

Chapter - III



EDUCATION



3.1 General

The concept of education is based on two-tier system. The first one consists of the higher education covering Agriculture, Horticulture, Agricultural Engineering & Technology, Fisheries Science, Veterinary Science & Animal Husbandry and Agri-Business Management which includes graduate and post graduate resident instruction programmes as well as polytechnic diploma programmes. The second consists of lower education programme provided at the Agricultural School, School of Baking, Agro-based ITI, Land scaping and Gardening (*Mali*) Training Centre and Extension Education Training Centres. The higher education programmes are looked after by the Deans and Registrar, while lower education programmes by the Director of Extension Education at the university level. The details for the fifteenth annual report are presented herewith.

3.2 Under Graduate Education

(1) Procedure of Admission

The admission criteria in the Under Graduate programmes in Junagadh Agricultural University are purely on merit basis considering weightage of 60% marks obtained in science subjects like Physics, Chemistry and Biology/ Mathematics at HSCE and 40 % marks obtained in Gujarat Common Entrance Test (GUJCET) / Joint Entrance Examination conducted by GSEB for all courses except in the faculty of Veterinary Science & Animal Husbandry. In this faculty, the admission is given on the basis of marks obtained in Gujarat Common Entrance Test. English is a compulsory subject for all the under graduate programmes. The students passed science subjects with vocational stream may also be admitted. For admission to B.Sc. (Hons.) Agri., B.Sc. (Hons.) Horti., B.F.Sc. and B.V.Sc. & A.H.; Physics, Chemistry and Biology, while for B.Tech. (Agril. Engg.), Physics, Chemistry and Mathematics subjects are compulsory. Among the seats allotted for admission, 49% seats are reserved for various

Backward Classes, *i.e.* 15% for Schedule Tribes, 7% for Schedule Caste and 27% for Socially and Educationally Backward Communities as declared under Baxi Commission (Mandal Panch). One per cent of available seats are reserved for children of defence personnel and ex-servicemen. Moreover, 5% seats are reserved for disabled (physically challenged) candidates as per the directives from the Supreme Court of India. The students of CBSE, who have passed their examination from school located in Gujarat State, are admitted as per *prorata* basis. There is provision of additional seats for Kashmiri Migrants and Parsi Community (domicile of Gujarat State) also. Out of state quota, 15% seats are reserved for ICAR candidates, who have been nominated by ICAR, respectively. The admission procedure is centrally administered by the Registrar at university level.

Weightage of marks for participation in sport is given in admission as per the rank obtained in various sports activities. Weightage of 5% marks is given to farmer's son/daughter and students of vocational stream who have passed HSCE with Agriculture subject in addition to Physics, Chemistry and Biology for admission to B.Sc. (Hons.) Agri. and B.Sc. (Hons.) Horti. degree course. In B.F.Sc. degree course, 12% seats are reserved for Fisherman's son/daughter and weightage of 15% marks is also given for admission.

Centralised online admission procedure is adopted by all the four Agricultural Universities of Gujarat for all UG programmes.

(2) Academic Programmes offered at UG level

Details of admissions at under graduate level in the university for the academic year 2018-19 are given in Table 3.1.

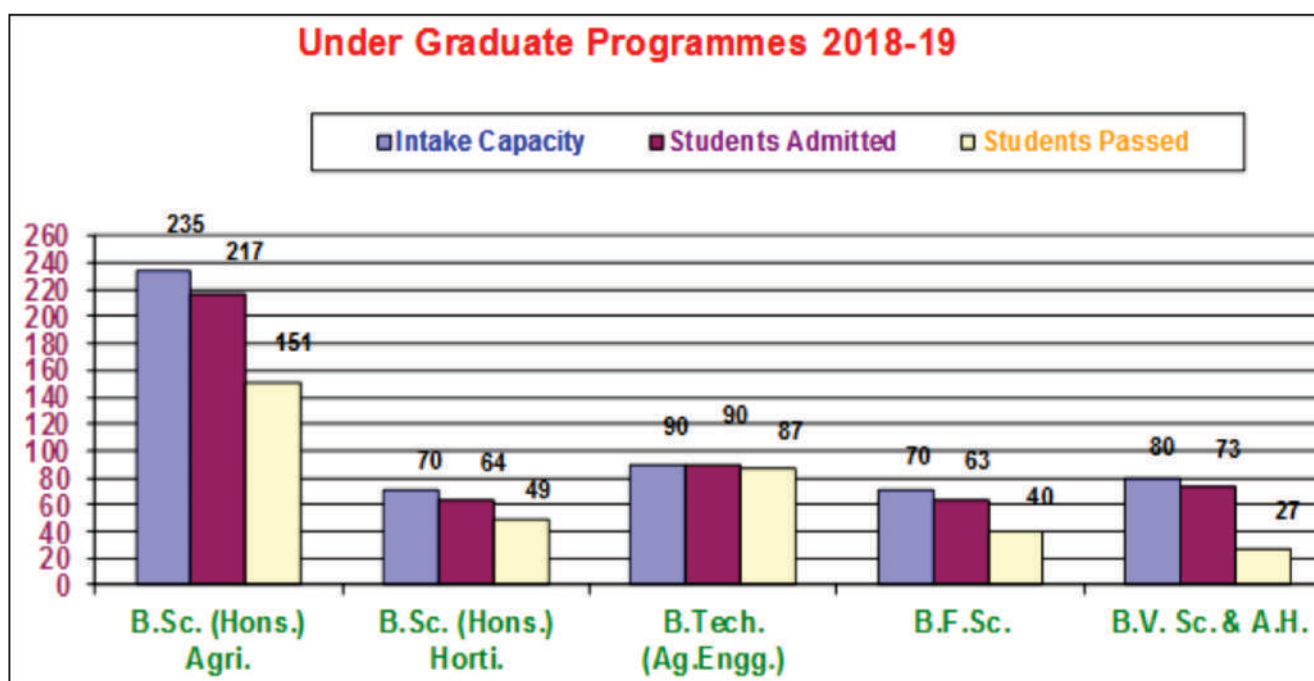




Table 3.1 Under Graduate Programmes

No.	Degree course and duration	College where course offered	Intake capacity*	Students admitted	Students passed
1	B.Sc. (Hons.) Agri. 4 years (8 Semesters)	College of Agriculture, Junagadh	115+20	124	115
2		College of Agriculture, Motabhandariya (Amreli)	70+00	66	36
3		College of Agriculture, Khapat (Porbandar)	30+00	27	00
4	B.Sc. (Hons.) Horti. 4 years (8 Semesters)	College of Horticulture, Junagadh	70+00	64	49
5	B.Tech. (Agril. Engg.) 4 years (8 Semesters)	College of Agricultural Engineering & Technology, Junagadh	77+13	90	87
6	B.F.Sc. 4 years (8 Semesters)	College of Fisheries Science, Veraval	60+10	63	40
7	B.V.Sc. & A.H. 5 years (10 Semesters)	College of Veterinary Science & Animal Husbandry, Junagadh	68+12	73	27
Grand Total			490+55	507	354

*Intake capacity= Free seats + ICAR/VCI nominees





As per the course curriculum of polytechnic diploma programme, there is provision to admit the students who have passed polytechnic diploma (Three years) to degree programme directly in the second year *i.e.* third semester considering the intake capacity of 10% of regular under graduate seats.

Table 3.2 Diploma to Degree Programmes

No.	Degree course	College where course offered	Intake capacity	Students admitted
1	B.Sc. (Hons.) Agri.	College of Agriculture, Junagadh	14	14
2	B.Sc. (Hons.) Agri.	College of Agriculture, Motabhandariya (Amreli)	7	7
3	B.Sc. (Hons.) Horti.	Horticulture wing, College of Agriculture, Junagadh	7	7
4	B.Tech. (Agril. Engg.)	College of Agricultural Engg. & Tech., Junagadh	9	9

3.3 Post Graduate Education

The Junagadh Agricultural University imparts Post Graduate instructions with the help of the PG recognized teachers of the university.

(1) Procedure of Admission

- A candidate for admission to the Master's degree should possess Bachelor's degree with an OGPA not less than 6.00 (10.00 basis) or its equivalent in aggregate as well as in the subject in which admission is sought.
- A candidate for admission to the Ph.D. degree programme should possess Master's degree in concerned subject with an OGPA of not less than 6.50 (10.00 basis) or its equivalent.
- A candidate shall have to appear in the entrance test and admission is given on the merit based on weightage of 50% marks obtained in entrance test and 50% marks of the last degree obtained. For admission to MBA in Agri-Business, merit list is prepared on the marks obtained in entrance test, OGPA and GD/PI.
- Relaxation of 5% marks (OGPA at UG/PG level) is given in eligibility to ST, SC and SEBC candidates for admission to Master/Ph.D. degree.

Details of admission through diploma to degree programme at under graduate level in the university for the academic year 2018-19 are given below.

- Seats for ICAR and Govt. of India nominees, ST, SC, SEBC, Gujarat State nominees and in-service candidates are reserved as per university / ICAR rules.
- Centralised admission procedure is adopted by all the Agricultural Universities of Gujarat for all PG programmes.
- A candidate should be domicile of Gujarat State. Candidates from other state who has obtained their UG/Master degrees from SAUs of Gujarat shall be admitted on the vacant seats.

(2) Academic Programmes offered at Post Graduates level

Details of admissions at Post Graduate level in the university for the academic year 2018-19 are given in Table 3.3. A total 215 Masters level thesis have been submitted and total 36 Doctoral thesis have been submitted during the period under report.

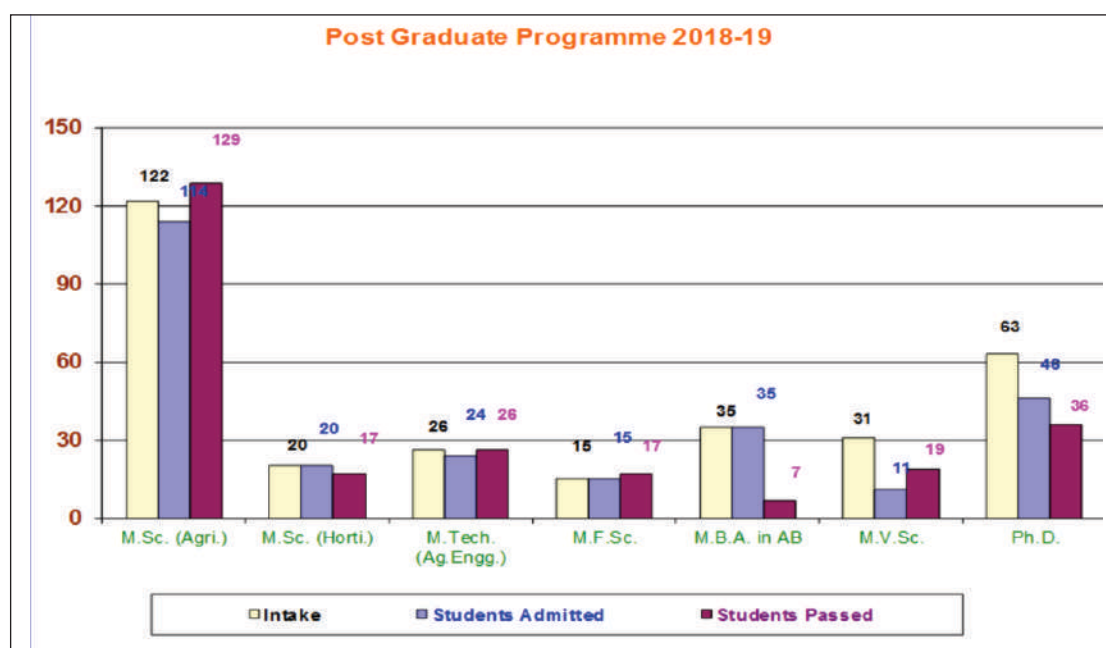




Table 3.3 Post Graduate Programmes

No.	Name of the course	Duration	College	Intake capacity*	Students admitted	Students passed
1	M.Sc. (Agri.)	2 Years (4 Semesters)	College of Agriculture, Junagadh	92+30*	114	129
2	M.Sc. (Horti.)	2 Years (4 Semesters)	College of Horticulture, Junagadh	16+04	20	17
3	M.Tech. (Agril. Engg.)	2 Years (4 Semesters)	College of Agricultural Engineering & Technology, Junagadh	19+07	24	26
4	M.F.Sc.	2 Years (4 Semesters)	College of Fisheries Science, Veraval	11+04	15	17
5	M.B.A. in Agri-Business	2 Years (4 Semesters)	Post Graduate Institute of Agri- Business Management, Junagadh	26+09	35	07
6	M.V.Sc.	2 Years (4 Semesters)	College of Veterinary Science & Animal Husbandry, Junagadh	26+05	11	19
7	Ph.D.	3 Years (6 Semesters)	College of Agriculture, Junagadh, College of Agricultural Engineering & Technology, Junagadh, College of Veterinary Science & Animal Husbandry, Junagadh, Agri-business Management, Junagadh, and College of Fisheries Science, Veraval	51+12	46	36
Grand Total				241+71	265	251

*Intake capacity= Free seats + ICAR nominees



**Table 3.4 Number of students graduated with their class obtained from different degree programme during academic year 2018-19.**

Degree course	First Class with Distinction	First Class	Second Class	Pass Class	Total
B.Sc. (Hons.) Agri., Junagadh	53	50	09	03	115
B.Sc. (Hons.) Agri., Mota Bhandariya	13	19	04	00	36
B.Tech. (Ag. Engg.)	21	50	12	04	87
B.F.Sc.	08	29	03	00	40
B.V.Sc. & A.H.	02	07	16	02	27
B.Sc. (Hons.) Horti.	19	27	03	00	49
UG Total					354
M.Sc. (Agri.)	40	79	10	-	129
M.Sc. (Horti)	06	11	-	-	17
M.Tech. (Ag. Engg.)	04	19	03	-	26
M.F.Sc.	08	09	-	-	17
MBA in AB	-	06	01	-	07
M.V.Sc.	07	12	-	-	19
Master Total					215
Ph.D.					36
Grand Total					605

3.4 Polytechnic Diploma Education

Looking to the present scenario of changing pattern in education system, Junagadh Agricultural University have begun three years' Polytechnic Diploma programmes in Agriculture, Horticulture, Agro-Processing and Home Science. The programmes started from academic year 2009-10 with the aim to cater the present needs in the different areas of agriculture and allied fields. Another two polytechnic programmes *i.e.* Animal Husbandry and Agril. Engineering was started from academic year 2013-14. The school of Agriculture was also upgraded to Diploma in Agriculture from the academic year 2018-19.

The admission criteria in the diploma programmes in Junagadh Agricultural University is purely on merit basis *i.e.* percentage of marks obtained at SSCE (10th Standard) with English as a compulsory subject from any statutory Board in the Gujarat State or Examinations recognized as equivalent thereto. Among the seats allotted for admission, 49% seats are reserved for various

Backward Classes, *i.e.* 15% for Schedule Tribes, 7% for Schedule Caste and 27% for Socially and Educationally Backward Communities as declared under Baxi Commission (Mandal Panch). Moreover, 3% seats are reserved for disabled (physically challenged) candidates as per the directives from the Supreme Court of India. One per cent seat is also reserved for children of defence personnel/ex-servicemen.

Central admission procedure is adopted by all the Agricultural Universities of Gujarat for all polytechnic programmes. Weightage of marks for participation in sport is given in admission. Weightage of 5% marks is given to farmer's son/daughter in the Diploma in Agriculture and Horticulture.

(1) Duration and Admission Requirement of Polytechnic Diploma Courses

Admission requirements for diploma courses are shown in Table 3.5



**Table 3.5 Admission requirements for polytechnic programmes**

Diploma course & Duration	Polytechnic	Eligibility for admission
Diploma in Agriculture 3 years (6 Semesters)	Polytechnic in Agriculture, Dhari Polytechnic in Agriculture, Amreli Polytechnic in Agriculture, Halvad	<p>The candidate should have passed Secondary School Certificate Examination (SSCE) with English as compulsory subjects from any statutory Board in Gujarat State.</p> <p>The minimum requirement of aggregate marks shall be as under:</p> <ol style="list-style-type: none"> 1. ST & SC : 35% 2. SEBC : 40% 3. General : 40 %
Diploma in Horticulture 3 years (6 Semesters)	Polytechnic in Horticulture, Junagadh	
Diploma in Agro-Processing 3 years (6 Semesters)	Polytechnic in Agro-Processing, Junagadh	
Diploma in Agril. Engg 3 years (6 Semesters)	Polytechnic in Agril. Engineering, Targhadia (Rajkot)	
Diploma in Animal Husbandry 3 years (6 Semesters)	Polytechnic in Animal Husbandry, Junagadh	

(2) Admissions of Polytechnic Diploma Courses

Details of admissions at diploma level in the university for the academic year 2018-19 are given in Table 3.6

Table 3.6 Details of admissions at diploma level in the University for the academic year 2018-19

No.	Diploma courses (Polytechnics)	Intake capacity	Students admitted	Students passed
1	Diploma in Agriculture, Dhari	40	39	29
2	Diploma in Agriculture, Halvad	30	29	00
3	Diploma in Agriculture, Sidasar	30	29	00
4	Diploma in Horticulture	40	39	25
5	Diploma in Agro-Processing	40	36	21
6	Diploma in Home Science	00	00	09
7	Diploma in Agril. Engg	40	34	30
8	Diploma in Animal Husbandry	40	37	23
	Total	260	243	137

3.5 Institutional Development Plan

NAHEP has been formulated by ICAR for five years starting from 2017-18. The project is proposed on 50:50 cost-sharing basis between the World Bank and the Government of India, implemented at the Education Division, ICAR, New Delhi. Overall, the project aims to develop resources and mechanism for supporting infrastructure, faculty and student advancement, and providing means for better governance and management of agricultural universities, so that a holistic model can be developed

to raise the standard of current agricultural education system that provides more jobs and is entrepreneurship oriented and on par with the global agriculture education standards.

Among the three components of the NAHEP i.e. 1) Support to Agricultural Universities; 2) Investments in ICAR for Leadership in Agricultural Higher Education, and 3) Project Management and Learning; Institutional Development Plan (IDP) is one of the major sub-components of Components-1: Investments toward 21st Century Agricultural Universities Education





Plan. The IDP for Junagadh Agricultural University (JAU) has been considered by the ICAR for improving competency of faculty and education quality at graduation level students among all faculties of the JAU. The theme of the project awarded to JAU is “Automation, Robotics and Drone Technology in Agriculture”. This project will attempt to strengthen human resource capabilities by exposing students to international environment of agricultural education. The project will be pillared on fast-learning of emerging technologies like robotics & artificial intelligence so as to meet the demand for highly skilled workers; to reduce drudgery in farm operations and to better explore the needs of biological variability, human interference and inspection, decision making and action in the field of agriculture and allied disciplines. The Followings are the major objectives of the IDP for JAU, Junagadh.

1. To develop skill and inculcate entrepreneurship among the students.
2. To strengthen linkages between institute, industries, corporate and foreign agencies.
3. To strengthen student services and integrated management information system.

Summary of the progress

Objective 1:

- Total 35 National Seminar/ Workshop/ Training /Short Course were carried during the year 2018-19 and total 1387 students and 232 faculties were benefitted through these programmes.
- Total 92 Students were sent to Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar for learning two refresher courses on Higher Mathematics and Advanced Computer Programming programme during June 10 -July 22, 2018. In addition to this, a course on Machine Learning was conducted through Video Conferencing by faculties from DA-IICT, Gandhinagar during August-November, 2018 and 24 students were participated.

- National seminar cum training on "Modern Trends and Advances in Animal Sciences" conducted at Veterinary College, JAU, Junagadh during Dec. 21-22, 2018 and 60 students and 40 faculties were participated.
- National Symposium on “Futuristic Technologies in Agriculture” conducted at JAU, Junagadh during March 10-11, 2019 and 100 students and 50 faculties were participated
- Workshop on "Application of advanced instrumentation in drug discovery and role of veterinarians in biomedical science" conducted at Veterinary College, JAU, Junagadh during Jan. 04, 2019 and 103 students and 32 faculties were participated.
- The development of curriculum for advance courses is under process, which will be included in the existing UG course program. The course content of theory and practicals will be formulated keeping students job prospectus in view. It will be approved by the Academic Council and Board of Management of JAU for the implementation of course curriculum as an elective course.
- The University has established of Automation and Robotics Learning Centre: The state of art facilities for advanced cutting edge technologies like Robotics and Automation, Artificial Intelligence-Machine learning, Drone Applications are established to conduct course practical/skill development program/workshops for students and faculty/staff of all faculties of the university.
- MoU with Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar is signed for strengthening educational activities.
- Alumni Portal has been developed for the establishment of linkage between alumni and institute. Alumni meet of College of Agricultural



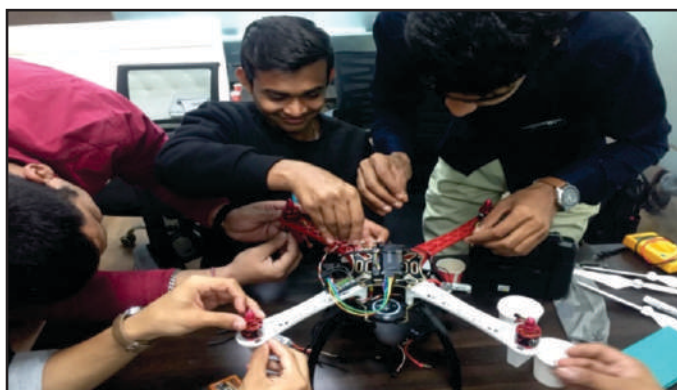


Engineering and Technology (CAET) was held on March 09, 2019 at JAU, Junagadh. The alumni and current students of the college actively participated and interacted for entrepreneurship development.

- Online portals for learning resources and students placement were developed. These portals cover the services like student information on

admission, academic activities, employment, financial management and examination result. Facilities for smart class rooms and students e-Services are developed.

- During the year 2018-19, out of the allotted grant of Rs. 1068.89 lakhs, grant of Rs. 391.64 lakhs was utilized.



Glimps of Institutional Development Plan in the University

3.6 Annual Convocation

The Fourteenth Annual Convocation was held at Junagadh on December 28, 2018. **Dr. P. K. Mishra**, Additional Principal Secretary to Ho'ble Prime Minister, Govt. of India, New Delhi, was the chief guest. As many as 615 students were awarded Under Graduate and Post Graduate degrees (Table 3.7) by

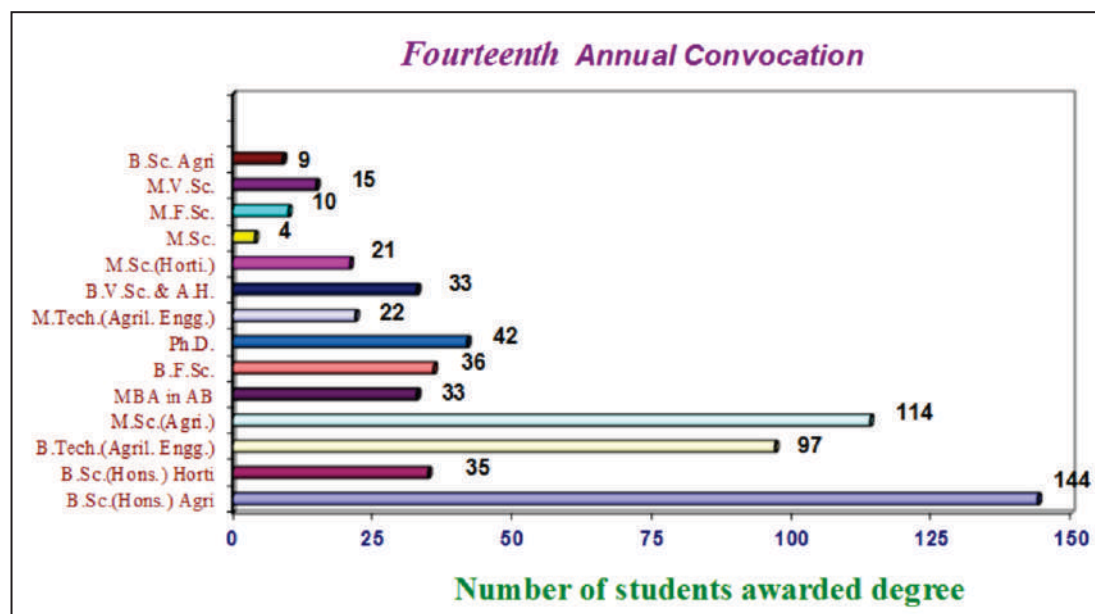
Hon'ble Governorshri of Gujarat and Chancellor of this university, Shree O.P. Kohli. For the academic year 2018-19, 8 Gold Medals, 50 Gold Plated Silver Medals and two Cash Prizes were awarded to students for their outstanding performance at examination, achieving high percentage of marks and stood first on merit in various examinations.





Table 3.7 Number of students conferred their degrees with their class obtained from different degree programmes during Fourteenth Annual Convocation

Degree course	First Class with Distinction	First Class	Second Class	Pass Class	Total
B.Sc. (Agri.)	01	02	05	01	09
B.Sc. (Hons.) Agri.	67	66	11	00	144
B.Tech. (Ag. Engg.)	32	42	17	06	97
B.F.Sc.	16	15	05	00	36
B.V.Sc. & A.H.	01	08	23	01	33
B.Sc. (Hons.) Horti.	17	18	00	00	35
UG Total					354
M.Sc.	01	03	00	00	04
M.Sc. (Agri.)	43	58	13	00	114
M.Sc. (Horti)	03	15	03	00	21
M.Tech. (Ag. Engg.)	05	15	02	00	22
M.F.Sc.	06	04	00	00	10
MBA in AB	04	26	03	00	33
M.V.Sc.	06	09	00	00	15
Master Total					219
Ph.D.					42
Grand Total					615





3.7 Anti-Raging

Prevention and Prohibition of Ragging

In view of the directives of the Supreme Court in SLP No. 24295 of 2006 dated 16-05-2007 and in Civil Appeal number 887 of 2009, dated 08-05-2009 to prohibit, prevent and eliminate the scourge of ragging including any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student, or indulging in rowdy or indisciplined activities by any student or students which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in any fresher or any other student or asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student, with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student, in all colleges of university, and thereby, to provide for the healthy development, physically and psychologically, of all students.

A women complaint mechanism cell is established for protection against harassment to girl/woman students. Anyone found guilty will be punished suitably.

3.8 JEMS & NISAGENET

The university has implemented online exam Management System through JEMS (Junagadh Exam Management System). The software has been purchased to strengthen the examination and evaluation system as well as timely and precisely declaration of results, issuing of notification, marksheet and other examination relevant certificates. The convocation module has been developed on JEMS software so that students can fill up online application and fee for annual convocation of the University.

As the directives of ICAR on recommendations of National Statistical Commission (NSC) and the Department of secondary & Higher education of the Ministry of Human Resource Development, Government of India, the National Information System on Agricultural Education Network in India (NISAGNET) cell made functional at the Office of Registrar. The main function of the cell is to collect, compliance and upload the university data in NISAGNET portal run by ICAR.



