

**DEPARTMENT OF GENETICS AND PLANT BREEDING
COLLEGE OF AGRICULTURE,
NAVSARI AGRICULTURAL UNIVERSITY,
BHARUCH CAMPUS, BHARUCH**

Name of Professor & Head	:	Dr. B. D. Jadhav
Qualification	:	Ph. D.
Specialization	:	Genetics & Plant Breeding
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INTRODUCTION:

Department of Genetics and Plant Breeding was established with the establishment of College of Agriculture, N.A.U., Bharuch in 2012 with an objective to cater the educational, research and extension activities in the subject of Genetics and Plant Breeding. Since its inception, department has significantly contributed in the university achievements in all the three spheres viz., Education, Research and Extension.

Department has privilege of having fleet of most experienced and dedicated faculty members with diversified areas of specialization. Majority of faculty possessing Ph.D and many of them acquired training and have regular participation in seminars, symposia and workshop. The discipline has major share with the evaluation and development of new crop varieties in Pigeonpea, cotton and pulse crops. The credit load at Polytechnic in Agriculture is up to 6th semester and U. G. level up to 8th semester.

OBJECTIVES:

1. To impart the education in Polytechnic in Agriculture and U.G. level [B.Sc. (Hons.) Agri.].
2. To upgrade the knowledge, regarding different improved and hybrid varieties and practices of seed production.
3. To transfer the recommended technologies to farmers through literature distribution, popular articles in news paper and training etc.
4. To provide guidance to Post Graduate students in the subject of Genetics and Plant Breeding in N.A.U., Navsari.

MAJOR ACTIVITIES & ACHIEVEMENTS:

1. Teaching:

(a) Under graduate:

Total 15 courses with 61 (25+36) credit load are being taught from first to eight semesters B.Sc. (Hons) in Agriculture.

Sr.No.	Semester	Course No.	Course Title	Credit Hours
1.	First	PBG 1.1	Economic Botany	1+1
2.	Second	PBG 2.2	Principles of Genetics	2+1
3.	Third	PBG 3.3	Principles of Plant Breeding	2+1
4.	Third	Pl. Phy. 3.1	Crop Physiology-I	2+1
5.	Fourth	PBG 4.4	Breeding Field/Horticultural Crops	2+1
6.	Fourth	Pl.Phy. 4.2	Crop Physiology-II	1+1
7.	Fifth	PBG 5.5	Principles of Seed Science & Technology	2+1
8.	Sixth	PBG 6.6	Principles of Plant Biotechnology	2+1
9.	Sixth	Envs. 6.1	Environmental Science	1+1
10.	Seventh	PBG 7.7	(RAWEP)	0+20
11.	Eight	PBG 8.8	Molecular Breeding	2+1
12.	Eight	PBG 8.9	Plant Tissue Culture	3+1
13.	Eight	PBG 8.10	Recombinant DNA Technology	2+1
14.	Eight	PBG 8.11	Bio-informatics	2+1
15.	Eight	Ag.Micro.8.2	Microbial & Environmental Technology	1+3

(b) Polytechnic teaching:

Total 5 courses with 14 (6+8) credit load are being taught from first to sixth semesters of Polytechnic in Agriculture.

Sr.No.	Semester	Course No.	Course Title	Credit Hours
1.	First	PBG 1.1	Economic Botany	1+1
2.	Second	-	-	-
3.	Third	PBG 3.2	Principles of Genetics	2+1
4.	Fourth	Pl.Phy 4.1	Crop Physiology	1+1
5.	Fifth	PBG 5.3	Introductory Plant Breeding	2+1
6.	Sixth	PBG 6.4	Seed Production Technology	0+4

(c) Guiding Post Graduate Research:

Faculty Name	Number of Student	
	M.Sc. (Agri)	Ph.D. (Agri)
Dr. B. D. Jadhav, Professor & Head	04	03
Dr. S. R. Patel, Associate Professor	02	02
Prof. N. N. Patel, Assistant Professor	-	-
Dr. S. S. Patil, Assistant Professor	-	-
Dr. Dinisha Abhishek, Assistant Professor	-	-

(d) Other academic activities:

All academic activities of College of Agriculture and Department are carried out as academic in-charge (Dr. S. R. Patel)

2. Research:

- ✚ Proposed Research Project:- **DEVELOPMENT OF HIGH YIELDING GENOTYPES OF PIGEONPEA FOR WINTER SEASON.**
- ✚ Two Assistant Professors (Dr. Sunil S. Patil and Prof. N. N. Patel) are actively engaged in NARP project for handling Breeding experiment.
- ✚ This department is also associated with research activities wherein several field experiments on various mandate crops (Pigeonpea, Cotton, Pulses, Ber, Mango and Sapota etc.) are being conducted year round under this department.

3. Extension:

- ✚ Department staff is also actively participating in Krushi mela, Khedut Din, Khedut Shibir, Seminar, Radio and television programme and programs organised by FTC for transfer of technology to the farmers 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 local news paper and popular articles in local language magazines on various technological aspects of major crops of this zone.

4. Other:

a) Practical Manual Published:

Principles of Seed Technology for 5th semester B.Sc. (Hons.) Agri.

Principles of Biotechnology for 6th semester B.Sc. (Hons.) Agri.

b) Research Paper Published:16

c) Popular Article:-06

d) Abstract:- 05

e) Workshop/Seminar Attained:-05

f) Extra coaching class were organized for the students for preparation of competitive examinations.

FACILITIES:

Temporary small laboratory is created and functioning