

EDUCATION



Chapter - 3



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 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 School of Baking, Agro-based ITI 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 Nineteenth annual report are presented herewith.

3.2 Under Graduate Education

The under graduate programmes are of duration of 4 years (8 semester) in various faculties with residential faculties.

(1) Procedure of Admission

The admission criteria in the Under Graduate programmes in Junagadh Agricultural University is purely on merit basis considering weightage of 60% marks obtained in science subjects of Physics, Chemistry and Biology/ Mathematics at HSCE and 40 % marks obtained in Gujarat Common Entrance Test (GUJCET) conducted by GSEB for all courses. 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., Physics, Chemistry and Biology, while for B.Tech. (Agril. Engg.), Physics, Chemistry and Mathematics/Biology 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, 27% for Socially and Educationally Backward Communities as declared under Baxi Commission (Mandal Panch) and additional 10% seats for EWS are reserved as a supernumerary as per reservation policy. One per cent of available seats are reserved for children of defence personnel and ex-servicemen. Moreover, 5% seats are reserved for PwD (Divyang) 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, 20% seats are reserved for out of state candidates, who have been nominated by ICAR. At the university level, the Registrar centrally administers the admission procedure in Agriculture, Horticulture and Agricultural Engineering.

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. Apart from this 20% of intake are admitted through ICAR.

All the four Agricultural Universities of Gujarat for all UG programmes adopt centralised online admission procedure.





(2) Academic Programmes offered at UG level

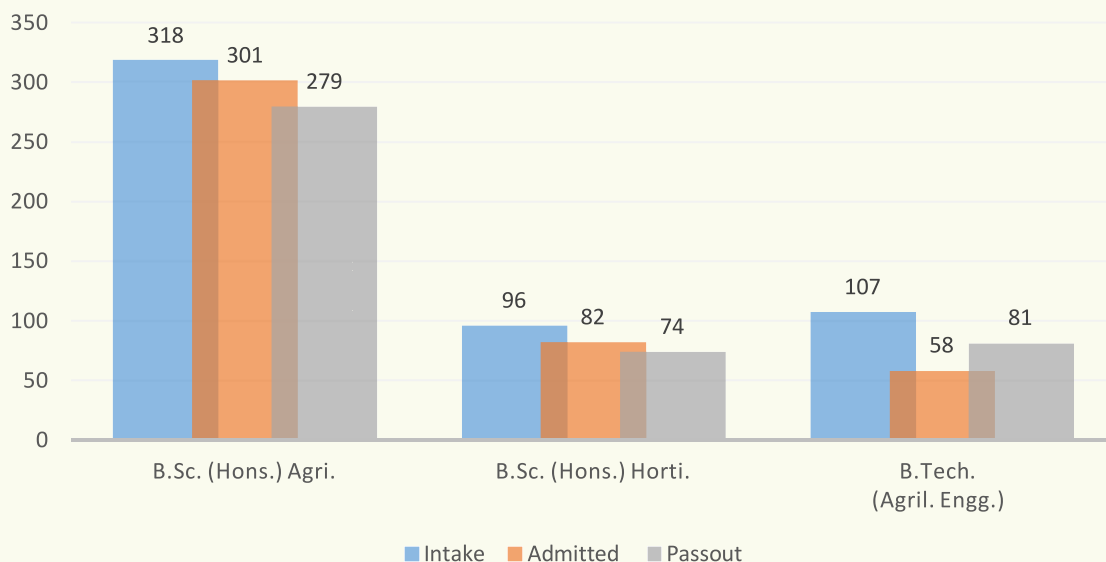
Details of admissions at under graduate level in the university for the academic year 2022-23 are given in Table 3.1.

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	130+28	156	156
2		College of Agriculture, Motabhandariya (Amreli)	79+17	82	82
3		College of Agriculture, Khapat (Porbandar)	64+00	63	41
4	B.Sc. (Hons.) Horti. 4 years (8 Semesters)	College of Horticulture, Junagadh	79+17	82	74
5	B.Tech. (Agril. Engg.) 4 years (8 Semesters)	College of Agricultural Engineering & Technology, Junagadh	88+19	58	81
Grand Total			440+81	441	434

*Intake capacity= State quota + ICAR quota

Under Graduate Programmes 2022-23



Apart from above intake in degree programmes, there is a provision to admit the students through lateral entry, who have passed polytechnic diploma (Three years) from SAUs of Gujarat to degree programme directly in the second year *i.e.* third semester

considering the intake capacity of 10% of state quota seats under graduate seats.

Details of admission through diploma to degree programme at under graduate level in the university for the academic year 2022-23 are given below.

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	15	15
2	B.Sc. (Hons.) Agri.	College of Agriculture, Motabhandariya (Amreli)	10	9
3	B.Sc. (Hons.) Agri.	College of Agriculture, Khapat (Porbandar)	7	7
4	B.Sc. (Hons.) Horti.	College of Horticulture, Junagadh	10	10
5	B.Tech. (Agril. Engg.)	College of Agricultural Engg. & Tech., Junagadh	10	10

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) 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.
- (B) 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.
- (C) A candidate shall have to appear in the entrance test, admission is given on the merit based on weightage of 50% marks obtained in entrance test, and 50% marks of the last degree obtained.
- (D) 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.
- (E) 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.
- (F) All the Agricultural Universities of Gujarat adopts Centralised admission procedure for all PG programmes.
- (G) 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.

- (H) The students appeared in AIAEE of ICAR are admitted through ICAR (30% of intake).





(2) Academic Programmes offered at Post Graduates level

Details of admissions at Post Graduate level in the university for the academic year 2022-23 are given in Table 3.3.

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	82+30	99	104
2	M.Sc. (Horti.)	2 Years (4 Semesters)	College of Horticulture, Junagadh	13+03	15	18
3	M.Tech. (Agril. Engg.)	2 Years (4 Semesters)	College of Agricultural Engineering & Technology, Junagadh	30+08	13	15
4	M.B.A. in Agri-Business	2 Years (4 Semesters)	Post Graduate Institute of Agri-Business Management, Junagadh	28+10	30	51
5	Ph.D.	3 Years (6 Semesters)	College of Agriculture, Junagadh, College of Horticulture, Junagadh, College of Agricultural Engineering & Technology, Junagadh, Agri-business Management, Junagadh	50+15	41	47
Grand Total				203+66	198	235

*Intake capacity= State quota + ICAR quota

Post Graduate Programmes 2022-23

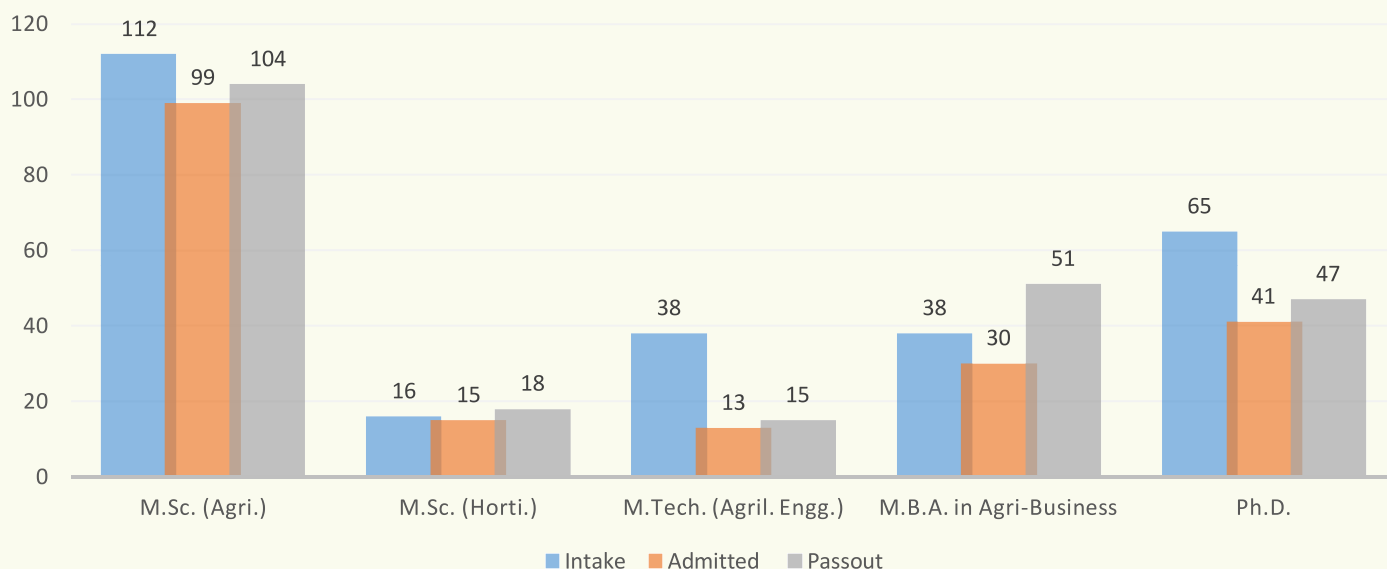


Table 3.4 Number of students passed out with their class obtained from different degree programme during academic year 2022-23.

Degree course	First Class with Distinction	First Class	Second Class	Pass Class	Fail	Total
B.Sc. (Hons.) Agri. Junagadh	35	98	22	0	1	156
B.Sc. (Hons.) Agri. Mota Bhandariya	07	58	17	0	0	82
B.Sc. (Hons.) Agri. Khapat	07	31	03	00	00	41
B.Sc. (Hons.) Horti.	22	48	04	00	00	74
B.Tech. (Ag. Engg.)	06	46	29	00	00	81
UG Total						434
M.Sc. (Agri.)	53	49	02	00	00	104
M.Sc. (Horti)	09	03	00	00	00	12
M.Tech. (Ag. Engg.)	04	11	00	00	00	15
MBA in AB	09	42	00	00	00	51
Master Total						152
Ph.D. Total						47
Grand Total						633

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 and Agro-Processing. 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 polytechnic programme in Agril. Engineering is started from academic year 2013-14.

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, 27% for Socially and Educationally Backward Communities as declared under Baxi Commission (Mandal Panch) and additional 10% for Economical Weaker Section as a supernumerary as per Government of Gujarat rules. Moreover, 5% seats are reserved for PwD (divyang) 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.

All the Agricultural Universities of Gujarat for all polytechnic programmes adopt central admission procedure. 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, Sidsar Polytechnic in Agriculture, Halvad	The candidate should have passed Secondary School Certificate Examination (SSCE) with English as



Diploma course & Duration	Polytechnic	Eligibility for admission
Diploma in Horticulture 3 years (6 Semesters)	Polytechnic in Horticulture, Junagadh	compulsory subjects from any statutory Board in Gujarat State. The minimum requirement of aggregate marks shall be as under: 1. ST & SC : 35% 2. SEBC : 40% 3. General : 40 % 4. EWS : 40 %
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)	

(2) Admissions of Polytechnic Diploma Courses

Details of admissions at diploma level in the university for the academic year 2022-23 are given in Table 3.6

Table 3.6 Details of admissions at diploma level in the University for the academic year 2022-23

No.	Diploma courses (Polytechnics)	Intake capacity	Students admitted	Students passed
1	Diploma in Agriculture, Dhari	44	42	38
2	Diploma in Agriculture, Halvad	33	31	25
3	Diploma in Agriculture, Sidasar	33	33	34
4	Diploma in Horticulture	44	41	38
5	Diploma in Agro-Processing	44	27	32
6	Diploma in Agril. Engg	44	26	35
	Total	242	200	202

3.5 Accreditation

Junagadh Agriculture University has got the ICAR accreditation by National Agriculture Education Accreditation Board from 28/03/2021 to 27/03/2026, as a University whole, all UG programmes in four colleges and ten Masters as well as doctoral programmes in Agriculture, four master as well as doctoral programmes in Agriculture Engineering & Technology, three masters and doctoral programmes in Horticulture while one master and doctoral programme in Agri-Business Management.

3.6 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 is strengthening human resource capabilities by exposing students to international environment of agricultural education. The project is 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.

NAHEP-IDP-JAU Summary of FY 2022-23

Programs conducted during the year

Program	FY 2022-23	
	No. of program	Beneficiaries
Entrepreneurship Development	2	125
Skill Development	11	2277
Vocational	6	373
Certificate course	0	0
Workshop	3	288
Other	22	3067
Faculty Beneficiaries	-	572
Total	44	6702

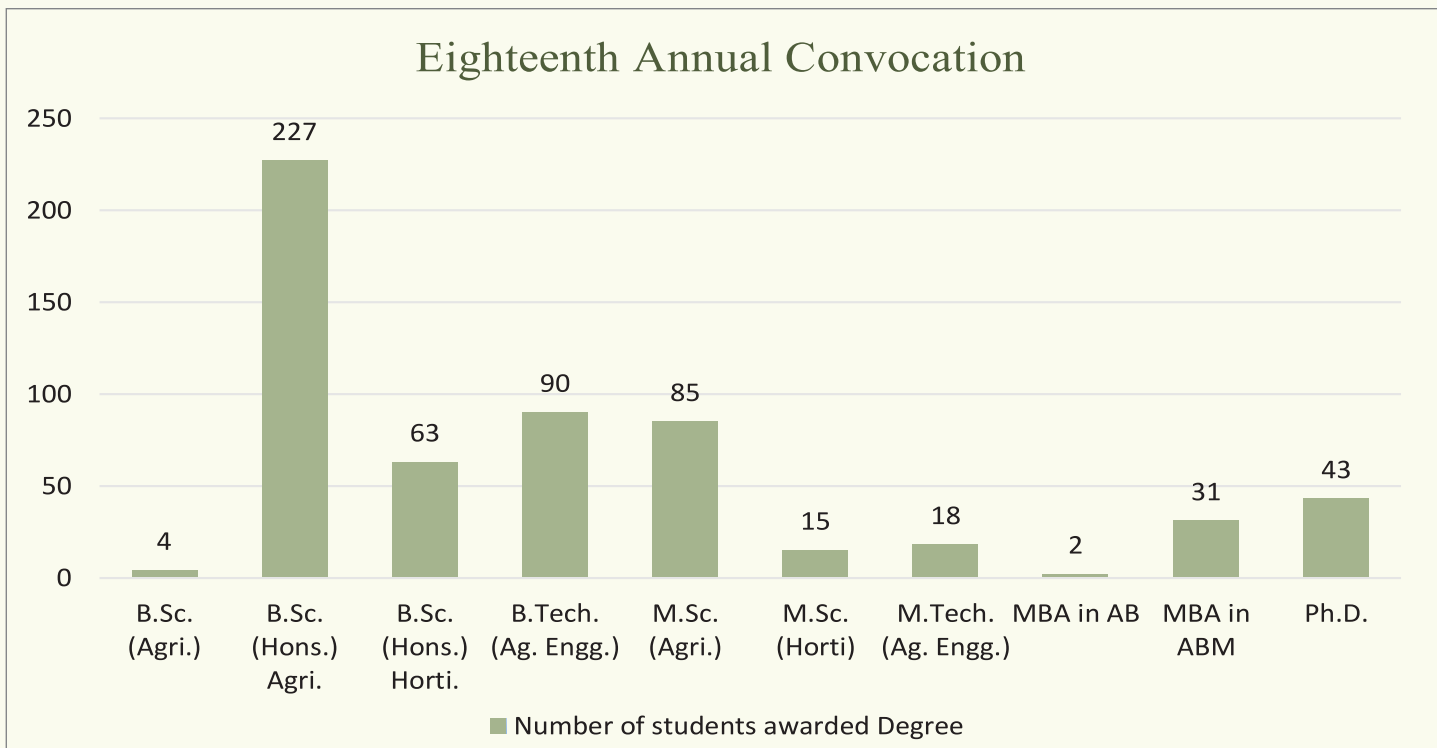
3.7 Annual Convocation

The Eighteenth Annual Convocation was held at Junagadh on January 09, 2023. Shri Deepak P Shah, Chairman of SML Group of Companies was the chief guest. Hon'ble Governor Shri of Gujarat and Chancellor of the university, Shree Acharya Devvrat, awarded as

many as 578 Under Graduate and Post Graduate degrees (Table 3.7). For the academic year 2022-23, 08 Gold Medals (including 2 donors gold medal), 53 Gold Plated Silver Medals and 1 Cash Prizes were awarded to students for their outstanding performance in merit as well as extra curricular activities

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

Degree course	First Class with Distinction	First Class	Second Class	Pass Class	Total	
B.Sc. (Agri.)	00	02	01	01	04	
B.Sc. (Hons.) Agri.	67	140	19	01	227	
B.Sc. (Hons.) Horti.	14	41	08	00	63	
B.Tech. (Agril. Engg.)	04	56	30	00	90	
UG Total					384	
M.Sc. (Agri.)	33	48	04	00	85	
M.Sc. (Horti)	10	05	00	00	15	
M.Tech. (Agril. Engg.)	06	11	01	00	18	
MBA in AB	00	00	02	00	02	
MBA in ABM	05	26	00	00	31	
Master Total					151	
Ph.D.					Ph.D. Total	43
Grand Total					578	



3.8 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 indiscipline 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 of 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. No one found guilty during the year. During the reporting period, no incidence of ragging was observed in JAU.

3.9 JAU Examination Management System (JEMS)

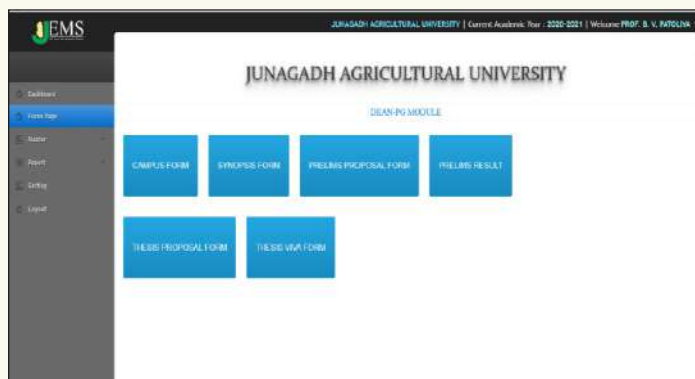
The University has implemented Online Exam Management System (JEMS) by which all the academic administration procedures viz. from registration of students to degree printing during convocation have been made through the JEMS only. In this system, the results of various examination conducted in polytechnic / under-graduate / post-graduate are prepared as well as declared promptly and precisely. The various mark sheets / transcripts / certificates (PPC/PDC/Migration certificate etc.) of students may also be generated through this system only.

In post graduate studies, this system has replaced the cumbersome paper procedure to paperless system i.e. filling of campus form, filling of course card, online submission of synopsis for Dean PG's approval, Proposal of Qualifying examination including written and oral examination, Proposal of External examiner for thesis evaluation as well as Oral thesis viva-voce

examination, submission of result of thesis evaluation as well as declaration of Notification and transcripts etc.

This system has also implemented all academic procedures required during convocation i.e. application of candidate for convocation, In-house printing of degree of students of various faculties, preparing of list for gold medalist, preparation of list of degree recipients etc. This system has effectively implemented and used in the university and took a step forward to Digitalization and transparency in the administration (e-governance).

➤ Online Examination System

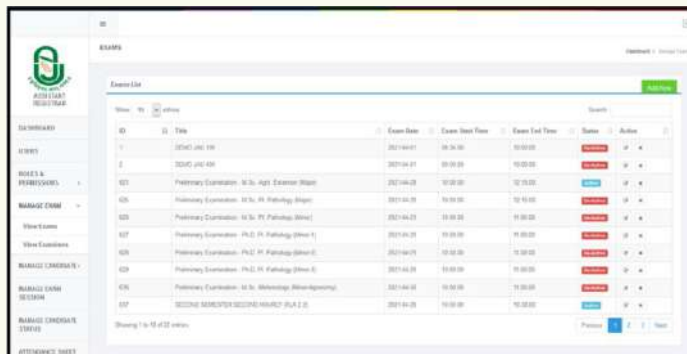


JAU Examination Management Software

Online examinations system developed by University for various examinations conducted by colleges / university for PG admission as well as for recruitment. The results of these examinations were delayed due to offline mode examination. Online Examination System (OES) is very useful on many number of terminals in university Examination Hall. Also, the result of candidate is displayed immediately on his terminal screen as soon as he/she finishes the

examination. Hence, the examination process became faster as well as transparent.

➤ E-learning Solutions for Students



JAU Online examination system

The world is rapidly adapting to this changing trend from traditional teaching to e-learning. Academic Information Management System (AIMS) is helpful to graduate / postgraduate students of university. This system provides learning material shared by course teacher online and it is available to learn "anytime, anywhere." The course teacher can share learning material in various formats like power point presentation, text, sound, graphics and video to the students.



Online examination appears by students at University Examination Hall

➤ Online Mock Test Examination System

This system is very useful for the university students to prepare themselves for various competitive examinations like JRF, SRF, NET, ARS, GATE, etc.