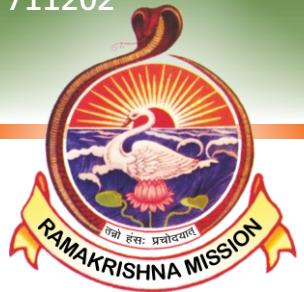


RAMAKRISHNA MISSION VIVEKANANDA EDUCATIONAL AND RESEARCH INSTITUTE (RKMVERI)

(Declared by Government of India as Deemed University under Section 3 of UGC Act, 1956)

P.O.- Belur Math, Dist.- Howrah, West Bengal, PIN 711202



Prospectus

NAAC Accredited (A++ GRADE)



SCHOOL OF AGRICULTURE AND RURAL DEVELOPMENT
Faculty Centre for 'Agriculture, Rural and Tribal Development (ARTD)',

Ramakrishna Mission Ashrama,
Morabadi, Ranchi, Jharkhand, PIN-834008
website: www.rkmvuranchi.ac.in

The Inspiration

"The spiritual impact that has come to Belur [Math] will last fifteen hundred years, and it will be a great university. Do not think I imagine it; I see it."

- Swami Vivekananda



The Vision

"All the wealth of the world cannot help one little Indian village if the people are not taught to help themselves. Our work should be mainly educational, both moral and intellectual."

"The only service to be done for our lower classes is to give them education, to develop their lost individuality."

"We want that education by which character is formed, strength of mind is increased, the intellect is expanded, and by which one can stand on one's own feet."

"You are the creator of your own destiny."

- Swami Vivekananda



Belur Math (Main Campus)

UGC Approvals

12B Notification

(मूर्ती) रेणु बत्रा
Dr. (Mrs.) Renu Batra
संस्था सचिव
Joint Secretary



Appendix (2A)
गोपनीय अधिकारी का नाम : 23236875
फोन फैक्स : 011-23232297
ई-मेल : renu@ugc.ac.in
विश्वविद्यालय सुनिधान आयोग
बाहुदार शह बाहुदार, पंजाब,
नई दिल्ली-110 002 भारत
UNIVERSITY GRANTS COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI-110 002 (INDIA)

Ph. 2323651, 23232701, 23237771, 23234116
www.ugc.ac.in



विश्वविद्यालय अनुदान आयोग
बाहुदार शह बाहुदार, पंजाब
नई दिल्ली-110 002
UNIVERSITY GRANTS COMMISSION
DAJAUDSHAH ZAFAR MARG
NEW DELHI-110 002
31 MAR 2017
March, 2017

BY SPEED POST

No. F-6/62/2004(CPP-I)

3rd July, 2006

- 3 JUL 2006

Swami Alambikananda
Vice-Chancellor
Ramakrishna Mission Vivekananda Educational and Research Institute
(Deemed to be University)
D-30, Sector-3, Salt Lake, Kolkata-700091
West Bengal - 711 202

Sub : Approval of the Commission for three off-campus centres to be operated and maintained as constituent units of your Deemed to be university

Ref : Your proposal to the Commission Ref.No.RMVERUNEWFIOTD/2004 dated 6th April, 2006, seeking approval for the setting up of some off-campus centres of the Deemed to be university

Dear Sir,

The Commission considered the reports of the two Expert Committees constituted for making an on-the-spot assessment of the off-campus centres as proposed by your Deemed to be University in your letter under reference above. On the recommendation of the Expert Committees which visited the off-campus centres for on-the-spot assessment, the Committee hereinafter conveys its approval for the following off-campus centres to be operated and maintained as constituent units by the resources of the Deemed to be university, for the Faculties as mentioned against their names:

1. Ramakrishna Mission Loka Siksha Prashikshan, Narendrapur, West Bengal – for the Faculty of Integrated Rural Development and Management;
2. Ramakrishna Mission Adyaprana Krishi Vigyan Kendra, Ranibari, Jharkhand – for the Faculty of Integrated Rural & Tribal Development;
3. Ramakrishna Mission Vivekananda Research Centre of Swami Vivekananda's Ancestral House, Kodakkal, Kerala – for Doctoral and Post-doctoral research leading to Ph.D., D.Phil., LL.D. etc. in the areas proposed, such as Mathematical Sciences, Philosophy, Consciousness Studies etc.

You may, therefore, start the course/programmes as contained in your proposal, under intimation to the Commission, abiding strictly to the Commission's guidelines in this connection.

With regards,

Yours sincerely,

R. Batra
(Renu Batra)

F. No. 44-1/2015 (CPP-I/DU)

The Registrar
Kamakshya Mission Vivekananda
Educational and Research Institute,
Belur Math,
Howrah (West Bengal).

Subject: Inclusion in the list of Deemed to be Universities under Section 12 B of the UGC Act, 1956.

Sir,

This has reference to the visit of the UGC's inspection Committee to the University on 30-31st May, 2010 (compliance verification visit on 30th March, 2010) to consider 12-B status and subsequent compliance submitted by the University in respect of the observations/suggestions given by the UGC's inspection Committee. The report of the inspection Committee, report of the compliance verification committee along with the compliance submitted by the University was placed before Committee of UGC members for consideration. The Committee recommended as under:-

"The Committee considered the report of the UGC's inspection Committee, UGCs Compliance verification Committee along with the compliance submitted by the Deemed to be University."

The Committee decided to recommend approval of 12 B status to Ramakrishna Mission Vivekananda Educational and Research Institute (Deemed to be University), Belur Math, Howrah (West Bengal) subject to the condition that the financial assistance under all UGC schemes shall be limited to those relating to teachers and students only."

The above recommendations of the Committee along with the Report of the UGC inspection Committee were placed before the Commission in its 522nd (Item No. 2.10) held on 10th March, 2011. The Commission considered and approved the recommendations of the Committee and the Deemed to be University is included in the list of Deemed to be Universities under Section 12 B of the UGC Act, 1956 subject to the condition that the financial assistance under all UGC schemes shall be limited to those relating to teachers and students only.

Yours faithfully,

(Kundla Mahajan)
Under Secretary



NAAC Accreditation



राष्ट्रीय मूलांकन एवं प्रत्यायन परिषद
नियन्त्रितव्यालय अनुदान आयोग के वालन संघर्ष
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

The Executive Committee of the
National Assessment and Accreditation Council
on the recommendation of the duly appointed

Peer Team is pleased to declare the
Ramakrishna Mission Vivekananda Educational and
Research Institute

(Deemed to be University u/s 3 of the UGC Act, 1956)
Belur Math, Dist. Howrah, West Bengal as
Accredited

with CGPA of 3.66 on seven point scale

at A++ grade

valid up to March 27, 2024

Date : March 28, 2019



S.C. Chakraborty
Director

Message from Administrative Head Desk

It gives me immense pleasure to present this prospectus for the students seeking admission at Ranchi faculty centre of the RKMVERI Deemed University. I take this opportunity of welcoming students coming from different states of India, joining the university in various programmes. Most of such students have moved away from the folds of their family in their quest of knowledge. One needs to feel that they are just moving away from one family fold to another. Their teachers, seniors and peers, all form an extended family from whom they can look up for any guidance, support and help to move ahead in life as professionals in the study programmes they have opted.

In terms of credentials, the university faculty centre which has been established to fulfill the vision of swami Vivekananda towards regeneration of rural India has a history of achievements, the most recent being the review by the UGC (2019), and accreditation of the university by the National Assessment and Accreditation Council (NAAC) with A⁺⁺ Grade at CGPA 3.66. Today faculty centre, Ranchi conducts 10 educational programs of various kinds, right from Graduation, Post- graduation, Ph.D., B.Voc, Diploma and Certificate programmes.

The university has highly qualified faculty in their respective fields of expertise. A large number of conferences, seminars and workshops are organized by the university. Such events provide a variety of experiences to the students and inculcate skills such as leadership and team spirit which are helpful in their career. Our faculty members have been able to publish good quality research work in journals of repute. There is an active interaction between faculty and students in the campus. The learning experiences, continuous counselling and guidance by faculty as well as experts from outside in the campus have strong path for enhancement of overall development of the learners and also helps to get the good professional placement.

Further, the campus of the faculty centre is ICT enabled and provide an e-learning and e-connect environment, along with class coordination system, -

library as well as virtual class rooms. The university is situated in a serene environment and the serenity along with a complex structure of curricular, co-curricular and extra-curricular activities will shape your physical, mental, intellectual and moral growth of you to make you self reliant and responsible citizen of India.

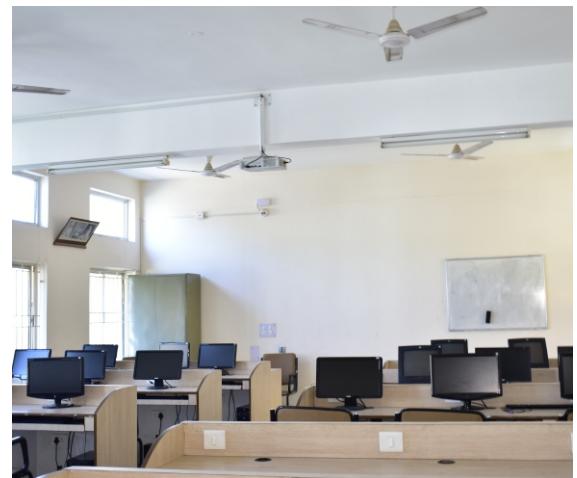
I wish and assure you, on behalf of the university family, that the ambience of the centre will help you to pursue your goal of the life under the varied social, cultural, moral and spiritual environment and make the university family proud of your attainments.

-Swami Bhaveshananda

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Section A : Introduction



The University: Aims and Objectives

Ramakrishna Mission Vivekananda Educational and Research Institute (formerly known as Ramakrishna Mission Vivekananda University) is the first step in actualization of Swami Vivekananda's vision that Belur Math would develop into an all-round University. It was declared by Government of India through its Ministry of Human Resource Development on the advice of University Grants Commission as an institution deemed-to-be-University under Section 3 of UGC Act, 1956 by a Gazette Notification No. F.9-54/2004-U.3 dated 5 January 2005. The University was formally inaugurated by the Revered President of Ramakrishna Math and Mission on 4 July 2005, the sacred day of mahasamadhi (passing away) of Swami Vivekananda.

Ramakrishna Mission Vivekananda Educational and Research Institute, abbreviated as RKMVERI is head-quartered at Belur Math in the district of Howrah, West Bengal has the following unique characteristics:

- (I) Emphasis on certain 'thrust areas' which are also 'gap areas' in these areas scarcely receive any attention in the conventional universities in India,
- (ii) Choice of the 'thrust areas' which are directly beneficial to the common man particularly in rural India,
- (iii) Multi-campus character—the University operates through a wide network of Faculty Centres specializing in these thrust areas and located at the various branch-centres of Ramakrishna Mission in various parts of India,
- (iv) Emphasis on the inculcation of higher human values to impart 'man-making, life-building and character-making education' as envisaged by Swami Vivekananda.

To start with, the 'thrust areas' have been chosen:

1. Disability Management and Special Education
2. Integrated Rural Development including Tribal Development
3. Indian Cultural and Spiritual Heritage and Value Education
4. Fundamental Sciences—Integrated Teaching and Research
5. Disaster Management including Relief and Rehabilitation

Programmes of the above specialised areas are already being run at the Ramakrishna Mission centres at Coimbatore (Tamil Nadu), Narendrapur (West Bengal), Ranchi (Jharkhand), Belur (West Bengal) and Swami Vivekananda's Ancestral House (Kolkata, West Bengal).

Ranchi Faculty Centre

With the asset of vast experiences of the Ramakrishna Mission Ashrama, Morabadi for more than five decades and Divyayan Krishi Vigyan Kendra (KVK) for more than three decades, Ramakrishna Mission Vivekananda Educational and Research Institute, Belur Math decided to establish a faculty centre for 'Integrated Rural & Tribal Development and Management (IRTDM)' at Morabadi, Ranchi, Jharkhand. The appeal was accepted and approval was given to this centre as an 'Off-campus Faculty Centre' by the University Grant Commission (UGC) after an inspection of six members team from 29 to 30 June 2006, vide notification No. F.6-96/2004(CPP-I) dated 3 July 2006. The foundation stone of the faculty building was laid on 12 January 2007, the auspicious birth day of Swami Vivekananda. The four storied new building was inaugurated on 15 October 2012 by Srimat Swami Suhitanandaji maharaj, the then General Secretary of the Ramakrishna Math and Ramakrishna Mission, Belur Math in presence of Dr. S. Ayyappan, the then Director General of Indian Council of Agricultural Research (ICAR), New Delhi.

The new building comprises of about 64,000 sq. ft. floor area. The faculty centre started formal classes from 22 August 2006 to create service professional to address the issues of rural and tribal development. In 2019, the faculty centre of IRTDM was renamed as Agriculture, Rural and Tribal Development (ARTD). From its inception, faculty of IRTDM (now ARTD) has aimed to stay at the cutting edge of education, research and extension in important areas of human development and public policy concerns related to Agriculture, Rural and Tribal Development. It has extended support to government institutions and grassroots organisations and applied its academic research and field expertise to assess policies around social needs and social welfare.

Infrastructural Facilities

Class Rooms – Besides usual class rooms, the specialized class rooms are equipped with computer, internet facilities and LCD projector for conducting classes through power point presentation. At present, a total of 23 classrooms are available for conducting classes with seating capacity ranging between 20 to 50 students.

Experimental Laboratories - Well equipped different laboratories are provided for the students like Soil Testing Lab for analyzing macro & micro plant nutrients (with Nitrogen digester, automatic absorption spectrophotometer etc.), Microbiology Lab, Mushroom Lab, Tissue Culture Lab, Quality Control & Molecular Biology Lab, Trichoderma Lab etc. Trichoderma Lab is equipped with the facilities of bio-pesticide preparation and culture for eco-friendly-control bio-agents. Students use these laboratories with the guidance of the experts and lab assistant for practicing soil testing, microbial culture preparation, bio-fertilizer preparation, Trichoderma preparation, quality parameters testing of different experimental farm products etc.

Rural Innovation Centre- A separate room is provided for making specimens, models, charts, posters etc. related to rural development works as well as displaying of different activities through pictorial forms.

Library – Library with about 24000 sq ft floor area comprising of general and individual reading sections, e-library, journal and newspaper sections, book stake section coupled with an office for the librarian. Approximately 4500 books are available for accession excluding journals, reports and periodicals.

Computer Laboratory- A well furnished big computer lab accommodating 43 computers with internet connectivity & a LCD projector to facilitate basic computer course for students. This lab is available throughout the day for learning practices, preparation of seminar, assignments, power point, project work, dissertation and other educational related works.

Seminar Hall - An air conditioned seminar hall with the capacity of 150 persons is available with modern electronic gadgets, broad band connectivity for conducting seminars, combined classes, classes through video-conferencing etc.

Broad Band Connectivity - Broadband internet connectivity helps the students to get easy access to vast amounts of academic information, besides helping them to get the benefit of tele-education. Some classes are being conducted at ARTD Faculty Centre, Ranchi by experts stationed at Belur Math.

Conference Room - There is a large conference room along with computer, internet and LCD projector facilities. The room is essentially used for conducting Academic Council & Board of Studies meetings, monthly staff meetings as well as for seminar presentation.

Examination Hall - A separate examination hall with more than 200 seating capacity with CC TV facility is dedicated for students to provide a fair and peaceful examination atmosphere throughout the year.

Experimental Farm - Besides the existing experimental farm at Divyayan, Ramakrishna Mission Ashrama, Morabadi, Ranchi there are two large experimental farms at Maheshpur and Getalsud located about 35 km away from Ranchi. Progeny orchards of different fruit plants and Green House facilities, nursery structures also exist in these experimental farms, where a lot of research trials and demonstrations on different crops and vegetables are conducted. Seed production programmes on rice, potato and different other vegetables are conducted in these farms as well. With the commencement of B.Sc. (Hons.) Agriculture Program in 2019, a segment of the Mahespur Farm with an area of about 50 acres are under the process of further development for conducting agricultural field experiments. Presently, in this segment of Maheshpur farm has water harvesting structures (farm pond) along with deep bore well and land shaping is also in progress. A mango orchard of about five acres of land incorporating different promising varieties of the crop is in establishing stage.

Additional Facilities - Along with the above facilities the faculty center has the following additional facilities of Ashrama and Divyayan Krishi Vigyan Kendra (KVK)- The Ashrama & Divyayan KVK have well established infrastructure—buildings, experimental farms, demonstration units like dairy, poultry, duckery, fishery and bee-keeping. The KVK has a well-equipped soil testing laboratory for analyzing macro- and micro- plant-nutrients, a biotechnology unit including vermiculture, production of mushroom-spawn and blue green algae, seed processing unit etc. and an agricultural engineering workshop. There is a well-organized Museum for displaying the activities of Divyayan and an excellent auditorium with a capacity of nearly 310 persons, with audio-visual and video-conferencing facilities. The demonstration unit of poultry has different breeds of layers and broilers. There are also duck production unit with hatcheries. A dairy farm with high yielding cross-bred animals is also functioning efficiently.

Organisational Structure

The Vice-Chancellor of the Institute, works with the Administrative Head of all off-campuses and the Registrar to lead the Institute. The Secretary of Ramakrishna Mission Ashrama, Ranchi works as ex-officio Administrative Head of the faculty centre. The academic structure of the faculty consists of Associate Dean of faculty, Head of Divisions, and Incharge of different units. While the Academic Council and other Statutory Committees function at the Institute level on the principle of collective decision-making process, the Associate Dean and Heads, along with the other faculty members, are empowered to deal with academic and administrative matters at their levels through different sub committees.

Faculty and Staff

The Faculty centre has a good number of resource persons to teach and train the students. In addition to core qualified permanent faculty members, faculty and scientists of Divyayan Krishi Vigyan Kendra also take regular classes. Lecturers and Professors from renowned agricultural institutes, universities, management institutes and other organizations / institutes are also invited to take classes on specialised courses. Faculty and teaching staff details are given below,

Designation	Name
Dr. Raghava Thakur	Professor and Associate Dean
Dr. A.K. Jasu	Professor
Dr. Arunava Sengupta	Assistant Professor
Sri Amitava Dutta	Assistant Professor
Dr. Dipankar Chatterjee	Assistant Professor
Dr. Avijit Kr. Dutta	Assistant Professor

Designation	Name
Dr. Vishal. W. Dhote	Assistant Professor
Dr. Deep Narayan Mukherjee	Assistant Professor
Dr. Sudarsan Biswas	Assistant Professor
Dr. Pankaj Mishra	Assistant Professor
Dr. Badole. S. Purushottam	Assistant Professor
Sri Supratim Patra	Lab Demonstrator
Sri Suresh Mahto	Teaching Assistant
Sri Koustab Majumdar	Teaching Assistant
Sri Arindam Ghosh	Teaching Assistant
Sri Ajeet Upadhyay	Laboratory Assistant
Sri Sanjoy Dinda	Veterinary Assistant

Recent Milestones

- i. in 2019, the National Assessment and Accreditation Council (NAAC) accredited the RKMVERI with an 'A++' Grade. In the 1st cycle of assessment held in March 2019, NAAC rated RKMVERI with a score of 3.66 out of 4.00, the second highest score among universities accredited thus far.
- ii. in 2019, faculty of ARTD has been restructured into two independent divisions for academic and administrative clarity.
- iii. In 2018, an MoU has been signed between RKMVERI and Govt. of Jharkhand to reinforce educational endeavour through financial assistance and to admit students for B.Sc. (Hons.) in Agriculture through Jharkhand Combined Entrance Competitive Examination Board (JCECEB) test.

iv. Between 2016-2019, faculty of ARTD introduced several diploma and certificate programmes in order to empower the youth of Jharkhand, some of whom are first generation learners, through quality education, to become entrepreneurs, master trainer and/or to become well equipped for jobs needing knowledge and skill in the areas of agriculture, rural & tribal development.

Student Support Services

Students' Welfare Committee: The committee of Students' welfare is the main link between students, faculty and the administration of ARTD faculty. Headed by the Convener (Students' Welfare), the purpose of the committee is to create a climate which promotes personal and academic development of students. The committee, thus, strives to help students in their adjustment to campus life and help them take full advantage of the academic and social environment here.

Hostel/Accommodation: At present, the Faculty Centre for ARTD, does not have any hostel facility. However, the University will extend help to the outstation students to finds suitable accommodation at reasonable rates. The convener of the Students' Welfare Committee act as a nodal person to facilitate accommodation for students in the vicinity of campus by networking with potential house owners.

Health Care Services: Ramakrishna Mission Ashrama, Ranchi has its own health centre for treatment of common ailments free of cost. Several renowned doctors are associated with the health centres and the students are allowed to get treatment and advice at free of cost. Apart from the health centre, there is a Government Medical College and Hospital (Rajendra Institute of Medical Sciences) located within 2 km, where 24-hour emergency service is available. A senior faculty member coordinates the Medical and Counselling services.

Placement cum Counselling Services: A dedicated placement cum counselling committee is working under the senior faculty member to provide on-campus services to guide the students for their career and personal needs. Most of our students passing outs from the campus are getting excellent placements within and outside the state. A senior faculty with professional counselling experience acts as a counsellor to help students in their day-to-day concerns and also enhance their overall functioning. The counselling service is available between 4 - 5 p.m. from Monday to Friday. Specialists are also invited from time to time for preparing students for the job market.

Scholarship: Scholarships committee is functioning to sensitize the newly admitted students about the different types of scholarships available for pursuing the programmes under faculty of ARTD. Students must apply to the Scholarship Committee for this purpose. SC/ST/OBC students of Jharkhand may get post matric scholarship from Govt. of Jharkhand. The Institute has some funds to provide aid to economically needy but academically bright students who are not eligible for any type of Scholarships. After the commencement of the academic session, students may apply for scholarship against the notification issued in this regard. The Scholarship Committee of the Institute takes decisions on the basis of the need and availability of funds. Although the University does not commit itself regarding grant of scholarship /stipend, it would earnestly help the deserving students in this regard.

Grievances Redressal Committee: In accordance with UGC Regulations, a Grievances Redressal Committee was constituted with Associate Dean as Chairperson. The other members of the Committee comprise senior faculty members of the Institute, a student representative, and an external member, who is a retired Professor.

Conduct and Discipline

- i. Students should always remember that they are part of Ramakrishna Mission, an organization started by Swami Vivekananda at the behest of his Master, Sri Ramakrishna, which is internationally reputed for its service to humankind and rooted in the highest values of morality, ethics, integrity and discipline. They are therefore expected to maintain and uphold these values within and outside the precincts of the Institute.
- ii. Being a non-political organization, the students of the Ramakrishna Mission's University should strictly avoid any political activity within the campus.
- iii. Ragging in any form is strictly banned, and as it goes against the honour code of the University, it is treated as a serious offence. Any violation of this rule will be treated with strict disciplinary action.
- iv. Every student has to wear dress as per the prescribed uniform.

Boys: Grey full pant, white shirt

Girls: Grey kamij with white salwar and dupatta.

Sweater, if used in winter, should be grey colour for both boys and girls.

- v. No student will be allowed to be absent himself/herself from the classes without valid reason. Application for leave should be made beforehand to the Administrative Head. At least 75% of attendance (in theoretical and practical classes separately) is compulsory in each module of a semester. Failing which the student may face the necessary disciplinary action, details of which are mentioned in examination and evaluation system.

Award of Degree

Each programme leading to the award of a degree comprises a predefined set of courses of study. This may include a number of courses, a research dissertation, internships, and other activities, each of which is assigned specific credits or may be non-credited, but compulsory. Each programme is defined by a minimum requirement of total credits to be completed satisfactorily for the purpose of the award of a degree, within a stipulated minimum and maximum period of study, details of which are mentioned in examination and evaluation system. Students who have successfully completed their programme of study will be admitted to the degree only at the Annual Convocation. Notwithstanding anything contained in the examination rules, the Academic Council may, on the recommendation of the Vice Chancellor, by a resolution passed with the concurrence of not less than two-thirds of the council members, withhold for such a period as they may deem fit, conferment of any degree to any successful candidate at an examination of the Institute, for reasons, which, in their opinion, justify such withholding, e.g., unruly or disorderly conduct, or violence on the Institute campuses, or conviction for an offence involving violence or moral turpitude.



Section B: Programme Details

Sl.	Particulars	Page No.
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1.	Five Year Integrated M.Sc. in Agriculture, Rural and Tribal Development	17
2.	Two Year M.Sc. in Agriculture, Rural and Tribal Development	24
3.	Two Year M.A./M.Sc. in Rural Development and Management	27
4.	One Year PG-Diploma in Rural Development Practices	31
5.	Ph.D. in Agriculture, Rural and Tribal Development	33
(b)	Division of Agriculture	42 - 68
1.	B.Sc. (Hons.) Agriculture	47
2.	B.Voc. in Sustainable Agriculture	56
3.	One Year Diploma in Organic Farming	63
4.	One Year Diploma in ICT in Agriculture	65



Division of Rural & Tribal Development

About the Division

The Division of Rural and Tribal Development has a mission to provide quality human resources for a variety of stakeholder groups in the development process. The division has diversified to develop innovative teaching and research programmes that address wider social issues and realities with a special emphasis on the rural and tribal areas. The five year Integrated M.Sc. in Agriculture, Rural and Tribal Development (ARTD) is a pioneering initiative of the division, that was initiated from the very beginning of the establishment of the Ranchi faculty centre. The division also offers different post graduate degree and diploma programmes like Masters in Rural Development and Management (RDM), M.Sc. in Agriculture, Rural and Tribal Development (ARTD), PG Diploma in Rural Development Practices (PGDRDP) etc. attempting to provide a base for further interdisciplinary research and learning on issues emerging from the interface of human society with the geophysical and the biological environment, both in the local and global sense. The various forms and aspects of this interaction are examined in detail in the programme. The emphasis is on understanding the ecological and the agro-economic, and the socio-political sustainability of these interactions in the light of developmental objectives and ecological constraints.



Admission Process

Candidates are required to appear for an admission test. The successful candidates will be admitted in order of merit. Merit list will be prepared by taking into account the marks obtained in the qualifying examinations, together with written test and interview. Admission to different programmes under the Division of RTD comprises of following steps...

- a. Candidate can apply for admission in the prescribed form either online or offline. Forms may be downloaded from the University website or may be obtained from Belurain Campus, Belur Math, West Bengal and ARTD Faculty centre, Ranchi during office hours (Monday to Saturday). Duly filled in application form along with the Demand Draft in favour of 'RKMVERI RANCHI' payable at Ranchi may be sent by post to 'The Administrative Head, Ramakrishna Mission Vivekananda Educational and Research, ARTD Faculty Centre, Ramakrishna Mission Ashrama, Morabadi, Ranchi-834008, Jharkhand.'
- b. Application fee is Rs. 500/- for all programmes offered under the Division of Rural and Tribal Development.
- c. Written test will be conducted for all programmes, and the final selection will be made through personal interview. Candidates have to produce the original documents at the time of interview. However, in case candidates awaiting for final results, the mark sheet of last part examination, along with a certificate from the head of the institution stating that the candidate has appeared for the final examination and that result is awaited, will be needed for consideration of applicant.
- d. The candidate has the choice of appearing the entrance examination either at our ARTD faculty centre or at RKMVERI (Headquarter), Belur Math, West Bengal. Outstation candidates will have the option of appearing for their written test at any of the nearest centres of Ramakrishna Math/ Mission in their own state by taking permission atleast 15 days before the schedule date of entrance test.

e. Eligibility for different programmes:

- i. 5 year Integrated M.Sc. in ARTD - (10+2) in Science stream or vocational Agriculture/Horticulture from a recognized institution/Board with at least 50% marks in both secondary (10) and (10+2) standard examinations. Appearing students with 50% marks in 10 & class XI may also apply.
- ii. 2 year M.Sc. in ARTD - B. Sc. in Agriculture/ Horticulture/ Forestry/ Agriculture and Rural Development with at least 50% marks.
- iii. 2 year M.A/M.Sc. in RDM – Graduation in any discipline with atleast 50% marks.
- iv. 1 Year PG Diploma in Rural Development Practices – Graduation in any discipline for in service candidates. Graduation in any discipline with atleast 50% marks for others.
- v. Relaxation of marks for SC/ST students for all programmes will be as per Govt. of Jharkhand rules.

f. Tentative Schedule:

Event	Date
Availability of application form	ARTD – 1 st week of February to 1 st week of June
	RDM & PGDRDP – 1 st week of February to 2 nd week of July
Entrance Test	ARTD – 2 nd week of June
	RDM & PGDRDP – 3 rd week of July
Interview	ARTD – 4 th week of June
	RDM & PGDRDP – 1 st week of August
Admission	Starts within two days from the day of interview for all programmes
Beginning of Classes	ARTD – 1 st week of July
	RDM & PGDRDP – 2 nd week of August

Programme-wise Intake

5-year Integrated M.Sc. in ARTD	: 42 (2 seats reserved for diploma students of Ranchi faculty centre)
2-year M.Sc. in ARTD	: Subject to availability of seats after admission of Integrated M.Sc. ARTD students
2-year M.A/M.Sc. in RDM	: 25
1 Year PG Dip. in RDP	: 40

Fees and Deposits

5-year Integrated M.Sc. in ARTD	: Rs. 10000/- per semester for first 3 years and Rs. 12500/- per semester for next 2 years.
2-year M.Sc. in ARTD	: Rs. 12500/- per semester
2-year M.A/M.Sc. in RDM	: Rs. 12500/- per semester
1 Year PG Dip. in RDP	: Rs. 10000/- per semester

In addition to the above fees, every student shall pay a one-time fee of Rs.5,300/-, which includes admission fee (Rs.3000/-), caution deposit (Rs.2000/-), registration fee (Rs.200/-) and identity card charges (Rs.100/-). While caution deposit is refundable at the end of the course (after deduction for breakage, damages etc, if any) on submission of original money receipt. No other fees are refundable.

If a student withdraws from the programme, the fees collected from the student shall be refunded by the Institution to the student as per UGC norms.

Reservation Policy

For each programme uniform reservation policy will be followed. Out of total seats earmarked for each programme, 50% seats will be reserved for the students domiciled in Jharkhand and they will be admitted following the reservation policy of Govt. of Jharkhand. The remaining 50% of the seats will be filled following the reservation policy of Govt. of India.

Programmes Offered and its Outcome

Programmes conducted under the division offers, a rigorous, interdisciplinary, practical oriented course with syllabi and curricula designed to prepare a band of young men and women with thorough knowledge of all aspects of rural lives, their problems, and possible remedies/solutions. Their comprehensive knowledge and skill in all the major areas of rural development give them a holistic view of 'Integrated Rural & Tribal Development', thus enabling them to act as single window service providers for uplifting rural and tribal population of the country.

On successful completion of any programme, a student is expected to develop knowledge/skills in the following four major areas:

1. Knowledge of society, rural systems, social issues and social intervention; understanding of the structure, function, problems of integration of the rural society in order to comprehend the urgent need of a new thrust on 'Integrated Rural and Tribal Development'.
2. Agriculture and allied technologies including natural resource management; developing knowledge and practical skill in the related fields in an integrated and holistic way.
3. Marketing and co-operation, management in farm, agribusiness, micro-finance, finance, human resource including extension, entrepreneurship and research methodology; acquiring the art/skill to apply all resources and technologies in attaining desired positive goal.
4. Personality development and value education, based on Indian culture inculcating higher human values together with soft skill like communicative English and basic knowledge of computer operation; encountering and solving the problems of real life at individual and community levels.

The division offers following innovative and non-conventional programmes integrating learning, research and extension,

Five Year Integrated M.Sc. in Agriculture, Rural and Tribal Development

The five year integrated M.Sc. is an unique programme both from the point of view of imparting a comprehensive as well as in-depth knowledge of all aspects of rural and tribal development and management, and also is expected to nurture the student for a career that would make a difference. The syllabus and curriculum formulated for the programme has been done with great accuracy in consultation with various experts in order that the students gain a thorough knowledge of all aspects of rural and tribal development and management in an integrated way. For example, the course content includes topics of all variety in the area of rural and tribal development and management like natural resource management, health and nutrition, agriculture and allied areas, environment management, information and communication technology (ICT) in rural development, communication skill in English, and personality development. Most important of all, the emphasis on higher human values which alone can contribute to success at the individual and collective level.

There will be an option for lateral mobility at the end of the third year of the five year integrated M.Sc. programme. Students seeking exit at the end of the third year will receive B.Sc. (Hons) degree and a limited number of students with B.Sc. degree in agriculture and allied subjects from other institutes / universities may also be admitted to the two year M.Sc. degree, if found suitable. Hence, the courses offered at the 4th and 5th year of Integrated M.Sc. will be same for the 2 year M.Sc. in ARTD. Academic structure of the undergraduate level of Integrated M.Sc. in ARTD are given below following CBCS pattern,

Programme Structure of B.Sc. (Hons) in ARTD:

The main feature of the CBCS is to make undergraduate education student centric rather than system centric or teacher centric. For achieving these objectives, the CBCS strives to create a holistic syllabus. Thus, in addition to dedicated focus on a discipline through core papers whether in an honours curriculum or a regular curriculum, elective papers have been added which will give students the freedom to choose the allied/applied/broad areas of their discipline and also the areas of other disciplines of their interest. Further in keeping with the vision of the Government, special emphasis has been given to ability enhancement and skill development of students through elective courses under these domains which every student is required to study.

Types of Courses under Choice Based Credit System:

1. Core Course: The purpose of fixing core papers is to cover the basics that a student is expected to imbibe in that particular discipline. A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core course.

2. Elective Course: Generally, a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline/ subject of study or which provides an extended scope or which enables an exposure to some other discipline/subject/domain or nurtures the candidate's proficiency/skill is called an Elective Course.

2.1 Discipline Specific Elective (DSE): Elective courses offered under the main discipline/subject of study is referred to as Discipline Specific Elective.

2.2 Dissertation/Project*: An elective course designed to acquire special/advanced knowledge, such as supplement study/support study to a project work, and a candidate studies such a course on his own with an advisory support by a teacher/faculty member is called dissertation/project.

2.3 Generic Elective (GE) Course: An elective course chosen from an unrelated discipline/subject, with an intention to seek exposure beyond discipline/s of choice is called a Generic Elective. The purpose of this category of papers is to offer the students the option to explore disciplines of interest beyond the choices they make in Core and Discipline Specific Elective papers.

3. Ability Enhancement Courses (AEC): The Ability Enhancement (AE) Courses may be of two kinds: Ability Enhancement Compulsory Courses (AECC) and Skill Enhancement Courses (SEC). “AECC” courses are the courses based upon the content that leads to Knowledge enhancement; i. Environmental Science and ii. English/Communication. These are mandatory. SEC courses are value-based and/or skill-based and are aimed at providing hands-on-training, competencies, skills, etc.

* Dissertation for Post Graduate Level; Project for Undergraduate Level.

Types of Courses under different category

Course Code	Category of Course	Title of the Courses	Credit (L:T:P)
CCARTD11	Core Course	Genesis of Rural and Tribal Development	3:1:0
CCARTD12		Basic Agriculture	4:0:2
CCARTD13		Rural and Tribal Society	4:0:2
CCARTD21		Rural and Tribal Economy	4:0:2
CCARTD22		Extension Education –I	4:0:2
CCARTD23		Basic Horticulture	4:0:2
CCARTD31		Rural and Tribal Women and Children	3:1:0
CCARTD32		Commercial Agriculture	4:0:2

Course Code	Category of Course	Title of the Courses	Credit (L:T:P)
CCARTD33	Core Course	Extension Education – II	3:1:0
CCARTD41		Health and Nutrition	3:1:0
CCARTD42		Crop Production Technology	4:0:2
CCARTD43		Rural and Tribal Development Administration	4:1:0
CCARTD51		Research Methodology	4:0:2
CCARTD52		Organic Farming	4:0:2
CCARTD61		Rural and Tribal Demography	4:0:2
CCARTD62		Rural Living and Learning Experience	0:0:6
			84
AEARTD11	Ability Enhancement Compulsory Course	English Communication	3:1:0
AEARTD21		Environmental Science	3:0:1
			8
SEARTD11	Skill Enhancement Course	Value Education – I	1:0:0
SEARTD21		Value Education – II	1:0:0
SEARTD31		Value Education – III	1:0:0
SEARTD41		Entrepreneurship Development	2:0:1
SEARTD51		Value Education – IV	1:0:0
SEARTD61		Value Education – V	1:0:0
			8

Course Code	Category of Course	Title of the Courses	Credit (L:T:P)
DEARTD51	Discipline Specific Elective	Basic Animal Husbandry	4:0:2
DEARTD52		Rural and Tribal Livelihood Management	4:0:2
DEARTD53		Rural Planning and Management	4:0:2
DEARTD54		Rural Energy	0:0:6
DEARTD55		Rural Social Development	4:0:2
DEARTD61		Integrated Aquaculture	4:0:2
DEARTD62		Project Work	4:0:2
DEARTD63		Rural Banking and Microfinance	4:0:2
DEARTD64		Development Communication	4:0:2
DEARTD65		Economic Agriculture	4:0:2
			24
GEARTD11	Generic Elective	Basic Soil Science	4:0:2
GEARTD21		Social Work Practice	4:0:2
GEARTD31		Basic Crop Protection	4:0:2
GEARTD41		Watershed Development and Management	4:0:2
			24
Total Credit			148

L-Lecture; T-Tutorial; P-Practical

Note: A student can opt for more number of Discipline specific elective papers than proposed in the course curriculum of ARTD. However, the total credit score earned will not exceed 160 credits for UG Honours as per UGC regulation.

Semester wise Courses

Semester I

Course Code	Course Title	Credit (L:T:P)
CCARTD11	Genesis of Rural and Tribal Development	4:0:2
CCARTD12	Basic Agriculture	4:0:2
CCARTD13	Rural and Tribal Society	4:0:2
SEARTD11	Value Education – I	1:0:0
GEARTD11	Basic Soil Science	4:0:2
AEARTD11	English Communication	3:1:0

Semester II

Course Code	Course Title	Credit (L:T:P)
CCARTD21	Rural and Tribal Economy	4:0:2
CCARTD22	Extension Education –I	4:0:2
CCARTD23	Basic Horticulture	4:0:2
SEARTD21	Value Education – II	1:0:0
GEARTD21	Social Work Practice	4:0:2
AEARTD21	Environmental Science	3:0:1

Semester III

Course Code	Course Title	Credit (L:T:P)
CCARTD31	Rural and Tribal Women and Children	3:1:0
CCARTD32	Commercial Agriculture	4:0:2
CCARTD33	Extension Education – II	4:0:2
SEARTD31	Value Education – III	1:0:0
GEARTD31	Basic Crop Protection	4:0:2

Semester IV

Course Code	Course Title	Credit (L:T:P)
CCARTD41	Health and Nutrition	3:1:0
CCARTD42	Crop Production Technology	4:0:2
CCARTD43	Rural and Tribal Development Administration	4:1:0
SEARTD41	Entrepreneurship Development	2:0:1
GEARTD41	Watershed Development and Management	4:0:2

Semester V

Course Code	Course Title	Credit (L:T:P)
CCARTD51	Research Methodology	4:0:2
CCARTD52	Organic Farming	4:0:2
SEARTD51	Value Education – IV	1:0:0
DEARTD51	Basic Animal Husbandry	4:0:2
DEARTD52	Rural and Tribal Livelihood Management	4:0:2

Semester VI

Course Code	Course Title	Credit (L:T:P)
CCARTD61	Rural and Tribal Demography	4:0:2
CCARTD62	Rural Living and Learning Experience	0:0:6
SEARTD61	Value Education – V	1:0:0
DEARTD61	Integrated Aquaculture	4:0:2
DEARTD62	Project Work	0:0:6

Two Year M.Sc. in Agriculture, Rural and Tribal Development

Courses offered at the post graduate level demands not only rigorous intellectual work in the classroom and the laboratories but also hard physical work in the farms for crop management, and occasional field visit to far-off villages where students may require to stay for some days, if necessary, for academic benefit. So a candidate eager for admission to the join M.Sc. ARTD programme must possess the right mind-set that the above requirements would demand. Medical fitness of a candidate is certainly an important prerequisite. The most essential component of the programme is to bridge the divide between academics and application by generating willingness among the students for rural living and to develop the inquisitive process of learning leading to action through participation in villagers' day to day activities. The interactive involvement with the villagers in different institutional contexts would expand the innovative qualities of the students. There is a provision for specialisation in two broad areas viz. Rural Extension Management (REM) and Agriculture & Sustainable Livelihood (ASL). A student can choose courses from their preferred area of specialisation from 2nd/8th semester onwards.

Semester wise courses

Semester I for 2 year M.Sc. and Semester VII for Integrated M.Sc. Students

Course Code	Course Title	Credit
IRTD 701	Rural and Tribal Development: Concept and Approaches	3+2
IRTD 702	Extension Education – III	3+2
IRTD 703	Advanced Horticulture	3+4
IRTD 704	Research Methodology	3+3
IRTD 705	Rural Living and Learning Experience (RLLE) -I	0:0:3
	Course Title (Optional - any one)	
IRTD 706	Human Resource Development and Management **	3+2
IRTD 707	Group Dynamics	3+2
IRTD 708	Gender and Development	3+2
	Total	31

** compulsory optional

Semester II for 2 year M.Sc. and Semester VIII for Integrated M.Sc. Students

Course Code	Course Title	Credit
IRTD 801	Indian Cultural and Spiritual Heritage	2+0
IRTD 802	Integrated Farming System Technologies	3+4
IRTD 803	Planning, Policy and Panchayati Raj Institution*	3+2

Course Code	Course Title	Credit
IRTD 811	Protected Cultivation of High Value Crops#	3+2
IRTD 804	Information and Communication Technology in Rural Development	3+3
IRTD 805	Learning through Organizational Attachment(LOA)	0+7
Course Title (Optional - any one)		
IRTD 806	Agribusiness Management **	3+2
IRTD 807	Forest, Forest policies and Tribal Livelihood	3+2
IRTD 808	Population Perspectives of Rural and Tribal India	3+2
IRTD 809	Environment and Sustainable Rural and Tribal Development	3+2
	Total	32

** compulsory optional; * compulsory for REM; # compulsory for ASL

Semester III for 2 year M.Sc. and Semester IX for Integrated M.Sc. Students

Course Code	Course Title	Credit
IRTD 901	Indian Cultural and Spiritual Heritage	2+0
IRTD 902	Rural Entrepreneurship Development	3+2
IRTD 903	Production Economics and Farm Management	3+2
IRTD 904	Rural and Tribal Development and Management*	3+2
IRTD 906	Bio-pesticides, Bio-agents & Bio-fertilizers#	3+2
IRTD 905	Rural Living and Learning Experience (RLLE) -II	0+3

	Course Title (Optional - any one)	
Course Code	Course Title	Credit
IRTD 907	Financial and Accounting Management **	3+2
IRTD 908	Transfer and Management of Technological Innovation	3+2
IRTD 909	Social Intervention and Counseling	3+2
		Total 25

** compulsory optional; * compulsory for REM; # compulsory for ASL

Semester IV for 2 year M.Sc. and Semester X for Integrated M.Sc. Students

Course Code	Course Title	Credit
IRTD 951	Dissertation	0+27
IRTD 952	Extension Education – IV	1+1
IRTD 953	Rural Development Work Experience (RDWE)	0+3
		Total 32

Two Year M.A./M.Sc. in Rural Development and Management

Communities are at critical crossroads across the Global South. In a technology and market-driven process of development, the expanse of the marginalised and deprived sections of communities has increased. Two Year M.A./M.Sc. in Rural Development and Management aims to blend a critical socio-political analysis of marginalities of communities with appropriate strategies and approaches in enabling the process of claiming their entitlements and rights. This programme envisages preparation of a cadre of development practitioners who could effectively respond to the contemporary concerns of marginalised communities and to promote people centred development.

Semester wise courses

Semester I

Course Code	Course Title	Credit (L:T:P)
RDM 101	Rural Development – Concepts, Policies and Approaches	2:1:0
RDM 102	Rural Development: Thoughts and Theories	2:1:0
RDM 103	Rural Economics and Cooperation	2:1:0
RDM 104	Rural Society and Social Problems	2:1:0
RDM 105	Rural Development Administration and Panchayati Raj	2:0:0
RDM 106	Rural Planning and Management: Principles and Practices	2:1:0
RDM 107	Fieldwork - 1 (Village Survey, report writing and presentation) 10-12 days.	0:0:4
RDM 108	Integrated Personality Development	1:0:0
		Total 22

Semester II

Course Code	Course Title	Credit (L:T:P)
RDM 201	Basic Agriculture for Farmer's Welfare	2:0:1
RDM 202	Social Policy and Social Legislation	2:0:0
RDM 203	Rural Demography	2:1:0
RDM 204	Social Innovations and Entrepreneurship	2:1:0

Semester II

Course Code	Course Title	Credit (L:T:P)
RDM 205	Rural Health and Well Being	2:0:1
RDM 206	Rural Labour Welfare and Human Resource Management	2:1:0
RDM 207	Internship/LOA	0:0:5
RDM 208	Indian Cultural and Spiritual Heritage	1:0:0
Total		23

Semester III

Course Code	Course Title	Credit (L:T:P)
RDM 301	ICT and Development Communication	2:1:0
RDM 302	Rural Ecology, Sustainable Livelihood and Natural Resource Management	2:1:0
RDM 303	Rural Tourism	2:1:0
RDM 304	Research Methodology	3:0:0
RDM 305	Student can choose any course from list 1 (Rural Women and Child Development)	2:0:0
RDM 306	Computer Application and Management Information System	0:0:1
RDM 307	Fieldwork - 2 (PRA, village planning, health and nutrition assessment etc.) – 7 days	0:0:3
Total		18

Semester IV

Course Code	Course Title	Credit (L:T:P)
RDM 401	Financial Institutions for Rural Development	2:1:0
RDM 402	Accounting and Financial Management	2:1:0
RDM 403	Swami Vivekananda and Human Development: Vision and Mission	2:1:0
RDM 404	Student can choose any course from list 2 (Watershed Development and management)	2:0:0
RDM 405	Dissertation	0:0:10
Total		21
Grand Total		84

Elective Courses for Semester III

Course Code	Course Title	Credit
EC3	Rural Women and Child Development	2
EC3	Local Knowledge Systems and Sustainable Development	2
EC3	Tribes and Tribal Development	2
EC3	Technology and Development	2
EC3	Basic Services and Rural Infrastructure	2
EC3	Land reforms in Rural Development	2
EC3	Organisational Behaviour	2

Elective Courses for Semester IV

Course Code	Course Title	Credit
EC4	Disaster Management	2
EC4	Wastelands and Forest Management	2
EC4	Human Rights in Rural Context	2
EC4	Watershed Development and Management	2
EC4	NGOs, CSR and Civil Society	2
EC4	Drinking Water and Rural Sanitation	2
EC4	Rural Energy	2
EC4	Counselling: Theory and Practice	2

One Year PG Diploma in Rural Development Practices

The Rural Development Practices (RDP) program will help in developing competencies, knowledge, skills and attitudes necessary to work effectively as a change agent to add value to community development practice by exploring and coordinating networks and partnerships, conducts community-based research to inform interventions, aligned to relevant legal and regulatory frameworks, plans, designs and manages community interventions through the application of appropriate leadership and management styles. The purpose of this qualification is to prepare a learner to operate as a Community Development Practitioner while doing job i.e. Learn while you earn. The program will be offered in blended mode (online and offline) of instruction with continuous monitoring of the work assigned to the students (in service) by their host organization. Non-working students will be attached with one of our partner organizations for one year to complete their experiential learning in an organizational setting. Theory classes will be conducted in the evening preferably in the weekend through online.

However, admitted students have to attend the compulsory seven days on campus orientation programme at the beginning of the semester. They may also be invited for offline classes in between the semester if and when necessary.

Semester-wise Courses

Semester I

Course Code	Course Title	Credit (L:T:P)
RDP 101	Rural Society and Sustainable Development	2:0:0
RDP 102	Policies and Programmes for Rural Development	2:0:0
RDP 103	Rural Development Planning and Management	2:0:0
RDP 104	Rural Development Practices - I	0:0:14
	Total	20

Semester II

Course Code	Course Title	Credit (L:T:P)
RDP 201	Rural Development : Methods and Techniques	2:0:0
RDP 202	Rural Resources and Livelihoods	3:0:0
RDP 203	Rural Development Practices - II	0:0:15
	Total	20
	Grand Total	40

Ph.D. Programme

Division of ARTD offers full time Ph.D in different specialised areas related to agriculture, rural and tribal development. Advertisement seeking application are invited as per the availability of supervisor. Students are admitted following the guidelines prescribed by UGC from time to time.

Rules and Guidelines

Attendance Rules

Attendance in theory and practical is compulsory. Every student is expected to maintain regularity and 100% attendance for all programme requirements: classroom/theory courses, field practicum, field work, internships, etc. A minimum of 75% attendance is required for all taught courses.

- (1) Eligible for Supplementary: Attendance 65% and above but below 75%. Supplementary may be allowed only in very special case with valid supporting documents subject to approval of concerned authority. Prior written permission is essential for consideration.
- (2) Repeat the Course: Attendance below 65%. Absence for special reasons have to be taken with permission through a leave application submitted to the concerned authority. Students who have less than 75% attendance in any course will not be allowed to undertake the final assessment components such as end of semester examination or a final assignment, and will be declared 'failed' in the course. In such cases, further appearance in examination or completion of assessments will be treated as supplementary. Students who have less than 75% attendance in more than three courses will be required to repeat the semester the following year.

Examination Rules

For continuous evaluation of the performance of a student choice based credit system is followed. Each course is assigned a certain weightage which is represented by number of credits. A student's performance is measured by the grade point earned by him/her. A student has to complete the courses prescribed in different semesters and has to earn the prescribed grade points in order to qualify for the degree. An overview of this system is as follows:

Definition of key words in CBCS

- 1. Academic Year:** Two consecutive (one odd+ one even) semesters constitute one academic year.
- 2. Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses (Core, elective or skill courses).
- 3. Course:** Course usually referred to as 'papers', is a component of programmes. All courses need not carry the same weight. The course should define learning objectives and learning outcomes. A course may be designed to include lectures/tutorials/laboratory work/fieldwork / outreach activities/project work/seminars/term papers /assignments/ presentations/self-study, etc. or a combination of some of these.
- 4. Credit Based Semester System (CBSS):** Under the CBSS, the requirement for awarding Degrees or diplomas or certificates is prescribed in terms of number of credits to be completed by the students.
- 5. Credit:** It is a unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/ field work per week.
- 6. Letter Grade:** It is an index of the performance of the students in a said course. Grade are denoted by letters O, A+, A, B+, B, C+, C, F and AB
- 7. Grade Point:** It is a numerical grade allotted to each letter grade.
- 8. Credit Point:** It is the product of grade points and the number of credits to be completed by the students.

9. **Semester Grade Point Average (SGPA):** It is a measure of performance of a student in a semester. It is the ratio of total credit points secured by a student in various courses of a semester and the course credits taken during that semester. It shall be expressed up to two decimal points.
10. **Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of students over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal points.
11. **Programme:** An educational programme leads to award of a Degree or a Diploma or a Certificate.
12. **Semester:** Odd semester (i.e. 1st, 3rd, 5th, 7th and 9th semester) is from July to December and even semester (i.e. 2nd, 4th 6th , 8th and 10th semester) is from January to June.
13. **Grade Sheet:** The grade sheet issued at the end of each semester shall include the total marks obtained in each paper / module as well as the SGPA, the total marks obtained in that semester and the credit earned in the semester concerned. The final grade sheet, on completion of six semesters, shall include the SGPA of six semesters, CGPA, Letter Grade, the marks obtained and the total Credits earned.

Minimum Criteria for Degree

1. A student must satisfactorily complete all compulsory requirements, and accumulate the requisite credits as on date of completion of a particular programme in order to become eligible for the degree.
2. A candidate pursuing a regular course of study for three-year semester-wise degree course shall have to clear courses of all semesters in all respects within a span of five years from the year of admission to the particular course and combinations, failing which enrolment of the candidate shall stand cancelled.

3. A student of post graduate level will have to complete the entire programme within a maximum period of 4 years from the date of admission.

Mechanism of computation of work-load per week

For the purpose of computation of credits/work-load mechanism equivalent to the following shall be adopted

1. Theory 1 credit = 1 Hour Lecture [1 theory period of one-hour duration per week]
2. Tutorial 1 credit = 1 Hour Tutorial [1 tutorial period of one-hour duration per week]
3. Practical 1 credit = 2 Hours Practical [1 practical period of two hours' duration per week]
4. Semester duration: 16 weeks of academic work

Marks Distribution and Evaluation

1. Division of marks for each Core, Generic Elective and Discipline Specific Elective papers/courses:

- A. Subjects with practical: Theory (30) + Practical (50) + Internal Assessment (40 [50% will be added]) = Total 100
- B. Subjects without practical: Theory (30) + Tutorial (50) + Internal Assessment (40 [50% will be added]) = Total 100

2. Division of Marks for AECC and SEC papers/courses:

Theory (60) + Internal Assessment (40) [internal exam (35) + assembly attendance (5)] = Total 100

Note: Internal exam will be based on theory.

3. 5 marks for morning assembly attendance will be awarded as

attendance 95% and above = 5 marks

attendance 90% – below 95% = 4 marks

attendance 80% – below 90% = 3 marks

attendance 75% – below 80% = 2 marks

attendance 65% – below 75% = 1 mark

4. The pattern and break up of marks allotted for the questions in the semester examinations shall be finalized by the respective Board of Studies in the relevant subject.

Pass Percentage and Promotion Rules for all the courses under CBCS

1. To qualify and earn the corresponding credit of a particular course /paper a student must score minimum 40% marks combining his marks obtained in theory and internal assessment and also 40% marks in practical /tutorial separately at the end of the semester.
2. A candidate pursuing Honours/Core course of study clearing all the papers and securing a minimum of CGPA 4.00 will be declared as obtaining B.Sc. Degree with his CGPA and corresponding Letter Grade.
3. A student who appears in a semester examination or who was eligible to appear in the semester examinations but remains absent in any or all the courses of the said semester, shall move on to the next semester irrespective of his result in the said examinations.
4. A student who has obtained at least 40% in all the courses in theory examination (including internal assessment) and practical/tutorial examination separately conducted in the different semester examinations shall be promoted to the next semester without any backlog/arrear courses.
5. A student who has not obtained at least 40% in all the courses in theory examination (including internal assessment) and practical/tutorial examinations separately, conducted in the different semester examinations shall be promoted to the next semester with previous uncleared arrear/backlog courses.
6. A student who wants to re-appear in supplementary examination for clearing arrear/backlog in a course will have to do so only when the respective course is offered in the next semester under regular examination procedure, and in such case the internal assessment/internal marks will remain unaltered. [See supplementary rules].
7. If a candidate secures pass marks in practical paper(s)/tutorials but fails to secure pass marks in theoretical papers (including internal assessment), the marks of practical paper(s)/ tutorials along with internal assessment of theoretical papers shall be retained.

The candidate remaining absent in the internal examination will be awarded zero (0) marks.

8. If any candidate is barred from appearing in the exam in any theory/practical paper for shortage of attendance, he has to re-appear for clearing arrear/backlog in that course component (theory/practical) when the respective course component (theory/practical) is offered/ evaluated in the next appropriate semester under regular examination procedure. However, in case of theory component backlog/arrear the marks of the internal assessment will be retained. When a short-attendance candidate appears in a theory paper in the next appropriate semester, he will be awarded 2 marks for his assembly attendance.
9. The case of a reported against (RA) candidate will be referred to the Examination Committee for further consideration and necessary action.
10. There will be no scope for improvement meaning that if a student secures pass marks in any paper/course he will not be allowed to reappear in the examination of that particular course/paper in any subsequent semester for improvement of grade point.
11. A candidate who fails to obtain pass marks in any component of a paper in any semester for shortage of one mark shall be awarded one grace mark in that component of the paper.
12. 1 grace mark may be awarded to a student who is securing only 1 mark less than 50%, 55% and 60% in aggregate in undergraduate and 40%, 50%, 55% and 60% in post graduate in aggregate at the end of his final semester examination for better academic endeavour.

Supplementary Examination

1. Students are required to apply for supplementary, if they have failed in a given course, or if they have missed an examination or failed to submit project/dissertation report within due date or shortage of attendance or any other component of assessment for any valid reason (sanctioned by the Associate Dean on recommendation of the Head).

Supplementary exam will be conducted only for end term exams and not for internal assessment.

2. Fee for Supplementary Examinations in theory and practical courses is Rs. 400/- for each
3. Fee for Supplementary for Project work/Dissertation is Rs. 1,000/-
4. If the student fails to undertake the supplementary or fails in Supplementary-1, then the student will be offered Supplementary-2 as per the schedule announced.
5. If the student fails to undertake or fails in Supplementary-2, then he/she will be declared as failed in the course and will be required to repeat the course in a future semester

Post publication seeing of answer-scripts, scrutiny of answer-scripts and review of results

1. Students may apply to the Associate Dean of the faculty to see the answer-scripts submitting a fee to be notified within fifteen days after the publication of results.
2. After seeing the answer-script a student (i) may apply for scrutiny of his answer script(s) irrespective of marks. Post publication scrutiny does not imply re-examination or re-assessment of scripts but involve verification of scripts and records. (ii) may apply for re-examination of answer-scripts submitting a fee.
3. A student may directly apply for re-examination of answer scripts.
4. Re-Examination/review is applicable only for theoretical papers of different end semester examinations. Re-examination/ review is not permissible for internal assessment, practical & tutorial examinations and project work/dissertation.
5. In re-examination of papers for any end semester examinations, the marks awarded by the re-examiner in a paper will be taken as the marks obtained by the candidate in that paper. If there is a difference of more than 15% marks of the full marks in the paper between the first examiner and the reviewer, then the answer script will be sent to the third examiner and the

average of two closer marks thus received, will stand as his/ her final marks.

Letter Grades and Grade Point

Grade	Marks Equivalents*	Grade Point
O	91% and above	10
A+	81% – 90%	9
A	71% – 80%	8
B+	61% – 70%	7

**Percentage will be rounded off to integer

Computation of SGPA and CGPA

Grade	Marks Equivalents*	Grade Point
B	51% – 60%	6
C+	41% – 50%	5
C	Passed with 40%	4
F	Below 40%	0
AB		0

The following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) will be followed.

1. The SGPA of a student for a semester is the ratio of the sum of product of the grade point scored and the corresponding credit of different component(s) of all the courses offered to a student in a semester to the sum of credit assigned to the courses offered to him in that semester.

2. The CGPA is the ratio of the sum of the product of SGPA and the corresponding total credit of a semester, the sum being taken over all the semesters to the sum of the total credit of all the semesters.
3. The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.
4. The overall letter grade of the candidate on the basis of CGPA will be as follows:

Grade	CGPA	Remarks
O	9.5 and above	Outstanding
A+	8.5 – 9.49	Excellent

5. The grade sheet issued at the end of each semester shall include the total marks obtained in each paper / module as well as the SGPA, the total marks obtained in that semester and the credit earned in the semester concerned. The final grade sheet, on completion of programmes, shall include the SGPA of all semesters, CGPA, Letter Grade, the marks obtained and the total Credits earned.

Grade	CGPA	Remarks
A	7.5 – 8.49	Very Good
B+	6.5 – 7.49	Good
B	5.5 – 6.49	Average
C+	4.5 – 5.49	Fair
C	4.0 – 4.49	Satisfactory
F	Below 4.0	Fail

Division of Agriculture

About the Division

The Department of Agriculture, Rural and Tribal Development was bifurcated into two separate but inter-dependent divisions viz. (i) Division of Agriculture, and (ii) Division of Rural and Tribal Development in 2019 for smooth functioning and catering the specific need of the farming community of the state in agriculture and allied sectors. The division of agriculture is engaged mainly in teaching different agricultural courses with its research priority on alternative approaches of non-chemical farming intervention which is the need of the hour. The main motto of the division is to cater a wide group of stakeholders through its diversified academic and research set up. The division is currently offering various academic programmes namely four year B.Sc. (Hons.) in Agriculture (to reinforce educational endeavour in agriculture in the state of Jharkhand with the financial assistance of the Government of Jharkhand), three year B. Voc. in Sustainable Agriculture (BVSA) [under the National Skills Qualifications Framework (NSQF) schemes of the UGC] and different diploma level courses like One Year Diploma in Organic Farming (DOF), One Year Diploma in ICT in Agriculture, etc. Division of Agriculture is also devoted to standardize and dissemination of the low-cost organic farming techniques among the farming communities of the state in general and Ranchi district & its surrounding areas in particular.



Admission Process

Admission process for B.Voc. and Diploma programmes will be governed as per the rules given under Division of Rural and Tribal Development (Page No. 13-15) Admission and registration process of B.Sc. (Hons.) in Agriculture are given below,

Fees and Documents for Registration

In order to be registered as a student of the University a candidate selected for admission into B.Sc. (Hons.) Agriculture programme has to pay the fee prescribed by the University and should furnish the following documents at the time of admission.

Admission fees, Academic fees, Examination fees and any other fee as may be decided by the Institute.

Original Rank card/ Score card of Jharkhand Combined Entrance Competitive Examination Board (JCECEB).

- 10th Class Board Certificate and Mark sheet.
- Higher Secondary Certificate and Mark sheet
- Original College Leaving Certificate (CLC) / Transfer Certificate (TC)
- Original Migration Certificate
- Caste Certificate
- Original Conduct Certificate
- Income Certificate of the parent/guardian
- Residential Certificate
- Medical Fitness Certificate
- Blood Group Certificate
- Coloured passport size photographs
- Aadhaar Card (xerox)

Provisional Registration

- a. A candidate who for any reason is unable to submit any of the documents required under clause 2.1 may, with special permission of the Registrar/Administrative Head, be admitted and registered provisionally on payment of the prescribed fees, subject to production of the wanting documents/certificates within a stipulated period, failing which admission will be cancelled. A candidate who could not submit the migration certificate at the time of admission must submit the same before appearing the final semester examination, failing which he/she will not be allowed to appear the examination.
- b. A candidate selected for admission, failing to register in the prescribed date, shall forfeit his/ her seat and such seats shall be offered to other candidates in the waiting list of subsequent dates of admission and notified in the admission notice.

Provisional Registration of Continuing Students

A continuing student who cannot register on the prescribed date due to illness or other unavoidable circumstances for which sufficient proof will be given to the satisfaction of the Administrative Head/Associate Dean, may obtain provisional registration by paying the required fees on or before the prescribed date of registration. Such a student shall have to complete other aspects of registration within one week from the date of registration, failing which his/ her provisional registration shall be cancelled and all fees paid by him/her shall be forfeited.

Late Registration

A continuing student who does not register on the scheduled date of registration shall be required to pay a late registration fee of Rs. 100 upto seven days. Late registration as per regulation shall not be permitted after seven working days from the scheduled date of registration for any semester. However, the concern authority may in very special cases, permit late registration within 15 days on payment of fine of Rs. 500/- in addition to the late registration fee as per regulation.

University Registration Card

A student is issued a registration card after admission process. University registration number continues to be his/her registration number for all examinations during his/her tenure of study. This card is also essential for attending classes in college and appearing in examinations. This is the most important document and the student must take care of it. Duplicate University registration card will be issued only after recommendation by the Administrative Head/Associate Dean on payment of the prescribed fees.

Course wise Registration

- a. All registrations for a course shall be done within the stipulated period from the list of courses notified from year to year or laid down in the semester calendar under the authority of the Academic Council. The date of registration as notified or laid in the semester calendar shall not be changed under any circumstances without approval of the Academic Council.
- b. Prior to registration, the student should have cleared all fees and arrears due to University, Department, Library, etc.

Eligibility for all Programmes

B.Sc (Hons.) Agriculture : As per the guidelines of JCECEB

3-year B.Voc in Sustainable Agriculture : 10+2 (in any stream) with 45% marks

1-year Diploma in Organic Farming : 10+2 (in any stream) with 45% marks

1 Year Diploma in ICT in Agriculture : 10+2 (in any stream) with 45% marks

Programme-wise Intake

B.Sc (Hons.) Agriculture	: 50
3-year B.Voc in Sustainable Agriculture	: 40
1-year Diploma in Organic Farming	: 30
1 Year Diploma in ICT in Agriculture	: 30

Fees and Deposits

B.Sc. (Hons.) Agriculture	: Rs. 12500/- per semester
3-year B.Voc in Sustainable Agriculture	: Rs. 10000/- per semester
1-year Diploma in Organic Farming	: Rs. 5000/- per semester
1 Year Diploma in ICT in Agriculture	: Rs. 5000/- per semester

In addition to the above fees, every student shall pay a one-time fee of Rs.5,300/-, which includes admission fee (Rs.3000/-), caution deposit (Rs.2000/-), registration fee (Rs.200/-) and identity card charges (Rs.100/-). While caution deposit is refundable at the end of the course (after deduction for breakage, damages etc, if any), no other fees are refundable.

If a student withdraws from the programme refund will be made as per the UGC norms.

Reservation Policy

B.Sc. (Hons.) Agriculture students will be admitted following the reservation policy of JCECEB. For other programmes, reservation policy will be followed as mentioned under the Division of Rural and Tribal Development (**Page No. 15**).

Programmes offered and its Outcome

Besides B. Sc. (Hons.) Agriculture Program several other programmes related to agriculture and allied sciences are being offered under the division those are interdisciplinary, practical oriented course with syllabi and curricula designed to prepare a band of young men and women with thorough knowledge of all aspects of agriculture and allied subjects, their scenario, importance, scope including problems with possible remedies/solutions. Their comprehensive knowledge and skill in all the major areas of agriculture and allied sectors give them a holistic view of 'Overall Agricultural Development', thus enabling them to act as potential service providers for uplifting farming community of the country in general and Jharkhand in particular. Beyond the course curricula in agriculture and allied subjects as framed out by different state agricultural universities and even Indian Council of Agricultural Research (ICAR) some value added courses are offering by the division in its several academic programmes. On successful completion of any programme, a student is expected to develop knowledge/skills in the following major areas:

1. Knowledge on agriculture and allied activities including problem solving capability especially through sustainable and low-cost farming approaches in order to address the need of the hour and to encounter the ill effects of conventional chemical farming practices.
2. Marketing and co-operation, management in farm, agribusiness, micro-finance, finance, human resource including extension, entrepreneurship and research methodology; acquiring the art/skill to apply all resources and technologies in attaining desired positive goal.
3. Personality development and value education, based on Indian culture inculcating higher human values together with soft skill like communicative English and basic knowledge of computer operation; encountering and solving the problems of real life at individual and community levels.

The division offers following conventional and non-conventional innovative programmes integrating learning, research and extension.

B.Sc. (Hons.) Agriculture

This programme was initiated in 2018 with the financial assistance of the Department of Agriculture, Animal Husbandry and Co-operative, Government of Jharkhand and the academic session for the programme was started from 2019. The course curriculum is at par the Fifth Deans Committee's recommendation consisting of topics like agricultural sciences, genetics and plant breeding, use of modern scientific equipment, farming systems and sustainable agriculture, cultivation of fruits, vegetables, spices and flowers, medicinal and aromatic plants, land surveying, soil science, water resource management, dry land agriculture, integrated nutrient management, integrated pest and diseases management and animal and poultry management. Besides, some value-added courses are also incorporated to address the basic needs of skill enhancement including moral development.

The programme focuses on modern agricultural requirements and deals with topics like production issues facing farmers, agribusiness and other related issues of farming industry. Different elective courses are offering in this programme in 2nd & 3rd year (in 4th, 5th and 6th semester). The programme is also included with Student READY (Rural and Entrepreneurship Awareness Development Yojana) programme with its Experiential Learning (EL), Rural Agriculture Work Experience (RAWE), Agro- Industrial Attachment, Hands-on Training (HOT) / Skill Development Training components offer in the 4th year (7th & 8th semester). Semester wise courses offered in B. Sc. (Hons.) Agriculture is given below:

Semester wise courses
Semester I

Course Code	Course Title	Credit (Th+Pr)	Remark(s)
HORT-111	Fundamentals of Horticulture	2 (1+1)	Core Courses
FPBB-111	Fundamentals of Plant Biochemistry and Biotechnology	3 (2+1)	
SSAC-111	Fundamentals of Soil Science	3 (2+1)	
AGRO-112	Introduction to Forestry	2 (1+1)	
ENGL-111	Comprehension & Communication Skills in English	2 (1+1)	
AGRO-111	Fundamentals of Agronomy	4 (3+1)	
AEXT-111	Rural Sociology & Educational Psychology	2 (2+0)	
CPHY-111	Introductory Biology*	2 (1+1)*	Remedial course for PCM combinations only

Course Code	Course Title	Credit (Th+Pr)	Remark(s)
EMCA-111	Elementary Mathematics*	2 (2+0)*	Remedial course for PCB combinations only
AEXT-112	Agricultural Heritage	1 (1+0)*	Remedial compulsory course (R)
AEXT-113	Human Values & Ethics**	1 (1+0)**	Non gradial (NC)
PHEY-111	Physical Education & Yoga Practices**	2 (0+2)**	Non gradial (any one) (NC)
COCA-111	NSS/NCC**	2 (0+2)**	
TOTAL [Core Courses: 18 Credits (12 + 6), Remedial Courses: 3 Credits (3+0/2+1) & Non-Gradial Courses: 3 Credits (1+2)]			18 + 03* + 03**

Semester II

Course Code	Course Title	Credit (Th+Pr)
GPBR-121	Fundamentals of Genetics	3 (2 + 1)
PATH-121	Agricultural Microbiology	2 (1 + 1)
AENG-121	Soil and Water Conservation Engineering	2 (1 + 1)
CPHY-122	Fundamentals of Crop Physiology	2 (1 + 1)
AECO-121	Fundamentals of Agricultural Economics	2 (2 + 0)
PATH-122	Fundamentals of Plant Pathology	4 (3 + 1)

Course Code	Course Title	Credit (Th+Pr)
ENTO-121	Fundamentals of Entomology	4 (3 + 1)
AEXT-124	Fundamentals of Agricultural Extension Education	3 (2 + 1)
AEXT-125	Communication Skills and Personality Development	2 (1 + 1)
TOTAL		24 (16 + 8)

Semester III

Course Code	Course Title	Credit (Th+Pr)
AGRO-233	Crop Production Technology – I (Kharif Crops)	2 (1 + 1)
GPBR-232	Fundamentals of Plant Breeding	3 (2 + 1)
AECO-232	Agricultural Finance and Cooperation	3 (2 + 1)
EMCA-232	Agri- Informatics	2 (1 + 1)
AENG-232	Farm Machinery and Power	2 (1 + 1)
HORT-232	Production Technology for Vegetables and Spices	2 (1 + 1)
ESDM-231	Environmental Studies and Disaster Management	3 (2 + 1)
EMCA-233	Statistical Methods	2 (1 + 1)
AHDS-231	Livestock and Poultry Management	4 (3 + 1)
TOTAL		23 (14 + 9)

Semester IV

Course Code	Course Title	Credit (Th+Pr)	Remark(s)
AGRO-244	Crop Production Technology –II (Rabi Crops)	2 (1 + 1)	Core Courses
HORT-243	Production Technology for Ornamental Crops, MAP and Landscaping	2 (1 + 1)	
AENG-243	Renewable Energy and Green Technology	2 (1 + 1)	
SSAC-242	Problematic Soils and their Management	2 (2 + 0)	
HORT-244	Production Technology for Fruit and Plantation Crops	2 (1 + 1)	
GPBR-243	Principles of Seed Technology	3 (1 + 2)	
AGRO-245	Farming System & Sustainable Agriculture	1 (1 + 0)	
AECO-243	Agricultural Marketing Trade & Prices	3 (2 + 1)	
AGRO-246	Introductory Agro-meteorology & Climate Change	2 (1 + 1)	
ENTO-242 (EC)	Agrochemicals	3 (2 + 1)	Elective Courses (Any one) (EC)
AGRO-247 (EC)	System Simulation and Agro-advisory	3 (2 + 1)	
AEXT-245 (EC)	Agricultural Journalism	3 (2 + 1)	
AENG-244 (EC)	Protected Cultivation	3 (2 + 1)	
TOTAL		19 (11 + 8) + 3	

Semester V

Course Code	Course Title	Credit (Th+Pr)	Remark(s)
PATH-353	Principles of Integrated Pest and Disease Management	3 (2 + 1)	Core Courses
SSAC-353	Manures, Fertilizers and Soil Fertility Management	3 (2 + 1)	
ENTO-353	Pests of Crops and Stored Grain and their Management	3 (2 + 1)	
PATH-354	Diseases of Field and Horticultural Crops and their Management -I	3 (2 + 1)	
GPBR-354	Crop Improvement-I (Kharif Crops)	2 (1 + 1)	
AECO-354	Entrepreneurship Development and Business Communication	2 (1 + 1)	
AENG-355	Geoinformatics and Nano-technology and Precision Farming	2 (1 + 1)	
AGRO-358	Practical Crop Production – I (Kharif crops)	2 (0 + 2)	
GPBR-355	Intellectual Property Rights	1 (1 + 0)	
HORT-355 (EC)	Landscaping	3 (2 + 1)	Elective Courses (Any one) (EC)
GPBR-356 (EC)	Micro-propagation Technologies	3 (1 + 2)	
AECO-355 (EC)	Agribusiness Management	3 (2 + 1)	
AGRO-359 (EC)	Weed Management	3 (2 + 1)	
TOTAL		21 (12 + 9) + 3	

Semester VI

Course Code	Course Title	Credit (Th+Pr)	Remark(s)
AGRO-3610	Rainfed Agriculture & Watershed Management	2 (1 + 1)	Core Courses
AENG-366	Protected Cultivation and Secondary Agriculture	2 (1 + 1)	
PATH-365	Diseases of Field and Horticultural Crops and their Management-II	3 (2 + 1)	
HORT-366	Post-harvest Management and Value Addition of Fruits and Vegetables	2 (1 + 1)	
ENTO-364	Management of Beneficial Insects	2 (1 + 1)	
GPBR-367	Crop Improvement-II (Rabi crops)	2 (1 + 1)	
AGRO-3611	Practical Crop Production –II (Rabi crops)	2 (0 + 2)	
AGRO-3612	Principles of Organic Farming	2 (1 + 1)	
AECO-366	Farm Management, Production & Resource Economics	2 (1 + 1)	
FSNT-361	Principles of Food Science and Nutrition	2 (2 + 0)	

Semester VI

Course Code	Course Title	Credit (Th+Pr)	Remark(s)
FSNT-362 (EC)	Food Safety and Standards	3 (2 + 1)	Elective Courses (Any one) (EC)
HORT-367 (EC)	Hi-tech. Horticulture	3 (2 + 1)	
ENTO-365 (EC)	Biopesticides & Biofertilizers	3 (2 + 1)	
GPBR-368 (EC)	Commercial Plant Breeding	3 (1 + 2)	
COCA-362 (NC)	Educational Tour	2 (0 + 2)	Non-Gradial
TOTAL		21 (11 + 10) + 3 + 2	

Note: Educational tour may be conducted in break between VI & VII Semester subject to favourable condition on payment basis.

Semester VII

Rural Agricultural Work Experience and Agro-Industrial Attachment (RAWE & AIA)

Course Code	Activities	Duration	Credit Hours
RAWE-471	General orientation & On campus training by different faculties	1 Week	1 (0 + 1)
	Village Attachment	8 Weeks	8 (0 + 8)
	Unit attachment in Univ./ College. KVK/ Research Station Attachment	5 Weeks	5 (0 + 5)
	Plant Clinic	2 Weeks	2 (0 + 2)
	Agro-Industrial Attachment	3 Weeks	3 (0 + 3)
	Project Report Preparation, Presentation and Evaluation	1 Week	1 (0 + 1)
TOTAL		20 Weeks	20 (0 + 20)

Semester VIII
Experiential Learning Programme (ELP)/ Hands On Training (HOT)

Course Code	Course Title	Credit (Th+Pr)	Remark(s)
ENTO-486	Production Technology Bio-agents and Bio-fertilizer	10 (0 + 10)	Any two
GPBR-489	Seed Production and Technology	10 (0 + 10)	
PATH-486	Mushroom Cultivation Technology	10 (0 + 10)	
AHDS-482	Poultry Production Technology	10 (0 + 10)	
HORT-488	Floriculture and Landscaping	10 (0 + 10)	
HORT-489	Commercial Horticulture	10 (0 + 10)	
ENTO-487	Commercial Beekeeping	10 (0 + 10)	
AGRO-4813	Organic Production Technology	10 (0 + 10)	
ENTO-488	Commercial Sericulture	10 (0 + 10)	
AEXT-486	Regeneration of India	1 (1+0)	Non-gradial compulsory
TOTAL		20 (0 + 20)	



Semester wise Summary of Credit Hours

Semester	Credits
I	18 (12+6) + 3 (R) + 3 (NC)
II	24 (16+8)
III	23 (14+9)
IV	19 (11+8) + 3 (EC)
V	21 (12+9) + 3 (EC)
VI	21 (11+10) + 3 (EC) + 2 (NC)
VII	20 (0+20)
VIII	20 (0+2)
Total	166 (76+90) + 3(R) + 9 (EC) + 5 (NC) =183 Credits

R - Remedial Courses, NC - Non-Gradual Courses, EC - Elective Courses

B. Voc. in Sustainable Agriculture (BVSA)

Having seen the gap between industrial demand and availability of skilled persons in a specialized field of sustainable agriculture, and also realising an enormous possibility of entrepreneurial development in the field of organic farming, the faculty centre offers skill based three-year BVSA programme for the youth aspirants to fulfil the present demand of skilled persons and make them self-reliant. Following are the key objectives of the programme:



1. To enhance professional skills among the rural and tribal youths in the specialized field of sustainable agriculture.
2. To fulfil the skill gap requirement of the existing industry in the specialized field.
3. To develop entrepreneurship in the specialized field of organic agriculture.

To provide an in-depth knowledge and skills to the youths by the experts of the University in this specialized field

Key Features of the Course

- ✓ It is a student-friendly programme which gives an opportunity of multiple exits and entries in different levels: Certificate level (after 6 months), Diploma Level (after 1 year) and Advanced Diploma level (after 2 years).
- ✓ Limited number of students (SC, ST, OBC and Minority boys only) may get free board and lodging facility in Divyayan hostel for the first year only and also may get additional training certificate from Divyayan Krishi Vigyan Kendra for undergoing different training programmes as part of the B. Voc. curriculum.
- ✓ The course curriculum has been designed to fulfil the present demand for skills in the specialized field of sustainable agriculture.
- ✓ In this programme encourages students to establish their own entrepreneurship.
- ✓ The programme is providing learning opportunities not only from the academician but also from the specialized industry's experts.
- ✓ Students also will have an opportunity to learn the soft skills like spoken English, basics of computer application which are embedded with the course curriculum.

Course Structure

The course has been designed as per the NSQF guidelines. It has two key components: General Education Component and Skill Development Component. General Education component is the supportive to the core trade which comprises analytical thinking, knowledge of IT, way of expression and presentation, scientific communication skill, knowledge of environment and ecology, entrepreneurial skill, values and ethics. The Skill Development Component has focused on the comprehensive understanding of the subject, equip students with the modern technologies and build their appropriate attitudes in the field of sustainable agriculture. Adequate portion of practical work, industrial visit, internship, hands on training and apprenticeship will provide a good exposure in the updated technologies besides making them a skilled person in the specialized field. Students will also be provided an orientation to experimental research in the field of sustainable agriculture. Semester wise distribution of courses is furnished below:

Course Code prefix-

General Education- BVGE	Skill Component- BVSA
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Elective Courses-

Course Code	Group	Course Title	Remark(s)
BVSA-001	I	Basic Organic Agriculture & Soil Health Management	Optional in Semester-I and II
BVSA-002	II	Livestock Management	
BVSA-003	III	Nursery Management, Mushroom Production & Food Processing Technologies	Optional in Semester-III and IV
BVSA-004	IV	Fisheries, Lac Cultivation & Bee Keeping	

Semester wise courses
Semester-I

Course Code	Course Component	Course Title	Credit (L+T+P)	Cumulative Credit
BVGE-101	General Education	Extension Education-I	2+0+2	12
BVGE102		Value Education-I	1+0+1	
BVGE-103		Communicative English and Basic Computer Application	2+0+4	
BVSA-101	Skill Component	Fundamentals of Agronomy	4+0+2	18
BVSA-001/002		Either Group-I or Group-II	2+0+4	
BVSA-102		Industrial Attachment	0+0+6	
Total credit in Semester-I				30

Semester-II

Course Code	Course Component	Course Title	Credit (L+T+P)	Cumulative Credit
BVGE-201	General Education	Environmental Science	3+0+1	18
BVGE-202		Value Education-II	1+0+1	

Semester-II

Course Code	Course Component	Course Title	Credit (L+T+P)	Cumulative Credit
BVSA-201	Skill Component	Crop Production Technology	4+0+2	42
BVSA-202		Basic Organic Horticulture	4+0+2	
BVSA-203		Basic Crop Protection Technology	4+0+2	
BVSA-002/001		Either Group-II or Group-I	2+0+4	
		Total credit in Semester-II	12+0+18=30	60

Semester-III

Course Code	Course Component	Course Title	Credit (L+T+P)	Cumulative Credit
BVGE-301	General Education	Extension Education-II	2+0+2	24
BVGE-302		Value Education-III	1+0+1	
BVSA-301	Skill Component	Fundamentals of Soil and Water Conservation	2+0+4	66
BVSA-302		Integrated Pest and Disease Management	2+0+4	

Semester-II

Course Code	Course Component	Course Title	Credit (L+T+P)	Cumulative Credit
BVSA-003/004	Skill Component	Either Group-III or Group-IV	2+0+4	66
BVSA-303		Crop Cafeteria and Gardening	0+0+6	
Total credit in Semester-II			9+0+21=30	90

Semester-IV

Course Code	Course Component	Course Title	Credit (L+T+P)	Cumulative Credit
BVGE-401	General Education	Entrepreneurship Development	2+0+1	36
BVGE-402		Value Education-IV	1+0+0	
BVGE-403		Agri-marketing and Cooperatives	2+0+1	
BVGE-404		Agro-based Biotechnology	2+0+3	
BVSA-401	Skill Component	Advanced Organic Horticulture	4+0+2	84
BVSA-004/003		Either Group-III or Group-IV	2+0+4	
BVSA-402		Industrial Attachment	0+0+6	
Total credit in Semester-IV			11+0+19=30	120

Semester-V

Course Code	Course Component	Course Title	Credit (L+T+P)	Cumulative Credit
BVGE-501	General Education	Scientific Communication Skills and Integral Personality Development	2+2+0	54
BVGE-502		Post-Harvest Management and Value Addition	2+0+2	
BVGE-503		Agri Business Management	2+0+2	
BVGE-504		Elementary Statistics and ICT in Agriculture	4+0+2	
BVSA-501	Skill Component	Advanced Organic Agriculture	2+0+3	96
BVSA-502		Seed Production Technology	2+0+2	
BVSA-503		Agricultural Research Oriented Project Work	0+0+3	
Total credit in Semester-V			14+2+ 14=30	150

Semester-VI

Course Code	Course Component	Course Title	Credit (L+T+P)	Cumulative Credit
BVSA699	Skill Component	Apprenticeship for six months	0+0+30	126
Total cumulative credit in the programme		General Education-54, Skill Component-126 Total= 180		

One Year Diploma in Organic Farming

Having seen the growth and possibilities of further expansion of organic farming sector in very recent years the faculty centre offers this specialized programme especially for the rural and tribal aspirants. The course has been designed to meet up the present demand of the sector. Students can get in depth knowledge, skill and comprehensive understanding on each and every aspect of organic farming. Some key features of the programme are-

- Students get opportunity to learn by hands on experience besides classroom based theoretical knowledge which enhances their skill in the specialized sector.
- Students will be well equipped within a very short span of a time (within one year only).
- A student will be capable enough to run own enterprise.
- This programme provides a golden opportunity specially to the rural and tribal youths who want to establish themselves.

Semester wise courses Semester -I

Course Code	Course Title	Credit (Th+Pr)
BVSA-101	Fundamentals of Agronomy	4+2
BVGE-102	Value Education-I	1+1
BVGE-103	Communicative English and Basic Computer Application	2+4
BVSA-001 or BVSA-002	Either Group-I or Group-II	2+4
DOF-101	Micro-project on Organic Crop Production Technologies	0 + 6
DOF-102	Rural Living- I (2 weeks)	0+4
Total Credit in Semester-I: 09+ 21 (Th +Pr)= 30		

Semester -II

Course Code	Course Title	Credit (Th+Pr)
BVSA-501	Advanced Organic Agriculture	2 + 3
BVGE-202	Value Education-II	1 + 1
BVSA-203	Basic Crop Protection Technology	4 + 2
BVSA-001 or 002	Either Group-I or Group-II	2 + 4
DOF-201	Inspection and Certification of Organic Produce	2 + 0
DOF-202	Learning through Organizational Attachment (LOA) / Rural Living / Assignment (6 weeks)	0 + 9
Total Credit in Semester-I: 11+ 19 (Th +Pr)= 30		

Note- Course code prefixing with BVSA and BVGE have been adopted from B. Voc. in Sustainable Agriculture programme.

Elective Courses-

Course Code	Group	Course Title	Remarks
BVSA-001	I	Basic Organic Agriculture & Soil Health Management	Optional in Semester-I and II
BVSA-002	II	Livestock Management	

One Year Diploma in ICT in Agriculture

Application of Information Communication Technologies (ICTs) in agriculture has made the agriculture as a profession more modern than earlier. In very recent years, application of ICT in agriculture has got an importance among all starting from the farmers to policy makers. Students can get a in depth knowledge, skill and comprehensive understanding through this programme. The course curriculum has been designed as per the present demand of the sector. Some key features of the programme are-

- Students get opportunity to learn by hands on practical work besides classroom based theoretical knowledge on the subject which enhances their knowledge, skill and attitude in the specialized sector.
- This programme provides a golden opportunity specially to the rural and tribal youths who want to establish themselves.
- It is expected that after successfully completion of the programme a well-equipped student will make his/her career in this emerging sector.

Semester wise courses Semester-I

Course Code	Course Title	Credit (Th+Pr)
ICTA-101	ICT – Concept and Relevance	2 + 0
ICTA -102	Computer Networking	2 + 2
ICTA -103	Internet for Information and Communication	2 + 1
ICTA -104	Expert Systems	3 + 0
ICTA -105	Rural Exposure	0 + 6
PD-101	Integral Personality Development-I	2 + 0
Total Credits (Th + Pr) = 20		11 + 9

Semester-II

Course Code	Course Title	Credit (Th+Pr)
ICTA -201	Geographical Information Systems (GIS)	2 + 1
ICTA -202	Remote Sensing Applications in Agriculture	2 + 2
ICTA -203	Global Positioning System (GPS) Applications in Agriculture	2 + 2
ICTA -204	e-Extension / Cyber Extension/ Cyber Securities	2 + 0
ICTA -205	e-Governance	1 + 0
ICTA -206	Mini Project	0 + 6
PD-201	Integral Personality Development-II	2 + 0
Total Credits (Th + Pr) = 22		11 + 11

Rules and Guidelines

Attendance Rules

Attendance rules for B.Voc. and Diploma programmes will be governed by the rules mentioned under Division of Rural and Tribal Development (**Page No. 33**). In case of B.Sc. (Hons.) Agriculture atleast 75% of attendance (in theoretical and practical classes separately) is compulsory in each module of up to 6th semester as per the rules mentioned under the Division of Rural and Tribal Development (**Page No. 33**). For student READY [Rural Entrepreneurship Awareness Development Yojana] Program (i.e., Rural Agricultural Work Experience (RAWE) and Agro-Industrial Attachment (AIA) for 7th Semester & Experiential Learning Programme (ELP)/ Hands on Training (HoT) for 8th Semester) at least 85% attendance is compulsory.

Any student in the event of recording shortage of attendance has to re-register when offered next by paying the assigned fee. To get the eligibility for registering for the EL programme (8th Semester), the students should have completed all the courses successfully. No student should be allowed to take up the EL programme with backlog / repeat courses. The assignment/allotment of the EL programme shall be based on merit of the student at the end of 5th semester. A separate certificate should be issued to the students after successful completion of EL course. Allotment of EL programmes amongst students to different modules should be done strictly based on merit at the end of fifth semester.

Examination Rules

The examination and evaluation system for all programmes under the Division of Agriculture are as per the following:

- a) External theory (50%)
- b) Internal Theory + Practical (50%)

i) Courses with Theory and Practical

Mid-term Exam (30%) + Assignment (5%) in practical oriented courses + Practical (15%), However, the Practical Examination will be taken in 100 marks (for Theory + Practical Module as well) which will finally be converted to 20 marks. In case of 100 marks in practical, the distribution of marks will be-(i) Class attendance: 15 marks; (ii) Practical record keeping: 15 marks; (iii) Assignment and continuous evaluation: 25 marks; (iv) End-semester practical assessment: 30 marks; and (v) Viva-voce: 15 marks or the pattern may be changed as per the nature of course.

ii) Courses with only Theory

Mid-term Exam (40%) + Quiz/Assignment (10%)

iii) Courses with only Practical: (100%) Internal

N.B. There will be only internal evaluation for B. Voc. in Sustainable Agriculture (BVSA) and all diploma courses offered by the division.

For skill enhancement courses like B. Voc. in Sustainable Agriculture (BVSA), total marks obtained in theory and practical will be converted into 40% and 60% weightage basis in theory and practical, respectively for preparing the final grade card/report card of the semester.

Pattern of question for theory paper: Pattern of questions to be set consisting of objective and subjective questions in the ratio of 40:60 both for the internal (Mid Term Exam) and external paper setter (End Term/Semester Final Exam).

Moderation of question paper for semester final/end term exam: HoD shall ensure the coverage of syllabus. If needed, moderation can be done in presence of the Course Instructor, HoD and Dean/Associate Dean.

Declaration of Result: The provisional results will be published within two weeks after completion of examination and results will be displayed on Notice Board/Website for student's concerned. Discrepancy if any will be addressed immediately and after necessary correction, the results will be sent to the Controller of Examination for issuing of Grade Card/Report Card/Transcript.



Section C : Other Information



Integrated Development Model

The multifarious rural development activities of Ramakrishna Mission Ashrama, Morabadi, Ranchi are now well known. The emphasis on integrated approach and quality assurance has been the hallmark of these activities, so much so that the 'Divyayan' Unit of the Ramakrishna Mission Ashrama, has been able to establish linkages with different Departments of the State and Central Governments, Indian Council of Agricultural Research (ICAR), and other national Institutes of repute. Besides the various integrated rural development activities, the Ashrama is also imparting education to the villagers through primary schools and the bridge courses under the scheme of National Institute of Open Schooling and skill development training through Divyayan.

Some of the important projects and schemes taken up by the Ashrama are: watershed development project, horticulture development projects under National Horticulture Mission, seed village programme, safe drinking water and safe sanitation programme, mobile agro-clinic and agro services, routine activities like eld-days, rural extension activities, front line demonstrations, short term vocational training programmes for the rural youths, organizing Kisan mela/ agricultural exhibitions using mobile audio-visual units for integrated rural development schemes. As many as 120 organizations collectively called 'Vivekananda Seva Sangha', established at the initiative of the ex-trainees of Divyayan work for the all-round development of their own villages.



Research, Incubation and Extension

Research

Since inception, Ranchi faculty centre strive to make vital contributions to both theoretical and empirical research in interdisciplinary areas of agriculture, rural and tribal development. A principal objective of the Research Programme has been to maintain a strong focus on the flow of theoretical ideas and to connect it with the empirical works of subject oriented researches in sciences, social sciences, management, technology and other courses offered by the faculty as areas of probe and investigation from time to time. So far the faculty centre have successfully completed various research projects funded by both central and state govt. organisation including consultancy projects.

Agribusiness Incubation Centre

The faculty centre for ATRD is running Agribusiness Incubation centre in collaboration with Divyayan Krishi Vigyan Kendra (DKVK) since April 2019. The centre aims at providing skill-based business-oriented training-cum-handholding supports to the rural and tribal youths for starting their own entrepreneurial ventures in agriculture and allied activities. People who look to start doing business on their own, may avail the opportunity to get first hand experiences from the centre. The incubation facilities are provided on agriculture and allied fields like Gardening, beekeeping, mushroom cultivation, dairying, poultry and others.

Vacancies: The incubation facility is provided for 2 batches per year with 10 incubatees per batch.

Qualification: The candidate must be class eight pass with prior training in related field from reputed institution.

Stipend: Each incubatee will be given a monthly stipend for six months. The entire amount of stipend is generally given to the incubatees at the end of the programme which will help them as a seed money to start a new venture.

Fees: There will be no fee for applying for the incubation.

Selection process: Interested candidates should collect the form of application from the faculty centre of the University or Divyayan Krishi Vigyan Kendra. Duly filled-in application form along with photocopies of all relevant documents should be submitted in the University. Based on the screening of the application forms, and depending on the availability of vacancy, eligible candidates will be called for personal interview at the University campus. The selected incubatees will have to reside in the DKVK hostel, for which food and accommodation for six months will be provided free of cost. During the period of incubation, incubatees will also go through various personality development activities and they also perform various activities of the Ramakrishna Mission Ashrama, Morabadi from the time to time. At the end of the incubation period, the candidates will be given one year of follow-up services. They will also be linked with potential organisations for all-round development.

Extension

The faculty centre regularly organizes large number of extension activities related to agriculture and rural development. The students and faculty firmly believe that education is not only confining themselves inside the classroom but to understand the people's lives to help them in their needs and look for ways to enhance their well-being. Participation in extension activities kindles the spirit of social responsibility and directs the students to resolve social problems to create a peaceful society. Opportunities are provided to the students to engage in various activities at neighbourhood villages and in community settings as a part of curriculum. Extension component of the ARTD faculty is not only restricted to subjective domain rather execution of knowledge for the benefit of villagers. Rural Living and Learning Experience (RLLE) and Learning through Organisational Attachment (LOA) are two innovative components of the course curriculum that help students to act as facilitator of rural change while learning from villagers and on the other hand



such exercise empowers the villagers to identify and solve their own problem. Besides, Divyayan KVK – an integral component of the faculty centre organises various residential training programme for rural and tribal youth of Jharkhand. Divyayan KVK offers three types of training programmes viz. on-campus, Off-campus specialized courses and NIOS linked multi skill training with value education at their core.

Important Contacts

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Administrative Head, Ranchi Campus	ranchi.morabdi@rkmm.org	0651-2551008
Dean/Associate Dean, Ranchi Campus	deanartdrkmveri@gmail.com	0651-2552260 Ext.- 106
Head, Division of Agriculture	artd@gm.rkmvu.ac.in	0651-2552260 Ext.- 207
Head, Division of Rural and Tribal Development	hodrttd@gmail.com	0651-2552260 Ext.- 206
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Employers & Associate Organizations



राष्ट्रीय नवप्रवर्तन प्रतिष्ठान – भारत

विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार का स्वायत्तशासी संस्थान

National Innovation Foundation - India

Autonomous Body of the Department of Science and Technology, Govt. of India



J T D S



GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE & FARMERS WELFARE

DEPARTMENT OF AGRICULTURE, COOPERATION & FARMERS WELFARE

DIRECTORATE OF PLANT PROTECTION, QUARANTINE & STORAGE



Communities & Ecosystems



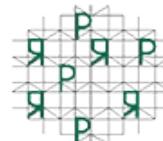
DHAN Foundation



Action for Social Advancement

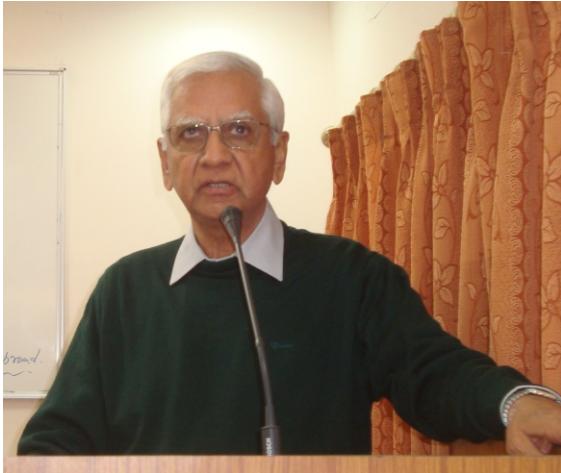


PROFESSIONAL ASSISTANCE
FOR DEVELOPMENT ACTION



FOUNDATION FOR ECOLOGICAL SECURITY







Contact Address

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SCHOOL OF AGRICULTURE AND RURAL DEVELOPMENT
Faculty Centre: **Agriculture, Rural and Tribal Development (ARTD)**

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