SELF STUDY REPORT 2016-2021

RAK COLLEGE OF AGRICULTURE, SEHORE (M.P.)

RAJMATA VIJAYARAJE SCINDIA KRISHI VISHWA VIDYALAYA, GWALIOR (M.P.)

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PREFACE

It is my proud privilege to bring forth this self-study report (SSR) for accreditation of the RAK College of Agriculture, Sehore .This attempt has bestowed upon us an opportunity to review and analyze the institutional progress during the years meant for assessment and braced us up in our pursuit for quality and excellence. Regular meetings were held with the entire stake holder's viz., the faculty, university authorities, students and parents to review the report. Meetings were also held with the Heads of the Department to discuss the details of the Departmental profiles. The process of preparation of the SSR was a happy journey towards the desired destination. The preparation of SR is not an output of any individual; rather it has been a team effort.

The college is equipped with the best infrastructure and equipments, which has been instrumental in creating the credibility. The RAK College of Agriculture, Sehore alumni are absorbed in different national and multi-national institutes, as well as few students have started their own business units and are promising entrepreneurs, besides being employed in public sector Banks thus, contributing immensely to the nation and particularly the agricultural system, We believe that having established our credentials in the field of agricultural education, we need to take our commitment forward through introducing newer and higher avenues for the budding agriculture students. Our aim is to imbibe the good work practices as well as research culture and professional attitude amongst the student fraternity to make them able and competent to contribute to the ultimate goal of having sustainable agriculture.

This self-study report is the collective effort of the university authority, staff (both teaching and non-teaching) and students. I appreciate the deep involvement and painstaking cooperative efforts of the entire team who have extended whole hearted support in the preparation of this Self Study Report. I am very grateful to the worthy Vice-Chancellor for providing his valuable guidance. I also express my sincere thanks to the Dean Faculty of Agriculture for compilation of SSR and other officers of the university, HODs, faculty members and students and especially to the members of the Steering Committee. Last but not the least I wish thanks to all those who directly or indirectly supported/helped me/us in preparing the self-studyr eport.

I am very much keen to meet the Team of Accreditation during their forthcoming visit toourinstitution.Suchoccasionandinteractionprovidesallofus;universityauthority,facultymembers,suppo rtingstaff,studentsandotherstakeholderstoenrichourselveswiththeircommentsandsuggestions.

We are eagerly looking forward to welcome the ICAR Peer Review Team and hope they will applaudus for our efforts.

With thanks and greetings

SELF STUDY REPORT OF COLLEGE OF AGRICULTURE, SEHORE (M.P.)

History

The foundation of college of Agriculture, Sehore was laid down by the first food and Agriculture Minister of India, Late Shri Rafi Ahmad Kidwai on August 01,1952. At that time , this college was up to intermediate level. On July 17, 1955 , Union Minister for Food and Agriculture, Shri Ajit Prasad Jain laid foundation of Rafi Ahmad Kidwai Undergraduate College and Agriculture Research Institute. Initially, the college was affiliated to Vikaram University, Ujjain. In the year 1964. After establishment of Jawahrlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur, this college was one of the constituent colleges of JNKVV, Jabalpur. On 19th August, 2008 a new Agricultural university-Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya was established by the bifurcation of JNKVV with head quarter at Gwalior and this college is under administrative control of RVSKVV, Gwalior.

Mandate of the Institution

The RAK College of Agriculture, Sehore is a unique campus under the Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya, Gwalior with complete integration of all the three functions viz.; teaching, research and extension. But, the major mandates of the college are: i) Making provision for imparting education in Agriculture. ii) Advancement of learning and conducting research in Agriculture, especially for the farmers of the state in general. iii) Undertaking activities pertaining to major mandates via, education, extension and research as directed by the University time to time.

Faculty

The College has more than 31 faculty members at various stretch of times during the period under consideration. The college is proud to have the most learned people as their faculty members, who are recognized worldwide for their eminent teaching skills and outstanding research accomplishments.

6.5. SELF STUDY REPORT FOR THE COLLEGE

6.5.1. College Administration

6.5.1.1. College Dean's Office Establishment:

- Whether Dean's post has been sanctioned by the\appropriate authority as per ICAR Model Act/UGC guidelines? **Yes**
- Date of selection of present Dean: **31.08.2019**
- Mode of selection: **Seniority basis**
- Tenure: **Till new selection**

Dean's Secretariat:

SN	Name of the Post	No. of Post	Actual Filled
1	Dean	01	Acting Dean
2	Steno	01	01
3	Jr. Computer	01	-
4	Farm Manager	-	-
5	Agril. Ext. Officer	01	01
6	Mechanic	01	-
7	Black Smith	01	-
8	Carpenter	01	01
9	Electrician	01	-
10	DK/Field Man/ FEO	04	02
11	Tractor Driver	01	-
12	Jeep Driver	02	0
13	Pump Driver	01	-
14	Lab Technician	09	04
15	Lab Attendant	11	02
16	Librarian	01	-
17	Library Shorter	01	-
18	P.T.I.	01	-
19	Compounder	01	-
20	Sub Engineer (Civil)	01	01

The **Secretariat**is well equipped and furnished. All the staffsare provided with computers alongwith internet connection, along with Wi-Fi facility. Printers, scanners,photocopy machines, telephone are available for office use.

INFRASTRUCTURE ***(Give the details of the infrastructure available such as furniture, computeretc.)***

Yes. Necessary infrastructure, office, furniture and computerfacilitiesare available.

PSOffice	Yes.Separateofficewithfurnitureandcomputerfacilities.

Yes. Independent office room, furniture and computer areavailable.

CashierChamber	Yes,with allthefacilities.		
Store(s)	Yes		
CommitteeRoom	Yes,withvideoconferencingfacilities.		
Waiting Lounge / Hall forVisitors	Yes		
Commonroomforgirlstudents	Yes		
Washrooms/Toilets	Yes		
Auditorium	No		
Computer Centre (CollegeLevel)	01	No.ofcomputers:	20
Department (No.): 10			

Names:Agricultural Economics, Agricultural Extension & Communication, Agronomy, Entomology, Horticulture, Plant Breeding, Plant Pathology, Soil Science and Agricultural Chemistry, Plant Physiology, Agril. Statistics

LectureHalls(No.)	04
Facilities in the lecturehall like seating capacity,LCDProjector, Computer, CC Camera,Blackboard,screensetc.	Seatingcapacity 90 in 03 Halls &70 in 01 Hall. LCDprojector:Yesin eachlecture hall
SmartClassrooms(No.)	03
SeminarRooms(No.)	01(AllDepartments)
CollegeLibrary	01
Departmental Computerfacility	Each faculty member has computerfacility.

6.5.1.2. Monitoring Mechanism for Quality Education:

6.5.1.2.1. Teaching

The lectures conducted by the faculty are being regularly monitored by The Dean and Academic Staff. Students who are academically weak are given special guidance and extra lectures are conducted for improvement.

After the declaration of result of each semester the results of the students are categorized into four category *viz.,* Distinction, First class, Second class and Pass class. The results of each subject are discussed with students. The results are interpreted and guidance/suggestions are made to improve the results. The innovative suggestions recommendations are forwarded to faculty meeting and academic council.

6.5.1.2.2. Research

In every department twelve students appeared for their research work. An advisory committee constituted for successful completion of student research and monitoring of their trails.

6.5.1.2.3. Extension

Monitoring mechanism is used to review the Extension activities involved. The extension of different technology developed is disseminated through different *krishi-mela*, agro-technology exhibition, live demonstration, interaction through Scientist Farmer Forum. Outcome of such activities result in the students excelling in academics, research and extracurricular activities

Impact:

Year-wisenumbersof the studentspassedout aregivenasunder

Studentspassedoutduring:						
	2016-17	**2017-18**	**2018-19**	**2019-20**	**2020-21**	**TOTAL**
UG	93	87	80	51	84	**302**
PG	70	75	55	70	75	**355**

- **AchievementsofStudentsinAcademicActivities**

a. Awardof GoldMedal UG

Year	Name	Enrollment No	Nameof Award
2016-17	Nimisha raj Jain		Gold Medal
2017-18			
2018-19			
2019-20			
2020-21			

a. Awardof GoldMedal PG

Year	Name	Enrollment No	Nameof Award
2016-17			
2017-18			
2018-19			
2019-20			
2020-21			

1. **RAWE Programme:** The students of VII semester were sent for work experience training of 6 months duration to different villages.

RAWE REPORT 2016-2021

Year	KVK	No. Of Boys	No.Of Girls	Total Students
2016-17	Dewas	**34**	**-**	**92**
	Rajgarh	**33**	**-**	
	Shajapur	**-**	**25**	
2017-18	Dewas	**35**		**86**
	Shajapur	**51**		
2018-19	Ichhawar	**28**		**79**
	Rajgarh	**27**		
	Shajapur	**-**	**24**	
2019-20	Ichhawar	**22**		**51**
	Rajgarh	**15**		
	Shajapur	**-**	**14**	
2020-21	Placed at near their home district	**-**	**-**	**83**

WORK DONE BY THE STUDENTS AT VILLAGES IN THE RAWE PROGRAMME.

- Soil testing
- Conduction of PRA
- Use of improved seed
- Seed treatment of different crops.
- Increase the use of organic manures.
- Different irrigation techniques
- Water Harvesting.
- Biogas plant
- Proposed improved cultural practices for Agricultural crops, vegetables and fruit crops.
- Mushroom production .
- Method and Result Demonstration of different agri.practices
- Tree plantation .
- Cleaning of village.
- Participation in Blood Donation Camp, Health Care Camp& Animal care Camp.
- Cleaning of Drinking Water
- Participation in Adult Education programme.
- Giving Information about the cleanliness of Teeth, Cloths & Hand.
- Establishing a library in a village with the help of Sarpanch and young people of the village.

- Organizing Games, Sports, Social Service Clubs, Recreation clubs, kisan mandal, yuva mandal ,mahila mandal. & Bhajan mandals.
- Providing information through Bulletins, Charts, Graphs and samples.
- Repairing village Roads.
- Construction of soak pits and cleaning of drainage channels.
- The Case study of the beneficiaries of the various agricultural Development programmes like DPAP,IRDP,ATMA,TRYSEM, JRY,INDIRA AWAS YOJNA etc.
- Attachment in different Agro industries.


Sowing
nitrogen estimation
Soil Testing in Lab


Spray Of Fertilizer


line sowing

AIA ACTIVITIES

Nursery management	Poultry
Soil testing procedure	Food processing Entkhedi
Fertilizer production unit	Soil Nitrogen estimation in lab
Krishi vigyan Kendra Bhopal M.P(Agro produce processing division)	Jawahrlal Nehru agro produce processing society Khargone
Siddhpur Agro industry Sehore .	Jaggery industry
Shri Ganesh Agro industry Sehore.	Jagdamba Cold storage
Flore mill Astha Sehore	Fisheries
Sudana Pashuahar sanyantra pachama sehore	Bread Industry

6.5.1.3. CC/ Board of Studies

At college level there is **No Board of Studies**. However, the respective Professorfrom each of the department is the members of the board of Academic council at V.V. level.

6.5.1.4. Anti-Ragging Cell

The guidelines provided by the ICAR regarding anti-ragging is followed by the college. Anti-Ragging Cell has been constituted in the college. The Dean of thecollege is the Chairman of the Anti-Ragging Cell. Various members constitute thecommittee from different fields like a nominee of District Collector and Police Superintendent, parents, students, hostel wardens.

Anti-ragging committee

1.	**Head of Institution**	**Dean**	**Dr. H.D. Verma**
2.	**Members**	Professor	Dr. S.R. Ramgiry
3.		Professor	Dr. Moly Saxena
4.		Professor	Dr. K. N. Pathak
5.		Professor & I/c Academic	Dr. S.R.J. Singh
6.		Professor & Head	Dr. M. D. Vyas
7.		Professor & Hostel Warden	Dr. R. P. Singh
8.		Collector nominee	
9.		Nominee of Police administration	
10.		Representative of students	

The notice of the anti-ragging committee is placedon the notice board of the hosteland college notice board. At the time of the admission to the first year an indemnity bondon a bond paper is taken from each student. Similarly the students also have to submit anundertaking online on the anti-ragging portal. The major highlights of the Anti-Ragging Acthave been placed in the college and hostel premises. Separate anti-ragging squadcommittee are also formed at the collegiate level to control ragging activity in the hostel. Frequent visits are made by the committee to the hostel to ensure safety of the students.Regular visits of the staff of the squad committee are held to thehostel where the first year students are residing. During the visit to the hostel, the facultymembers interact with the students make them aware of the provisions of anti-ragging.Through the counselling of the students the students are also made aware of thedifferent provisions of UGC anti-ragging law.

S.No.	**Subject**	**2016-17**	**2017-18**	**2018-19**	**2019-20**	**2020-21**
1	No. of complaints of ragging received during year	01	**02**	**02**	**01**	**00**
2	No. of complaints disposed of during the year	01	**02**	**02**	**01**	**00**
3	No. of cases pending for more than 90 days	**00**	**00**	**00**	**00**	**00**
4	Number of workshops on awareness programme against ragging conducted during the year	**Every year orientation of new entrances are taken and they made aware of ragging**				
5	Nature of action	**00**	**00**	**00**	**00**	**00**

6.5.1.5. Biological waste Disposal facility

No harmful chemicals, biological, radioactive etc. are being generated bythe college. However, college has formulated a committee for biological waste disposal. Alloperations regarding waste disposal operations by the college have been adopted as per government guidelines.

6.5.1.6. Institutional Ethics Committee for Experiment on Animals

The clinical experiments on animal are **not conducted**.

6.5.1.7. Committee for Prevention of Sexual Harassment ofWomen at Work Places

Committee for Prevention of Sexual Harassment of Women

SN	Name of the staff/ committee	Designation
1	Dr. (Smt) Moly Saxena	Principal Scientist
2	Dr. (Smt) Nanda Khandwe	Principal Scientist
3	Smt. Sarita Mandekar	Lab Technician
4	One Member nominated by District Administration	

College is adhering to prevention of sexual harassment of women at workplace (Prevention, Prohibition and Redressal Act, 2013) in letter and spirit and there is no such complain received.

6.5.2. Faculty

6.5.2.1. Faculty Strength

SN	Faculty	Sanctioned	In-position
1	Professor	01	00
2	Associate Professor	04	00
3	Assistant Professor	25	02

As per faculty recommended by ICAR the faculty strength is not sufficient. However, the Research staffs, extension staff, contractual faculty, guest faculty, adjunct faculty are being appointed to complete the curriculum of the undergraduate and post graduate degree programme. 11 principal scientist, 01 senior scientist and 04 scientist a from research project and 07 part time contractual teacher and 01 senior technical officer assist in teaching work.

Faculty Profile (Department wise)

SN	Name of Faculty	Specialiazation	Highest Qualification	Experience (Years)*			Honours/ Awards/ Distinction
				T	R	E	
1	Dr. S. R. Ramgiri	Plant Breeding & Genetics	PhD	20	14	10	01
2	Dr. D. R. Saxena	Plant Pathology	PhD	20	33	14	05
3	Dr. (Mrs.) Moly Saxena	Plant Pathology	PhD	22	33	12	05
4	Dr. S.C. Gupta	Soil Science & Agril. Chemistry	PhD	29	33	23	10
5	Dr. R.C. Jain	Soil Science & Agril. Chemistry	PhD	30	33	33	26
6	Dr. S.A. Ali	Horticulture	PhD	25	35	35	Nil
7	Dr. R.K. Jaiswal	Horticulture	PhD	14	32	32	04
8	Dr. G.K. Nema	Agronomy	PhD	20	32	22	02
9	Dr. B.K. Sharma	Agronomy	PhD	05	03	05	01
10	Dr. H.D.Verma	Agronomy	PhD	19	28	38	Nil
11	Dr. M.D.Vyas	Agronomy	PhD	33	33	33	Nil
12	Dr. R.P.Singh	Agronomy	PhD	32	31	28	4
13	Dr.M.Yasin	Plant Breeding & Genetics	PhD	32	32	32	2
14	Dr. Lekhram	Plant Breeding & Genetics	PhD	14	14	-	Nil
15	Dr.A.K.Saxena	Plant Breeding &Genetics	PhD	30	30	30	1
16	Dr.(Mrs)Nanda Khandwe	Entomology	PhD	36	36	36	NIl
17	Dr. A.K. Choudhary	Plant Pathology	PhD	13	8	13	Nil

18	Dr. K.N.Pathak	Agril. Extension	PhD	15	23	23	2
19	Dr. P.S.Raghuwanshi	Agronomy	PhD	17	19	19	Nil
20	Dr. D.K.Raidas	Plant Physiology	Ph.D., NET	14	04	-	02
21	Shri Balram Baraiya	Plant Physiology	Msc	14	10	14	Nil
22	Er. S.S.Kushwaha	Ag. Engineering	M.Tech Eng.	33	33	33	Nil

Department wise faculty:

Department	Number of faculty positions sanctioned									
	Professors			Assoc. Professors			Assistant Professors			Part-time Contractual Teacher
	Sanctioned	Filled	Vacant	Sanctioned	Filled	Vacant	Sanctioned	Filled	Vacant	
1. Agricultural Economics							02	00	02	
2. Agricultural Extension & Communication				01	0	01	03	00	03	02
3. Agronomy				01	-	01	04	01	03	
4. Entomology							02	-	02	01
5. Horticulture							01	00	-	01
6. Plant Breeding							01	-	01	
7. Plant Pathology							01	-	01	01
8. Soil Science and Agricultural				01	-	01	02	-	02	01
9. Plant Physiology				01	-	01	01	01	-	
10. Agril. Statistics							01	00	-	
11. Veterinary Sc.	01	-	0				01	-	01	
12. A.H. & Dairy							01	-	01	
13. Agril. Engineering							01	-	01	
14. Physics							01	-	01	
15. English							01	-	01	
16. Librarian							01	-	01	
17. PTI							01	-	01	01
Total	**01**	**-**	**0**	**04**	**0**	**04**	**25**	**02**	**23**	**07**

Present profile of faculty is not sufficient. However, the college is engaging contractual,guest faculties and pooled services of faculties, from AICRPs.

Research and Extension

Department	Pr. Scientist	Sr. Scientist	Scientist	S.T.O.
1. Agricultural Economics				
2. Agricultural Extension & Communication				
3. Agronomy		02*	02	
4. Entomology		01*	-	-
5. Horticulture			01	
6. Plant Breeding	01	01	01	01
7. Plant Pathology		02*	-	-
8. Soil Science and Agricultural Chemistry		02*	-	-
9. Plant Physiology			01	
10. Livestock Prod. & Management.				
11. Agril. Engineering			01	01

***Prometed as principal Scientist under CAS**

6.5.2.3. Credentials of the Faculty

SN	Name of Faculty	Highest Qualification	Experience (Years)*			Honours/ Awards/ Distinction
			T	R	E	
1	Dr. S. R. Ramgiri	PhD	20	14	10	01
2	Dr. D. R. Saxena	PhD	20	33	14	05
3	Dr. (Mrs.) Moly Saxena	PhD	22	33	12	05
4	Dr. S.C. Gupta	PhD	29	33	23	10
5	Dr. R.C. Jain	PhD	30	33	33	26
6	Dr. S.A. Ali	PhD	25	35	35	Nil
7	Dr. R.K. Jaiswal	PhD	14	32	32	04
8	Dr. G.K. Nema	PhD	20	32	22	02
9	Dr. B.K. Sharma	PhD	05	03	05	01
10	Dr. H.D.Verma	PhD	19	28	38	Nil
11	Dr. M.D.Vyas	PhD	33	33	33	Nil
12	Dr. R.P.Singh	PhD	32	31	28	4
13	Dr.M.Yasin	PhD	32	32	32	2
14	Dr. Lekhram	PhD	14	14	-	Nil
15	Dr.A.K.Saxena	PhD	30	30	30	1
16	Dr.(Mrs)Nanda Khandwe	PhD	36	36	36	NIl
17	Dr. A.K. Choudhary	PhD	13	8	13	Nil
18	Dr. K.N.Pathak	PhD	15	23	23	2
19	Dr. P.S.Raghuwanshi	PhD	17	19	19	Nil
20	Dr. D.K.Raidas	Ph.D., NET	14	04	-	02
21	Dr. Balram Baraiya	PhD	14	10	14	Nil
22	Er. S.S.Kushwaha	M.Tech Eng.	33	33	33	Nil

Faculty Award

Details of faculty award received during year 2016-21

- Dr.M.Yasin Principal Scientist AICRP on Chickpea awarded best scientist of the RVSKVV during 2019
- DR.A.K.Saxena Senior Technical Officer awarded Best Technical Officer of the RVSKVV in 2019.
- Dr. S.C.Gupta-Received ISPRD Recognition Award 2017 by -IIPR for outstanding contribution in the field of National Resource Management in Chickpea (pulses) in the National Symposium on Pulses for Nutritional Security and Agricultural Sustainability held at Kanpur on 2nd Dec. 2017.
- Certificate of honor award given to Dr. R.C.Jain by District collector Sehore (M.P.) for book publication and Bharat Shiksha Ratna award in 2018.
- Dr.R.C.Jain received International award for outstanding research given by ARTBA-2019
- Dr.R.C.Jain was winner of Radhakrishnan award and sister Nivedita award in 2016 for best research presentation awarded by Indian Institute of Oriental Heritage, Kolkata.

6.5.2.4. Technical and Supporting Staff

S.No.	Name of the Post	No. of Post	Actual Filled
1.	Steno	01	01
2.	Jr. Computer	01	-
3.	Farm Manager	-	-
4.	Agril. Ext. Officer	01	01
5.	Mechanic	01	-
6.	Black Smith	01	-
7.	Carpenter	01	01
8.	Electrician	01	-
9.	DK/Field Man/ FEO	04	02
10.	Tractor Driver	01	-
11.	Jeep Driver	02	0
12.	Pump Driver	01	-
13.	Lab Technician	09	04
14.	Lab Attendant	11	02
15.	Librarian	01	-
16.	Library Shorter	01	-
17.	P.T.I.	01	-
18.	Compounder	01	-
19.	Sub Engineer (Civil)	01	01

6.5.3. Learning resources

6.5.3.1 College Library (digital)

College is using learning recourses like texts, software and other ICT enabledmaterial usefulfor the students. The WiFi facilities available in the library. **Location of the Library** – College Library is located inthe college building, Collegeof Agriculture, Sehore.

Staff Position in library

Name of Post	Sanctioned	Filled	Vacant
Librarian	01	-	01
Library shorter	01	-	01

Books and Other Material: Year wise collection:

Number of documents added in library during the period from 2016 – 2021

Year	Books	Book bank	Back volumes	E-Books	Total
2016-17	2630	Nil	Nil	Nil	2630
2017-18	1434	Nil	06	Nil	1434
2018-19	768	Nil	Nil	Nil	768
2019-20	1642	Nil	Nil	Nil	1642
2020-21	184	Nil	Nil	28	184
	6658	-	06	-	6658

Year Wise Visitors in Library

Year	Visitors of Library
2016-17	**638**
2017-18	**680**
2018-19	**647**
2019-20	**387**
2020-21	Due to Covid-19 ockdown period
Total	**2352**

Services Available:

Traditional- Library provides traditional services under the following categories

S.no	Description	Remarks
1.	Books for reading	46249 Books Available
2.	Reference service	3430Books Available
3.	Reading hall	Available
4.	Photocopy facility	Available

Online – Library provides online services under the following categories.

S.no	Description	Remarks
1.	Issue and return with help of KOHA	No
2.	Internet facility for searching the information	Yes
3.	E-resources are available in the e-books, e-journals, e-course etc .	28
5.	OPAC (Online Public Access Catalogue) (http://Coanopac.firstray.in/)	NO
6.	Online e-journals/virtual e-journals (J-gate) (http://www.jgate.in)	Yes
7.	E – Courses (e – *Krishishiksha*) (http://ecourses.iasri.res.in/)	Yes

Number of Computers/Photocopy machine/Wi Fi in library

S.no	Item .NO	Remarks
1.	Computers	03
2.	Laptop	-
3.	Photocopy machine	01
4.	Wi Fi	Yes
5.	Reading hall	College Library has one reading hall having a seating capacity of **50** students.
6.	Opening Hours	**10.30 AM To 5.30 PM**
8.	Stocking Management	D.D.C.

6.5.3.2. Laboratories, Instructional farm, Workshops, Dairy, Pondsetc.

Number and area of laboratories available in different division

SN	Name of the laboratory (Department wise)	Space (Area) Sq. mt	Specialty to conduct practical / hands on training
1.	Agricultural Economics	44	25 to 30 students are accommodated in laboratory
2.	Agricultural Extension &communication	46	
3.	Agronomy	176	
4.	Entomology	192	
5.	Horticulture	108	
6.	Plant Breeding	182	
7.	Plant Pathology	156	
8.	Soil Science and Agricultural Chemistry	198	
9.	Plant Physiology	144	
10.	ARIS Cell	120	
11.	Agril. Engineering	154	

Farmland (hectare) available

SN	Area (ha)
Total land	147
Land in Possession	147
Irrigated Land	18
Rainfed	72
Land Under Buildings/ Roads/ Play Ground/ Hills	57

Buildings and Infrastructures available

Facility	Area (sq. mt.)
Academic buildings	-
Boys Hostel-1	616
Boys Hostel-2	628
Girls Hostel	565.11

Institutional area available

S.No	Particulars	Availability	
		No. of Unit	Plinth Area (Sq.m.)
1.	Administrative offices	-	11000
2.	Classrooms	4	130 each
3.	Laboratory	11	144 each
4.	Library	1	105
5.	Housing for faculty	-	750000
6.	Boy's hostel	02	616+628
7.	Girls Hostel/ teachers home	01	565.11
8.	Sports complex	01	944
9.	Guest House	01	126
10.	Canteen	01	50
11.	Health clinics	01	96
12.	Workshops	01	955
13.	Examination Hall	01	364
14.	College Store	01	48
15.	Krishak Bhavan	01	338
16.	Trainees Hostel	01	346

FARM POWER, MACHINERIES AND IRRIGATION FACILITIES

The College has farm power, machineries *viz.*, Reversible Mould-Bold Plough,Rotary Tiller (Rotavator), Cultivator, Ridger, Tractor, Automatic Seed Drill, Jet sprayer, Ridged bed planter, Power harrow, Reaper for day to day work.

Table: 34. Irrigation infrastructure facilities

Total cultivable land	**90**
Irrigated land	**18**
Lift Irrigation	**72**
No. of wells	**3**
Area under well irrigation	**10**
No. of bore wells	**4**

Dairy unit: The college has dairy unit for instruction purpose. There are 70 animals, average milk production 35 lit./ day.

6.5.3.3. Student READY/ In-Plant Training / Internship /Experiential Learning Programmes:

Students READY and Experiential Learning Programmes:

Year 2016-17

NAME OF ELP: COMMERCIAL VEGETABLE PRODUCTION TECHNOLOGY

No. of Student: 92

S. No.	No. of student	Work assignment	Output
1.	Batch =A (No. of stu. 20)	Commercial cultivation of Okra	Knowledge and skill gained by students about growing and commercial cultivation of b Okra crop in open condition. Rs.510/-
2.	Batch=B (No. of stu. 20)	Commercial cultivation of Bottle gourd	Knowledge and skill gained by students about Commercial Cultivation of Bottle gourd crop. Rs.1400/-
3.	Batch=C (No. of stu. 20)	Commercial cultivation of Bitter gourd	Knowledge and skill gained by students about Cultivation of Bitter gourd Rs.- 1050/-
4	Batch=D (No. of stu. 20)	Commercial cultivation of Cucumber	Knowledge and skill gained by students about Cultivation of cucumber Rs.1900/-
5	Batch=E (No. of stu. 12)	Commercial cultivation of sponge gourd	Knowledge and skill gained by students about Cultivation of sponge gourd Total Produce: 6 quintal Rs.- 1900/-
			Total output=6940

Year 2017-18

NAME OF ELP: COMMERCIAL VEGETABLE PRODUCTION TECHNOLOGY

No. of Student: 86

S. No.	No. of student	Work assignment	Output
1.	Batch =A (No. of stu. 15)	Commercial cultivation of coriander	Knowledge and skill gained by students about commercial cultivation of coriander crop in open condition. Rs.1380/-
2.	Batch=B (No. of stu. 20)	Raising of Onion Nursery and Commercial cultivation of onion	Knowledge and skill gained by students about growing of onion seedlings Commercial Cultivation of onion crop. Rs.3030/-
3.	Batch=C (No. of stu. 15)	Commercial cultivation of sponge gourd	Knowledge and skill gained by students about Cultivation of sponge gourd Rs.- 1590/-
4	Batch=D (No. of stu. 15)	Commercial cultivation of Bottle gourd	Knowledge and skill gained by students about Commercial Cultivation of Bottle gourd crop. Rs.1500/-
5	Batch=E (No. of stu. 15)	Raising of cauliflower Nursery Commercial cultivation of cauliflower	Knowledge and skill gained by students about Cultivation of cauliflower Rs.- 1370/-
	Batch=F (No. of stu. 6)	Commercial cultivation of fenugreek	Knowledge and skill gained by students about Commercial Cultivation of fenugreek crop. Rs.1200/-

Year 2018-19

NAME OF ELP: COMMERCIAL VEGETABLE PRODUCTION TECHNOLOGY

No. of Student: 87

S. No.	No. of student	Work assignment	Output
1.	Batch =A (No. of stu. 15)	Raising of tomato Nursery and Commercial cultivation of tomato	Knowledge and skill gained by students about commercial cultivation of tomato crop in open condition. Rs.4000/-
2.	Batch=B (No. of stu. 15)	Raising of Cabbage Nursery Commercial cultivation of Cabbage	Knowledge and skill gained by students about Cultivation of Cabbage crop. Rs.- 3000/-
3.	Batch=C (No. of stu. 15)	Raising of Cauliflower Nursery Commercial Cultivation Of Cauliflower	Knowledge and skill gained by students about Cultivation of Cauliflower Rs.- 2800/-
4	Batch=D (No. of stu. 20)	Raising of Onion Nursery Commercial cultivation of Onion.	Knowledge and skill gained by students about growing of onion seedlings Commercial Cultivation of onion crop. Rs.10300/-
5	Batch=E (No. of stu. 10)	Commercial cultivation of fenugreek	Knowledge and skill gained by students about Commercial Cultivation of fenugreek crop. Rs.12650/-
	Batch=F (No. of stu. 12)	Commercial cultivation of coriander	Knowledge and skill gained by students about Commercial Cultivation coriander Rs. 2400/-
			Total output=35150/-

Year 2019-20

NAME OF ELP MODULE: COMMERCIAL VEGETABLE PRODUCTION TECHNOLOGY

No. of Student: 30

S. No.	No. of student	Work assignment	Output
1.	Batch =A (No. of stu. 5)	Raising of tomato Nursery and Commercial cultivation of tomato	Knowledge and skill gained by students about commercial cultivation of tomato crop in open condition. The work was done on their destination due to covid-19
2.	Batch=B (No. of stu. 5)	Raising of Cabbage Nursery Commercial cultivation of Cabbage	Knowledge and skill gained by students about Cultivation of Cabbage crop. The work was done on their destination due to covid-19
3.	Batch=C (No. of stu. 5)	Raising of Cauliflower Nursery Commercial Cultivation Of Cauliflower	Knowledge and skill gained by students about Cultivation of Cauliflower The work was done on their destination due to covid-19
4	Batch=D (No. of stu. 5)	Raising of Onion Nursery Commercial cultivation of Onion.	Knowledge and skill gained by students about growing of onion seedlings Commercial Cultivation of onion crop. The work was done on their destination due to covid-19
5	Batch=E (No. of stu. 5)	Commercial cultivation of fenugreek	Knowledge and skill gained by students about Commercial Cultivation of fenugreek crop. The work was done on their destination due to covid-19
6.	Batch=F (No. of stu. 5)	Commercial cultivation of coriander	Knowledge and skill gained by students about Commercial Cultivation coriander The work was done on their destination due to covid-19
			Total output=Nil due to covid-19

YEAR 2020-21

NAME OF ELP MODULE: COMMERCIAL VEGETABLE PRODUCTION TECHNOLOGY

No. of Student: 36

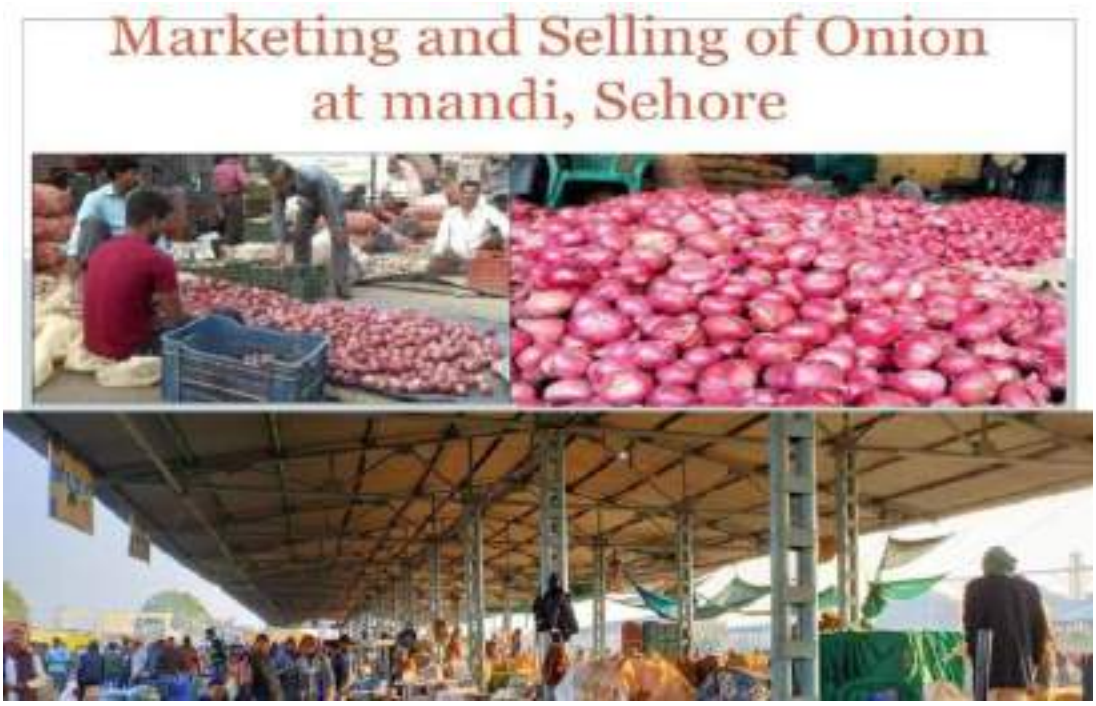
S. No.	No. of student	Work assignment	Output
1.	Batch =A (No. of stu. 6)	Raising of tomato Nursery and Commercial cultivation of tomato	Knowledge and skill gained by students about commercial cultivation of tomato crop in open condition. The work was done on their destination due to covid-19
2.	Batch=B (No. of stu. 6)	Raising of Cabbage Nursery Commercial cultivation of Cabbage	Knowledge and skill gained by students about Cultivation of Cabbage crop. The work was done on their destination due to covid-19
3.	Batch=C (No. of stu. 6)	Raising of Cauliflower Nursery Commercial Cultivation Of Cauliflower	Knowledge and skill gained by students about Cultivation of Cauliflower The work was done on their destination due to covid-19
4	Batch=D (No. of stu. 6)	Raising of Onion Nursery Commercial cultivation of Onion.	Knowledge and skill gained by students about growing of onion seedlings Commercial Cultivation of onion crop. The work was done on their destination due to covid-19
5	Batch=E (No. of stu. 6)	Commercial cultivation of fenugreek	Knowledge and skill gained by students about Commercial Cultivation of fenugreek crop. The work was done on their destination due to covid-19.
6.	Batch=F (No. of stu. 6)	Commercial cultivation of coriander	Knowledge and skill gained by students about Commercial Cultivation coriander. The work was done on their destination due to covid-19.
			Total output=Nil due to covid-19

B. NAME OF ELP MODULE: POST HARVEST MANAGEMENT AND VALUE ADDITION OF FRUITS AND VEGETABLES

No of student: 28

S. No.	No. of student	Work assignment	Output
1.	Batch =A (No. of stu. 10)	Mango and mixed vegetable Pickle making	Knowledge and skill gained by students about mango and mixed vegetable Pickle making. The work was done on their destination due to covid-19
2.	Batch=B (No. of stu. 10)	Jam and jelly making from mixed fruit and Guava respectively.	Knowledge and skill gained by students about Jam and jelly making from mixed fruit and Guava respectively. The work was done on their destination due to covid-19
3.	Batch=C (No. of stu. 8)	Tomato ketchup making	Knowledge and skill gained by students about Tomato ketchup making. The work was done on their destination due to covid-19

Transplanting of vegetable


Marketing and Selling of Onion
at mandi, Sehore

ELP on Mushroom Cultivation

Year 2017-18

S.No.	No. Of students	Work assignment	Out put
1.	47	1. Introduction, importanceof mushroom cultivation.,	1. Students acquired the knowledge of mushroom
		2.Nutritional and medicinal values of mushrooms, identification of edible and poisonous mushrooms	2. students become aware of mushroom health benefits
		3. Preparation of spawn for different mushroom	3.Learened the preparation of different mushroom
		4. Oyster mushroom cultivation technology	4.Learned the substrate preparation and crop management of Oyster mushroom
		5. Milky mushroom cultivation technology	5. Learned the substrate preparation and crop management of milky mushroom
		6. Button mushroom cultivation technology	6. Learned the substrate preparation and crop management of button mushroom
		7. Paddy straw mushroom cultivation technology	7.Learned the substrate preparation and crop management of paddy straw mushroom
		8. Control of insect pests in mushroom house.	8. learned the management of insect pest in mushroom house
		9. Management of diseases of mushrooms.	9.Learned the management of disease.
		10. Use of mushroom in daily life, preparation of mushroom products and preservation,	10.Studied the preparation of different food products and preservation of mushroom

Year 2018-19

S.No.	No. Of students	Work assignment	Out put
2.	80	1. Introduction, importanceof mushroom cultivation.,	1. Students acquired the knowledge of mushroom
		2. Nutritional and medicinal values of mushrooms, identification of edible and poisonous mushrooms	2. Students become aware of mushroom health benefits
		3.Preparation of spawn for different mushroom	3.Learened the preparation of different mushroom
		4. Oyster mushroom cultivation technology	4.Learned the substrate preparation and crop management of Oyster mushroom
		5. Milky mushroom mushroom cultivation technology	5. Learned the substrate preparation and crop management of milky mushroom
		6. Button mushroom cultivation technology	6. Learned the substrate preparation and crop management of button mushroom
		7. Paddy straw mushroom cultivation technology	7.Learned the substrate preparation and crop management of paddy straw mushroom
		8. Control of insect pests in mushroom house.	8. learned the management of insect pest in mushroom house
		9. Management of diseases of mushrooms.	9.Learned the management of disease.
		10. Use of mushroom in daily life, preparation of mushroom products and preservation,	10.Studied the preparation of different food products and preservation of mushroom

2019-20

S.No.	No. Of students	Work assignment	Out put
3.	11	1. Introduction, importanceof mushroom cultivation.,	1. All the Students

		2.Nutritional and medicinal values of mushrooms, identification of edible and poisonous mushrooms 3.Preparation of spawn for different mushroom and spawn unit 4. Technology of oyster mushroom 5. Technology of button mushroom production. 6. Technology of paddy straw mushroom production. 7. Technology of milky mushroom 8. diseases and pest management of mushrooms production. 9. Harvesting and post-harvest technology of mushrooms. 10. Use of mushroom in value addition of food products, 11. Marketing of mushrooms. 12. Round the year cultivation of mushroom	submitted the assignments on assigned topics.

2020-21			
S.No.	No. Of students	Work assignment	Out put
4.	19	Assignments on – 1. Introduction, importanceof mushroom cultivation. 2.Nutritional and medicinal values of mushrooms, identification of edible and poisonous mushrooms 3.Preparation of spawn for different mushroom and spawn unit 4. Technology of oyster mushroom 5. Technology of button mushroom production. 6. Technology of paddy straw mushroom production. 7.Technology of milky mushroom 8. diseases and pest management of mushrooms production. 9. Harvesting and post-harvest technology of mushrooms. 10. Use of mushroom in value addition of food products, 11. Marketing of mushrooms. 12. Round the year cultivation of mushroom	1. All the Students submitted the assignments on assigned topics

ELP: Processing of fruits and vegetables for value addition (II Semester Only)

Year: 2019-20

S.No.	No. of Students	Work assignment	Output
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	10 Surabhi Patel Karishma Lodhi Deepika Nagar Damini Parashar Poornima Sharma Riya Rathore Rinki Rai Manisha Mahoviya Aarti Ganava Megha Parmar	Preparation of Value added products of Aonla Aonla Murabba Aonla Supari Aonla Candy Aonla Ladoo Aonla Vinegar	Rs. 6000/-
		Preparation of Pickles Lemon Pickle Turmeric Pickle Zimikand Pickle Ginger Pickle Chilli Pickle Mix Veg Pickle	
		Preparation of RTS, Nectar, Lemon Squash	
		Preparation of fruit Pulp	
		Preparation of Mix fruit leather	
		Preparation of Mix fruit Jam	
		Preparation of Guava Jelly	
		Preparation of Karonda Candy	
		Preparation of Potato Chips	
		Preparation of Garlic Powder	
		Packaging of all types of processed Products	

The student READY Programme was implemented w.e.f. 2017-18 as per V Dean's Committeesyllabus.

Table: 35. List of experiential learning module 2017-18

S.No	Title of the EL Unit	No. of Student	Nodal Person (Name, Designation, E-mail, Mobile)	Income Generated so far (Rs. in thousand)	Current status (Working/ Non Working*)
1	Commercial Vegetable Production	87	Dr. S.A. Ali Pr. Scientist (Horticulture)	0.17	Working
2	Mushroom Cultivation and Value Addition	39	Dr Moly saxena, Pr. Scientist (Plant pathology)	-----	Working

List of experiential learning module2018-19

S.No	Title of the EL Unit	No. of Student	Nodal Person (Name, Designation, E-mail, Mobile)	Income Generated so far (Rs. in Lakhs)	Current status (Working/ Non Working*)
1	Commercial Vegetable Production	80	Dr. S.A. Ali Pr. Scientist (Horticulture)	0.35	Working
	Mushroom Cultivation and Value Addition	80	Dr Moly saxena, Pr. Scientist (Plant pathology)	-----	Working

List of experiential learning module2019-20

S.No	Title of the EL Unit	No. of Student	Nodal Person (Name, Designation, E-mail, Mobile)	Income Generated so far (Rs. in Lakhs)	Current status (Working/ Non Working*)
1	Mushroom Cultivation and Value Addition	11	Dr Moly saxena, Pr. Scientist (Plant pathology)	-----	Working
2	Commercial Vegetable Production	30	Dr. S.A. Ali Pr. Scientist (Horticulture)	-	Working
3	Post harvest management of fruits and vegetable	10	Dr. Shalini Chkroborti, Scientist (Home Science)	-	Working

List of experiential learning module2020-21

S.No	Title of the EL Unit	No. of Student	Nodal Person (Name, Designation, E-mail, Mobile)	Income Generated so far (Rs. in Lakhs)	Current status (Working/ Non Working*)
1	Mushroom Cultivation and Value Addition	19	Dr Moly saxena, Pr. Scientist (Plant pathology)	-----	Working
2	Commercial Vegetable Production	36	Dr. S.A. Ali Pr. Scientist (Horticulture)	-	Working
3	Post harvest management of fruits and vegetable	28	Dr. Shalini Chkroborti, Scientist (Home Science)	-	Working

2. **Educational tour:**8-10 days duration education tour was arranged between semesterbreak of VII and VIII semester.

Visit of Masroom Research Instidute

Visit of Organic Farming Field, Agriculture University Palanpure

Visite of CPRI field Kufri

3. **Exposure visit:** 2 days duration exposure visits was arranged for VIII semesterstudents.

6.5.3.4. Curricula delivery through IT (smart class rooms/interactive board etc.): Yes

This college uses4 UG class rooms and class rooms in each department for PG teaching. Projectors in each class room are available During thelast five years, most facultieshave developed ICT enabled teaching material and practicalmanuals. College has audiovisualteaching aid facility,Practical/project work centred courseshave been developed. The Institute gives dueweight age to the innovative teaching method developed byfaculties'.

Course	Practical	Useof ICTApplication
B.Sc. (Ag.) Agriculture	HRT 111 EVS 111 SAC 111 EVS 112 ENG 111 AGR 111 EVS112 GPB 121 EVS 122 AEG 111 EVS 121 PPT121 ENT121 EXT 121 EXT 122 AGR 211 GPB 211 AEC 211 AST 211 AEG 211 HRT 211 EVS 211 AST 212 LPM 211 AGR 221 HRT 221 AEG 211 HRT 222 GPB 221	LCD has been installed in each Lecture Room of the college and 03 Lecture rooms have been converted into smart classrooms. PPT, YouTube, CD ROM, Websites, Email, GoogleDrive, virtual teaching webinar etc. are being brought in use.

	AEC 221 AGR 223 GPB 222
	PPT 312 SAC 311 ENT 311 PPT 311 GPB 311 EXT 311 AGR 312 AGR311 SAC312
	AGR 323 AEG 321 PPT 321 HRT 321 ENT 321 GPB 321 AGR 321 AGR 322 AEC 321 AGR 324

6.5.4. Student Development

The College through the educational efforts for the Student's Developmentaims at fostering and nurturing theintellect and character of students by integrating in-class and co-curricular experiences. In order toaccomplish this, a wide range of educational experiences throughprograms and activities that complement and support the academic experience in theclassroom is provided by the college.

Experiential Learning Programme is imparted to the Final Year students of the college.The students are required to work in the college on full time basis to understand the needof the module and acquire the latest practical knowledge pertinent to the topic of his/her interest.

Exposure about the latest information is provided to the students to develop them intellectually byorganizing lectures by the national / international experts in the respective fields. Fieldvisit/ industrial visit and tour are also organized by the college from time to time to makethem aware of the latest trends in the market. Students are also encouraged to participatein the national / international seminars and conference to interact with the experts in therespective fields.

6.5.4.1. Student Intake

Class	Students Intake				
	2016-17	2017-18	2018-19	2019-20	2020-21
B.Sc. (Ag)	**83**	**83**	**83**	**83**	**83**
Post Graduate					
Agronomy	8	12	12	12	12
Agril. Eco.& FM	8	8	8	8	8
Entomology	8	12	12	12	12
Extn. Education	8	12	12	12	12
Horticulture	8	12	12	12	12
Plant Breeding &Genetics	8	12	12	12	12
Plant Pathology	8	12	12	12	12
Soil science& Agril. Chemistry	8	**12**	**12**	**12**	**12**

Under Graduate B.Sc. (Hort.) Students admitted

Year	Allocation of Seats		Boys	Girls	Total
2016-17	**Roster**				
	Free Seats	Gen.	20	10	**30**
		ST	9	4	**13**
		SC	6	3	9
		OBC	6	2	8
	Payment Seats				12
	NRI Seats				2
	Nominee/Fellow	ICAR			9
	Total		41	19	83
2017-2018	**Allocation of Seats**		**Boys**	**Girls**	**Total**
	Roster				
	Free Seats	Gen.	20	10	**30**
		ST	9	4	**13**
		SC	6	3	9
		OBC	6	2	8
	Payment Seats				12
	NRI Seats				2
	Nominee/Fellow	ICAR			9
	Total		41	19	83
2018-19	**Allocation of Seats**		**Boys**	**Girls**	**Total**
	Roster				
	Free Seats	Gen.	20	10	**30**
		ST	9	4	**13**
		SC	6	3	9
		OBC	6	2	8
	Payment Seats				12
	NRI Seats				2
	Nominee/Fellow	ICAR			9
	Total		41	19	83
2019-20	**Allocation of Seats**		**Boys**	**Girls**	**Total**
	Roster				
	Free Seats	Gen.	20	10	**30**
		ST	9	4	**13**
		SC	6	3	9
		OBC	6	2	8
	Payment Seats				12
	NRI Seats				2
	Nominee/Fellow	ICAR			9
	Total		41	19	83

2020-21	Allocation of Seats Roster		Boys	Girls	Total
	Free Seats	Gen.	20	10	**30**
		ST	9	4	**13**
		SC	6	3	9
		OBC	6	2	8
	Payment Seats				12
	NRI Seats				2
	Nominee/Fellow	ICAR			9
	Total		41	19	83

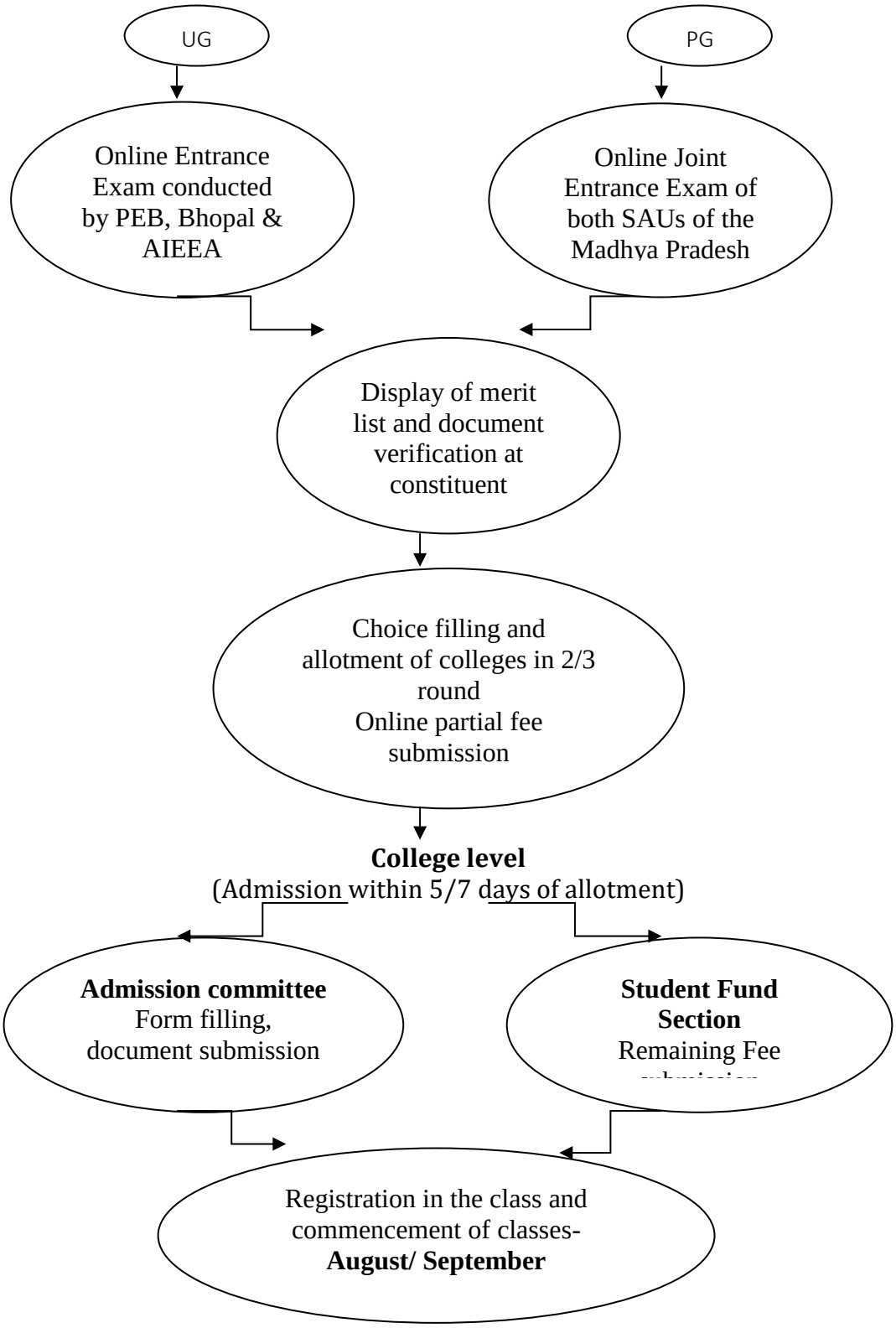
6.5.4.2. Average Number of Students in Theory and PracticalClasses

S. No.	Name of the Degree Programme	Total intake/years	Batch of Students in Theory Class	Batch of Students in Practical Class
1	**B. Sc. (Ag)**	**83/2016-17**	**83**	**30**
		83/2017-18	**83**	**30**
		83/2018-19	**83**	**30**
		83/2019-20	**83**	**30**
		83/2020-21	**83**	**30**
	Post Graduate			
1	Agronomy	**8/2016-17**	**8**	**8**
		12/2017-18	**12**	**12**
		12/2018-19	**12**	**12**
		12/2019-20	**12**	**12**
		12/2020-21	**12**	**12**
2	Agril. Eco.& FM	**8/2016-17**	**8**	**8**
		8/2017-18	**8**	**8**
		8/2018-19	**8**	**8**
		8/2019-20	**8**	**8**
		8/2020-21	**8**	**8**
3	Entomology	**8/2016-17**	**8**	**8**
		12/2017-18	**12**	**12**
		12/2018-19	**12**	**12**
		12/2019-20	**12**	**12**
		12/2020-21	**12**	**12**
4	Extn. Education	**8/2016-17**	**8**	**8**
		12/2017-18	**12**	**12**
		12/2018-19	**12**	**12**
		12/2019-20	**12**	**12**
		12/2020-21	**12**	**12**

5	Horticulture	**8/2016-17**	**8**	**8**
		12/2017-18	**12**	**12**
		12/2018-19	**12**	**12**
		12/2019-20	**12**	**12**
		12/2020-21	**12**	**12**
6	Plant Breeding &Genetics	**8/2016-17**	**8**	**8**
		12/2017-18	**12**	**12**
		12/2018-19	**12**	**12**
		12/2019-20	**12**	**12**
		12/2020-21	**12**	**12**
7	Plant Pathology	**8/2016-17**	**8**	**8**
		12/2017-18	**12**	**12**
		12/2018-19	**12**	**12**
		12/2019-20	**12**	**12**
		12/2020-21	**12**	**12**
8	Soil science& Agril. Chemistry	**8/2016-17**	**8**	**8**
		12/2017-18	**12**	**12**
		12/2018-19	**12**	**12**
		12/2019-20	**12**	**12**
		12/2020-21	**12**	**12**

6.5.4.3. Admission Process

Admission Process for UG/ PG programme



6.5.4.4. Conduct of Practical and Hands on Training

Agronomy

Charts/specimens of tools and implements, actual seed, weed and crop identification, different methods of sowing, irrigation layouts, live models of pressurized irrigation systems, agro-meteorological instruments, methods of fertilizer application and methods of weed management.

Plant Phsiology

Experiments on photosynthesis, respiration, transpiration, estimation of chlorophyll content and growth are demonstrated.

Agricultural Economics

Estimation of cost of cultivation of Crops, depreciation of farm assets, net worth and income statements, financial test ratios, break even analysis of project

Agricultural Engineering

Surveying and leveling; Farm Machinery and power practical‟s are conducted through cut models of different systems of IC engine and tractor. Protected cultivation; Post harvest Technology.

Agricultural Entomology

Insect morphology and anatomy; classification and identification of distinct insect pest, pest management strategies, collection and extraction of plant parasitic nematodes.

Agricultural Extension:

Communication skills, preparation of bulletin, pamphlet, booklet; preparation of news, radio talk; channels for effective dissemination of agricultural information.

Horticulture

Propagation methods e.g.Cutting, layering, budding and grafting and crop maximization practices like bending, notching, ringing and girdling, training and pruning. Production Technology of Vegetables and Flower Crops: Maximization of vegetable yield by *viz*., staking, turning, blanching, earthing up. Maximization of flower yield and quality by pinching, disbudding, pruning, bending. Vegetable Production: Production and marketing of various vegetables *viz*., tomato, brinjal, onion, cabbage, cauliflower, broccoli, lettuce, garlic and exotics. Preparation of value added products.

Plant Pathology

Isolation and identification of plant diseases, disease diagnosis of field as well as horticultural crops.Isolation and identification of different beneficial microbes including bio fertilizer, bio agents, mushroom etc.

Soil Science and Agricultural Chemistry

Physical, chemical and biological properties of soils ; recommendation for improving the soil quality, health and crop sustainability and plant analisys parameter.

Hands on Training

The agro-industries visited comprise of fruit processing, cold storage, post harvest and marketing management (sorting, grading, packing), poultry (layer, broiler and indigenous breeds), poultry feed, dairy (co-operative and private), agro-service center, etc.

6.5.4.5. Examination and Evaluation Process

System of Education:

Sr. of	Name of degree programme	Examinationpattern (External/Internal)			Evaluationprocess (External/Internal)					
		Theory	Practical	Viva-voce	Theory	Practical	Comprehensive written	Comprehensiveoral	Thesisevalua-tion	Thesis Viva-voce
1.	UG	External	Internal	Internal	External	Internal	-	-	-	-
2.	PG	External	Internal	Internal	External	Internal	-	-	-	-

UG OGPA	Division
5 to 6.5	2nd class
6.5 andabove	1st class

PG OGPA	Division
6 to 6.5	2nd class
6.5 andabove	1st class

UG Programme - ACADEMIC YEAR/SESSION

- The academic Year /Session means two semesters during which a cycle of educational work is completed. It shall commence as per the Academic Calendar/ Semester schedule notified by the Vishwa Vidyalaya (V.V.) from time to time.
- Each semester shall consist of minimum 110 working days. At least 80% of the scheduled classes must be held in a semester
- The candidates admitted for UG degree programme will have to complete **Student READY** (Rural and Entrepreneurship Awareness Development Yojana) programme during VII & VIII semester as per the 'V' Deans Committee Recommendations.Mode of Implementation:- Experiential Learning/Hands on Training , Skill Development Training, RAWE, In Plant Training/ Industrial attachment, Students Projects.

ATTENDANCE REQUIRMENTS

- Student are expected to attend all lectures and laboratory/field practical scheduled during a semester. Attendance of a student in a course should be at least 75% of the scheduled classes in a semester, failing which he/she will be debarred from appearing in final examination .For this purpose attendance in theory and practical classes will be counted separately.

CREDIT, CURRICULUM AND PROGRAMME OF STUDY

- Credit means contact time per week devoted by a student in class, laboratory, fieldwork, and library, etc. Accordingly, credits for a course are distributed in theory and practical separately. Normally, 1 Credit means 60 minutes contact time per week in case of theory and 120 minutes per week in case of practical.
- Course means a series of classes and work experience extended over semester.
- The students admitted in the Vishwa Vidyalaya (V.V.) shall be required to follow the course curriculum as prescribed from time to time.

The residential requirement and maximum period for degree programmes in terms of number of semesters shall be as below

Degree Programme	Residential Requirement (Semester)	Maximum period (Semester)
B.Sc. (Ag.)	8	12

Provided that, if a student has acquired the status of final year class and could not passthe prescribed courses within the maximum stipulated period laid down in the clause above, the respective Dean of Faculty after scrutiny of the case on merit and subject to good conduct of the student can extend the period for 2 semesters only.Further extension of the period for 2 more semesters may be permitted by the Vice Chancellor only on convincing grounds.

MEDIUM OF INSTRUCTION

The medium of instruction in all Colleges will be English but the teacher may explain the subject matter to the students in Hindi also. However the examinees in the faculty of Agriculture will have the option to answer questions either in English or in mixed language.

EXAMINATION AND EVALUATION

- The academic performance of the student shall be assessed through theory and practical examinations conducted during an academic session.
- Total marks assigned to a course will be 100. It will be distributed as given below.

Midterm Examination	30/40
Theory Assignment	10 (Only theory course)
Practical Examination	15/ 100 (Only practical course)
Practical Assignment	5
Theory Examination	50

A. Pattern of Midterm Examination:

1. It shall be of 30 marks for the courses with practical and theory both.
2. It shall be of 40 marks for the courses with theory only.
3. No midterm examination for the courses with practical only.
4. Maximum time for examination shall be 1 hour.
5. **(a)** Midterm examination (Theory & Practical) – Max. 30 marks
   - (i) Objective type 50% (15 questions of multiple choice and / or fill in the blank type only)
   - (ii) Short answer type 50% (5 questions of 3 marks)

   (b) Midterm examination (Theory only) – Max- 40 marks
   - (i) Objective type 50% (20 questions of multiple choice and / or fill in the blank type only)
   - (ii) Short answer type 50% (5 questions of 4 marks)
6. The portion for midterm examination shall be 50% of the proposed course curriculum.
7. Midterm examination shall be conducted as per academic calendar notified by the VV.

B. Pattern of Assignment Examination:

1. The objective is to prepare the notes.
2. Assignments for each topic of the syllabus will be allotted to the students. Topics will be decided at **H.O.D.** level.
3. Course teachers will guide the students for assignment preparation.
4. 50% marks for quality of write-up and 50% marks for preparation.
5. It shall be **5 marks** for the course with practical and theory both and **10 marks** in case of course with theory only.
6. Instructor shall assign separate topic related to subject for assignment to group of students at the start of session.
7. For the course with theory and practical both assignment shall be practical oriented and student must submit the assignment **on the day of practical examination**. It has to be evaluated by the external examiner.
8. For the course with **theory only**, assignment has to be submitted by the student **at least one month** before final examination.
9. The result of assignment has to be submitted **15 days prior to final examination** for the courses with theory only; whereas, for the courses with theory and practical both should be submitted with the result of practical examination.

C. Pattern of Practical examination:

1.It shall be of **15 marks** for the course with practical and theory both and **100** for the course with practical only.

2.Maximum time for practical examination shall be **2 hours** for the courses with practical and theory both and **3 hours** for the courses with practical only.

3.The following examination pattern shall be adopted for **100 and 15 marks** practical.

S. No.	Particulars	Practical for 100 marks	Practical for 15 marks
a.	Exercise-I	30 marks	4 marks
b.	Exercise-II	20 marks	3 marks
c.	Exercise-III	20 marks	3 marks
d.	*Viva-voce*	20 marks	3 marks
e.	Practical record	10 marks	2 marks
Total:		**100 marks**	**15 marks**

4. One external examiner shall be appointed by the professor & Head for each practical examination. Question paper of examination and Viva-voce are the responsibility of internal and external examiner.

5. Marks shall be submitted by internal with the signature of external within THREE DAYS after completion of practical examination.

6. Date of examination shall be same at Vishwa Vidyalaya level as per the academic calendar.

D. Pattern of Final Theory Examination:

1. Question paper shall be prepared by the external examiner.
2. It shall be of **50 marks**.
3. Maximum time for the examination shall be **3 hours**.
4. **Part A**: It is a compulsory part of **10 marks** with five question (Without any option) short answer type question.
5. **Part B** : It consists of **Six questions** containing **10 marks each**. Out of six questions student shall attempt **four** questions only.
6. In multi-disciplinary courses, the question paper will be divided into Unit I and Unit II. The part A will consists 5 question of one mark each in both the units. Part B will

becomprised of three questions of 10 marks in each unit and the student has to attempt any tow questions from each unit. Separate answer books for each unit will be provided to the examiners.

E. Evaluation:

1. Evaluation shall be internal by course instructor of other college.
2. Student shall pass theory and practical examination separately.
3. To pass theory examination student shall score 50% marks i.e. Midterm + Assignment + Final (in the courses without practical)
4. To pass practical examination student shall score 50% marks i.e. Practical + Assignment or Practical only.

Relative weightage to the various examinationsconductedClass-work and records maintained during a semesterExamination Weightage (%)

Credit	Midterm	Theory Assignment	Final theory	Practical	Practical Assignment	Total
3(2+1)	30	-	50	15	5	100
2(2+0)	40	10	50	-	-	100
1(0+1)	-	-	-	100	-	100

Grading and declaration of class

Stages for declaration of classes for UG programme

The minimum passing marks in theory or practical shall be 50%. If a student fails to obtain 50% marks either in theory or practical or both examinations, he/she shall be deemed to have failed in theory or practical or both respectively and shall have to reappear in the theory or practical examination as the case may be. Marks secured by a student will be converted into Overall Grade Point Average (OGPA) on 10 point scale.

Grading as per Vth Dean Committee report

Overall Grade Point Average (O.G.P.A.)	5.000 To 5.999	6.000 To 6.999	7.000 To 7.999	8.000 and above
Division	Pass	Second	First	First with Distinction

System of Education:

PG Programme - ACADEMIC YEAR/SESSION

The residential requirement and maximum period for Post degree programmes in terms of number of semesters shall be as below

Degree Programme	Residential Requirement (Semester)	Maximum period (Semester)
M.Sc. (Ag.)	4	8

ATTENDANCE REQUIRMENTS

- Student are expected to attend all lectures and laboratory/field practical's scheduled during a semester. Attendance of a student in a course should be at least 75% of the scheduled classes in a semester, failing which he/she will be debarred from appearing in final examination .For this purpose attendance in theory and practical classes will be counted separately.

EXAMINATION AND EVALUATION

- The academic performance of the student shall be assessed through theory and practical examinations conducted during an academic session.
- Mid- term examinations conducted at college level by the Associate Dean consist of the theory paper of one-hour duration. The semester end theory and practical examinations are of minimum of 3 hours duration.

Total marks assigned to a course will be 150. It will be distributed as given below.

Mid-term examination	20
Practical examination	50
Final theory examination	80
One credit is equal	50 marks

REQUIREMENT FOR THE AWARD OF DEGREE

In order to become eligible for Master degree programme, a student should have passed a minimum credit load of course work, comprehensive examination and research work with a minimum OGPA under 10 point scale as per details below:

Min credit load	Thesis credits	Min OGPA
35	20	6.50

For Master programme minimum passing marks in theory and practical is 60%, but the student has to obtain minimum 6.50 grade for passing in a course.

Requirement of comprehensive examination

- A candidate admitted to Master degree programme must pass a written comprehensive examination covering entire courses of major and minor fields of studies. He/she would be eligible for taking comprehensive examination provided:
  a. Has pursued his/her studies at least for two semesters.
  b. He/she has completed 75% course work separately in major and minor fields.

6.5.4.6.NCC/NSS/RVC Units

NSS

The National Service Scheme (NSS) is a voluntary organization which provides social awareness toward social works in rural and urban people. NSS was started by Govt. of India in 1969. One unit is active in college through Barkatullah university, Bhopal. NSS conducts two types of activities in colleges, Regular & Special camp

Regular activity includes, Plantation program, Gajar Ghas eradicaation, Blood donation, Nasha Mukti programm, NSS Day celebration voter ID awareness, malnutrition day (Kuposhan Diwas), Pals polio Abhiyan, Matdata Jagrukta awareness AIDS awareness, Beti Bachaw Beti Padhaw awareness, Energy Save, and Red Ribbon Club Activities,

etc., Special Camps conduct by College unit include seven days camp in rural areas and work done by volunteers like social work, awareness march and nukkad nataks and relly etc. and B and C examination conduct by NSS unit now present time 132 students of UG is register in NSS activities.

Years	Regular Activities	NSS Camp Attend by students & Pass in NSS "B" and "C" Certificate examination					
		Unit Camp	District Camp	State Camp	National Camp	Students Passed in "B" cert. Exam.	Students Passed in "C" cert. Exam
2016-17	Swachhata Awarness programe, Blood Donate Program, Aids Day, Matdata Awarness program, Red ribben club Activity (Aids Awareness Program), Beti Bachaw, Beti Padaw Relly	58	23	01	-	35	05

Swachhata Awarness programe

Years	Regular Activities	NSS Camp Attend by students & Pass in NSS "B" and "C" Certificate examination					
		Unit Camp	District Camp	State Camp	National Camp	Students Passed in "B" cert. Exam.	Students Passed in "C" cert. Exam
2017-18	Blood Donation Program by students, Celebration of Yog Diwas at College, **Mega a forestation program organized by NSS students,** Sanitation program under Swachhata pakhwada in college campus by NSS students, Madh Nished Awareness program on 02 October by NSS students	55	15	01	01	36	03

Mega a forestation program organized by NSS students

National Integration Camp Led in Kerela by D.K. Raidas , 2017

Years	Regular Activities	NSS Camp Attend by students & Pass in NSS "B" and "C" Certificate examination					
		Unit Camp	District Camp	State Camp	National Camp	Students Passed in "B" cert. Exam.	Students Passed in "C" cert. Exam
2018-19	Blood donation Program by NSS students, Swachchh Bharat Summer Internship Program in Village Jahagirpura, Sehore Madh Nished Awareness program on 02 October by NSS students, celebration of AIDS Day , Red Ribben Club activities	51	23	01	-	37	05
2019-20	Blood donation Program by students, Celebration of Yog Diwas at College, Mega a forestation program organized by NSS students, Sanitation program under Swachhata pakhwada in college campus by NSS students, Madh Nished Awareness program on 02 October by NSS students, Red Ribben Club activities	62	25	01	-	42	03

Swachchh Bharat Summer Internship Program in Village Jahagirpura, Sehore, &Visit By Hon'ble Governor of M.P.

Blood donation Program by students,

Red Ribben Club activities for AIDS Awareness program


haribhoomi.com

खबर संदेश

प्रतियोगिता में तृप्ति ने प्राप्त किया प्रथम स्थान

सीहोर।

Years	Regular Activities	NSS Camp Attend by students & Pass in NSS "B" and "C" Certificate examination					
		Unit Camp	District Camp	State Camp	National Camp	Students Passed in "B" cert. Exam.	Students Passed in "C" cert. Exam
2020-21	Online Social awareness program of Covid-19 by NSS students, Online Social awareness program by NSS students, Celebration of Child protection week, making poster slogan by students Online program of National Youth Day and Red ribben club activities, Online Celebration of Krishi siksha Divas NSS Students	-	-	-	-	41	02

Online Social awareness program of Covid-19 by NSS students

हरिभूमि

23 Nov 2020

सात दिन तक सोशल मीडिया में पोस्ट कर जागरूक किया

हरिभूमि ब्यूरो ▶▶ सीहोर

आरएके कृषि महाविद्यालय द्वारा बाल संरक्षण क्लब के छात्र-छात्राओं द्वारा बाल संरक्षण सप्ताह का आयोजन 16 से 22 नवम्बर 2020 तक किया गया। जिसके अंतर्गत महफूज बाल अधिकार सप्ताह सात दिन सात मुद्दे जिसमे बाल संरक्षण अधिकार, बाल शोषण और बाल विवाह, भिक्षावृत्ति एवं बाल अपराध पर आधारित छात्र छात्राओं द्वारा पोस्टर, रंगोली, स्लोगन, कविताओं के माध्यम से सात दिन तक सोशल मीडिया में पोस्ट कर लोगों को जागरूक किया गया। बाल सप्ताह महफूज के अंतर्गत आज अंतिम दिन आज बाल अधिकार पर गूगल मीट के माध्यम से ऑनलाइन वादविवाद का आयोजन किया गया।

बाल अधिकार जागरूकता के लिए छात्र-छात्राओं द्वारा सोशल मीडिया में पोस्ट किया गया। बाल संरक्षण क्लब के छात्र-छात्राओं बाल संरक्षण सप्ताह के अंतिम दिन छात्र छात्राओं ने शपथ ली।

किसी बच्चे के साथ गलत होता है तो इसकी सूचना तुरंत 1098 पर दे जाये। राष्ट्रीय सेवा योजना कार्यक्रम अधिकारी द्वारा इस अभियान में एनएसएस स्वयंसेवकों की भागीदारी को भी उन्होंने रेखांकित किया। साथ ही उन्हें अपने आसपास रहने वाले बच्चों के प्रति सचेत रहने के लिए कहा।

Celebration of Child protection week, making poster slogan by students

National Cadet Corps

The National Cadet Corps (NCC) is a voluntary organization which gives not only basic military training to cadets but also teach them about social responsibilities and helpful to develop their personality for future. The NCC was formed with National Cadet Corps Act of 1948.It was raised in India on 15 July 1948.With the Motto of NCC, Unity and Discipline, a Army unit was raised in this college in 1980.The unit of 54 cadets(SD) is functioning under 4MP Battalion NCC Bhopal. The aim of NCC has been proved by our cadets since its establishment in the college. The Cadets have been getting "B" & "C" certificates after passing their respective exams

S.No	Years	Total student enrolled	B Certificate	C Certificate
1	2016-17	53	22	10
2	2017-18	54	20	10
3	2018-19	54	21	13
4	2019-20	48	13	8

2016-17 : CAMPS ATTENDED BY THE CADETS

Name of Camp attended	Venue	No. of cadet
Combined Annual Training Camp	Bhopal(M.P.)	30
National integration Camp	Raipur (C.G.)	05

ACTIVITIES IN WHICH CADETS PARTICIPATED IN Year 2016-17

Cadets during Yoga Day

Cadets during NIC camp at the Bhilai Steel Plan1

Cadets with 1st prize Trophy in Kabbadi competition at CATC Bhopal

Cadets during parade on 26 Jan.

YEAR:- 2017-18

CAMPS ATTENDED BY THE CADETS

Name of Camp attended	Venue	No. of cadet
Combined Annual Training Camp	Bhopal(M.P.)	31

ACTIVITIES IN WHICH CADETS PARTICIPATED IN Year 2017-18

Drill practice by drill instructor

Plantation by cadets

YEAR:- 2018-19

CAMPS ATTENDED BY THE CADETS

Name of Camp attended	Venue	No. of cadet
Combined Annual Training Camp	Bhopal(M.P.)	33

ACTIVITIES IN WHICH CADETS PARTICIPATED IN Year 2018-19

Participation of cadets in Swachhata Abhiyan

6.5.4.7. Language Laboratory

The students lack communication skills as they are weak in English. With an aim to have command and proficiency on languageconventional mode of instruction has been adopted for teaching English and communication skillsto the undergraduate students of B.Sc. (Agri.).Students are encouraged to communicate in English in the college as well as outside. Extra classes for enhancement of communication skills, improvement of vocabulary etc are conducted so that the students can benefit from them.

6.5.4.8. Cultural Center

- **Cultural**: During the period (2016-2012), students of the college participated in cultural activities and won various medals in intercollegiate cultural competition of RVSKVV, Gwalior M.P

Overall Winner in University with 3 Shiromani Awards (Sangeet,Fine arts and Music)

2016-17

Compition	Winner/Runner	Name of the Students
Debate (Against)	Winner	Neha Sharma
Debate (Far)	Runner	Mahima Shriwastava
Quiz	Runner	Neha Sharma, Mahima Shriwastava
Rangoli	Winner	Ragini Thakur
Group song folk	Winner	Abhinav nema ,rajmohan panthi, Akankasha Surabhi patel Group
Patriotic song	Winner	Abhinav nema ,rajmohan panthi, Akankasha Surabhi patel Group
Folk Dance	Runner	Ruchita Anamika nidhi and group
Cartooning	Winner	Soumya Rai
Poster making	Runner	Soumya Rai

Year 2017-18

In this year intercollegiate cultural meet 2017-18,held at college of agriculture Indore during 17-18 January 2018.Total 23 student were participated in cultural programme 2017-18.List of students with their position in respective events are given below.

Compition	Winner/Runner	Name of the Students
Debate	Winner	Mahima Shriwastava
Elocution	Runner	Sourabh Kushwah
Clay modelling	Runner	Ragini Thakur
Group song folk	Winner	Anjali Singh,Surabhi patel,rajmohan panthi,shubham ,Deepak Akankasha
Skit	Runner	Neeraj Parmar,Deepak Meena,LNmehta Pawan choukse, Satynaryan,nidhi,
On spot Painting	Winner	Swati Singh
Mono acting	Runner	Sourabh Kushwah
One act play	Runner	Neeraj Parmar,Deepak Meena,Lnmehta Pawan choukse,Manish,Ritu, Satynaryan,Ragini nidhi
Light vocal Song	Runner	Surabhi Patel
Patriotic song	Runner	Anjali Singh,Surabhi patel,rajmohan panthi,shubham ,Deepak Akankasha

Year 2018-19

Cultural meet 2018-19, held at college of agriculture Gwalior during Dec 26 to28. 2018.Total 21 student were participated in cultural programme 2018-19.List of students with their position in respective events are given below.

Competition	Winner/Runner	Name of the Students
Debate	Winner	Vijayaraje Shingh
Clay modelling	Runner	Vijayaraje Shingh
Group song folk	Winner	Anjali Singh,Surabhi patel,rajmohan panthi,shubham ,Deepati Soni RituRaj Gupta
On spot Painting	Winner	Swati Singh
Solo Song	Runner	Surabhi Patel
Patriotic song	Runner	Anjali Singh,Surabhi patel,rajmohan panthi,shubham ,Deepak Akankasha

Year 2019-2020

In this year intercollegiate Cultural meet held at R.V.S.K.V.V. Gwalior from 9th to 11th January 2020. Total 22 students participated. One student selected for national level .List of students with their position in respective events are given below

events	Position	Name of students
Rangoli	Winner	Ayushi Chhalotre
Solo song	Winner	Deepti Soni
Mono acting	Runner	Manish Dhanger
Patriotic song	Runner	Karuna Choudhary,Deepti soni,Chitra Thakur,Deepak Malviya ,Kamal Rajput,Rahul Bhuriya
Quiz	Runner	Ishwar Yadav,Vinod Halkara

Photos of some cultural events




6.5.4.9. Personality Development

Various training programme, personality development, convation, skill development programme arranged by the college.


6.5.5 Physical facilities

6.5.5.1 Hostels

Details of hostel facility

SN	Name of Hostel	No. of Hostel	Total capacity	Students/per room
1	Boys hostel	02	188	02
2	Girls hostel	01	32	02

Boys Hostel

Girls Hostel

Facilities available in the hostel

Particular	Boys Hostel	Girls hostel
Mess facility	Yes	Yes
Drinking water	Water cooler with water filter -1	Water cooler with filter-1
Indoor games	Available Chess Table Tennis	Available Chess Table Tennis
News paper	Hindi & English news papers	Hindi & English news papers

Facility at Girls Hostel

Computer with WI-FI

Sanitary Napkins Box

Facilities at Boys Hostel

TV LED LG Model with disc connection

Water Cooler with RO

Fire extinguisher

Dining Table

Wi Fi in Hostel

Inverter

Cleaning

The cleaning of hostel premises is being done with the help of contractor. Thecleanliness in the hostel premises is maintained and monitored regularly by supportingstaff. The students and staff participated in cleanliness drive in the hostel.

Transport facility

In case of emergency the college bus & vehicles are made available for immediatemedicationand exposure visits to the student.

Some glimpses of Hostels

Bhajan programme organized at boys hostel on Ganesh Mahotsava.

6.5.5.2. Examination hall

Details of examination hall facility

Building	No. of halls	Capacity
Examination Hall	01	200
Class room	04	45 /class room

6.5.5.3.Sports and Recreation Facilities

Sports facilities available

Games & Sports	Equipment and Infrastructure
Outdoor sport	
Kho-kho	Kho-Kho Ground
Cricket	Cricket Ground
Kabbadi	Ground
Volley Ball	Ground
Basket ball	Ground
Indoor sport	
Table Tennis	Table
Badminton	Ground

Sports Report 2016-17

Years	Name of events	Participate of students		Venue	Ranks/ Position	
		Boys	Girls		Boys	Girls
2016-17	**Badminton/ Table – Tannis/ Carrom (Men & Women), Vollyball & Kho-Kho**	29	09	Khandwa	-	-
	Athletics (Men & Women) & Kabaddi (Men)	29	09	Gwalior		
	100 meter race (Men)				**Silver**	-
	100 meter race (Women)				-	**Silver**
	200 meter race (Men)				**Bronze**	-
	400 meter race (Men)				**Bronze**	-
	800 meter race (Men)				**Silver**	-
	Shot Put (Men)				**Bronze**	-
	High Jump (Women)				-	**Bronze**

Sports Report 2017-18

Intercollegiate Sports & Games Meet 2017-18, held at College of Agriculture, Khandwa and College of Agriculture, Gwalior

Students List and their achievements:

S. No	Name of Events	Name of Players	Position
1.	100 meter race (Men)	Rahul More	IInd
2.	100 meter race (Women)	Ku. Ayushi Nirale	IInd
3.	200 meter race (Men)	Rahul More	IIIrd
4.	400 meter race (Men)	Rahul Chouhan	IIIrd
5.	800 meter race (Men)	Kapil Choubey	IInd
6.	Shot Put (Men)	Kapil Choubey	IIIrd
7.	High Jump (Women)	Neha Nagar	


➢ prize distribution at sports meet

Sports Report 2018-19

Intercollegiate Sports & Games Meet 2018-19, held at College of Agriculture, Gwalior during 01st to 03rd November 2018 and 14th to 16th December 2018 at College of Agriculture, Khandwa.

Students List and their achievements:

	Boys			Girls	
	Events	Name of Students	Medals	Name of Students	Medals
1.	100 Meter Race	Rahul More	Gold	Rinkee Rai	NIL
2.	200 Meter Race	ShyamLal Rawat	Bronze	Rinkee Rai	Silver
3.	400 Meter Race	Kapil Choubey	Silver	Pooja Yadav	Silver
4.	800 Meter Race	Kapil Choubey	Gold	Mansi Rathore	Bronze
5.	1500Meter Race	Anil Barela	Bronze	Arti Panwar	NIL
6.	100x4 Relay Race	Rahul More ShyamLal Rawat Ankit Malviya Rahul Chouhan	Silver	Rinkee Rai Mansi Rathore Ayushi Nirale Reena Bhawel	NIL
7.	Shot-Put	Kapil Choubey	Silver	Neetu Kumhare	Silver
8.	Javelin Throw	Vikram Singh	Bronze	Neetu Kumhare	Gold
9.	Disc throw	Lakhan Malviya	Bronze	Neetu Kumhare	Nil
10.	High- Jump	Rahul Sharde	Silver	Madhu Chouhan	Siver
11.	Long Jump	Keshram Solanki		Geeta Dawar	Gold

Gold	Silver	Bronze	Total Medals
04	08	06	18

Sports Report 2019-21

In this year Intercollegiate Sports & Games Meet 2019-20, held at College of Agriculture, Khandwa and College of Agriculture, Gwalior.

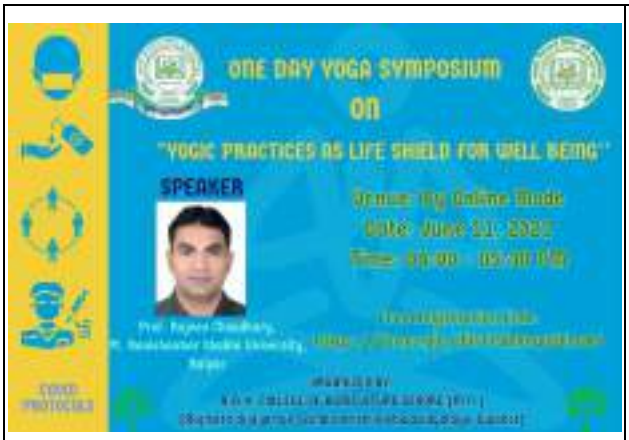
Students List and their achievements:

	Boys			Girls	
	Events	**Name of Students**	**Medals**	**Name of Students**	**Medals**
1.	**100 Meter**	Aswin Solanki	**Bronze**	Mansi Rathore	**Bronze**
2.	**200 Meter**	Shyam Lal Rawat	**Bronze**	Mahima Kushwaha	**Bronze**
3.	**Shot-Put**	Shailendra Badwana	**Gold**	Jagrati Chouhan	**Nil**
4.	**Javelin Throw**	Ankit Malviya	**Bronze**	Nishita Kushwaha	**Silver**
5.	**Disc throw**	Nithin B.K.	**Gold**	Nikita Parmar	**Silver**
6.	**High- Jump**	Subham Chouhan	**Silver**	Madhu Chouhan	**Silver**
7.	**Long Jump**	Subham Chouhan	**Gold**	Madhu Chouhan	**Nil**
		Total Medals (Boys)	**07**	**Total Medals (Girls)**	**05**

Sports Report 2020-21

- Sports Department, R.A.K. College of Agriculture Sehore (M.P.) planning to conduct one day Online Yoga Symposium on "Yogis Practices as Life Shield for well Being" on June 11, 2021.

Total Students Participants = 129
Total Faculty Participants = 21
Participation certificate were issued to all participants



- International Yoga Day Celebration and online Yoga Pose Competition.

Total Students Participants = 29
Total Faculty Participated = 17
Participation certificate were issued to all participants

6.5.5.4. Auditorium

Not Available

6.5.5.5. Exhibition Hall/Museum

Exhibition hall / museum facility

Name of Department	Name of Exhibition Hall	Purpose
College	Exhibition Hall	College has display boards for various ornamental plants, varieties, improved cultivation practices, methods of irrigations, soil and water conservation devices, Farm Machinery tools, agro meteorological instruments, garden tools and implements, seed samples, various crop Pest , diseases, animal component, procedure of soil sampling, soil& water analysis, communication skills, pamphlet, booklets etc.

6.5.6. Research Facilities

6.5.6.1. Post graduate Laboratories and Equipment's

List of equipment's available in different division laboratories

Entomology

S.No.	Particulars	Quantity
1	Binocular Microscope	13
2	Compound Microscope	31
3	Camera Lucida	2
4	Stage Microscope	1
5	Hair Hygrometer	2
6	Tripal purpose microscope	1
7	Micrometer eye piece& disc spencer eye piece	1
8	Flash Gun	1
9	Incubator	3
10	Spring Balance	2
11	Hot plates	2
12	Hot air oven	1
13	Over Head Projector	1
14	Humidifier	1
15	Micro Projector	1
16	Electronic weighing Balance	1
17	Stereoscopic Binocular Microscope	1
18	Insect drying chamber	1
19	Spring Balance	2
20	Sub Stage micrometer Model GL -1A	1
21	Digital Screw gauge	1
22	Electronic Weighing Balance for field	1

Plant Physiology		
1	Photosynthesis System LICOR 6400	1
2	Chlorophyll Meter SPAD – 502 Minolta	1
3	Pressure Chamber Model 1000	1
4	Leaf Area Meter Model CI 203 & Biovis	2
5	Spectrophotometer Model Systonic	1
Horticulture		
1	Protein analyzer	1
2	Oven	1
3	Refrigerator	1
4	Incubator	1
5	Electronic Balance	1
6	Electric balance	1
7	Hand refractometer	2
8	Digital refractometer	1
9	Mixer cum grinder	1
10	LCD Projector	1
Agronomy		
1	Leaf Area meter	1
2	Electronic top pan balance 10 g-5kg	1
2	Electronic top pan balance 001g-200g	1
3	Electronic top pan balance 20g-500g	1
4	Hot air oven	2
5	Soil Auger	3
6	Soil Tentiometer	3
7	Hot plate	1
8	Water Bath	1
9	Water still	1
10	LCD projector	1
11	Multimedia projector	1
12	Hand held GPS	1
13	laser Distance Meter	2
14	pH meter	1
15	Spectrophotometer	1
SOIL SCIENCE & AGRICULTURE CHEMISTRY		
(A). **Central Laboratory**		
1	INSOAW Seed counter	1
2	YORCO Rotary shaker/ Horizontal	1
3	Flame photometer EI Model 381 E	1
4	Horizonal laminar flow	1
5	Electric Top pan balance citizen	1
6	Nitrogen analyzer (Digestion and distillation unit) Kel plus	1
7	Minilab /Soil Tester	1
(B). **Food Science lab**		
8	Vaccum Drying Oven electric	1

9	Furnace Type 1500	1
10	Spectronic 20	1
11	Centrifuge (REMI)	1
12	Incubator/Oven	1
(C). **Soil Testing Lab**		
13	Kel Plus Nitrogen analyzer	1
14	pH meter	1
15	Ec meter	1
16	Orbital shaking Incubator Remi Make (Environmental Shaker)	1
17	Flame Photometer (Systronics)	1
18	Visible Spectrophotometer	1
19	Atomic Absorption Spectrophotometer (AAS)	1
20	Horizontal Reciprocal Shaker	1
21	Lab willey grinder	1
(D) **Soil Science & Ag.Chemistry**		
22	Conductivity Bridge Systronic digital type 304	1
23	Incubator Bacteriological memmert type	1
24	Visible Spectrophotometer-177	1
25	Microprocessor based Conductivity meter	1
26	Quartz Double Distillation unit	1
27	Automatic Digestion System	1
28	Microprocessor Based pH meter 1010 (Esico)	1
29	Digital Analytical Balance-Wensar MAB-220	1
30	Rotary Shaker	1
(E)	**Soybean Microbiology**	1
1	Atomic Absorption Spectrophotometer	1
2	Refrigerator	1
Plant Breeding & Genetics		
1	Ice flaking machine	1
2	Double distilled water unite	1
3	Tissue culture racks	1
4	Water bath	1
5	Deep freezer	1
6	Autoclave	1
7	Cryogenic container	1
8	Fume hood	1
9	Electric balance	2
10	Leveling table for gel casting	1
11	Electrophoresis unite power supply	1
12	Magnetic stirrer	2
13	Hot plate	1
14	Ultrasonicator	1
15	pH meter	2
16	Programmable centrifuge	1
17	Vacuum pump	1

18	Rotating tube carrier	1
19	Trinocular microscope	1
20	Orbital shaker	1
21	Digital ph meter	1
22	Tube rotator	1
23	Vortex shaker	1
24	Electrophoresis unite	2
25	Setiz filter	1
26	Microphotography system	1
27	Binocular microscope	1
28	Rotary flask shaker	1
29	Digital RPM meter	1
30	DSLR camera	1
31	UV spectrophotometer	1
32	Gel documentation system	1
33	Laminar flow	1
34	LCD projector	1
35	High speed refrigerated centrifuge	1
36	Referizrator 330lit	1
37	File cabinet	1
38	Godrej glass door	3
39	Kirlosker green brand generator	1
40	Airconditioners	5
Plant Pathology		
1	Gallow lamp Incubator	1
2	Autoclave	1
3	Precession balance	1
4	Student microscopes	1
5	Binocular Microscopes/ Research Microscope monocular	1
6	Drawing apparatus or camera lucida	1
7	Germinator	1
8	Incubator	1
9	Hot plate	1
10	Distilling still	1
11	Hot air oven	1
12	Pan balance (5Kg capacity)	1
13	Haemocytometer	1
14	Projection Microscopes (2)	1
15	PH meter digital	1
16	Insta gas	1
17	R-24 centrifuge	1
18	Magnetic stirrer with hot plate	1
19	Varinjoy blender	1
20	Turbidity meter	1

21	Microphotographic equipment	1
22	H.P. gas LPG with burner	1
23	Refrigerator (Kalvinator)	1
24	Thin layer Chromatography	1
25	BOD Incubator	1
26	Hand rotary microtome	1
27	Growth Chamber	1
28	Balance analytical	1
29	Laminar air flow (2)	1
30	Soil moisture meter	1
31	Soil thermometer, set	1
32	Trinoccular Research Microscopes (2)	1
33	Horizontal autoclave	1
34	Electronic Top pan Balance	1
35	Microwave Oven	1
36	Seed germinator	1
37	Spore Trap (Air Sampling System)	1
38	Leica Image Analyzing System	1
39	Direct Inspection microscope	1
40	Deep freezer	1

6.5.6.2. Research Contingencies

The research contingencies of Rs. 10000.00 per student of PG research is provided for completion of their research experiments every year

6.5.7 Outcome/Output

6.5.7.1. Student Performance in National Examinations

Students' performance in ICAR-JRF/NET examination

Year	S. No.	Name of Fellowship/Scholarship	No. of Students
2016-17	1.	Junior Research fellowship received	Nil
	2.	JRF qualified and admitted in different Universities of India without fellowship	04
	3.	SRF Qualified without fellowship	Nil
	4.	National Talent Scholarship	10
	5.	Scholarship of VikramadityaYojna	Nil
	6.	Scholarship of Goan Ki BetiYojna	Nil
	7.	Dr. ShyamaprasadMukharji Scholarship	Nil
	8.	Post Metric Scholarship	
	9.	State Government Scholarship	228
		(i) OBC	154

		(ii) SC	68
		(iii) ST	06
2017-18	**S.No.**	**Name of fellowship**	**No. of students received fellowship**
	1.	ICAR- JRF	04
	2.	NTC	08
	3.	State Government Scholarship	280
	4.	(i) OBC	162
	5.	(ii) SC	59
	6.	(iii) ST	59
2018-19	**S.No.**	**Name of fellowship**	**No. of students received fellowship**
	1.	JRF 2017	04
	2.	NTS 2017	08
	3.	State Government Scholarship	255
	4.	(i) OBC	143
	5.	(ii) SC	57
	6.	(iii) ST	55
2019-20	**S.No.**	**Name of fellowship**	**No. of students received fellowship**
	1.	JRF 2018	04
	2.	NTS 2018	10
	3.	State Government Scholarship	252
	4.	(i) OBC	146
	5.	(ii) SC	56

	6.	(iii) ST	50

	S.No.	Name of fellowship	No. of students received fellowship
2020-21		JRF 2019	04
	2.	NTS 2019	15
	3.	State Government Scholarship	219
	4.	(i) OBC	140
	5.	(ii) SC	56
	6.	(iii) ST	23

6.5.7.2. Students Placement Profile

Profile of student placements

S. No.	Name	Agency	Year of Selection
2016			
1	Ankit Mehto	Seed Certification Officer	2016
2	Satyendra Raghuwanshi	Seed Certification Officer	2016
3	Ghanshyam Verma	Seed Certification Officer	2016
4	Mithun Patel	Seed Certification Officer	2016
5	Priyanka Chouhan	Seed Certification Officer	2016
2017			
1	Nitin Rajput	IBPS, Agriculture Field Officer	2017
2	Sanju Bakoriya	IBPS, Agriculture Field Officer	2017
3	PappuBagwan	IBPS, Agriculture Field Officer	2017
4	Rahul Sawasiya	IBPS, Agriculture Field Officer	2017
5	Deepak Kumar	IBPS, Agriculture Field Officer	2017
6	RamdayalDhaker	IBPS, Agriculture Field Officer	2017
7	Hariom Patidar	IBPS, Agriculture Field Officer	2017
8	Kamlesh Vishvakarma	IBPS, Agriculture Field Officer	2017
9	RiteshChapariya	IBPS, Agriculture Field Officer	2017
10	Pratibha Niranjan	IBPS, Agriculture Field Officer	2017
11	Bharat Jaiswal	IBPS, Agriculture Field Officer	2017
12	Ankita Jabariya	IBPS, Agriculture Field Officer	2017
13	KhusbuKhubele	IBPS, Agriculture Field Officer	2017
14	Mukesh Gour	R.H.E.O.	2017

15	Priyanka Rathore	R.H.E.O.	2017
16	Neha Dangi	R.H.E.O.	2017
17	Narendra Rajput	R.H.E.O.	2017
18	Durgesh Yadav	R.H.E.O.	2017
19	Lovekesh Patel	R.H.E.O.	2017
20	Nand Kishore Pawar	R.H.E.O.	2017
21	Arvind Parmar	R.H.E.O.	2017
22	Roshni Saxena	R.H.E.O.	2017
23	Deepak Malviya	F.E.O., JNKVV, Jabalpur	2017
24	Suresh Mewada	Product Development Officer Shivshakti Group	2017
25	Santosh Nagar	Product Development Officer Shivshakti Group	2017
26	Omprakash Malviy	Product Development Officer Shivshakti Group	2017
27	Lakhan Malviy	Product Development Officer Shivshakti Group	2017
28	MangilalSiloria	Product Development Officer Shivshakti Group	2017
29	Vikram Jangada	Product Development Officer Shivshakti Group	2017
30	Pankaj Gadhay	Product Development Officer Shivshakti Group	2017
31	Dharmendra Vijayvergiya	Product Development Officer Shivshakti Group	2017
32	Ramnarayan Rane	Product Development Officer Shivshakti Group	2017
33	Vivek Barche	VNR Seeds, Product Development officer	2017
34	Pramod Patel	Field ExtentionOfficer , JNKVV, Jabalpur	2017
35	Monika Chouhan	do	2017
36	Basant Mandre	do	2017
37	Lalit Malakar	do	2017
38	Vikash Patel	do	2017
39	Ravi Solanki	do	2017
40	Sonika Verma	do	2017
41	Sachin Aske	do	2017
42	Usha Waskle	do	2017
43	Dharmendra Chouhan	do	2017
44	Neha Dohre	do	2017
45	Shivraj Parihar	State Seed Corporation, Assistant Quality Controller	2017
46	Rohit Patel	do	2017
47	Laxminarayan Keshariya	do	2017
48	Govind Parihar	do	2017
49	Narendra Thakur	do	2017
50	Gabbar Mewada	do	2017
51	Rajesh Kadoda	do	2017
52	Rashmi Solanki	do	2017
53	Sanjay Dangi	do	2017
54	Krishna Patidar	do	2017
55	Devendra Thakur	do	2017
56	Antara More	do	2017
57	Raju Jat	do	2017

58	Satish Randawa	do	2017
59	Suraksha Uikey	do	2017
60	Sunil Malviya	do	2017
61	Priyanka Rathore	Dept. of Horticulture Govt of M.P.Rural Horticulture Extention Officer	2017
62	Mukesh Gaur	do	2017
63	NandkishorePawar	do	2017
64	Lovekesh Patel	do	2017
65	Neha Dangi	do	2017
66	Omprakash Malviya	IFFCO,Field Officer	2017
67	Saket Soni	IFFCO,Field Officer	2017
68	Mohan Nagar	Govt of M.P.Patwari	2017
69	Vijay Dohre	ASHA NGO,Field Officer	2017
70	Sagar Malviya	Central Bank of India,Agricultural Field Officer	2017
71	Nitin Rajput	Bank of India,Agricultural Field Officer	2017
72	Deepak Malviya	Punjab national Bank,Agricultural Field Officer	2017
73	PappuBagwaan	Bank of Baroda,Agricultural Field Officer	2017
74	Rajesh Mandre	Punjab national Bank ,Agricultural Field Officer	2017
75	Narendra Rajput	Bank of Baroda,Agricultural Field Officer	2017
76	Rahul Parmar	Canara Bank,Agricultural Field Officer	2017
77	RadheShyam Meena	Central Bank of India,Agricultural Field Officer	2017
78	Deepak Barfa	Bank of Baroda,Agricultural Field Officer	2017
79	Kundan Patidar	AMUL,Field Officer	2017
80	Tarun Patel	Marketing Officer,Syngenta	2017
81	Rekha Parmar	ReshamSanchalanalay,Field Assistant	2017
82	Devendra Thakur	do	2017
83	Sushmita Uikey	do	2017
2018			
1	Lavkesh Yadav	Marketing Representive, National Fertiliser Limited	2018
2	Rahul Mewada	Marketing Representive, National Fertiliser Limited	2018
3	Lakhan parmar	Agriculture officer, Bank of Baroda	2018
4	Ravi Parmar	Agriculture officer, Bank of Baroda	2018
5	Krishna Kumar Dhakad	Agriculture officer, Bank of Baroda	2018
6	Arvind Mewada	Patwari,Govt of M.P.	2018
7	Sanjay Dangi	Assistant quality controller M.P. Warehouse,	2018
8	Mangal Singh	Assistant quality controller, M.P. Warehouse	2018
9	SadhnaRaghuwanshi	Assistant quality controller , M.P. Warehouse	2018
10	Rekha Parmar	Assistant quality controller , M.P. Warehouse	2018
11	Smit Patil	Trainee marketing, National Seed Corporation	2018
12	Bharat Yadav	Trainee marketing, National Seed Corporation	2018
2019			
1	MahendraPethari	Central Bank of India	2019
2	Sanjay Dangi	M.P.ware housing corporation	2019
3	Mohan Nagar	Patwari	2019
4	Smith Patil	MARKFED	2019

5	Ajay Rathore	National Seed Corporation	2019
6	DhannalalMulewa	Bank of India	2019
7	Kamlesh Birla	Bank of India	2019
8	Vinod Prajapati	Central Tobbaco Board	2019
9	Sunil Malviya	Field Extension Officer (JNKVV)	2019
10	Anand Jaiswal	Gramophone Pesticides	2019
11	Pooja Nagar	Fetiliser corporation of India	2019
12	Gourav Chouhan	Fetiliser corporation of India	2019
13	Anupriya Sharma	Rajasthan Krishi paryavekshak	2019
2020-21			
1	Kamlesh Birla	Public sector bank	2020-21
2	Dhannalal Mulewa	Public sector bank	2020-21
3	Mahendra Pethari	Public sector bank	2020-21
4	Neha Nagar	Food Corporation of India	2020-21
5	Vinod Halkara	Kribhaco	2020-21
6	Durgesh Meghwal	Rajsthan Govt.	2020-21
7	Ajay Rathore	Public sector bank	2020-21
8	Nikita Rathore	Public sector bank	2020-21
9	Nirmala Mandloi	Public sector bank	2020-21
10	Pradeep Malviya	Public sector bank	2020-21
11	Anupriya Sharma	Rajsthan Govt.	2020-21

6.5.7.3. Awards/Recognitions/Certificates

Faculty Award

Details of faculty award received during year 2016-21

- Dr.M.Yasin Principal Scientist AICRP on Chickpea awarded best scientist of the RVSKVV during 2019
- DR.A.K.Saxena Senior Technical Officer awarded Best Technical Officer of the RVSKVV in 2019.
- Dr. S.C.Gupta-Received ISPRD Recognition Award 2017 by -IIPR for outstanding contribution in the field of National Resource Management in Chickpea (pulses) in the National Symposium on Pulses for Nutritional Security and Agricultural Sustainability held at Kanpur on 2nd Dec. 2017.
- Certificate of honor award given to Dr. R.C.Jain by District collector Sehore (M.P.)for book publication and Bharat Shiksha Ratna award in 2018.
- Dr.R.C.Jain received International award for outstanding research given by ARTBA-2019
- Dr.R.C.Jain was winner of Radhakrishnan award and sister Nivedita award in 2016 for best research presentation awarded by Indian Institute of Oriental Heritage, Kolkata.

6.5.7.4. Employability

With the implementation of the V Dean's Committee since 2017-18 Agricultural Education has been able to gain new momentum and it has opened up new horizons for the students of the Agricultural Universities.

Since the inception, students of the RAK College ofAgriculture, Sehore are being trained in Agronomy, Agricultural Economics,Entomology, Engineering, Extension,

Horticulture, Seed Production, Plant Pathology, Soil Science &Agricultural Chemistry. Regarding professional employability, which is in demand in the present scenario, students are imparted intensive training related to technical, entrepreneurial, communication skills,leadership skills and a well-developed personality. In order to meet these, during the firstsix semesters students get instructions and training in all the above subjects and inSemester VII they undergo RAWE and in the final semester they are imparted training in Experiential Learning. After the completion of the undergraduate degree programme, thestudents of this college become adept in plant disease diagnosis, farm advisory and production practices, advanced irrigation systems forwater management, organic farming, and agro-entrepreneurial skills. Students find placement in the Central and State governments throughvarious competitive examinations while a large number of studentsget placed inthe private sector organizations and Government of India Undertakings such as the financesector. Team work, leadership qualities and interpersonal skills help to refine the students in their post academic career and other endeavours thus helping in their holistic development.

6.5.8. SSR of the College must have the SSR of all its Degree Programmes (following section 6.4), then the report of the Colleges shall be considered.

6.5.9. Certificate (Applicable when SSR is submitted for Programme)

I, the **Dean, Dr. H. D. Verma, RAK College of Agriculture**, **Sehore** hereby certify that theinformation contained in **Sections 6.4 and Section 6.5.1 to 6.5.7.4** is furnished as per therecords available in the college and degree awarding university.

अधिष्ठाता
आर.ए.के.कृषि महाविद्यालय,
सीहोर (म.प्र.)

Signature of the Dean of the college with Date & Seal

UG Degree Programme

04 Year B.Sc. (Hons.)Agriculture

6.4.1. Brief History of UG Degree Programme

(a)Year of starting of UG degree programmes:

FACULTY	DEGREE PROGRAMME	YEAR OF START
AGRICULTURE	B.Sc. (Ag.)	1955

(b) About College of Agriculture, Sehore

The foundation of college of Agriculture, Sehore was laid down by the first food and Agriculture Minister of India, Late Shri Rafi Ahmad Kidwai on August 01,1952. At that time , this college was up to intermediate level. On July 17,1955 , Union Minister for Food and Agriculture, Shri Ajit Prasad Jain laid foundation of Rafi Ahmad Kidwai Undergraduate College and Agriculture Research Institute. Initially, the college was affiliated to Vikaram University, Ujjain. In the year 1964. after establishment of Jawahrlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur, this college was one of the constituent colleges of JNKVV, Jabalpur. On 19th August, 2008 a new Agricultural university-Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya was established by the bifurcation of JNKVV with head quarter at Gwalior and this college is under administrative control of RVSKVV, Gwalior.

The college has co-education system. The college offers undergraduate degree program along with post graduate programs in 8 disciplines of agriculture (Agronomy, Genetics & Plant Breeding, Vegetable Science, Agril. Economics, Extension Education, Entomology, Soil Science and Plant pathology). The college is sqrqwled over 350 acres of land with scientific seed production and seed processing facilities. It is equipped with Agricultural Research Information System (ARIS) Cell with unlimited access to all the departments of PG studies.

The college library is strengthened with more than 37503 books, reference book 8415 journals and e journals 3060 and audio and video CDs 35. There are two boy's hostels and one girl's hostel with accommodation facility for about 144 students. Students are provided outdoor and indoor games, sports and gymnasium facilities in the vicinity of the hostels. For social development of students, NCC and programs are also running. The NSS students of this college have being awarded esteemed national awards. The students have also been awarded at national levels in co-cultural activities.

The alumni of the college includes Mr. Gahanna Vakankar, Ex. Commerce Advisor, Padm Sri Dr. Sant Sing Virmani Fellow Scientist of Institute of Tropical Agriculture, Shri. Mohmad Ajhar Hussain Ex-Directore Agriculture, Govt. of Madhya Pradesh Shri. G.S. Kaushal, Ex-Director Agriculture, Govt. of Madhya Pradesh, Dr. Sadhuram Sharma, Ex

Sugarcane Agronomist, Shri. Sangram Singh Tomar, Ex-Director Agriculture, Govt. of Madhya Pradesh,Dr. Anant Ozha, ExM.. Commissioner, Department of farmers welfare and Agriculture development, GOI and Preeti Methil , IAS. and various others posted in different organizations in M.P. and India.D. Bank Of India, Shri Dayashankar Gupta, Deputy. Commissioner seeds, Dr. A.P. Singh.

Location

This college is situated in semi urban area of Sehore town, 40 Km away from the state capital Bhopal and 150 km away from Indore. Sehore is situated at a latitude of 23.06° N, the longitude of 77.05° E and at an altitude of 498.77 m. above mean sea level.

Jurisdiction

1.Zonal Agricultural Research Station,College of Agriculture,Sehore (M.P.)

2. Fruit Research Station, Entkhedi, Bhopal (M.P.)

3.Krishi Vigyan Kendra, Rajgarh (M.P.)

6.4.2 Faculty strength:

S. No.	Sanctioned Faculty	Faculty in Place	Vaccant Position	Faculty recommended. By ICAR	Remark
1	Professor	0	1	3	One post is sanctioned for Veterinary Science which is vacant but four professor promoted from CAS are involved in teaching. They are Dr. P.S. Raghuwanshi (Economics), Dr. K.N. Pathak (Extension Edu.), Dr. SRJ Singh (Agril. Stastics) and Dr. RK Jaiswal (Horticulture).
2	Assoc. Professor	0	4	8	
3	Asstt. Professor	02	23	20	Two Assistant professor are involved in teaching.They are

					Dr. D.K. Raidas(Botony) and Dr. B.K. Sharma(Agronomy)
4	Contractual Teachers	07	-	-	02 in Agril. Extension, 01 in Entomology, 01 in Plant Pathology, 01 in Horticulture, 01 in Soil Science department and 01 is Sports teacher.
5	Research Staff	16	-	-	02 Principal scientist and 01 scientist in Plant breeding, 02 Principal scientist and 01 scientist in Plant pathology, 01 Principal scientist in Entomology, 02 Principal scientist in Soil science, 01 Principal scientist in Horticulture, 03 Principal scientist and 01 scientist in Agronomy, 01 senior Scientist in Agril. Engineering and 01 scientist is being enguaged in plant physiology department to complete the course curriculum

6.4.3: Technical and supporting staff

S.No.	Name of the Post	No. of Post	Actual Filled
1.	Steno	01	01
2.	Jr. Computer	01	-
3.	Farm Manager	-	-
4.	Agril. Ext. Officer	01	01
5.	Mechanic	01	-
6.	Black Smith	01	-
7.	Carpenter	01	01

8.	Electrician	01	-
9.	DK/Field Man/ FEO	04	02
10.	Tractor Driver	01	-
11.	Jeep Driver	02	0
12.	Pump Driver	01	-
13.	Lab Technician	09	04
14.	Lab Attendant	11	02
15.	Librarian	01	-
16.	Library Shorter	01	-
17.	P.T.I.	01	-
18.	Compounder	01	-
19.	Sub Engineer (Civil)	01	01

6.4.4 Class Room & Laboratories

There are four undergraduate lecture halls in the college exclusively meant for the students. In Each academic block one UG lecture hall is used for accommodating the students of B.Sc. (Hons.) Agriculture. Each lecture hall is provided with the necessary teaching aids such as Black board, LCD projector, Over head projector, furniture, electrical fittings, podium *etc.* for effective delivery of the curriculum. Each lecture hall also has internet access points for use by the students. In addition, nearer to lecture hall has a Reverse Osmosis water purifier to provide drinking water facility to the students.

The laboratories are well equipped to conduct the practicals/hands on training to the students. The laboratory facilities available in each department for the B.Sc. (Hons) Agriculture are furnished in Table 6.4.4.

Classrooms

Dimensions of Classrooms:

S.N.	Name of Classrooms	Length (Meter/Feet)	Width (Meter /Feet)
1.	B.Sc.(Ag.)Ist year	16.35 M.	7.90 M.
2.	B.Sc. (Ag.)IInd year	16.35 M.	7.90 M.
2.	B.Sc. (Ag.)IIIrd year	16.50 M.	7.90 M.
4.	B.Sc. (Ag.)IVth year		

Number of laboratories available

Sr. No.	Section	No. of laboratories available for UG
1	Agronomy	Laboratory / Practical hall
2	Agricultural Botany	Laboratories / Practical hall
3	Agril. Chemistry and Soil Science	Laboratories / Practical hall
4	Agril. Economics	Laboratory / Practical hall
5	Agril. Engineering	Laboratory / Practical hall
6	Animal Husbandry and Dairy Science	Laboratory / Practical hall
7	Agril. Entomology	Laboratory / Practical hall
8	Agril. Extension Education	Laboratory / Practical hall
9	Plant Pathology	Laboratory / Practical hall
10	Horticulture	Laboratory / Practical hall

List of Scientific Equipments.

Sr.No	Name of Scientific equipment
1	Nitrogen analyzer (Digestion and distillation unit) Kel plus
2	Soil Tester/Mini lab
3	Kel Plus Nitrogen analyzer(STL)
4	Orbital shaking Incubator Remi Make (Environmental Shaker)
5	Atomic Absorption Spectrophotometer (AAS)
6	Automatic Digestion systemMicronutrient-RKVY
7	Atomic Absorption Spectrophotometer.
8	Ice flaking machine
9	Double distilled water unite
10	Deep freezer
11	Autoclave
12	Fume hood
13	Trinocular microscope
14	Orbital shaker
15	Microphotography system

16	Rotary flask shaker
17	Gel documentation system
18	Laminar flow
19	Air conditioner
20	Binocular Stereo scopic Zoom Microscope
21	Photosynthesis System LICOR 6400
22	Leaf Area Meter Model CI 203
23	Pressure Chamber Model 1000
24	Electronic Auto Sequencing Micro Processor Based Economic Special Version Distillation System with Inbuilt Software with 4 Programmable Steps and 50 Predefinable use Storage Auto Sequence Programme Modle –DISTYL BMS
25	Chlorophyll Meter Model CCM 200
26	Leaf Area Meter with Motorized conveyor belt unit Model Biovis
27	Leica Trinoccular Research Microscopes (2)
28	Direct Inspection microscope
29	Leica image analysis software with microscopic camera

Average number of students in theory and practical classes

Sr. No.	Name of the degree programme	Batch of student in theory	Batch of student in practical
1	B.Sc. (Agri.)	83	30

The class rooms and laboratories are sufficient to meet course curricula requirement of the degree programme.

6.4.5 Conduct of practical and hands of training:

The practical syllabus is formulated based on the course needs. The student registered for a particular course has to necessarily attend 75 per cent classes conducted to gain eligibility for writing final examination. Practical classes are conducted in the field / experimental lab in the allotted practical hours by the course teacher. The practical exams are conducted as per the prescribed time table for the students who have registered the course.

The students are exposed to hands on Training in gaining practical experience in field operations, in documenting the biometrical traits of the crops, handling of various equipments in the laboratory and estimation of various parameters based on the course requirement.

Also, exposure visit to fields, research institutes, experimental fields and farmers' fields are periodically made so as to provide practical exposure to the students. The students are sufficiently benefited with hands-on training during their practical classes. They are also exposed to periodic field visits to national institutes, industries and progressive farmer's field to stay abreast on latest technological improvements in agriculture. The visits are part of the curriculum and built in the syllabi. During the practical classes, the students are taught on the technology/ process and acquire skills through hands on training regularly.

6.4.6 Supervision of students in PG/ Ph.D. program

NOT APPLICABLE.

6.4.7 FEEDBACK OF STAKEHOLDERS (STUDENTS, PARENTS, INDUSTRIES, EMPLOYERS, FARMERS ETC.):.)

At present there is no such mechanism.

6.4.8 Student intake and attrition in the programme for last five years.

Name of Degree program me	Actual Students admitted in last five years					Attrition (%)				
B.Sc. (Ag)	Y1 (2016 -17)	Y2 (2017 -18)	Y3 (2018 -19)	Y4 (2019 -20)	Y5 (Curre nt year 2020- 21)	Y1 (2016 -17)	Y2 (2017 -18)	Y3 (2018 -19)	Y4 (2019 -20)	Y5 (Curre nt year 2020- 21)
	78	79	78	80	77	0	1.26	1.28	1.25	0

6.4.9. ICT Application in curricula delivery

Smart-class room facilities have been developed in the college. During the last five years, most faculties have developed ICT enabled teaching material and practical manuals. Audio visual teaching aid facility and smart classrooms are available in the college.

Practical/project work centred courses have been developed. Due weightage is given by the Institution to the innovative teaching methods developed by faculties. As ICT has now become a part of teaching programme. It is meeting the expectation in curricula delivery in theoretical courses through power point presentation and in practical courses through digital presentation.

A separate computer lab with infrastructure facility is available for the students. The students are being taught about the IT facilities. Sufficient furniture, ventilation and lighting facilities are provided in all the class rooms for comfortable listening and writing of the students. A table, podium, whiteboards/screen, black board with duster are available in each class room for the use of teachers. A common generator facility supplies power to all the classrooms to avoid interruption of the class during power failure.

Course	Practical	Useof ICTApplication
B.Sc. (Ag.) Agriculture	HRT 111 EVS 111 SAC 111 EVS 112 ENG 111 AGR 111 EVS112 GPB 121 EVS 122 AEG 111 EVS 121 PPT121 ENT121 EXT 121 EXT 122 AGR 211 GPB 211 AEC 211 AST 211 AEG 211 HRT 211 EVS 211 AST 212 LPM 211	LCD has been installed in each Lecture Room of the college and 03 Lecture rooms have been converted into smart classrooms. PPT, YouTube, CD ROM, Websites, Email, GoogleDrive, virtual teaching webinar etc. are being brought in use.

AGR 221
HRT 221
AEG 211
HRT 222
GPB 221
AEC 221
AGR 223
GPB 222

PPT 312
SAC 311
ENT 311
PPT 311
GPB 311
EXT 311
AGR 312
AGR311
SAC312

AGR 323
AEG 321
PPT 321
HRT 321
ENT 321
GPB 321
AGR 321
AGR 322
AEC 321
AGR 324

6.4.10. The information pertaining to 6.4.1 to 6.4.9 has been provided for UG and PG Degree Programmes, separately.

6.4.12. Certificate

I, the **Dean, Dr. H.D. Verma , College of Agriculture, Sehore** hereby certify that theinformation contained in Sections 6.4.1 to 6.4.9 are furnished as per the recordavailable in the college and degree awarding university.

अधिष्ठाता
आर.ए.के.कृषि महाविद्यालय,
सीहोर (म.प्र.)

Signature of the Dean of the college with Date & Seal

PG Degree Programme
02 Year {M.Sc. Agriculture}

6.4 SELF - STUDY REPORT FOR THE PROGRAMME, COLLEGE OF AGRICULTURE, SEHORE (M.P.)

6.4.1. Brief History of PG Degree Programme {M.Sc. (Ag.) Agronomy}

(a)Year of starting of PG degree programmes:

FACULTY	DEGREE PROGRAMME	YEAR OF START
	M.SC. (AG.) AGRONOMY	1960

(b) About College of Agriculture, Sehore

The foundation of college of Agriculture, Sehore was laid down by the first food and Agriculture Minister of India, Late Shri Rafi Ahmad Kidwai on August 01, 1952. At that time, this college was up to intermediate level. On July 17, 1955, Union Minister for Food and Agriculture, Shri Ajit Prasad Jain laid foundation of Rafi Ahmad Kidwai Undergraduate College and Agriculture Research Institute. Initially, the college was affiliated to Vikaram University, Ujjain. In the year 1964 after establishment of Jawahrlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur, this college was one of the constituent colleges of JNKVV, Jabalpur. On 19th August, 2008 a new Agricultural university-Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya was established by the bifurcation of JNKVV with head quarter at Gwalior and this college is under administrative control of RVSKVV, Gwalior.

The first M.Sc. (Agronomy) batch was admitted in the College in the year 1960. It has produced many stalwarts in the field of Agronomy and still continuing with its mandate of producing trained manpower for the country. It has major three following mandates.

Objectives of initiating PG programme: The College adopts the following goals and objective which permeate in offering of various curricula, and undertake research and extension activities by its departments to:

- Provide world-class education to our students.
- Maintain a strong basic and applied research programme to support all segments of agriculture and allied sectors through enhanced agriculture productivity and environment sustainability.
- Serve the rural society through extension activities by disseminating research based knowledge.
- Assist stakeholders through value-added endeavours, bio-based products, bio-processing, crop diversification etc.
- Monitor climate change impacts on agriculture systems and develop mitigation strategies adopting inter-disciplinary approaches

The college library is strengthened with more than 37503 books, reference book 8415 journals and e journals 3060 and audio and video CDs 35. There are two boy's hostels and one

girl's hostel with accommodation facility for about 144 students. Students are provided outdoor and indoor games, sports and gymnasium facilities in the vicinity of the hostels. For social development of students, NCC and programs are also running. The NSS students of this college have being awarded esteemed national awards. The students have also been awarded at national levels in co-cultural activities.

The alumni of the college include Mr. Gahanna Vakankar, Ex. Commerce Advisor, Padm Sri Dr. Sant Sing Virmani Fellow Scientist of Institute of Tropical Agriculture, Shri. Mohmad Ajhar Hussain Ex. Directore Agriculture, Govt. of Madhya Pradesh Shri. G.S. Kaushal, Ex-Director Agriculture, Govt. of Madhya Pradesh, Dr. Sadhuram Sharma, Ex Sugarcane Agronomist, Shri. Sangram Singh Tomar, Ex-Director Agriculture, Govt. of Madhya Pradesh,Dr. Anant Ozha, ExM.. Commissioner, Department of farmers welfare and Agriculture development, GOI and Preeti Methil, IAS. and various others posted in different organizations in M.P. and India.D. Bank of India, Shri Dayashankar Gupta, Deputy. Commissioner seeds, Dr. A.P. Singh.

Location

This college is situated in semi urban area of Sehore town, 40 Km away from the state capital Bhopal and 150 km away from Indore. Sehore is situated at a latitude of 23.06^{o} N, the longitude of 77.05^{o} E and at an altitude of 498.77 m above mean sea level.

Jurisdiction

1.Zonal Agricultural Research Station,College of Agriculture,Sehore (M.P.)
2. Fruit Research Station, Entkhedi, Bhopal (M.P.)
3. Krishi Vigyan Kendra, Rajgarh (M.P.)

6.4.2 Faculty strength:

S. No.	Sanctioned Faculty	Faculty in Place	Vaccant Position	Faculty recommended . By ICAR
1	Professor	0	0	-
2	Assoc. Professor	0	1	-
3	Asstt. Professor	1	3	-
4	Principal Scientist/Professor*	3	-	-
5	Scientist*	1	-	-

*03 PrincipalScientists& 01 Scientist are working in department to assist for completion of the course curriculum.

SN	Name of Faculty	Designation	Specialization	Highest Qualification	Experience (Years)*		
					T	R	E
1	Dr. H.D.Verma	Principal Scientist/Professor from research project posted in department	Agronomy	PhD	19	28	38
2	Dr. M.D.Vyas	Principal Scientist/Professor from research project posted in department	Agronomy	PhD	33	33	33
3	Dr. R.P.Singh	Principal Scientist/Professor from research project posted in department	Agronomy	PhD	32	31	28
4	Dr. G.K. Nema	Scientist from research project posted in department	Agronomy	PhD	20	32	22
5	Dr. B.K. Sharma	Assistant professor	Agronomy	PhD	05	03	05

6.4.3: Technical and supporting staff

S.No.	Name of the Post	No. of Post	Actual Filled
1.	Lab technician	01	01

Smt. Nisha Chouhan working as a Lab technician in the department.

6.4.4 Class Room & Laboratories

There are four undergraduate lecture halls in the college exclusively meant for the students. In Each academic block one PG lecture hall is used for accommodating the students of B.Sc. (Hons.) Agriculture. Each lecture hall is provided with the necessary teaching aids such as Black board, LCD projector, Over head projector, furniture, electrical fittings, podium *etc.* for effective delivery of the curriculum. Each lecture hall also has internet access points for use by the students. In addition, nearer to lecture hall has a Reverse Osmosis water purifier to provide drinking water facility to the students.

Dimensions of Classrooms:

S.N.	Name of Classrooms	Length (Metre/Feet)	Width (Metre/Feet)
1.	M.Sc.(Ag.) Ist year	11.60 M.	7.90 M.
2.	M.Sc. (Ag.) IInd year		

- The laboratories are well equipped to conduct the practicals/hands on training to the students. The laboratory facilities available in each department for the B.Sc. (Hons) Agriculture are furnished in Table 6.4.4.

No. of lecture rooms with seating capacity	One with seating capacity of 25
No. of lecture rooms with LCD	One
No. of smart class-rooms	One
No. of labs under Dean's office with specialized purpose	Six postr graduate Labs.
Farm facilities	Yes
Workshops	Computer lab
Any other instructional units being utilized for the award of the Degree Programme	Seminar Rooms and examination hall with One hundred Fifty capacity

Post graduate Laboratories and Equipment's

List of equipment's available in different division laboratories

Agronomy		
1	Leaf Area meter	1
2	Electronic top pan balance 10 g-5kg	1
2	Electronic top pan balance 001g-200g	1
3	Electronic top pan balance 20g-500g	1
4	Hot air oven	2
5	Soil Auger	3
6	Soil Tentiometer	3
7	Hot plate	1
8	Water Bath	1
9	Water still	1
10	LCD projector	1
11	Multimedia projector	1
12	Hand held GPS	1
13	laser Distance Meter	2
14	pH meter	1
15	Spectrophotometer	1

6.4.5 Conduct of practical and hands of training:

Hands on Training

The practical syllabus is formulated based on the course needs. The student registered for a particular course has to necessarily attend 75 per cent classes conducted to gain eligibility for writing final examination. Practical classes are conducted in the field / experimental lab in the allotted practical hours by the course teacher. The practical exams are conducted as per the prescribed time table for the students who have registered the course.

The students are exposed to hands on Training in gaining practical experience in field operations, in documenting the biometrical traits of the crops, handling of various equipments in the laboratory and estimation of various parameters based on the course requirement.

Also, exposure visit to fields, research institutes, experimental fields and farmers' fields are periodically made so as to provide practical exposure to the students. The students are sufficiently benefited with hands-on training during their practical classes. They are also

S. No.	Name of Department	Thesis submitted in PG				
		2016	2017	2018	2019	2020
1.	Agronomy	9	8	6	6	5

exposed to periodic field visits to national institutes, industries and progressive farmer's field to stay abreast on latest technological improvements in agriculture. The visits are part of the curriculum and built in the syllabi. During the practical classes, the students are taught on the technology/ process and acquire skills through hands on training regularly.

6.4.6 Supervision of students in PG/ Ph.D. program

PG students supervised by their advisory committee consisting one major advisor and thee members one from concern department, one from minor subject and one from supporting subject.

6.4.7: Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)

- Feedback from M.Sc. (Ag) is normally collected online as well as offline for their overall experience and suggestions for improvement of the programme. It is observed that most of the students are satisfied with the research facilities and support of the staff. Some of the issues like start of Ph.D. programme are among one of the prime requirements. It has not been started due to lack of the faculty. At the same time, students needed more practical knowledge and offline classes for clearing the concept. To resolve the issue, more practical classes have been conducted as well as theoretical classes were also conducted for the preparation of NET, JRF and SRF examinations. Students were advised to go to library and

search of the research papers and literature related to advance agricultural research for updating their knowledge and improving their thesis research work. Special lectures and short-term training on advance agricultural technological aspects were also conducted for updating the knowledge and clearing the concepts of the students. Students also pointed out that moreover, Job-oriented classes should be organized.

6.4.8 Student intake and attrition in the programme for last five years.

Name of Degree programme	Actual Student admitted in last five years					Attrition (%)				
M.Sc. (Agro)	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)
	08	06	07	10	12	0	16.6	14.28	0	0

6.4.9. ICT Application in curricula delivery

Smart-class room facilities have been developed in the college. During the last five years, most faculties have developed ICT enabled teaching material and practical manuals. Audio visual teaching aid facility and smart classrooms are available in the college.

Practical/project work centred courses have been developed. Due weightage is given by the Institution to the innovative teaching methods developed by faculties. As ICT has now become a part of teaching programme. It is meeting the expectation in curricula delivery in theoretical courses through power point presentation and in practical courses through digital presentation.

A separate computer lab with infrastructure facility is available for the students. The students are being taught about the IT facilities. Sufficient furniture, ventilation and lighting facilities are provided in all the class rooms for comfortable listening and writing of the students. A table, podium, whiteboards/screen, black board with duster are available in each class room for the use of teachers. A common generator facility supplies power to all the classrooms to avoid interruption of the class during power failure.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 has been provided for UG and PG Degree Programmes, separately.

6.4.12. Certificate

I, the **Dean, Dr. H.D. Verma , College of Agriculture, Sehore** hereby certify that the information contained in Sections 6.4.1 to 6.4.9 are furnished as per the record available in the college and degree awarding university.

अधिष्ठाता
आर.ए.के.कृषि महाविद्यालय,
सीहोर (म.प्र.)

Signature of the Dean of the college with Date & Seal

6.4 SELF - STUDY REPORT FOR THE PROGRAMME, COLLEGE OF AGRICULTURE, SEHORE (M.P.)

6.4.1. Brief History of PG Degree Programme M.Sc. (Ag.) Plant Pathology

(a)Year of starting of PG degree programmes:

FACULTY	DEGREE PROGRAMME	YEAR OF START
	M.SC. (AG.) PLANT PATHOLOGY	1995

(b) About College of Agriculture, Sehore

The foundation of college of Agriculture, Sehore was laid down by the first food and Agriculture Minister of India, Late Shri Rafi Ahmad Kidwai on August 01,1952. At that time , this college was up to intermediate level. On July 17,1955 , Union Minister for Food and Agriculture, Shri Ajit Prasad Jain laid foundation of Rafi Ahmad Kidwai Undergraduate College and Agriculture Research Institute. Initially, the college was affiliated to Vikaram University, Ujjain. In the year 1964 after establishment of Jawahrlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur, this college was one of the constituent colleges of JNKVV, Jabalpur. On 19th August, 2008 a new Agricultural university-Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya was established by the bifurcation of JNKVV with head quarter at Gwalior and this college is under administrative control of RVSKVV, Gwalior.

The first M.Sc. (Plant Pathology) batch was admitted in the College in the year 1960. It has produced many stalwarts in the field of Plant Pathology and still continuing with its mandate of producing trained manpower for the country. It has major three following mandates.

Objectives of initiating PG programme: The College adopts the following goals and objective which permeate in offering of various curricula, and undertake research and extension activities by its departments to:

- Provide world-class education to our students.
- Maintain a strong basic and applied research programme to support all segments of agriculture and allied sectors through enhanced agriculture productivity and environment sustainability.
- Serve the rural society through extension activities by disseminating research based knowledge.
- Assist stakeholders through value-added endeavours, bio-based products, bio-processing, crop diversification etc.
- Monitor climate change impacts on agriculture systems and develop mitigation strategies adopting inter-disciplinary approaches

The college library is strengthened with more than 37503 books, reference book 8415 journals and e journals 3060 and audio and video CDs 35. There are two boy's hostels and one

girl's hostel with accommodation facility for about 144 students. Students are provided outdoor and indoor games, sports and gymnasium facilities in the vicinity of the hostels. For social development of students, NCC and programs are also running. The NSS students of this college have being awarded esteemed national awards. The students have also been awarded at national levels in co-cultural activities.

The alumni of the college includes Mr. Gahanna Vakankar, Ex. Commerce Advisor, Padm Sri Dr. Sant Sing Virmani Fellow Scientist of Institute of Tropical Agriculture, Shri. Mohmad Ajhar Hussain Ex-Directore Agriculture, Govt. of Madhya Pradesh Shri. G.S. Kaushal, Ex-Director Agriculture, Govt. of Madhya Pradesh, Dr. Sadhuram Sharma, Ex Sugarcane Agronomist, Shri. Sangram Singh Tomar, Ex-Director Agriculture, Govt. of Madhya Pradesh,Dr. Anant Ozha, ExM.. Commissioner, Department of farmers welfare and Agriculture development, GOI and Preeti Methil , IAS. and various others posted in different organizations in M.P. and India.D. Bank Of India, Shri Dayashankar Gupta, Deputy. Commissioner seeds, Dr. A.P. Singh.

Location

This college is situated in semi urban area of Sehore town, 40 Km away from the state capital Bhopal and 150 km away from Indore. Sehore is situated at a latitude of 23.06^{o} N, the longitude of 77.05^{o} E and at an altitude of 498.77 m above mean sea level.

Jurisdiction

1.Zonal Agricultural Research Station,College of Agriculture,Sehore (M.P.)
2. Fruit Research Station, Entkhedi, Bhopal (M.P.)
3. Krishi Vigyan Kendra, Rajgarh (M.P.)

6.4.2 Faculty strength:

S. No.	Sanctioned Faculty	Faculty in Place	Vaccant Position	Faculty recommended . By ICAR
1	Professor	0	0	-
2	Assoc. Professor	0	0	-
3	Asstt. Professor	0	1	-
4	PrincipalScientist/Professor*	2		-
5	Scientist*	1		
6	Part Time Contractual Teacher	1		

*02PrincipalScientists/Professors, 01 Scientist and 01 Part time contractual teacher are working in department to assist for completion of the course curriculum.

SN	Name of Faculty	Designatio	Specialiazation	Highest Qualification	Experience (Years)*		
					T	R	E
1	Dr. D. R. Saxena	PrincipalScientist/Professor from research project posted in department	Plant Pathology	PhD	20	33	14
2	Dr. (Mrs.) Moly Saxena	PrincipalScientist/Professor from research project posted in department	Plant Pathology	PhD	22	33	12
3	Dr. A.K. Choudhary	Scientistfrom research project posted in department	Plant Pathology	PhD	13	8	13
4	Dr. Afreen Khan	Part Time Contractual Teacher	Plant Pathology	PhD			

6.4.3 : Technical and supporting staff

S.No.	Name of the Post	No. of Post	Actual Filled
1	Lab Technician	01	01
2	Lab Attendant	01	01

-Shri P.N. Niranjan working as Lab Technician and Mukesh Burman as Lab Attendant.

6.4.4 Class Room & Laboratories

There are four undergraduate lecture halls in the college exclusively meant for the students. In Each academic block one PG lecture hall is used for accommodating the students of B.Sc. (Hons.) Agriculture. Each lecture hall is provided with the necessary teaching aids such as Black board, LCD projector, Over head projector, furniture, electrical fittings, podium *etc.* for effective delivery of the curriculum. Each lecture hall also has internet access points for use by the students. In addition, nearer to lecture hall has a Reverse Osmosis water purifier to provide drinking water facility to the students.

The laboratories are well equipped to conduct the practicals/hands on training to the students. The laboratory facilities available in each department for the B.Sc. (Hons) Agriculture are furnished in Table 6.4.4.

No. of lecture rooms with seating capacity	One with seating capacity of 25
No. of lecture rooms with LCD	One
No. of smart class-rooms	One
No. of labs under Dean's office with specialized purpose	Six postr graduate Labs.
Farm facilities	Yes
Workshops	Computer lab
Any other instructional units being utilized for the award of the Degree Programme	Seminar Rooms and examination hall with One hundred Fifty capacity

Post graduate Laboratories and Equipment's
List of equipment's available in different division laboratories

Plant Pathology		
1	Gallow lamp Incubator	1
2	Autoclave	1
3	Precession balance	1
4	Student microscopes	1
5	Binocular Microscopes/ Research Microscope monocular	1
6	Drawing apparatus or camera lucida	1

7	Germinator	1
8	Incubator	1
9	Hot plate	1
10	Distilling still	1
11	Hot air oven	1
12	Pan balance (5Kg capacity)	1
13	Haemocytometer	1
14	Projection Microscopes (2)	1
15	PH meter digital	1
16	Insta gas	1
17	R-24 centrifuge	1
18	Magnetic stirrer with hot plate	1
19	Varinjoy blender	1
20	Turbidity meter	1
21	Microphotographic equipment	1
22	H.P. gas LPG with burner	1
23	Refrigerator (Kalvinator)	1
24	Thin layer Chromatography	1
25	BOD Incubator	1
26	Hand rotary microtome	1
27	Growth Chamber	1
28	Balance analytical	1
29	Laminar air flow (2)	1
30	Soil moisture meter	1
31	Soil thermometer, set	1
32	Trinoccular Research Microscopes (2)	1
33	Horizontal autoclave	1
34	Electronic Top pan Balance	1
35	Microwave Oven	1
36	Seed germinator	1
37	Spore Trap (Air Sampling System)	1
38	Leica Image Analyzing System	1
39	Direct Inspection microscope	1
40	Deep freezer	1

The class rooms and laboratories are sufficient to meet course curricula requirement of the degree programme.

6.4.5 Conduct of practical and hands of training:

The practical syllabus is formulated based on the course needs. The student registered for a particular course has to necessarily attend 75 per cent classes conducted to gain eligibility for writing final examination. Practical classes are conducted in the field / experimental lab in the allotted practical hours by the course teacher. The practical exams

are conducted as per the prescribed time table for the students who have registered the course.

The students are exposed to hands on Training in gaining practical experience in field operations, in documenting the biometrical traits of the crops, handling of various equipments in the laboratory and estimation of various parameters based on the course requirement.

Also, exposure visit to fields, research institutes, experimental fields and farmers' fields are periodically made so as to provide practical exposure to the students. The students are sufficiently benefited with hands-on training during their practical classes. They are also exposed to periodic field visits to national institutes, industries and progressive farmer's field to stay abreast on latest technological improvements in agriculture. The visits are part of the curriculum and built in the syllabi. During the practical classes, the students are taught on the technology/ process and acquire skills through hands on training regularly.

6.4.6 Supervision of students in PG/ Ph.D. program

PG students supervised by their advisory committee consisting one major advisor and thee members one from concern department, one from minor subject and one from supporting subject.

S. No.	Name of Department	Thesis submitted in PG				
		2016	2017	2018	2019	2020
1	Plant Pathology	1	1	2	7	7

6.4.7: Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)

- Feedback from M.Sc. (Ag) is normally collected online as well as offline for their overall experience and suggestions for improvement of the programme. It is observed that most of the students are satisfied with the research facilities and support of the staff. Some of the issues like start of Ph.D. programme are among one of the prime requirements. It has not been started due to lack of the faculty. At the same time, students needed more practical knowledge and offline classes for clearing the concept. To resolve the issue, more practical classes have been conducted as well as theoretical classes were also conducted for the preparation of NET, JRF and SRF examinations. Students were advised to go to library and search of the research papers and literature related to advance agricultural research for updating their knowledge and improving their thesis research work. Special lectures and short-term training on advance agricultural technological aspects were also conducted for updating the knowledge and clearing the concepts of the students. Students also pointed out that moreover, Job-oriented classes should be organized.

6.4.8 Student intake and attrition in the programme for last five years.

Name of Degree programme	Actual Student admitted in last five years					Attrition (%)				
M.Sc. (Ag.) Plant Pathology	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)
	04	08	07	12	07	25	00	00	00	00

6.4.9. ICT Application in curricula delivery

Smart-class room facilities have been developed in the college. During the last five years, most faculties have developed ICT enabled teaching material and practical manuals. Audio visual teaching aid facility and smart classrooms are available in the college.

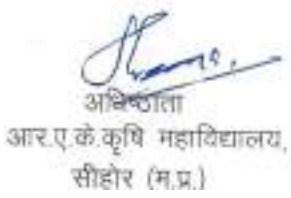
Practical/project work centred courses have been developed. Due weightage is given by the Institution to the innovative teaching methods developed by faculties. As ICT has now become a part of teaching programme. It is meeting the expectation in curricula delivery in theoretical courses through power point presentation and in practical courses through digital presentation.

A separate computer lab with infrastructure facility is available for the students. The students are being taught about the IT facilities. Sufficient furniture, ventilation and lighting facilities are provided in all the class rooms for comfortable listening and writing of the students. A table, podium, whiteboards/screen, black board with duster are available in each class room for the use of teachers. A common generator facility supplies power to all the classrooms to avoid interruption of the class during power failure.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 has been provided for UG and PG Degree Programmes, separately.

6.4.12. Certificate

I, the **Dean, Dr. H.D. Verma , College of Agriculture, Sehore** hereby certify that the information contained in Sections 6.4.1 to 6.4.9 are furnished as per the record available in the college and degree awarding university.



Signature of the Dean of the college with Date & Seal

6.4 SELF - STUDY REPORT FOR THE PROGRAMME, COLLEGE OF AGRICULTURE, SEHORE (M.P.)

6.4.1. Brief History of PG Degree Programme M.Sc. (Ag.) Soil Science

(a)Year of starting of PG degree programmes:

FACULTY	DEGREE PROGRAMME	YEAR OF START
	M.SC. (AG.) SOIL SCIENCE	2011

(b) About College of Agriculture, Sehore

The foundation of college of Agriculture, Sehore was laid down by the first food and Agriculture Minister of India, Late Shri Rafi Ahmad Kidwai on August 01,1952. At that time , this college was up to intermediate level. On July 17,1955 , Union Minister for Food and Agriculture, Shri Ajit Prasad Jain laid foundation of Rafi Ahmad Kidwai Undergraduate College and Agriculture Research Institute. Initially, the college was affiliated to Vikaram University, Ujjain. In the year 1964. after establishment of Jawahrlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur, this college was one of the constituent colleges of JNKVV, Jabalpur. On 19th August, 2008 a new Agricultural university-Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya was established by the bifurcation of JNKVV with head quarter at Gwalior and this college is under administrative control of RVSKVV, Gwalior.

The first M.Sc. (Ag.) Soil Science & Agricultural Chemistry batch was admitted in the College in the year 1960. It has produced many stalwarts in the field of Soil Science &Agricultural Chemistry and still continuing with its mandate of producing trained manpower for the country. It has major three following mandates.

Objectives of initiating PG programme: The College adopts the following goals and objective which permeate in offering of various curricula, and undertake research and extension activities by its departments to:

- Provide world-class education to our students.
- Maintain a strong basic and applied research programme to support all segments of agriculture and allied sectors through enhanced agriculture productivity and environment sustainability.
- Serve the rural society through extension activities by disseminating research based knowledge.
- Assist stakeholders through value-added endeavours, bio-based products, bio-processing, crop diversification etc.
- Monitor climate change impacts on agriculture systems and develop mitigation strategies adopting inter-disciplinary approaches

The college library is strengthened with more than 37503 books, reference book 8415 journals and e journals 3060 and audio and video CDs 35. There are two boy's hostels and one girl's hostel with accommodation facility for about 144 students. Students are provided outdoor and indoor games, sports and gymnasium facilities in the vicinity of the hostels. For social development of students, NCC and programs are also running. The NSS students of this college have being awarded esteemed national awards. The students have also been awarded at national levels in co-cultural activities.

The alumni of the college includes Mr. Gahanna Vakankar, Ex. Commerce Advisor, Padm Sri Dr. Sant Sing Virmani Fellow Scientist of Institute of Tropical Agriculture, Shri. Mohmad Ajhar Hussain Ex-Directore Agriculture, Govt. of Madhya Pradesh Shri. G.S. Kaushal, Ex-Director Agriculture, Govt. of Madhya Pradesh, Dr. Sadhuram Sharma, Ex Sugarcane Agronomist, Shri. Sangram Singh Tomar, Ex-Director Agriculture, Govt. of Madhya Pradesh,Dr. Anant Ozha, ExM.. Commissioner, Department of farmers welfare and Agriculture development, GOI and Preeti Methil , IAS. and various others posted in different organizations in M.P. and India.D. Bank Of India, Shri Dayashankar Gupta, Deputy. Commissioner seeds, Dr. A.P. Singh.

Location

This college is situated in semi urban area of Sehore town, 40 Km away from the state capital Bhopal and 150 km away from Indore. Sehore is situated at a latitude of 23.06º N, the longitude of 77.05º E and at an altitude of 498.77 m above mean sea level.

Jurisdiction

1.Zonal Agricultural Research Station,College of Agriculture,Sehore (M.P.)
2. Fruit Research Station, Entkhedi, Bhopal (M.P.)
3. Krishi Vigyan Kendra, Rajgarh (M.P.)

6.4.2 Faculty strength:

S. No.	Sanctioned Faculty	Faculty in Place	Vaccant Position	Faculty recommended . By ICAR
1	Professor	0	0	-
2	Assoc. Professor	0	1	-
3	Asstt. Professor	0	2	-
4	PrincipalScientist/Professor*	2	-	-
4	Part time contractual teacher*	1	-	-

*02PrincipalScientist/Professor& 01 part time contractual teacher are working in department to assist for completion of the course curriculum.

SN	Name of Faculty	Designation	Specialiazation	Highest Qualification	Experience (Years)*		
					T	R	E
1	Dr. S.C. Gupta	PrincipalScientist/Professor from research project posted in department	Soil Science & Agril. Chemistry	PhD	29	33	23
2	Dr. R.C. Jain	PrincipalScientist/Professor from research project posted in department	Soil Science & Agril. Chemistry	PhD	30	33	33
3	Ku. Polumy Chakraworti	Part time contractual teacher	Environmental science				

6.4.3: Technical and supporting staff

S.No.	Name of the Post	No. of Post	Actual Filled
1	Lab Technician	01	01
2	Lab Attendant	01	01

- Smt. Sarita Mandekar working as Lab Technician and Shri R.S. Khede as aLab Attendant.

6.4.4 Class Room & Laboratories

There are four undergraduate lecture halls in the college exclusively meant for the students. In Each academic block one PG lecture hall is used for accommodating the students of B.Sc. (Hons.) Agriculture. Each lecture hall is provided with the necessary teaching aids such as Black board, LCD projector, Over head projector, furniture, electrical fittings, podium *etc.* for effective delivery of the curriculum. Each lecture hall also has internet access points for use by the students. In addition, nearer to lecture hall has a Reverse Osmosis water purifier to provide drinking water facility to the students.

The laboratories are well equipped to conduct the practicals/hands on training to the students. The laboratory facilities available in each department for the B.Sc. (Hons) Agriculture are furnished in Table 6.4.4.

No. of lecture rooms with seating capacity	One with seating capacity of 25
No. of lecture rooms with LCD	One
No. of smart class-rooms	One
No. of labs under Dean's office with specialized purpose	Six post graduate Labs.
Farm facilities	Yes
Workshops	Computer lab
Any other instructional units being utilized for the award of the Degree Programme	Seminar Rooms and examination hall with One hundred Fifty capacity

S

Micronutrient lab working table RAK COA Sehore

Post graduate Laboratories and Equipment's
List of equipment's available in different division laboratories

SOIL SCIENCE & AGRICULTURE CHEMISTRY		
(A). **Central Laboratory**		
1	INSOAW Seed counter	1
2	YORCO Rotary shaker/ Horizontal	1
3	Flame photometer EI Model 381 E	1
4	Horizonal laminar flow	1
5	Electric Top pan balance citizen	1
6	Nitrogen analyzer (Digestion and distillation unit) Kel plus	1
7	Minilab /Soil Tester	1
(B). **Food Science lab**		
8	Vaccum Drying Oven electric	1
9	Furnace Type 1500	1
10	Spectronic 20	1
11	Centrifuge (REMI)	1
12	Incubator/Oven	1
(C). **Soil Testing Lab**		
13	Kel Plus Nitrogen analyzer	1
14	pH meter	1
15	Ec meter	1
16	Orbital shaking Incubator Remi Make (Environmental Shaker)	1
17	Flame Photometer (Systronics)	1
18	Visible Spectrophotometer	1

19	Atomic Absorption Spectrophotometer (AAS)	1
20	Horizontal Reciprocal Shaker	1
21	Lab willey grinder	1
(D) **Soil Science & Ag.Chemistry**		
22	Conductivity Bridge Systronic digital type 304	1
23	Incubator Bacteriological memmert type	1
24	Visible Spectrophotometer-177	1
25	Microprocessor based Conductivity meter	1
26	Quartz Double Distillation unit	1
27	Automatic Digestion System	1
28	Microprocessor Based pH meter 1010 (Esico)	1
29	Digital Analytical Balance-Wensar MAB-220	1
30	Rotary Shaker	1
(E)	**Soybean Microbiology**	1
1	Atomic Absorption Spectrophotometer	1
2	Refrigerator	1

The class rooms and laboratories are sufficient to meet course curricula requirement of the degree programme.

6.4.5 Conduct of practical and hands of training:

The practical syllabus is formulated based on the course needs. The student registered for a particular course has to necessarily attend 75 per cent classes conducted to gain eligibility for writing final examination. Practical classes are conducted in the field / experimental lab in the allotted practical hours by the course teacher. The practical exams are conducted as per the prescribed time table for the students who have registered the course.

The students are exposed to hands on Training in gaining practical experience in field operations, in documenting the biometrical traits of the crops, handling of various equipments in the laboratory and estimation of various parameters based on the course requirement.

Also, exposure visit to fields, research institutes, experimental fields and farmers' fields are periodically made so as to provide practical exposure to the students. The students are sufficiently benefited with hands-on training during their practical classes. They are also exposed to periodic field visits to national institutes, industries and progressive farmer's field to stay abreast on latest technological improvements in agriculture. The visits are part of the curriculum and built in the syllabi. During the practical classes, the students are taught on the technology/ process and acquire skills through hands on training regularly.

6.4.6 Supervision of students in PG/ Ph.D. program

PG students supervised by their advisory committee consisting one major advisor and thee members one from concern department, one from minor subject and one from supporting subject.

S. No.	Name of Department	Thesis submitted in PG				
		2016	2017	2018	2019	2020
1	Soil Science & Agricultural Chemistry	5	10	4	7	8

6.4.7: Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)

- Feedback from M.Sc. (Ag) is normally collected online as well as offline for their overall experience and suggestions for improvement of the programme. It is observed that most of the students are satisfied with the research facilities and support of the staff. Some of the issues like start of Ph.D. programme are among one of the prime requirements. It has not been started due to lack of the faculty. At the same time, students needed more practical knowledge and offline classes for clearing the concept. To resolve the issue, more practical classes have been conducted as well as theoretical classes were also conducted for the preparation of NET, JRF and SRF examinations. Students were advised to go to library and search of the research papers and literature related to advance agricultural research for updating their knowledge and improving their thesis research work. Special lectures and short-term training on advance agricultural technological aspects were also conducted for updating the knowledge and clearing the concepts of the students. Students also pointed out that moreover, Job-oriented classes should be organized.

6.4.8 Student intake and attrition in the programme for last five years.

Name of Degree programme	Actual Student admitted in last five years					Attrition (%)				
M.Sc. (Ag.) Soil Science & Agricultural Chemistry	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)
	06	05	08	11	10	16.6	20	12.5	9.09	00

6.4.9. ICT Application in curricula delivery

Smart-class room facilities have been developed in the college. During the last five years, most faculties have developed ICT enabled teaching material and practical manuals. Audio visual teaching aid facility and smart classrooms are available in the college.

Practical/project work centred courses have been developed. Due weightage is given by the Institution to the innovative teaching methods developed by faculties. As ICT has now become a part of teaching programme. It is meeting the expectation in curricula delivery in theoretical courses through power point presentation and in practical courses through digital presentation.

A separate computer lab with infrastructure facility is available for the students. The students are being taught about the IT facilities. Sufficient furniture, ventilation and lighting facilities are provided in all the class rooms for comfortable listening and writing of the students. A table, podium, whiteboards/screen, black board with duster are available in each class room for the use of teachers. A common generator facility supplies power to all the classrooms to avoid interruption of the class during power failure.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 has been provided for UG and PG Degree Programmes, separately.

6.4.12. Certificate

I, the **Dean, Dr. H.D. Verma , College of Agriculture, Sehore** hereby certify that the information contained in Sections 6.4.1 to 6.4.9 are furnished as per the record available in the college and degree awarding university.

अधिष्ठाता
आर.ए.के.कृषि महाविद्यालय,
सीहोर (म.प्र.)

Signature of the Dean of the college with Date & Seal

6.4 SELF - STUDY REPORT FOR THE PROGRAMME, COLLEGE OF AGRICULTURE, SEHORE (M.P.)

6.4.1. Brief History of PG Degree Programme M.Sc. (Ag.) Genetics & Plant Breeding

(a)Year of starting of PG degree programmes:-

FACULTY	DEGREE PROGRAMME	YEAR OF START
	M.SC. (AG.) GENETICS & PLANT BREEDING	1986

(b) About College of Agriculture, Sehore

The foundation of college of Agriculture, Sehore was laid down by the first food and Agriculture Minister of India, Late Shri Rafi Ahmad Kidwai on August 01,1952. At that time , this college was up to intermediate level. On July 17,1955 , Union Minister for Food and Agriculture, Shri Ajit Prasad Jain laid foundation of Rafi Ahmad Kidwai Undergraduate College and Agriculture Research Institute. Initially, the college was affiliated to Vikaram University, Ujjain. In the year 1964 after establishment of Jawahrlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur, this college was one of the constituent colleges of JNKVV, Jabalpur. On 19th August, 2008 a new Agricultural university-Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya was established by the bifurcation of JNKVV with head quarter at Gwalior and this college is under administrative control of RVSKVV, Gwalior.

The first M.Sc. (Plant Breeding and Genetics) batch was admitted in the College in the year 1960. It has produced many stalwarts in the field of Plant breeding and Genetics and still continuing with its mandate of producing trained manpower for the country. It has major three following mandates.

Objectives of initiating PG programme: The College adopts the following goals and objective which permeate in offering of various curricula, and undertake research and extension activities by its departments to:

- Provide world-class education to our students.
- Maintain a strong basic and applied research programme to support all segments of agriculture and allied sectors through enhanced agriculture productivity and environment sustainability.
- Serve the rural society through extension activities by disseminating research based knowledge.
- Assist stakeholders through value-added endeavours, bio-based products, bio-processing, crop diversification etc.
- Monitor climate change impacts on agriculture systems and develop mitigation strategies adopting inter-disciplinary approaches

The college library is strengthened with more than 37503 books, reference book 8415 journals and e journals 3060 and audio and video CDs 35. There are two boy's hostels and one

girl's hostel with accommodation facility for about 144 students. Students are provided outdoor and indoor games, sports and gymnasium facilities in the vicinity of the hostels. For social development of students, NCC and programs are also running. The NSS students of this college have being awarded esteemed national awards. The students have also been awarded at national levels in co-cultural activities.

The alumni of the college includes Mr. Gahanna Vakankar, Ex. Commerce Advisor, Padm Sri Dr. Sant Sing Virmani Fellow Scientist of Institute of Tropical Agriculture, Shri. Mohmad Ajhar Hussain Ex-Directore Agriculture, Govt. of Madhya Pradesh Shri. G.S. Kaushal, Ex-Director Agriculture, Govt. of Madhya Pradesh, Dr. Sadhuram Sharma, Ex Sugarcane Agronomist, Shri. Sangram Singh Tomar, Ex-Director Agriculture, Govt. of Madhya Pradesh,Dr. Anant Ozha, ExM.. Commissioner, Department of farmers welfare and Agriculture development, GOI and Preeti Methil , IAS. and various others posted in different organizations in M.P. and India.D. Bank Of India, Shri Dayashankar Gupta, Deputy. Commissioner seeds, Dr. A.P. Singh.

Location

This college is situated in semi urban area of Sehore town, 40 Km away from the state capital Bhopal and 150 km away from Indore. Sehore is situated at a latitude of 23.06^{o} N, the longitude of 77.05^{o} E and at an altitude of 498.77 m above mean sea level.

Jurisdiction

1.Zonal Agricultural Research Station,College of Agriculture,Sehore (M.P.)

2. Fruit Research Station, Entkhedi, Bhopal (M.P.)

3. Krishi Vigyan Kendra, Rajgarh (M.P.)

6.4.2 Faculty strength:

S. No.	Sanctioned Faculty	Faculty in Place	Vaccant Position	Faculty recommended By ICAR
1	Professor	0	0	-
2	Assoc. Professor	0	0	-
3	Asstt. Professor	0	1	-
4	PrincipalScientist/Professor*	2	-	-
5	Scientist*	-	-	-

*02 PrincipalScientists and 01 Scientist are working in department to assist for completion of the course curriculum.

SN	Name of Faculty	Designation	Specialiazation	Highest Qualification	Experience (Years)*		
					T	R	E
1	Dr. S. R. Ramgiri	PrincipalScientist/Professor from research project posted in department	Plant Breeding & Genetics	PhD	20	14	10
2	Dr.M.Yasin	PrincipalScientist/Professor from research project posted in department	Plant Breeding & Genetics	PhD	32	32	32
3	Dr. Lekhram	Scientistfrom research project posted in department	Plant Breeding & Genetics	PhD	14	14	-

6.4.3 : Technical and supporting staff

S.No.	Name of the Post	No. of Post	Actual Filled
1.	Lab Attendant	01	01

- Ku. Firda beck is working in the department as a Lab Attendant.

6.4.4 Class Room & Laboratories

There are four undergraduate lecture halls in the college exclusively meant for the students. In Each academic block one PG lecture hall is used for accommodating the students of B.Sc. (Hons.) Agriculture. Each lecture hall is provided with the necessary teaching aids such as Black board, LCD projector, Over head projector, furniture, electrical fittings, podium *etc.* for effective delivery of the curriculum. Each lecture hall also has internet access points for use by the students. In addition, nearer to lecture hall has a Reverse Osmosis water purifier to provide drinking water facility to the students.

The laboratories are well equipped to conduct the practicals/hands on training to the students. The laboratory facilities available in each department for the B.Sc. (Hons) Agriculture are furnished in Table 6.4.4.

No. of lecture rooms with seating capacity	One with seating capacity of 25
No. of lecture rooms with LCD	One
No. of smart class-rooms	One
No. of labs under Dean's office with specialized purpose	Six postr graduate Labs.
Farm facilities	Yes
Workshops	Computer lab
Any other instructional units being utilized for the award of the Degree Programme	Seminar Rooms and examination hall with One hundred Fifty capacity

Post graduate Laboratories and Equipment's

List of equipment's available in different division laboratories

genetics & Plant breeding		
S.No.	Particulars	Quantity
1	Ice flaking machine	1
2	Double distilled water unite	1
3	Tissue culture racks	1
4	Water bath	1
5	Deep freezer	1
6	Autoclave	1
7	Cryogenic container	1
8	Fume hood	1
9	Electric balance	2
10	Leveling table for gel casting	1
11	Electrophoresis unite power supply	1
12	Magnetic stirrer	2
13	Hot plate	1
14	Ultrasonicator	1
15	pH meter	2
16	Programmable centrifuge	1
17	Vacuum pump	1
18	Rotating tube carrier	1
19	Trinocular microscope	1
20	Orbital shaker	1
21	Digital ph meter	1
22	Tube rotator	1
23	Vortex shaker	1
24	Electrophoresis unite	2
25	Setiz filter	1
26	Microphotography system	1
27	Binocular microscope	1
28	Rotary flask shaker	1
29	Digital RPM meter	1
30	DSLR camera	1
31	UV spectrophotometer	1
32	Gel documentation system	1

33	Laminar flow	1
34	LCD projector	1
35	High speed refrigerated centrifuge	1
36	Referizrator 330lit	1
37	File cabinet	1
38	Godrej glass door	3
39	Kirlosker green brand generator	1
40	Airconditioners	5

The class rooms and laboratories are sufficient to meet course curricula requirement of the degree programme.

6.4.5 Conduct of practical and hands of training:

The practical syllabus is formulated based on the course needs. The student registered for a particular course has to necessarily attend 75 per cent classes conducted to gain eligibility for writing final examination. Practical classes are conducted in the field / experimental lab in the allotted practical hours by the course teacher. The practical exams are conducted as per the prescribed time table for the students who have registered the course.

The students are exposed to hands on Training in gaining practical experience in field operations, in documenting the biometrical traits of the crops, handling of various equipments in the laboratory and estimation of various parameters based on the course requirement.

Also, exposure visit to fields, research institutes, experimental fields and farmers' fields are periodically made so as to provide practical exposure to the students. The students are sufficiently benefited with hands-on training during their practical classes. They are also exposed to periodic field visits to national institutes, industries and progressive farmer's field to stay abreast on latest technological improvements in agriculture. The visits are part of the curriculum and built in the syllabi. During the practical classes, the students are taught on the technology/ process and acquire skills through hands on training regularly.

6.4.6 Supervision of students in PG/ Ph.D. program

PG students supervised by their advisory committee consisting one major advisor and thee members one from concern department, one from minor subject and one from supporting subject.

S. No.	Name of Department	Thesis submitted in PG				
		2016	2017	2018	2019	2020
1	Genetics & Plant Breeding	6	7	8	8	7

6.4.7: Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)

- Feedback from M.Sc. (Ag) is normally collected online as well as offline for their overall experience and suggestions for improvement of the programme. It is observed that most of the students are satisfied with the research facilities and support of the staff. Some of the issues like start of Ph.D. programme are among one of the prime requirements. It has not been started due to lack of the faculty. At the same time, students needed more practical knowledge and offline classes for clearing the concept. To resolve the issue, more practical classes have been conducted as well as theoretical classes were also conducted for the preparation of NET, JRF and SRF examinations. Students were advised to go to library and search of the research papers and literature related to advance agricultural research for updating their knowledge and improving their thesis research work. Special lectures and short-term training on advance agricultural technological aspects were also conducted for updating the knowledge and clearing the concepts of the students. Students also pointed out that moreover, Job-oriented classes should be organized.

6.4.8 Student intake and attrition in the programme for last five years.

Name of Degree programme	Actual Student admitted in last five years					Attrition (%)				
M.Sc. (Ag.) Pl. Breeding & Genetics	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)
	07	06	07	09	09	00	00	00	00	00

6.4.9. ICT Application in curricula delivery

Smart-class room facilities have been developed in the college. During the last five years, most faculties have developed ICT enabled teaching material and practical manuals. Audio visual teaching aid facility and smart classrooms are available in the college.

Practical/project work centred courses have been developed. Due weightage is given by the Institution to the innovative teaching methods developed by faculties. As ICT has now

become a part of teaching programme. It is meeting the expectation in curricula delivery in theoretical courses through power point presentation and in practical courses through digital presentation.

A separate computer lab with infrastructure facility is available for the students. The students are being taught about the IT facilities. Sufficient furniture, ventilation and lighting facilities are provided in all the class rooms for comfortable listening and writing of the students. A table, podium, whiteboards/screen, black board with duster is available in each class room for the use of teachers. A common generator facility supplies power to all the classrooms to avoid interruption of the class during power failure.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 has been provided for UG and PG Degree Programmes, separately.

6.4.12. Certificate

I, the **Dean, Dr. H.D. Verma , College of Agriculture, Sehore** hereby certify that the information contained in Sections 6.4.1 to 6.4.9 are furnished as per the record available in the college and degree awarding university.

अधिष्ठाता
आर.ए.के.कृषि महाविद्यालय,
सीहोर (म.प्र.)

Signature of the Dean of the college with Date & Seal

6.4 SELF - STUDY REPORT FOR THE PROGRAMME, COLLEGE OF AGRICULTURE, SEHORE (M.P.)

6.4.1. Brief History of PG Degree Programme M.Sc. (Ag.) Entomology

(a)Year of starting of PG degree programmes:

FACULTY	DEGREE PROGRAMME	YEAR OF START
	M.SC. (AG.) ENTOMOLOGY	1984

(b) About College of Agriculture, Sehore

The foundation of college of Agriculture, Sehore was laid down by the first food and Agriculture Minister of India, Late Shri Rafi Ahmad Kidwai on August 01,1952. At that time , this college was up to intermediate level. On July 17,1955 , Union Minister for Food and Agriculture, Shri Ajit Prasad Jain laid foundation of Rafi Ahmad Kidwai Undergraduate College and Agriculture Research Institute. Initially, the college was affiliated to Vikaram University, Ujjain. In the year 1964. after establishment of Jawahrlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur, this college was one of the constituent colleges of JNKVV, Jabalpur. On 19th August, 2008 a new Agricultural university-Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya was established by the bifurcation of JNKVV with head quarter at Gwalior and this college is under administrative control of RVSKVV, Gwalior.

The first M.Sc. (Entomology) batch was admitted in the College in the year 1960. It has produced many stalwarts in the field of Entomology and still continuing with its mandate of producing trained manpower for the country. It has major three following mandates.

Objectives of initiating PG programme: The College adopts the following goals and objective which permeate in offering of various curricula, and undertake research and extension activities by its departments to:

- Provide world-class education to our students.
- Maintain a strong basic and applied research programme to support all segments of agriculture and allied sectors through enhanced agriculture productivity and environment sustainability.
- Serve the rural society through extension activities by disseminating research based knowledge.
- Assist stakeholders through value-added endeavours, bio-based products, bio-processing, crop diversification etc.
- Monitor climate change impacts on agriculture systems and develop mitigation strategies adopting inter-disciplinary approaches

The college library is strengthened with more than 37503 books, reference book 8415 journals and e journals 3060 and audio and video CDs 35. There are two boy's hostels and one girl's hostel with accommodation facility for about 144 students. Students are provided outdoor and indoor games, sports and gymnasium facilities in the vicinity of the hostels. For social development of students, NCC and programs are also running. The NSS students of this college have being awarded esteemed national awards. The students have also been awarded at national levels in co-cultural activities.

The alumni of the college include Mr. Gahanna Vakankar, Ex. Commerce Advisor, Padm Sri Dr. Sant Sing Virmani Fellow Scientist of Institute of Tropical Agriculture, Shri. Mohmad Ajhar Hussain Ex. Directore Agriculture, Govt. of Madhya Pradesh Shri. G.S. Kaushal, Ex-Director Agriculture, Govt. of Madhya Pradesh, Dr. Sadhuram Sharma, Ex Sugarcane Agronomist, Shri. Sangram Singh Tomar, Ex-Director Agriculture, Govt. of Madhya Pradesh,Dr. Anant Ozha, ExM.. Commissioner, Department of farmers welfare and Agriculture development, GOI and Preeti Methil, IAS. and various others posted in different organizations in M.P. and India.D. Bank Of India, Shri Dayashankar Gupta, Deputy. Commissioner seeds, Dr. A.P. Singh.

Location

This college is situated in semi urban area of Sehore town, 40 Km away from the state capital Bhopal and 150 km away from Indore. Sehore is situated at a latitude of 23.06º N, the longitude of 77.05º E and at an altitude of 498.77 m above mean sea level.

Jurisdiction

1.Zonal Agricultural Research Station,College of Agriculture,Sehore (M.P.)
2. Fruit Research Station, Entkhedi, Bhopal (M.P.)
3. Krishi Vigyan Kendra, Rajgarh (M.P.)

6.4.2 Faculty strength:

S. No.	Sanctioned Faculty	Faculty in Place	Vaccant Position	Faculty recommended . By ICAR
1	Professor	0	0	-
2	Assoc. Professor	0	0	-
3	Asstt. Professor	0	2	-
4	Principal Scientist/Professor*	1		-
5	Part time contractual teacher*	1	-	-

*01 PrincipalScientist/Professor& 01 Part time contractual teacher are working in department to assist for completion of the course curriculum.

SN	Name of Faculty	Designation	Specialiazation	Highest Qualification	Experience (Years)*		
					T	R	E
1	Dr.(Mrs.)Nanda Khandwe	PrincipalScientist /Professor from research project posted in department	Entomology	PhD	36	36	36
2	Dr. Bharat Lal	Part time contractual teacher	Entomology	PhD			

6.4.3: Technical and supporting staff

S.No.	Name of the Post	No. of Post	Actual Filled
1.	Lab Technician	01	01

-S.S. Deora working in the department as a Lab Technician

6.4.4 Class Room & Laboratories

There are four undergraduate lecture halls in the college exclusively meant for the students. In Each academic block one PG lecture hall is used for accommodating the students of B.Sc. (Hons.) Agriculture. Each lecture hall is provided with the necessary teaching aids such as Black board, LCD projector, Over head projector, furniture, electrical fittings, podium etc. for effective delivery of the curriculum. Each lecture hall also has internet access points for use by the students. In addition, nearer to lecture hall has a Reverse Osmosis water purifier to provide drinking water facility to the students.

The laboratories are well equipped to conduct the practicals/hands on training to the students. The laboratory facilities available in each department for the B.Sc. (Hons) Agriculture are furnished in Table 6.4.4.

No. of lecture rooms with seating capacity	One with seating capacity of 25
No. of lecture rooms with LCD	One
No. of smart class-rooms	One
No. of labs under Dean's office with specialized purpose	Six postr graduate Labs.
Farm facilities	Yes
Workshops	Computer lab
Any other instructional units being utilized for the award of the Degree Programme	Seminar Rooms and examination hall with One hundred Fifty capacity

Post graduate Laboratories and Equipment's
List of equipment's available in different division laboratories

S.No.	Particulars	Quantity
1	Binocular Microscope	13
2	Compound Microscope	31
3	Camera Lucida	2
4	Stage Microscope	1
5	Hair Hygrometer	2
6	Tripal purpose microscope	1
7	Micrometer eye piece& disc spencer eye piece	1
8	Flash Gun	1
9	Incubator	3
10	Spring Balance	2
11	Hot plates	2
12	Hot air oven	1
13	Over Head Projector	1
14	Humidifier	1
15	Micro Projector	1
16	Electronic weighing Balance	1
17	Stereoscopic Binocular Microscope	1

18	Insect drying chamber	1
19	Spring Balance	2
20	Sub Stage micrometer Model GL -1A	1
21	Digital Screw gauge	1
22	Electronic Weighing Balance for field	1

6.4.5 Conduct of practical and hands of training:

The practical syllabus is formulated based on the course needs. The student registered for a particular course has to necessarily attend 75 per cent classes conducted to gain eligibility for writing final examination. Practical classes are conducted in the field / experimental lab in the allotted practical hours by the course teacher. The practical exams are conducted as per the prescribed time table for the students who have registered the course.

The students are exposed to hands on Training in gaining practical experience in field operations, in documenting the biometrical traits of the crops, handling of various equipments in the laboratory and estimation of various parameters based on the course requirement.

Also, exposure visit to fields, research institutes, experimental fields and farmers' fields are periodically made so as to provide practical exposure to the students. The students are sufficiently benefited with hands-on training during their practical classes. They are also exposed to periodic field visits to national institutes, industries and progressive farmer's field to stay abreast on latest technological improvements in agriculture. The visits are part of the curriculum and built in the syllabi. During the practical classes, the students are taught on the technology/ process and acquire skills through hands on training regularly.

6.4.6 Supervision of students in PG/ Ph.D. program

PG students supervised by their advisory committee consisting one major advisor and thee members one from concern department, one from minor subject and one from supporting subject.

S. No.	Name of Department	Thesis submitted in PG				
		2016	2017	2018	2019	2020
1	Entomology	8	7	7	10	11

6.4.7: Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)

- Feedback from M.Sc. (Ag) is normally collected online as well as offline for their overall experience and suggestions for improvement of the programme. It is observed that most of the students are satisfied with the research facilities and support of the staff. Some of the issues like start of Ph.D. programme are among one of the prime requirements. It has not been started due to lack of the faculty. At the same time, students needed more practical knowledge and offline classes for clearing the concept. To resolve the issue, more practical classes have been conducted as well as theoretical classes were also conducted for the preparation of NET, JRF and SRF examinations. Students were advised to go to library and search of the research papers and literature related to advance agricultural research for updating their knowledge and improving their thesis research work. Special lectures and short-term training on advance agricultural technological aspects were also conducted for updating the knowledge and clearing the concepts of the students. Students also pointed out that moreover, Job-oriented classes should be organized.

6.4.8 Student intake and attrition in the programme for last five years.

Name of Degree programme	Actual Student admitted in last five years					Attrition (%)				
M.Sc. (Entomology)	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)
	08	07	07	12	12	00	14.28	00	8.33	8.33

6.4.9. ICT Application in curricula delivery

Smart-class room facilities have been developed in the college. During the last five years, most faculties have developed ICT enabled teaching material and practical manuals. Audio visual teaching aid facility and smart classrooms are available in the college.

Practical/project work centred courses have been developed. Due weightage is given by the Institution to the innovative teaching methods developed by faculties. As ICT has now become a part of teaching programme. It is meeting the expectation in curricula delivery in

theoretical courses through power point presentation and in practical courses through digital presentation.

A separate computer lab with infrastructure facility is available for the students. The students are being taught about the IT facilities. Sufficient furniture, ventilation and lighting facilities are provided in all the class rooms for comfortable listening and writing of the students. A table, podium, whiteboards/screen, black board with duster are available in each class room for the use of teachers. A common generator facility supplies power to all the classrooms to avoid interruption of the class during power failure.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 has been provided for UG and PG Degree Programmes, separately.

6.4.12. Certificate

I, the **Dean, Dr. H.D. Verma , College of Agriculture, Sehore** hereby certify that the information contained in Sections 6.4.1 to 6.4.9 are furnished as per the record available in the college and degree awarding university.

अधिष्ठाता
आर.ए.के.कृषि महाविद्यालय,
सीहोर (म.प्र.)

Signature of the Dean of the college with Date & Seal

6.4 SELF - STUDY REPORT FOR THE PROGRAMME, COLLEGE OF AGRICULTURE, SEHORE (M.P.)

6.4.1. Brief History of PG Degree Programme (M.Sc. (Ag.) Agricultural Extension

(a)Year of starting of PG degree programmes:

FACULTY	DEGREE PROGRAMME	YEAR OF START
	M.Sc. (Ag.) AGRICULTURAL EXTENSION	1960

(b) About College of Agriculture, Sehore

The foundation of college of Agriculture, Sehore was laid down by the first food and Agriculture Minister of India, Late Shri Rafi Ahmad Kidwai on August 01, 1952. At that time, this college was up to intermediate level. On July 17, 1955, Union Minister for Food and Agriculture, Shri Ajit Prasad Jain laid foundation of Rafi Ahmad Kidwai Undergraduate College and Agriculture Research Institute. Initially, the college was affiliated to Vikaram University, Ujjain. In the year 1964. after establishment of Jawahrlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur, this college was one of the constituent colleges of JNKVV, Jabalpur. On 19th August, 2008 a new Agricultural university-Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya was established by the bifurcation of JNKVV with head quarter at Gwalior and this college is under administrative control of RVSKVV, Gwalior.

The first M.Sc Ag. (Extension) batch was admitted in the College in the year 1960. It has produced many stalwarts in the field of Extension and still continuing with its mandate of producing trained manpower for the country. It has major three following mandates.

Objectives of initiating PG programme: The College adopts the following goals and objective which permeate in offering of various curricula, and undertake research and extension activities by its departments to:

- Provide world-class education to our students.
- Maintain a strong basic and applied research programme to support all segments of agriculture and allied sectors through enhanced agriculture productivity and environment sustainability.
- Serve the rural society through extension activities by disseminating research based knowledge.
- Assist stakeholders through value-added endeavours, bio-based products, bio-processing, crop diversification etc.
- Monitor climate change impacts on agriculture systems and develop mitigation strategies adopting inter-disciplinary approaches

The college library is strengthened with more than 37503 books, reference book 8415 journals and e journals 3060 and audio and video CDs 35. There are two boy's hostels and one girl's hostel with accommodation facility for about 144 students. Students are provided outdoor and indoor games, sports and gymnasium facilities in the vicinity of the hostels. For social development of students, NCC and programs are also running. The NSS students of this college have being awarded esteemed national awards. The students have also been awarded at national levels in co-cultural activities.

The alumni of the college includes Mr. Gahanna Vakankar, Ex. Commerce Advisor, Padm Sri Dr. Sant Sing Virmani Fellow Scientist of Institute of Tropical Agriculture, Shri. Mohmad Ajhar Hussain Ex-Directore Agriculture, Govt. of Madhya Pradesh Shri. G.S. Kaushal, Ex-Director Agriculture, Govt. of Madhya Pradesh, Dr. Sadhuram Sharma, Ex Sugarcane Agronomist, Shri. Sangram Singh Tomar, Ex-Director Agriculture, Govt. of Madhya Pradesh,Dr. Anant Ozha, ExM.. Commissioner, Department of farmers welfare and Agriculture development, GOI and Preeti Methil , IAS. and various others posted in different organizations in M.P. and India.D. Bank Of India, Shri Dayashankar Gupta, Deputy. Commissioner seeds, Dr. A.P. Singh.

Location

This college is situated in semi urban area of Sehore town, 40 Km away from the state capital Bhopal and 150 km away from Indore. Sehore is situated at a latitude of 23.06º N, the longitude of 77.05º E and at an altitude of 498.77 m above mean sea level.

Jurisdiction

1.Zonal Agricultural Research Station,College of Agriculture,Sehore (M.P.)

2. Fruit Research Station, Entkhedi, Bhopal (M.P.)

3. Krishi Vigyan Kendra, Rajgarh (M.P.)

6.4.2 Faculty strength:

S. No.	Sanctioned Faculty	Faculty in Place	Vaccant Position	Faculty recommended . By ICAR
1	Professor	0	0	-
2	Assoc. Professor	0	1	-
3	Asstt. Professor	0	3	-
4	Part time contractual teacher*	2	-	-

*02 Part time contractual teacher are working in department to assist for completing the course curriculum.

SN	Name of Faculty	Designation	Specialiazation		Experience (Years)*

				Highest Qualification	T	R	E
1	Dr. K.N. Pathak	Professor	Agril. Extension	PhD	15	23	23
2	Abhilasha Sharma	Part Time contractual Teacher	Agril. Extension				
3	Dr. Rohan sharma	Part Time contractual Teacher	Agril. Extension	PhD			

6.4.3 : Technical and supporting staff

S.No.	Name of the Post	No. of Post	Actual Filled
-	-	-	-

6.4.4 Class Room & Laboratories

There are four undergraduate lecture halls in the college exclusively meant for the students. In Each academic block one PG lecture hall is used for accommodating the students of B.Sc. (Hons.) Agriculture. Each lecture hall is provided with the necessary teaching aids such as Black board, LCD projector, Over head projector, furniture, electrical fittings, podium *etc.* for effective delivery of the curriculum. Each lecture hall also has internet access points for use by the students. In addition, nearer to lecture hall has a Reverse Osmosis water purifier to provide drinking water facility to the students.

The laboratories are well equipped to conduct the practicals/hands on training to the students. The laboratory facilities available in each department for the B.Sc. (Hons) Agriculture are furnished in Table 6.4.4.

No. of lecture rooms with seating capacity	One with seating capacity of 25
No. of lecture rooms with LCD	One
No. of smart class-rooms	One
No. of labs under Dean's office with specialized purpose	Six postr graduate Labs.
Farm facilities	Yes
Workshops	Computer lab
Any other instructional units being utilized for the award of the Degree Programme	Seminar Rooms and examination hall with One hundred Fifty capacity

6.4.5 Conduct of practical and hands of training:

The practical syllabus is formulated based on the course needs. The student registered for a particular course has to necessarily attend 75 per cent classes conducted to gain eligibility for writing final examination. Practical classes are conducted in the field / experimental lab in the allotted practical hours by the course teacher. The practical exams are conducted as per the prescribed time table for the students who have registered the course.

The students are exposed to hands on Training in gaining practical experience in field operations, in documenting the biometrical traits of the crops, handling of various equipments in the laboratory and estimation of various parameters based on the course requirement.

Also, exposure visit to fields, research institutes, experimental fields and farmers' fields are periodically made so as to provide practical exposure to the students. The students are sufficiently benefited with hands-on training during their practical classes. They are also

exposed to periodic field visits to national institutes, industries and progressive farmer's field to stay abreast on latest technological improvements in agriculture. The visits are part of the curriculum and built in the syllabi. During the practical classes, the students are taught on the technology/ process and acquire skills through hands on training regularly.

6.4.6 Supervision of students in PG/ Ph.D. program

PG students supervised by their advisory committee consisting one major advisor and thee members one from concern department, one from minor subject and one from supporting subject.

S. No.	Name of Department	Thesis submitted in PG				
		2016	2017	2018	2019	2020
1	Agricultural Extension and Communication	7	9	7	6	8

6.4.7: Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)

- Feedback from M.Sc. (Ag) is normally collected online as well as offline for their overall experience and suggestions for improvement of the programme. It is observed that most of the students are satisfied with the research facilities and support of the staff. Some of the issues like start of Ph.D. programme are among one of the prime requirements. It has not been started due to lack of the faculty. At the same time, students needed more practical knowledge and offline classes for clearing the concept. To resolve the issue, more practical classes have been conducted as well as theoretical classes were also conducted for the preparation of NET, JRF and SRF examinations. Students were advised to go to library and search of the research papers and literature related to advance agricultural research for updating their knowledge and improving their thesis research work. Special lectures and short-term training on advance agricultural technological aspects were also conducted for updating the knowledge and clearing the concepts of the students. Students also pointed out that moreover, Job-oriented classes should be organized.

6.4.8 Student intake and attrition in the programme for last five years.

Name of Degree programme	Actual Student admitted in last five years					Attrition (%)				
M.Sc. (Agril. Extension Education)	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)
	8	9	6	12	10	00	00	00	00	00

6.4.9. ICT Application in curricula delivery

Smart-class room facilities have been developed in the college. During the last five years, most faculties have developed ICT enabled teaching material and practical manuals. Audio visual teaching aid facility and smart classrooms are available in the college.

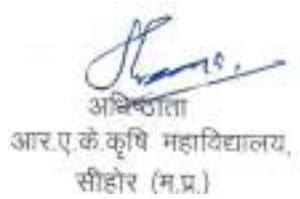
Practical/project work centred courses have been developed. Due weightage is given by the Institution to the innovative teaching methods developed by faculties. As ICT has now become a part of teaching programme. It is meeting the expectation in curricula delivery in theoretical courses through power point presentation and in practical courses through digital presentation.

A separate computer lab with infrastructure facility is available for the students. The students are being taught about the IT facilities. Sufficient furniture, ventilation and lighting facilities are provided in all the class rooms for comfortable listening and writing of the students. A table, podium, whiteboards/screen, black board with duster are available in each class room for the use of teachers. A common generator facility supplies power to all the classrooms to avoid interruption of the class during power failure.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 has been provided for UG and PG Degree Programmes, separately.

6.4.12. Certificate

I, the **Dean, Dr. H.D. Verma , College of Agriculture, Sehore** hereby certify that the information contained in Sections 6.4.1 to 6.4.9 are furnished as per the record available in the college and degree awarding university.



Signature of the Dean of the college with Date & Seal

6.4 SELF - STUDY REPORT FOR THE PROGRAMME, COLLEGE OF AGRICULTURE, SEHORE (M.P.)

6.4.1. Brief History of PG Degree Programme M.Sc. (Ag.) Vegetable Science

(a)Year of starting of PG degree programmes:

FACULTY	DEGREE PROGRAMME	YEAR OF START
	M.Sc. (Ag.) Vegetable Science	2009

(b) About College of Agriculture, Sehore

The foundation of college of Agriculture, Sehore was laid down by the first food and Agriculture Minister of India, Late Shri Rafi Ahmad Kidwai on August 01,1952. At that time this college was up to intermediate level. On July 17,1955 , Union Minister for Food and Agriculture, Shri Ajit Prasad Jain laid foundation of Rafi Ahmad Kidwai Undergraduate College and Agriculture Research Institute. Initially, the college was affiliated to Vikaram University, Ujjain. In the year 1964. after establishment of Jawahrlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur, this college was one of the constituent colleges of JNKVV, Jabalpur. On 19th August, 2008 a new Agricultural university-Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya was established by the bifurcation of JNKVV with head quarter at Gwalior and this college is under administrative control of RVSKVV, Gwalior.

The first M.Sc. (Vegetable Science) batch was admitted in the College in the year 1960. It has produced many stalwarts in the field of Vegetable Science and still continuing with its mandate of producing trained manpower for the country. It has major three following mandates.

Objectives of initiating PG programme: The College adopts the following goals and objective which permeate in offering of various curricula, and undertake research and extension activities by its departments to:

- Provide world-class education to our students.
- Maintain a strong basic and applied research programme to support all segments of agriculture and allied sectors through enhanced agriculture productivity and environment sustainability.
- Serve the rural society through extension activities by disseminating research based knowledge.
- Assist stakeholders through value-added endeavours, bio-based products, bio-processing, crop diversification etc.
- Monitor climate change impacts on agriculture systems and develop mitigation strategies adopting inter-disciplinary approaches

The college library is strengthened with more than 37503 books, reference book 8415 journals and e journals 3060 and audio and video CDs 35. There are two boy's hostels and one girl's hostel with accommodation facility for about 144 students. Students are provided outdoor and indoor games, sports and gymnasium facilities in the vicinity of the hostels. For social development of students, NCC and programs are also running. The NSS students of this college have being awarded esteemed national awards. The students have also been awarded at national levels in co-cultural activities.

The alumni of the college includes Mr. Gahanna Vakankar, Ex. Commerce Advisor, Padm Sri Dr. Sant Sing Virmani Fellow Scientist of Institute of Tropical Agriculture, Shri. Mohmad Ajhar Hussain Ex-Directore Agriculture, Govt. of Madhya Pradesh Shri. G.S. Kaushal, Ex-Director Agriculture, Govt. of Madhya Pradesh, Dr. Sadhuram Sharma, Ex Sugarcane Agronomist, Shri. Sangram Singh Tomar, Ex-Director Agriculture, Govt. of Madhya Pradesh,Dr. Anant Ozha, ExM.. Commissioner, Department of farmers welfare and Agriculture development, GOI and Preeti Methil , IAS. and various others posted in different organizations in M.P. and India.D. Bank Of India, Shri Dayashankar Gupta, Deputy. Commissioner seeds, Dr. A.P. Singh.

Location

This college is situated in semi urban area of Sehore town, 40 Km away from the state capital Bhopal and 150 km away from Indore. Sehore is situated at a latitude of 23.06^{o} N, the longitude of 77.05^{o} E and at an altitude of 498.77 m above mean sea level.

Jurisdiction

1.Zonal Agricultural Research Station,College of Agriculture,Sehore (M.P.)
2. Fruit Research Station, Entkhedi, Bhopal (M.P.)
3. Krishi Vigyan Kendra, Rajgarh (M.P.)

6.4.2 Faculty strength:

S. No.	Sanctioned Faculty	Faculty in Place	Vaccant Position	Faculty recommended By ICAR
1	Professor	0	0	-
2	Assoc. Professor	0	0	-
3	Asstt. Professor	1	0	-
4	PrincipalScientist/Professor*	1	-	-
5	Part time contractual teacher*	1	-	-

*01PrincipalScientist/Professor& 01 Part time contractual teacheris working in department to assist for completion of the course curriculum.

SN	Name of Faculty	Designation	Specialiazation	Highest Qualification	Experience (Years)*		
					T	R	E
1	Dr. S.A. Ali	PrincipalScientist/Professor from research project posted in department	Horticulture	PhD	25	35	35
2	Dr. R.K. Jaiswal	Professor	Horticulture	PhD	14	32	32
3	Raj Kumar Dhakad	Part time contractual teacher	Horticulture				

6.4.3: Technical and supporting staff

S.No.	Name of the Post	No. of Post	Actual Filled
1	Horticulture Assistant	01	01

- Smt. Varsha Dhurve, working as a Horticulture Assistant

6.4.4 Class Room & Laboratories

There are four undergraduate lecture halls in the college exclusively meant for the students. In Each academic block one PG lecture hall is used for accommodating the students of B.Sc. (Hons.) Agriculture. Each lecture hall is provided with the necessary teaching aids such as Black board, LCD projector, Over head projector, furniture, electrical fittings, podium etc. for effective delivery of the curriculum. Each lecture hall also has internet access points for use by the students. In addition, nearer to lecture hall has a Reverse Osmosis water purifier to provide drinking water facility to the students.

The laboratories are well equipped to conduct the practicals/hands on training to the students. The laboratory facilities available in each department for the B.Sc. (Hons) Agriculture are furnished in Table 6.4.4.

No. of lecture rooms with seating capacity	One with seating capacity of 25
No. of lecture rooms with LCD	One
No. of smart class-rooms	One
No. of labs under Dean's office with specialized purpose	Six postr graduate Labs.
Farm facilities	Yes
Workshops	Computer lab
Any other instructional units being utilized for the award of the Degree Programme	Seminar Rooms and examination hall with One hundred Fifty capacity

Classrooms

Post graduate Laboratories and Equipment's
List of equipment's available in different division laboratories

Horticulture		
1	Protein analyzer	1
2	Oven	1
3	Refrigerator	1
4	Incubator	1
5	Electronic Balance	1
6	Electric balance	1
7	Hand refractometer	2
8	Digital refractometer	1
9	Mixer cum grinder	1
10	LCD Projector	1

The class rooms and laboratories are sufficient to meet course curricula requirement of the degree programme.

6.4.5 Conduct of practical and hands of training:

The practical syllabus is formulated based on the course needs. The student registered for a particular course has to necessarily attend 75 per cent classes conducted to gain eligibility for writing final examination. Practical classes are conducted in the field / experimental lab in the allotted practical hours by the course teacher. The practical exams are conducted as per the prescribed time table for the students who have registered the course.

The students are exposed to hands on Training in gaining practical experience in field operations, in documenting the biometrical traits of the crops, handling of various equipments in the laboratory and estimation of various parameters based on the course requirement.

Also, exposure visit to fields, research institutes, experimental fields and farmers' fields are periodically made so as to provide practical exposure to the students. The students are sufficiently benefited with hands-on training during their practical classes. They are also exposed to periodic field visits to national institutes, industries and progressive farmer's field to stay abreast on latest technological improvements in agriculture. The visits are part of the curriculum and built in the syllabi. During the practical classes, the students are taught on the technology/ process and acquire skills through hands on training regularly.

6.4.6 Supervision of students in PG/ Ph.D. program

PG students supervised by their advisory committee consisting one major advisor and thee members one from concern department, one from minor subject and one from supporting subject.

S. No.	Name of Department	Thesis submitted in PG				
		2016	2017	2018	2019	2020
1	Horticulture	10	5	6	5	6

6.4.7: Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)

Feedback from M.Sc. (Ag) is normally collected online as well as offline for their overall experience and suggestions for improvement of the programme. It is observed that most of the students are satisfied with the research facilities and support of the staff. Some of the issues like start of Ph.D. programme are among one of the prime requirements. It has not been started due to lack of the faculty. At the same time, students needed more practical knowledge and offline classes for clearing the concept. To resolve the issue, more practical classes have been conducted as well as theoretical classes were also conducted for the preparation of NET, JRF and SRF examinations. Students were advised to go to library and search of the research papers and literature related to advance agricultural research for updating their knowledge and improving their thesis research work. Special lectures and short-term training on advance agricultural technological aspects were also conducted for updating the knowledge and clearing the concepts of the students. Students also pointed out that moreover, Job-oriented classes should be organized.

6.4.8 Student intake and attrition in the programme for last five years.

Name of Degree programme	Actual Student admitted in last five years					Attrition (%)				
M.Sc. (Ag./Hort.) Vegetable Sc.	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)
	07	10	07	11	11	00	10	00	9.09	00

6.4.9. ICT Application in curricula delivery

Smart-class room facilities have been developed in the college. During the last five years, most faculties have developed ICT enabled teaching material and practical manuals. Audio visual teaching aid facility and smart classrooms are available in the college.

Practical/project work centred courses have been developed. Due weightage is given by the Institution to the innovative teaching methods developed by faculties. As ICT has now become a part of teaching programme. It is meeting the expectation in curricula delivery in

theoretical courses through power point presentation and in practical courses through digital presentation.A separate computer lab with infrastructure facility is available for the students. The students are being taught about the IT facilities. Sufficient furniture, ventilation and lighting facilities are provided in all the class rooms for comfortable listening and writing of the students. A table, podium, whiteboards/screen, black board with duster is available in each class room for the use of teachers. A common generator facility supplies power to all the classrooms to avoid interruption of the class during power failure.

6.4.10. The information pertaining to 6.4.1 to 6.4.9 has been provided for UG and PG Degree Programmes, separately.

6.4.12. Certificate

I, the Dean, Dr. H.D. Verma , College of Agriculture, Sehore hereby certify that the information contained in Sections 6.4.1 to 6.4.9 are furnished as per the record available in the college and degree awarding university.

अधिष्ठाता
आर.ए.के.कृषि महाविद्यालय,
सीहोर (म.प्र.)

Signature of the Dean of the college with Date & Seal

6.4 SELF - STUDY REPORT FOR THE PROGRAMME, COLLEGE OF AGRICULTURE, SEHORE (M.P.)

6.4.1. Brief History of PG Degree Programme {M.Sc. (Ag.) Agricultural Economics}

(a)Year of starting of PG degree programmes:

FACULTY	DEGREE PROGRAMME	YEAR OF START
	M.SC. (AG.) AGRICULTURAL ECONOMICS	1960

(b) About College of Agriculture, Sehore

The foundation of college of Agriculture, Sehore was laid down by the first food and Agriculture Minister of India, Late Shri Rafi Ahmad Kidwai on August 01, 1952. At that time this college was up to intermediate level. On July 17, 1955, Union Minister for Food and Agriculture, Shri Ajit Prasad Jain laid foundation of Rafi Ahmad Kidwai Undergraduate College and Agriculture Research Institute. Initially, the college was affiliated to Vikaram University, Ujjain. In the year 1964 after establishment of Jawahrlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur, this college was one of the constituent colleges of JNKVV, Jabalpur. On 19th August, 2008 a new Agricultural university-Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya was established by the bifurcation of JNKVV with head quarter at Gwalior and this college is under administrative control of RVSKVV, Gwalior.

The first M.Sc. (Economics) batch was admitted in the College in the year 1960. It has produced many stalwarts in the field of Economics and still continuing with its mandate of producing trained manpower for the country. It has major three following mandates.

Objectives of initiating PG programme: The College adopts the following goals and objective which permeate in offering of various curricula, and undertake research and extension activities by its departments to:

- Provide world-class education to our students.
- Maintain a strong basic and applied research programme to support all segments of agriculture and allied sectors through enhanced agriculture productivity and environment sustainability.
- Serve the rural society through extension activities by disseminating research based knowledge.
- Assist stakeholders through value-added endeavours, bio-based products, bio-processing, crop diversification etc.
- Monitor climate change impacts on agriculture systems and develop mitigation strategies adopting inter-disciplinary approaches

The college library is strengthened with more than 37503 books, reference book 8415 journals and e journals 3060 and audio and video CDs 35. There are two boy's hostels and one girl's hostel with accommodation facility for about 144 students. Students are provided outdoor and indoor games, sports and gymnasium facilities in the vicinity of the hostels. For social development of students, NCC and programs are also running. The NSS students of this college have being awarded esteemed national awards. The students have also been awarded at national levels in co-cultural activities.

The alumni of the college includes Mr. Gahanna Vakankar, Ex. Commerce Advisor, Padm Sri Dr. Sant Sing Virmani Fellow Scientist of Institute of Tropical Agriculture, Shri. Mohmad Ajhar Hussain Ex-Directore Agriculture, Govt. of Madhya Pradesh Shri. G.S. Kaushal, Ex-Director Agriculture, Govt. of Madhya Pradesh, Dr. Sadhuram Sharma, Ex Sugarcane Agronomist, Shri. Sangram Singh Tomar, Ex-Director Agriculture, Govt. of Madhya Pradesh,Dr. Anant Ozha, ExM.. Commissioner, Department of farmers welfare and Agriculture development, GOI and Preeti Methil , IAS. and various others posted in different organizations in M.P. and India.D. Bank Of India, Shri Dayashankar Gupta, Deputy. Commissioner seeds, Dr. A.P. Singh.

Location

This college is situated in semi urban area of Sehore town, 40 Km away from the state capital Bhopal and 150 km away from Indore. Sehore is situated at a latitude of 23.06º N, the longitude of 77.05º E and at an altitude of 498.77 m above mean sea level.

Jurisdiction

1.Zonal Agricultural Research Station,College of Agriculture,Sehore (M.P.)

2. Fruit Research Station, Entkhedi, Bhopal (M.P.)

3. Krishi Vigyan Kendra, Rajgarh (M.P.)

6.4.2 Faculty strength:

S. No.	Sanctioned Faculty	Faculty in Place	Vaccant Position	Faculty recommended . By ICAR
1	Professor	0	0	-
2	Assoc. Professor	0	0	-
3	Asstt. Professor	1	1	-

SN	Name of Faculty	Designation	Specialiazation	Highest Qualification	Experience (Years)*		
					T	R	E
1	Dr. P.S.Raghuwanshi	Professor	Agril. Economics	PhD	17	19	19

6.4.3: Technical and supporting staff: N/A

6.4.4 Class Room & Laboratories

There are four undergraduate lecture halls in the college exclusively meant for the students. In Each academic block one PG lecture hall is used for accommodating the students of B.Sc. (Hons.) Agriculture. Each lecture hall is provided with the necessary teaching aids such as Black board, LCD projector, Over head projector, furniture, electrical fittings, podium *etc.* for effective delivery of the curriculum. Each lecture hall also has internet access points for use by the students. In addition, nearer to lecture hall has a Reverse Osmosis water purifier to provide drinking water facility to the students.

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Workshops	Computer lab
Any other instructional units being utilized for the award of the Degree Programme	Seminar Rooms and examination hall with One hundred Fifty capacity

Classrooms

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6.4.6 Supervision of students in PG/ Ph.D. program

PG students supervised by their advisory committee consisting one major advisor and thee members one from concern department, one from minor subject and one from supporting subject.

S. No.	Name of Department	Thesis submitted in PG				
		2016	2017	2018	2019	2020
1	Agricultural Economics	5	8	6	7	3

6.4.7: Feedback of stakeholders (Students, parents, industries, employers, farmers etc.)

- Feedback from M.Sc. (Ag) is normally collected online as well as offline for their overall experience and suggestions for improvement of the programme. It is observed that most of the students are satisfied with the research facilities and support of the staff. Some of the issues like start of Ph.D. programme are among one of the prime requirements. It has not been started due to lack of the faculty. At the same time, students needed more practical knowledge and offline classes for clearing the concept. To resolve the issue, more practical

classes have been conducted as well as theoretical classes were also conducted for the preparation of NET, JRF and SRF examinations. Students were advised to go to library and search of the research papers and literature related to advance agricultural research for updating their knowledge and improving their thesis research work. Special lectures and short-term training on advance agricultural technological aspects were also conducted for updating the knowledge and clearing the concepts of the students. Students also pointed out that moreover, Job-oriented classes should be organized.

6.4.8 Student intake and attrition in the programme for last five years.

Name of Degree programme	Actual Student admitted in last five years					Attrition (%)				
M.Sc. (Agril. Economics)	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)	Y1 (2016-17)	Y2 (2017-18)	Y3 (2018-19)	Y4 (2019-20)	Y5 (Current year 2020-21)
	08	08	07	05	05	00	00	00	20	00

6.4.9. ICT Application in curricula delivery

Smart-class room facilities have been developed in the college. During the last five years, most faculties have developed ICT enabled teaching material and practical manuals. Audio visual teaching aid facility and smart classrooms are available in the college.

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6.4.12. Certificate

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अधिष्ठाता
आर.ए.के.कृषि महाविद्यालय,
सीहोर (म.प्र.)

Signature of the Dean of the college with Date & Seal