

**DEPARTMENT OF AGRICULTURE ENGINEERING
COLLEGE OF AGRICULTURE, NAVSARI AGRICULTURAL
UNIVERSITY
BHARUCH CAMPUS, BHARUCH**

1. INTRODUCTION:

Department of Agricultural Engineering is one of the components of College of Agriculture. The Department is engaged in teaching, research and extension activities at U.G. level and Polytechnic levels.

2. OBJECTIVES:

- i. To upgrade the knowledge, skill and different principles in education and research in Agricultural Engineering field.
- ii. To impart the education at Polytechnic in Agriculture, U.G. level.
- iii. To develop the agricultural engineering technologies for farmers and scientific communities.
- iv. To transfer the developed technologies to farmers through literature distribution, popular articles in news paper, khedut shibir and krishi mahotsav.

3. MAJOR ACTIVITIES:

1. Teaching:

(a) Polytechnic in Agriculture:

Total 3 courses with 7 (4+3) credit are being taught from first to six semesters of Polytechnic in Agriculture

(b) Under graduate [B.Sc. (Hons.) in Agriculture]:

Total 4 courses with 8 (4+4) credit are being taught from first to eight semesters B.Sc. (Hons.) in Agriculture.

2. Research:

This department is also associated with research activities wherein several field and laboratory experiments are being conducted year round under various research experiments working under this department.

3. Extension:

- Department staff is also actively participating in Krushi Mahotsav, Krushi Mela, Khedut Din, Khedut Shibir, Seminar, Radio and television programme time to time.
- Department is also imparting training to the students of various rural academic institutes.
- This department is also guiding farmers through publishing press notes in daily news paper.

4. MAJOR ACHIVEMENTS

1. Teaching:

(a) Polytechnic in Agriculture:

To teach following subjects to the students of Polytechnic in Agriculture from first to sixth semester.

Courses offered during odd semester:

Sr. No.	Semester	Course Number	Title of course	Credits
1	3 rd	Ag.Engg. 3.1	Introductory Agricultural Engineering	2(1+1)
2	5 th	Ag.Engg. 5.3	Farm Machinery and Power	3(2+1)

Courses offered during even semester:

Sr. No.	Semester	Course Number	Title of course	Credits
1	4 th	Ag.Engg. 4.2	Introductory Soil and Water Conservation Engineering	2(1+1)

(b) Under graduate [B.Sc. (Hons.) in Agriculture]:

Total 4 courses are being taught from first to eight semesters B.Sc. (Hons.) in Agriculture.

Courses offered during odd semester:

Sr. No.	Semester	Course Number	Title of course	Credits
1	3 rd	Ag.Engg. 3.1	Farm Machinery and Power	2(1+1)
2	5 th	Ag.Engg. 5.3	Protected Cultivation and Secondary Agriculture	2(1+1)
3	7 th		Ready Programme	

Courses offered during even semester:

Sr. No.	Semester	Course Number	Title of course	Credits
1	2 nd	Ag.Engg. 2.1	Introductory Soil and Water Conservation Engineering	2(1+1)
2	4 th	Ag.Engg. 4.3	Renewable Energy and Green Technology	2(1+1)

5. FACILITIES:

Department having required teaching equipments, cut model etc.

6. RESEARCH ACTIVITY:

(1) No of ongoing experiments: 1

7. RESEARCH RECOMMENDATION: N.A.

8. PUBLICATION

1. Research paper published in International Journal

- Antala, D. K., Satasiya, R. M., **Akabari, P. D.**, Bhuva, J. V., Gupta, R. A. and Chauhan, P. M. (2014). Effect of Modified Atmosphere Packaging on Shelf Life of Sapota Fruit. International Journal of Agricultural Science and Technology (IJAST),Vol.2(1): 32-38.
- Sangani, V. P., Patel, N. C., Davara, P. R., Antala, D. K. and **Akabari, P. D.** (2014). Optimization of Enzymatic Hydrolysis Parameters of Pigeon Pea for Better Recovery of Dhal. International Journal of Agricultural Science and Technology (IJAST),Vol.2(4): 97-105.

2. Research paper published in National Journal

- Satasiya, R. M., Antala, D. K., Gupta, R. A., **Akabari, P. D.** and Chauhan, P. M. (2014). Development of a Poly-cum-shade Net House for Capsicum Cultivation for Saurashtra Region of Gujarat State. Agricultural Engineering Today,Vol.38(3): 28-33.
- Pandya P. A., **Akabari P. D.** and Dwivedi D. K.(2016) Study the Constrains in Operation of Drip Irrigation. AGRES – An International e-Journal , (2016) Vol. 5, Issue 1: 75-82.

9. TRANSFER OF TECHNOLOGIES:

1. Department staff is also actively participating in Krushimahotsav, Krushi mela, Khedut Din, Khedut Shibir, Seminar time to time.
2. This department is also guiding farmers through publishing press notes in daily news paper and weekly/monthly periodicals.