

INFORMATION BROCHURE

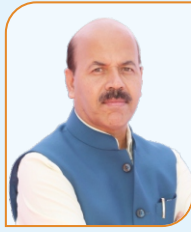


College of Agriculture
Indira Gandhi Krishi Vishwavidyalaya
Krishak Nagar, Raipur-492 012, Chhattisgarh, India

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University Officials



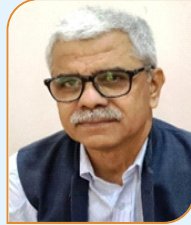
Dr. Girish Chandel
Vice Chancellor, IGKV



Dr. Kapil Dev Deepak
Registrar, IGKV



Dr. Arti Guhey
Dean, College of Agriculture,
Raipur



Dr A K Dave
Director Instructions &
Controller of Exam



Dr Sanjay Sharma
Dean Students' Welfare

Head of the Department



Dr D K Chandrakar
Professor & Head
(Agronomy)



Dr P K Joshi
Professor & Head
(Genetics & Plant Breeding)



Dr. L.K. Shrivastava
Professor & Head
(Soil Science)



Dr. C.P. Khare
Professor & Head
(Plant Pathology)



Dr. B.P. Katlam
Professor & Head
(Entomology)



Dr. Zenu Jha
Professor & Head
(Molecular Biology & Biotech.)



Dr. Tapas Choudhary
Professor & Head
(Microbiology)



Dr. P. Katiyar
Professor & Head
(Plant Physiology)



Dr. Neeraj Shukla
Professor & Head
(Vegetable Science)



Dr. G.L. Sharma
Professor & Head
(Fruit Science)



Dr. Praveen Sharma
Professor & Head
(Silvi. & Agro Forestry)



Dr. L.S. Verma
Professor & Head
(Floriculture & LS)



Dr. A.Khan
Professor & Head
(Agriculture Extn. Education)



Dr. Hulas Pathak
Professor & Head
(ABM & Ag. Economics)



Dr. G. P. Banjara
Professor & Head
(Agrometeorology)



Dr. S. Ramole
Professor & Head
(Ag. Statistics)

Overview

- ❖ Chhattisgarh is a predominantly agrarian state, with agriculture accounting for a significant portion of its economy and employment. Agriculture contributes around 25% of the state's GDP. The state has a total cultivated area of 4.78 million hectares and crops like rice, millets, pulses, oilseeds, horticulture crops including fruits, vegetable and wheat are cultivated by farmers successfully.
- ❖ The College of Agriculture, Raipur is almost sixty-five years old and it is working under Indira Gandhi Krishi Vishwavidyalaya, Raipur. The IGKV Raipur was established on 20th January 1987 to impart agriculture and allied education, research and extension for the benefit of Chhattisgarh state. The vision of the Vishwavidyalaya is sustainable integrated development of agriculture for rural livelihood enhancement, generation of economic growth and opportunities in Chhattisgarh. The Vishwavidyalaya has now expanded many folds during last thirty-nine years catering the need of teaching, research and extension through constitute colleges, research centres and Krishi Vigyan Kendra located across Chhattisgarh.
- ❖ Since last twenty-five years with the support of state government IGKV has increased the number of constituent (Govt) colleges from one to twenty-five in different corners of Chhattisgarh state for imparting agriculture education including preliminary agriculture research and extension.

Academic Programme

College of Agriculture, Raipur, offers undergraduate, post graduate and doctoral programme in the field of Agriculture and related departments as per the recommendation of ICAR, New Delhi. The college has successfully introduced NEP 2020 and adopted multiple entry and exit option as per its recommendation. The syllabus of UG programme is based on 6th Dean's committee recommendation of ICAR and for PG and PhD programme, the latest syllabus of BSMA recommendation of ICAR has been adopted. The admission in undergraduate programme is given on the basis of PAT (VYAPAM) and in PG/PhD programme through common entrance exam (CET) conducted by IGKV, Raipur.

Details of academic programme:

Program	Degree	Minimum Duration	Credit requirement	Number of seats in Govt colleges
Undergraduate	B.Sc. (Hons.) Ag.	04 year/ 8 semesters	183	1948
Postgraduate	M.Sc. (Ag)/ M.Sc. (Hort)/ M.Sc./MBA	02 year/ 4 semesters	70	462
Doctoral	Ph.D. (Ag)/ PhD (Hort)/ PhD Silviculture & Agroforestry/ PhD (ABM)	03 year/ 6 semesters	100	123

Admission procedure:

Degree name	Minimum admission requirement
B.Sc. (Hons) Ag.	Any student passing/passed 10+2 system of examination with Physics, Chemistry, Mathematics/Biology/ Agriculture and English or Hindi can appear in PAT (Pre Agriculture Test) conducted by VYAPAM and on the basis of PAT merit list following state reservation policy admission is granted.

Postgraduate Programme

Degree name	Minimum admission requirement
M.Sc. (Ag.) Agronomy/ M.Sc. (Ag.) Genetics and Plant Breeding/ M. Sc. (Ag.) Soil Science/ M. Sc. (Ag.) Entomology/M. Sc. (Ag) Agril Extension Education/M. Sc. (Ag.) Plant Pathology/M. Sc. (Ag.) Agril Economics/ M. Sc. (Ag.) Plant Physiology/ M. Sc. (Ag.) Agricultural Meteorology/ M. Sc. (Ag.) Microbiology/ M.Sc.(Hort.) Vegetable Science/ M.Sc. (Hort.) Fruit Science/M.Sc. (Hort.) Floriculture and Landscaping.	1. B.Sc. (Ag.) / B.Sc. (Ag.) Hons. /B.Sc. (Hort.)/B.Sc. (Hort.) Hons., degree under 10+2+4 system from any University with minimum O.G.P.A. 6.00 out of 10-point scale or 60% in marks system of examination or equivalent grades are eligible for admission.
M.Sc. (Ag) Agricultural Statistics	2. In addition to point No. 1 above, the candidate should have studied Mathematics as one subject in 10+2 level of schooling
M.Sc. (Ag) Molecular Biology and Biotechnology	3. In addition to point No. 1 above B.Sc. (Ag. Bio technology)/ B.Sc. (Forestry) degree under 10+2+4 system from any University with minimum O.G.P.A. of 6.00 out of 10-point scale or 60% in marks system of examination or equivalent grades.
MBA (ABM)	4. In addition to point No. 1 B.Tech.(Agril. Engg.) under 10+2+4 system from any University with minimum O.G.P.A. of 6.00 out of 10-point scale or 60% in marks system of examination or equivalent grades.
M.Sc. (Silviculture and Agro forestry)	5. In addition to point No. 1, B.Sc. Forestry /B.Sc. (Hons.) Forestry, under 10+2+4 system from any University or UGC with minimum O.G.P.A. of 6.00 out of 10-point scale or 60% in marks system of examination or equivalent grade. However, B.Sc. (Ag.) and B.Sc. (Horticulture) admitted to this course will have to opt compulsory noncredit deficiency courses of Forestry and for these candidates too, the minimum duration of the degree programme will be of 2 years.

Doctoral Programme

Degree name	Minimum eligibility qualifications
PhD. (Ag) Agricultural Economics/ PhD. (Ag) Agricultural Extension Education/ PhD. (Ag) Agronomy/ PhD. (Ag) Entomology/ PhD. (Ag) Genetics & Plant Breeding/ PhD. (Ag) Molecular Biology and Biotechnology/ PhD. (Ag) Plant Pathology/ PhD. (Ag) Soil Science, PhD. (Ag) Agricultural Meteorology	M.Sc. (Ag.) in relevant subject with an OGPA of 3.00/4.00, 6.50/10.00 or 65% marks under marks system of examination in respective degree programme. The candidate must have completed degree from any University under 10+2+4+2 system of education.
PhD. (Ag) Microbiology	M.Sc. (Ag.) Agricultural Microbiology /M.Sc. (Ag.) Microbiology with an OGPA of 3.00/4.00, 6.50/10.00 or 65% marks under marks system of examination. The candidate must have completed degree from any University under 10+2+4+2 system of education.
PhD. (Ag) Plant Physiology	M.Sc. (Ag.) Plant Physiology/ Crop Physiology / Agricultural Botany with an OGPA of 3.00/4.00, 6.50/10.00 or 65% marks under marks system of examination. The candidate must have completed degree from any University under 10+2+4+2 system of education.
PhD. (Ag) Agri-business Management	M.B.A. (ABM) with an OGPA of 3.00/4.00, 6.50/10.00 or 65% marks under marks system of examination. The candidate must have completed degree from any University under 10+2+4+2 system of education.
Ph.D. (Silviculture & Agro-forestry)	M.Sc. Forestry with an OGPA of 3.00/4.00, 6.50/10.00 or 65% marks under marks system of examination. The candidate must have completed degree from any University under 10+2+4+2 system of education in respective degree programme.
Ph.D. (Hort.) Floriculture and Landscaping/ Ph.D. (Hort.) Fruit Science/ Ph.D. (Hort.) Vegetable Science	M.Sc. (Ag.) in Horticulture/ M. Sc. (Hort.) in relevant subject with an OGPA of 3.00/4.00, 6.50/10.00 or 65% marks under marks system of examination in respective degree programme. The candidate must have completed degree from any University under 10+2+4+2 system of education.

Admission guidelines for international students

1. Few seats in undergraduate programme, postgraduate programme and doctoral programme are available for international students.
2. There is no compulsion for international students to appear in any entrance examination for admission in IGKV, Raipur, India.
3. The students who are recommended by ICCR/ICAR for admission in any course of IGKV Raipur are allowed directly subject to fulfillment of qualification and documents verification.
4. All other international students are advised to register themselves in SII (Study in India) portal for generating SII ID.

5. After generating SII ID, they can fill online application and submit relevant documents for the selected courses of IGKV Raipur, India.
6. On the basis of candidate's application an offer letter will be issued by competent authority of IGKV, Raipur for depositing fee to confirm admission at IGKV, Raipur, India. After acceptance of admission by candidate, VISA application can be submitted along with offer letter to appropriate agency.

Letter with all details regarding contact person at Indira Gandhi Krishi Vishwavidyalaya, Raipur and date of reporting, start of classes, accommodation facilities, mess, sports facilities etc. will be issued by competent authority of the university.

Curriculum for undergraduate programme:

I Year I Semester			
No.	Course code	Title of course	Credit
1	ADM 111	Deekshaarambh (1 week)	2(0+2) (NG)
2	ASEC 111 OR ASEC 112 OR ASEC 113	Plantation crops production and management OR Mushroom production technology OR Organic Farming	4(0+4)
3	AEXT 111	Communication Skills	2(1+1)
4	AGRO 111	Fundamentals of Agronomy	3(2+1)
5	ASOIL 111	Fundamentals of Soil Science	3(2+1)
6	AHFR 111	Fundamentals of Horticulture	3(2+1)
7	AGRO 112	Farming based livelihood systems	3(2+1)
8	AEXT 112	Rural Sociology and Educational Psychology	2(2+0)
9	AHPD 111	Human value and professional ethics	1(0+1) (NG)
10	NSS I/NCC I	NSS-I/NCC-I	1(0+1)
11	ASTAT 111	Introductory mathematics (need based)	1(1+0) (NG)
Total			21(11+10)
I Year II Semester			
No.	Course code	Title of course	Credit
1	ASEC 121 OR ASEC 122 OR ASEC 123	Seed production technology OR Post-harvest processing technology OR Commercial Beekeeping	4(0+4)
2	AEXT 121	Personality Development	2(1+1)
3	AMET 121	Environmental Studies and Disaster Management	3(2+1)
4	ASOIL 121	Soil Fertility Management	3(2+1)
5	AENT 121	Fundamentals of Entomology	3(2+1)
6	AVET 121	Livestock and Poultry Management	2(1+1)
7	APATH 121	Fundamentals of Plant Pathology	3(2+1)
8	NSS II/NCC II	NSS II/NCC II	1(0+1)
Total			21(11+10)
Internship project only for those opting for an exit with UG-Certificate			10(0+10)

II Year I Semester			
No.	Course code	Title of course	Credit
1	ASEC 211 OR ASEC 212 OR ASEC 213	Scientific Cultivation of Silk OR Soil, plant and water testing OR Production technology for bioagents, biopesticides, biofertilizer	2(0+2)
2	ABM 211	Entrepreneurship Development and Business Communication	3(2+1)
3	ASW 211	Physical Education, First Aid and Yoga Practices	2(0+2)
4	APB 211	Principles of Genetics	3(2+1)
5	AGRO 211	Crop Production Technology-I (Kharif crops)	3(1+2)
6	AHFR 211	Production Technology of Fruit and Plantation Crops	2(1+1)
7	AEXT 211	Fundamentals of Extension Education	2(1+1)
8	AENT 211	Fundamentals of Nematology	2(1+1)
9	AGRO 212	Principles and Practices of Natural Farming	2(1+1)
Total			21(9+12)

II Year II Semester			
No.	Course code	Title of course	Credit
1	ASEC 221 OR ASEC 222 OR ASEC 223	Horticulture nursery management OR Commercial Lac Cultivation OR Rice production technology – processing, value addition and marketing	2(0+2)
2	ASTAT 221	Agri informatics and Artificial Intelligence (AI)	3(2+1)
3	AHVG 221	Production Technology of Vegetables and Spices	2(1+1)
4	AEC 221	Principles of Agricultural Economics and Farm Management	2(2+0)
5	AGRO 221	Crop Production Technology-II (Rabi Crops)	3(1+2)
6	AENGG 221	Farm Machinery and Power	2(1+1)
7	AGRO 222	Water Management	2(1+1)
8	ASOIL 221	Problematic Soils and their management	2(1+1)
9	APB 221	Basics of Plant Breeding	3(2+1)
10	AENT 221	Pest management in Crops and Stored Grains-I	2(1+1)
Total			23(12+11)

Internship project only for those opting for an exit with UG-Diploma	10(0+10)
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III Year I Semester			
No.	Course code	Title of course	Credit
1	AEC 311	Agricultural Marketing and Trade	3(2+1)
2	AMET 311	Introduction to Agro-meteorology	2(1+1)
3	ACP 311	Fundamentals of Crop Physiology	3(2+1)
4	AENT 311	Pest management in Crops and Stored Grains-II	2(1+1)
5	APATH 311	Diseases of Field & Horticultural Crops & their Management	3(2+1)
6	APB 311	Crop Improvement-I	2(1+1)
7	AGRO 311	Weed Management	2(1+1)
8	AHFL 311	Ornamental Crops, MAPs and Landscaping	2(1+1)
9	AFOR 311	Introductory Agro-forestry	2(1+1)
10	ASW 311	Study tour (10-14 days)	2(0+2) (NG)
Total			21(12+9)

III Year II Semester			
No.	Course code	Title of course	Credit
1	ABT 321	Fundamentals of Agri Biotechnology	3(2+1)
2	ASTAT 321	Basic and Applied Agricultural Statistics	3(2+1)
3	APB 321	Crop Improvement –II	2(1+1)
4	AENGG 321	Renewable energy in Agriculture and Allied Sector	2(1+1)
5	AGRO 321	Dryland agriculture/ Rainfed agriculture and watershed management	2(1+1)
6	ABT 322	Essentials of Plant Biochemistry	3(2+1)
7	AMB 321	Agricultural Microbiology and Bioremediation	2(1+1)
8	AEC 321	Agricultural Finance & Cooperation	2(1+1)
9	APB 322	Fundamentals of Seed Science & Technology	2(1+1)
Total			21(12+9)

IV Year I Semester			
No.	Course code	Title of course	Credit
1	ASR 411	Student READY (RAWEP/Industrial Attachment /Experiential Learning /Hands on Training /Project Work / Internship)	20(0+20)
Total			20(0+20)

IV Year II Semester			
No.	Course code	Title of course	Credit
1	ABM 421	Agri-Business Management	4(3+1)
2	AGRO 421	Management of Natural Resources	4(3+1)
3	AENT 421	Agrochemicals	4(3+1)
4	AEXT 421	Agricultural Journalism	4(3+1)
5	AHFL 421	Landscaping	4(3+1)
6	APB 421	Commercial Plant breeding	4(3+1)
7	ABT 421	Food safety and standards	4(3+1)
8	ASOIL 421	Bioformulation and Nano-formulation	4(3+1)
9	AMB 421	Biopesticides and Biofertilizers	4(3+1)
10	AMET 421	System Simulation and Agro-advisory	4(3+1)

IV Year II Semester			
No.	Course code	Title of course	Credit
11	AGVG 421	Hi-tech Horticulture	4(3+1)
12	AGVG 422	Protected cultivation	4(3+1)
13	AMET 422	Climate Resilient Agriculture	4(3+1)
14	ABT 422	Biotechnology of Crop Improvement	4(3+1)
15	AENGG 421	Geoinformatics and Remote Sensing, precision farming	4(3+1)
16	AGVG 423	Micro-propagation Technologies	4(3+1)
17	APB 422	Commercial Seed Production	4(3+1)
18	AGRO 422	Principles and Practices of Organic Farming /Conservation Agriculture	4(3+1)
19	ACP 421	Food Science and Nutrition	4(3+1)
20	AHFR 421	Post-Harvest Technology and Value Addition	4(3+1)
21	AEXT 422	Technology delivery and adoption	4(3+1)
22	AEXT 423	Training Technology for capacity building	4(3+1)
23	AENT 421	Vertebrates Pest Management	4(3+1)
24	AHPD 421		4(3+1)
Select any five courses from 1 to 24 to get 20 credit load Total			20(15+5)
Compulsory minimum 10 credits online courses in whole degree program			

List of constituent/govt colleges offering different programme in Agriculture

No	Name of college	UG programme	PG programme
1.	College of Agriculture, Raipur	B.Sc. (Hons) Ag	17 department
2.	BTC College of Agriculture and Research Station, Bilaspur	B.Sc. (Hons) Ag	06 department
3.	RMD College of Agriculture and Research Station, Ambikapur	B.Sc. (Hons) Ag	03 department
4.	SG College of Agriculture and Research Station, Jagdalpur	B.Sc. (Hons) Ag	05 department
5.	DKS College of Agriculture and Research Station, Bhatapara	B.Sc. (Hons) Ag	01 department
6.	SKS College of Agriculture & Research Station, Rajnandgaon	B.Sc. (Hons) Ag	01 department
7.	SK College of Agriculture and Research Station, Kawardha	B.Sc. (Hons) Ag	01 department
8.	College of Agriculture and Research Station, Janjgir Champa	B.Sc. (Hons) Ag	
9.	RP College of Agriculture and Research Station, Kanker	B.Sc. (Hons) Ag	
10.	RSV College of Agriculture and Research Station, Bemetara	B.Sc. (Hons) Ag	
11.	Dr RS College of Agriculture and Research Station, Korla	B.Sc. (Hons) Ag	
12.	College of Agriculture and Research Station, Raigarh	B.Sc. (Hons) Ag	
13.	LM College of Agriculture and Research Station, Narayanpur	B.Sc. (Hons) Ag	
14.	College of Agriculture and Research Station, Gariaband	B.Sc. (Hons) Ag	
15.	College of Agriculture and Research Station, Kurud	B.Sc. (Hons) Ag	
16.	College of Agriculture and Research Station, Chhuikhadan	B.Sc. (Hons) Ag	
17.	College of Agriculture and Research Station, Katghora, Korba	B.Sc. (Hons) Ag	
18.	College of Agriculture and Research Station, Jashpur	B.Sc. (Hons) Ag	
19.	College of Agriculture and Research Station, Mahasamund	B.Sc. (Hons) Ag	
20.	KDC College of Agriculture & Research Station, Saja, Bemetara	B.Sc. (Hons) Ag	
21.	College of Agriculture and Research Station, Marra	B.Sc. (Hons) Ag	
22.	College of Agriculture and Research Station, Lormi	B.Sc. (Hons) Ag	
23.	College of Agriculture and Research Station, Pakhanjor	B.Sc. (Hons) Ag	
24.	College of Agriculture & Research Station, Pratappur (Surajpur)	B.Sc. (Hons) Ag	
25.	College of Agriculture & Research Station, Shankargadh (Balrampur)	B.Sc. (Hons) Ag	

Student READY

An initiative in the form of student READY has been fully adopted by College of Agriculture, Raipur and all other colleges of Agriculture in Chhattisgarh. The programme is supported by Indian council of Agricultural Research, New Delhi. The activity is performed in 7th semester of B.Sc. (Hons) Ag program. Under this programme RAWEP (Rural Agriculture work experience program) is an opportunity to the students to understand the real world of agricultural technologies adopted by farmers, rural situations, documentation and solutions to farming community, rural working environment and to develop skills & attitude of working with farm families for overall development in rural area. The students get familiar with the socio-economic conditions of the farmers and their problems. Through this programme students get acquainted with on-going extension and rural development program also. In addition to these students are also exposed to agro based industry and startups to gain knowledge on entrepreneurship; KVKs for modern technologies ready for transfer to farming community.



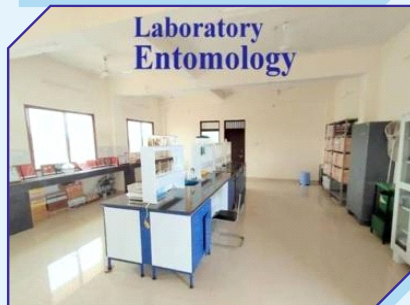
Hands-on-Training:

Looking to era of skilling and adoption of NEP 2020, the course of B.Sc. (Hons) Agriculture is designed in such a way that students are more exposed to practical learning activities. More emphasis is given to practical compared to class room teaching. A separate experiential learning courses have been introduced besides regular practical classes, field work, exposure visits and educational tours for a sound grasp of the theory that underlies professional degree. Such learning allows students to get as involved as possible to increase their knowledge and abilities. The practical and hands-on-training is being conducted in different courses to meet the student satisfaction through field practical, exposure visits to private and public sector concerns, laboratories, progressive farmers etc.



State of Art laboratories and other infrastructure:

The College has adequate number of laboratories, instructional farm, workshops, dairy plant, veterinary clinic, hatchery, ponds etc. to conduct practical/hands on training as per the latest syllabus. A cluster class room consisting of 32 halls with advanced and smart class rooms facility is also available for modern teaching of students.





ICT Application in Curricula Delivery:

The University is promoting the use of ICT tools and techniques in improving the teaching and learning of the students through measures like use of recorded lectures for different topics in theory and practical course wise for access to students, video conferencing, smart classrooms and other audio video aids. The college has developed learning resources, in the form of texts, videos, software, and other ICT enabled materials that teachers are using to assist students to meet the expectations for learning defined by ICAR recommended curricula.



College Library:

Nehru Library, the college library has been awarded as the best library in the Central zone by the ICAR. It is well equipped with the modern automated services. The library is linked with various consortiums for online journals and theses repository. It maintains around one lakh collection of books, reports, theses, monographs, journal volumes, e resources, CD ROM database and other reference material.



Communication skill and personality development:

Special activities are carried out for personality development of college students. These include NCC /NSS/Sports/Yoga and cultural activities etc. The students are exposed to learning of good command of the language for communication purposes with clarity and accuracy being vital for effective and efficient communication. It helps to acquire such proficiency in a language through special lecture and classes, workshops by experts for language teaching in the college. It is a major step forward for high quality professional competence, practical work experience in real life situation to graduates of agriculture.



Sports and cultural facilities:

The college organizes sports as per the academic calendar. College campus is having a sports complex with 02 large play grounds, separate courts for badminton, table tennis and volleyball along with a multi gym. There is a large lawn for yoga purpose along with facility of trainer for students as well as resident staff. The cultural fest in the form MADAI is a unique program celebrated in different colleges of university. Good auditorium of different capacity and sports complex is also available in the campus. Students are participating in state level and national level cultural program every year.



Accommodation

The accommodation facilities both for boys and girls are available in the campus and it is under the jurisdiction of dean Student's Welfare. Beyond security, the hostel offers modern and comfortable rooms, good kitchen, RO water, recreation hall, internet facilities, dispensary and facilities of indoor games.





Training and Placements:

The training and placement wing works under the control of Dean Student’s Welfare and they organize the training and placement drive very efficiently. The special lectures are arranged for specific competitive examination. Student Competitive Forum is functional in the University headquarter. This facility provides students with a platform to develop critical thinking, problem-solving, and analytical skills. It also facilitates interaction among students from different backgrounds to exchange ideas and knowledge and foster a spirit of competitiveness that drives students to improve and excel.



Research areas and Industry collaboration:

The different departments of Agriculture and Horticulture are dealing with more than forty all India coordinated research projects in the crops like rice, pulses, oil seeds, tubers, cashew, coconut palm, potato, vegetables, flowers, fertilizer, tillage, weed management and economics of crops. In addition to this industry supported research testing of products is also conducted. To give research academic exposure to PG and PhD students collaboration has been made with national institutes of ICAR and different SAUs. By this collaboration students are deputed to different ICAR institutes during 2nd year of PG and PhD programme for thesis research work and internship. Efforts are underway for international collaboration so the students may be deputed for few months to know about latest technology and interaction with scientists of international repute.



Prepared by: Dr. A. K. Dave, Director Instructions and Controller of Examinations, IGKV, Raipur & Dr. Vijay Kumar, Professor (PG cell), Directorate of Instructions, IGKV, Raipur