surveying and leveling	87.5	89.5	84.9	88.6	94.6	70	63.8	70.5	70.5	74.3
24	C206	16ME3233	Thermodynamics	97.4	95.7	97.9	97.9	99.4	70	65.7	70.5	72.4	67.6
25	C207	16AG3001	Fluid Mechanics Laboratory	100	100	100	100	100	100	100	100	100	100
26	C208	16CE3003	Surveying and Leveling Laboratory	100	100	100	100	100	100	100	100	100	100
27	C209	16MA4112	Applied Statistics and Numerical methods	70	75	71.3	80.2	55.7	90.2	96.5	97.2	88.5	66
28	C210	16AG4201	Unit Operations in Agricultural Processing	94.7	96	98.4	94.8	98.6	94.3	95.2	90.5	93.3	92.4
29	C211	16AG4202	Farm Tractors	95.7	94.9	96.7	96.6	99.3	93.9	85.1	100	100	100
30	C212	16AG4203	Hydrology and Water Resources Engineering	87.3	83.6	96.2	96	98.2	98.6	96.6	97.1	100	91.4

31	C213	16AG4204	Irrigation and Drainage Engineering	85.7	82.6	82	80.2	85.1	74.3	81.9	70.5	76.2	68.6
32	C214	16ME4231	Strength of Materials	91.3	88.6	91.2	91	94.9	82.9	82.9	81	83.8	86.4
33	C215	16AG4001	Soil Science Laboratory	95.6	97.1	95.6	95.6	95.6	100	100	100	100	100
34	C216	16AG4002	Irrigation Field Laboratory	100	100	100	100	100	100	100	100	100	100
35	C301	16AG5201	Refrigeration and Cold chain management	92.5	97.9	92.5	94.4	95.8	100	100	100	100	100
36	C302	16AG5202	Farm Machinery and equipment	70.8	68.4	75.4	75.3	80.8	100	100	100	100	100
37	C303	16AG5203	Design of Farm Implements and Machinery	93.4	96.6	95.4	92.4	87.1	100	100	100	100	100
38	C304	16AG5204	Post-Harvest Technology	73.5	66.8	73.3	73.2	78.6	100	100	100	100	100
39	C305	16AG5305	Evapotranspiration and Smart Irrigation	71.0	78.9	65.4	71.4	77.7	100	100	100	100	100
40	C306	16AG5001	Operation and Maintenance of Farm Machinery Laboratory	98.5	98.5	98.5	98.5	98.5	97.1	97.1	97.1	97.1	97.1
41	C307	16AG5002	Post-Harvest Engineering Laboratory	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42	C308	16AG6201	Soil and Water Conservation Engineering	73.5	76.3	86	73.2	79.5	100	100	100	100	100
43	C309	16AG6202	Food and Dairy Engineering	72.0	66.1	72.4	72.3	78.1	100	100	100	100	100
44	C310	16AG6203	Precision Farming and Protected Cultivation	88.5	85.3	89.3	87.6	84.3	100	100	100	100	100
45	C311	16AG6204	Bio-Energy Resource Technology	72.9	66.8	72.7	73.2	79.5	100	100	100	100	100
46	C312	16AG6302	Heat and Mass Transfers for Agricultural Engineers	73.5	66.8	73.3	73.2	79.5	100	100	100	100	100
47	C313	16AG6001	CAD for Agricultural Engineering	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48	C314	16AG6002	Drawing of Farm Structures	94.1	92.7	94.1	94.1	94.1	100	100	100	100	100
49	C315	16AG6003	Food and Dairy Engineering Laboratory	95.6	94.1	94.1	95.6	94.1	100	100	100	100	100
50	C401	16AG7201	Groundwater and Well Engineering	62.5	63.2	73.4	81.6	96.9	98.6	98.1	98.1	99.1	98.1
51	C402	16AG7202	Remote Sensing and Geographical Information System	87.3	83.6	96.2	96	98.2	98.6	96.6	97.1	100	91.4
52	C403	16AG7203	Solar and Wind Energy Engineering	86.3	83.5	82.6	78.6	87.7	82.1	80	80	79.1	81
53	C404	16AG7204	Agricultural Extension	93.6	90.1	88.1	86.6	86.1	70	65.7	70.5	72.4	67.6
54	C405	16AG7302	Ergonomics and Safety in Agricultural Engineering	77	78.5	81.7	92.9	100	89.3	83.8	83.8	86.7	87.6
55	C406	16AG7308	Process Engineering of Fruits and Vegetables	91.6	91.1	92.9	95.2	96.1	93.3	97.1	100	99.1	99.1
56	C407	16AG7001	GIS Laboratory for Agricultural Engineers	100	100	100	100	100	100	100	100	100	100
57	C408	16AG7002	Renewable Energy Laboratory	100	100	100	100	100	100	100	100	100	100
58	C409	16AG7003	ICT in Agricultural Engineering	92.6	92.6	92.6	92.6	90.2	100	100	100	100	100
59	C410	16AG7701	Industrial Training / Technical Seminar	100	100	100	100	100	100	100	100	100	100
60	C411	16AG8301	Agricultural Business Management and Entrepreneurship	91	85.4	91.9	81.4	84.4	86.9	91.8	72.7	100	77.3
61	C412	16AG8307	Micro Irrigation System	70	75.7	86	74.9	66.3	87.5	97.3	95.5	95.5	95.5
62	C413	16AG8901	Project Work	100	100	97.2	98.2	100	100	100	100	100	100

OVERALL ATTAINMENT OF POs and PSOs 2018-2022

ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Direct attainment 100 %	2.28	2.09391	2.09016	2.01402	1.74673	1.87	1.88	1.64	1.86	1.82	1.86588	1.92	1.99238	2.1718
Direct attainment 80 %	1.82	1.68	1.67	1.61	1.40	1.50	1.50	1.31	1.49	1.46	1.49	1.54	1.59	1.74
Indirect attainment 100%	2.05	1.88	1.88	1.81	1.57	1.68	1.69	0.50	1.67	1.64	1.68	1.73	1.79	1.95
Indirect attainment 20%	0.41	0.38	0.38	0.36	0.31	0.34	0.34	0.10	0.33	0.33	0.34	0.35	0.36	0.39
Overall attainment	**2.23**	**2.05**	**2.05**	**1.97**	**1.71**	**1.83**	**1.84**	**1.41**	**1.82**	**1.78**	**1.83**	**1.88**	**1.95**	**2.13**

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8. In Engineering Mathematics-2 CO2, CO3 need improvement, In Post-Harvest Technology CO2 need special improvement and after giving special coaching for students end semester results have been improved.
9. In Evapotranspiration and Smart Irrigation C03 need improvement and after giving special coaching for students end semester results have been improved.
10. All courses have more than 85% attainment scale.
11. In overall CO-PO attainment level all Pos were attained except PO5 **(Modern tool usage)**, PO8 **(Ethics)** and PO10 **(Communication)** thus the gap were identified in PO5, PO8 and PO10. Also need of continuous improvement in CO2, CO3, CO4 and CO5 in all subjects
12. Based on the continuous assessment of CO-PO attainment for the batches 2018-2022 the CO-PO attainment if defined as 60% for 2022 Batch students.
13. Range of CO attainment levels was set as 1 for attainment greater than or equal 65% and less than 70%, 2 for greater than or equal to 70% and less than 80%, and 3 for greater than or equal to 85%.
14. The question papers shall be set according to blooms taxonomy.
15. All the laboratory courses shall be evaluated using proper rubrics.
16. Rubrics for all the laboratory courses was presented and approved.
17. Assignments and should be mapped with the Course outcome.
18. Contents beyond Syllabus should be mapped with the Course outcome and Program outcome.
19. The members expressed that the curriculum and syllabus were to be prepared and present the same to the Department Advisory Committee and Board of Studies meeting.

20. The meeting ended with Vote of thanks by Mr.Dhayalan V, Assistant Professor, Agri.Engg., HICET.

Chairman/Head of the Department

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Action Taken Report

Date: 10-08-2022

The First Program Assessment Committee meeting was conducted on 08-08-2022. The Action taken report for the same as follows

- Encourage field visits
- Arrange Industrial visits/Internships for the students to gain the knowledge on complex engineering problems.
- Engage tutorial to improve the problem solving skills of the student.
- Conduct periodical workshops/Webinars on core Engineering areas.
- Encourage the students to take part in industrial collaborative projects.
- Introduced Innovative Projects to design and develop products towards societal benefits
- Encourage the students to participate in national/state level /international level events
- Encourage students to use the modern tool / research facilities available in Industry Supported Lab, IDEA Lab.
- Planning to organize more number of environmental activities like Green Energy, Biogas Production, organic farming and Sustainable development programme
- Arrange Career guidance program, corporate lectures and motivational talks will be arranged to gain knowledge of professional ethics and responsibilities.
- Introduced Human Value courses/Programmes.
- Soft skills training is imparted to students to enhance various aspects of communication/technical talks by group discussions, presentations and new learning outcomes.
- Students are made to recognize the importance of lifelong learning through motivational talks and programmes. Using Information and Communication Technology (ICT) facilities such as

Power Point Presentation (PPTs), live demonstration of topics imparted using video lecture, real time webcast, lecture contents including new technological developmental tools and knowledge of new products which gives lifelong knowledge to be further improved upon.

- Students were offered with value added courses to enhance their knowledge in Agricultural engineering technologies.

- Students will be encouraged to take up projects and convert them in to products by taking societal problems relevant to Agricultural Engineering

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