

# **ANNUAL REPORT**

**(2017-18)**



## **SCHOOL OF AGRICULTURE**

**GIET UNIVERSITY, GUNUPUR**

**RAYAGADA (ODISHA)**

**PIN - 765022**

# PREFACE

Agriculture is the backbone of a developed economy and is the resource to food security and the driving force in any economy. India has a vast potential for agricultural growth and development with several agro-based industries and agricultural elements. When we talk about agriculture, we mean giving food to the masses and providing raw materials to several industries across the country. With the advancement of research across diverse fields, agricultural research too will emerge as a demanding field. The research in agriculture will lead to better production and enough food for the ever-increasing population of India. Simultaneously, it will aim to sustain the entire system of food production and consumption. The School of Agriculture (SoAg) at GIETU is established precisely for that cause.

GIET University, Gunupur, Rayagada was established in the year 2017 with an objective of promoting teaching, research and extension activities in agriculture in the backward districts of South Odisha. Located on the foot hills of Eastern Ghats, the campus boasts of a picturesque landscape and provides all the facilities that young budding agro-professionals aspire to dream of. The institute believes that teaching and research must remain equally vital as important elements in the shaping of an academic institution.

Apart from this, the future thrust areas include Establishment of Orchard, Establishment of spawn and mushroom production unit, Establishment of vermicompost unit and Establishment of one more instructional farm.

**DEAN**  
**School of Agriculture, GIETU**

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## **1. INTRODUCTION**

### **1.1. Geographical status**

Rayagada was conferred the status of a district in the early part of 1992, when erstwhile Koraput district was divided into four new districts. Around 84.82% of the population of the district live in the rural areas depends for their livelihood largely on agriculture. The irrigation facilities existing in the district are limited leaving agriculture to the mercy of the monsoon. Necessity for optimal utilization of the existing water resources in the district is rather compelling while terrain conditions restrict the scope of surface water development. Rayagada district is situated in the south western part of Odisha lying between the north latitudes 18° 54' and 20° 00' N and east longitudes 82°54' and 82°02' E. it is bordered by Kolahandi and Phulbani districts in North and Gajapati district in the south. The district covers an area of 7,073 sq. km. and is divided into 11 administrative blocks. It has an average elevation of 207 m (679 ft.). The district headquarters Rayagada is well connected to the major cities and town of the country by road and rail links. Vansadhara and Nagavally are the prominent rivers of the district sustaining perennial flow. Tel and Bhaskelareother river flowing through the district.

### **1.2 Demography**

As of 2011 India census, the district has a population of 9,67,911 with an average literacy rate of 49.76%. Males constitute 51% and female 49% of the population. The population density is 116/Km<sup>2</sup>.

### **1.3 Climate**

The climate of the district is typically tropical to sub-tropical with three distinct seasons e.g. summer, winter & monsoon. December is the coldest month with mean daily average temperature of 20°C which reaches a maximum of 42°C in May. The rainfall in the area is mostly from the south west monsoon lasts from middle of June to October. The average annual rainfall varies from 1030.21mm to 1569.50mm.

### **1.4 District Agriculture profile**

The district has two Agro Ecological subregions e.g. Gajrat hills and Dandakaranya and Eastern Ghats hot moist sub-humid eco-sub-regions. Rayagada has been placed under North Eastern Ghat Zone (OR-5) of the 10 Agro-Climatic Zones of the state.

The district experiences rainfall from south west monsoon (June – September) and North East monsoon (October – December). The average annual rainfall is 1455.74 mm with 77.9 number of normal rainy days. The total geographical area of 7,54,000 ha encompasses cultivable area (1,93,000 ha), forest area (2,81,000 ha), land under non-agricultural use (1,24,000 ha), permanent pastures (26,000 ha), cultivable waste land (22,000 ha), land under miscellaneous tree crops (18,000 ha), barren and uncultivable land (38,000 ha), current follows (39,000 ha) and other follows (13,000 ha).

Based on the physical and chemical characteristics, mode of origin and occurrence, soils of the district may be classified into red loam soil (52.7%), alluvial soil (25.3%) and mixed red and black soil (19.4%). As per the agricultural land use pattern of the district, the cropping intensity is 166%. Irrigation activities on different irrigation courses is 28% of the total land put to agriculture

#### **1.4.1 Major field and horticultural crops**

Major field crops grown in the district are paddy, ragi, maize, arhar, sesame and cotton. Among the horticultural crops, fruits (mango, guava, citrus, banana, litchi), vegetables (sweet potato, potato, onion, chilli, ginger), plantation crops (cashewnut, coconut) and fodder crops (berseem, Oat) are the cultivated ones.

## **2. OVERVIEW OF THE SCHOOL OF AGRICULTURE, GIETU, GUNUPUR**

School of Agriculture GIET, University, Gunupur, Rayagada was established in the year 2017 with an objective of promoting teaching, research and extension activities in agriculture in the backward districts of south Odisha. Located on the foot hills of Eastern ghats with an intake capacity of 60 students, the campus boasts of a picturesque landscape and provides all the facilities that young budding agro-professionals aspire to dream of.

The four-year full time regular B. Sc. (Hons.) Agriculture programme imparts courses in Agronomy, Horticulture, Soil Science, Plant Breeding and Genetics, Plant Pathology, Entomology, Plant Physiology, Agricultural Economics, Agricultural Statistics, Agricultural Extension Education and Agricultural Biotechnology keeping in mind the growing demand for agro-professionals in the agrarian state of Odisha where more than 60% of the population are dependent on agriculture for their livelihood.

Besides the students' READY programme provides vocational training to the students by honing professional skills and knowledge through meaningful hands on training and exposure to industrial environments which can't be simulated in the institution and provides an opportunity for preparing themselves for entrepreneurship in agri - and allied sciences.

### 3. VISION AND MISSION

#### 3.1 Vision

“To be recognized as the centre of excellence for Agricultural Education in the tribal dominated region ensuring technological development in agriculture and allied sectors that are life enhancing, socially acceptable and economically viable.

#### 3.2 Mission

1. To produce intellectual human resources for the state and the nation.
2. To develop environment friendly, socially acceptable and economically viable technologies.
3. To promote entrepreneurship development in the field of Agril. & allied sector.
4. To meet the local problems with special emphasis on tribal agriculture
5. To develop climate resilient technology in agriculture to meet the challenges of global warming.

### 4. FACULTY PROFILE

Sl. No	Name of the Faculty	M/F	Designation	Department	Domicile
1.	Dr. S.S Nanda	M	Dean	Agronomy	Odisha
2.	Prof. K. B. Mohapatra	M	Professor	Plant Pathology	Odisha
3.	Prof. S. R Das	M	Professor	Plant Breeding & Genetics	Odisha
4.	Prof. D. K Dora	M	Professor	Horticulture	Odisha
5.	Prof. S. K Swain	M	Professor	Seed Technology	Odisha
6.	Prof. N Barik	M	Professor	Animal Breeding & Genetics	Odisha
7.	Prof. C. R Satapathy	M	Professor	Entomology	Odisha
8.	Prof. A. K Das	M	Professor	Horticulture	Odisha

Sl. No	Name of the Faculty	M/F	Designation	Department	Domicile
9.	Mrs Gangotri Mishra	F	Asst. prof.	Horticulture	Odisha
10.	Mrs. Rajani	F	Asst. Prof.	Plant Breeding & Genetics	Bihar
11.	Ms. Sushree Purabi Panigrahi	F	Asst. prof.	Agril. Extension	Odisha
12.	Md. Nisab C. P.	M	Asst. prof.	Soil Sc. & Agril. Chemistry	Kerala
13.	Mr. Abhisek Pal	M	Asst. prof.	Soil Sc. & Agril. Chemistry	Tripura
14.	Ms. P. Choudhury	F	Asst. prof.	Entomology	Odisha
15.	Ms. Bidusi Tripathy	F	Asst. Prof	Agronomy	Odisha
16.	Ms Priyambada Pradhan	F	Asst. Prof.	Horticulture	Odisha
17.	Ms. Pallabi Pattnaik	F	Asst. Prof	Seed Science and Technology	Odisha
18.	Mr. K. Chiranjeeb	M	Asst. prof.	Soil Sc. & Agril. Chemistry	Odisha
19.	Dr. U. Das	M	Asst. prof.	Horticulture	Tripura

## 5. STUDENTS PROFILE

Batch	Intake Capacity	Students enrolled	M	F	SC	ST	GEN
2017-21	60	60	24	36	8	1	31

## 6. COURSE STRUCTURE

The B. Sc. (Ag.) Course syllabus as recommended by the 5<sup>th</sup> Deans Committee of ICAR has been implemented with minor modifications considering the regional requirements. A total of 183 credit hours comprising of 128 core courses, three remedial, three non gradial, nine electives, 20 RAWE and 20 ELP have been offered.

## 7. INFRASTRUCTURE

### 7.1 Classroom

The classrooms facilitate a blend of traditional and modern modes of teaching with all technological aids like ceiling mounted LCD projectors, white boards and podium for faculties. The college building consists of four classrooms.

### 7.2 Laboratory

The college consists of nine well equipped laboratories representing individual departments like Agronomy, Horticulture, Soil Science, Plant Breeding and Genetics, Plant Pathology, Entomology, Agricultural Statistics, Agricultural Biotechnology and Social Science each having a working capacity of 30 students and area of 750 sq. ft.

### **7.3 Instructional Farm**

The farm is spread over an area of 12 acres and has been divided into several compartments such as agronomy block, horticulture block, organic farming unit, Azolla multiplication unit, farm implement unit, mushroom production unit and vermicomposting unit, besides, having an area for bulk cultivation of horticultural and agronomic crops.

## **8. STUDENT AMENITIES**

### **8.1 Hostel:**

For accommodation of students, there are 24 hostels separately for boys and girls both in the campus and in Gunupur town. A central mess exists which can accommodate 2000 students to dine at a time. Utmost care is taken to serve quality food to the students.

### **8.2 Transport:**

University runs a fleet of buses plying for linking the campus to various areas of Gunupur town. There are 16 no of busses available for students and staff members commuting from various points of town to university.

### **8.3 Sports Complex:**

The university possesses sports complex over an area of five acres comprising of a basketball court, badminton court, football ground, volleyball court and cricket ground.

### **8.4 Gymnasium:**

The university maintains its own fitness centre which is placed inside its premises possessing equipment for different indoor exercises.

### **8.5 Health Care:**



The university has a basic healthcare unit with two full time doctors and paramedical staff in its campus. For the movement of patients to the Gunupur hospital and beyond, three ambulance vans serve round the clock.

#### **8.6 Knowledge Center:**

Attached to R&D block a two-storied building with wi-fi enabled Central Library with sitting capacity of 500 students is available. Library employs the latest technology in Library Science to provide the best learning to its user. It is well stocked and presently has a collection of 2292 volumes on different subjects of agriculture. It is accessible 24×7 for all its user.

#### **8.7 Canteen:**

The central canteen of the university is a popular meeting place for students and faculties. It serves variety of eatables at reasonable prices.

#### **8.8 Swimming Pool:**

A clean and well-maintained swimming pool of national standard accessed by both faculties and students at different time slot is available.

#### **8.9 Mega Auditorium:**

A mega auditorium is present in the university campus having a sitting capacity of 821 people. This is extensively used by the students for hosting functions and watching movies on weekend. The mega auditorium is completely sophisticated with centrally installed air conditioners and Dolby Digital sound quality.

#### **8.10 Wi-Fi Campus:**

The university campus is fully Wi-Fi enabled which is accessible to students and staff members in academic blocks, corridor, open areas, hostels and sport complex. Users are provided with ID and passwords to avail internet facilities upto 400 mbps round the clock.

#### **8.11 Green Initiative:**

The university provides an eco-friendly environment to its students with its latest initiatives of solar panels installed in the department of biotechnology, rainwater harvesting structures and eight composting units for dumping biodegradable wastes.

#### **8.12 Power Back-Up:**

The University is facilitated with silent digital generators that takes care of occasional power failure.

#### **9. VALUE ADDED COURSES**

Value added courses like motivational talks, Soft Skills (Spoken English & Personality Development) & Entrepreneurship Development Programme are being offered to the students at regular intervals.

#### **10. ACHIEVEMENTS**

- The School of Agriculture has started implementing the ICAR recommended syllabus since its inception.
- Basic infrastructure facilities for all the departments have been created.
- Semester regulation has been finalized.

#### **11. FUTURE THRUST**

- Establishment of Orchard
- Establishment of spawn and mushroom production unit.
- Establishment of vermicompost unit
- Establishment of one more instructional farm

**Students' Profile: 1<sup>st</sup>Batch (2017-21)**

SL. NO	ROLL NO	NAME OF THE STUDENT	M/F	SL. NO	ROLL NO	NAME OF THE STUDENT	M/F
1	17BAG001	DIKHYA VYSARAJU	F	31	17BAG031	LIPSA MISHRA	F
2	17BAG002	TUMULA POOJA	F	32	17BAG032	NIHAR RANJAN SAHU	M
3	17BAG003	V. PRAGATI	F	33	17BAG033	SONALI SAMAL	F
4	17BAG004	TARINEE PRASAD DAS	M	34	17BAG034	PADMINI KUMARI PANDA	F
5	17BAG005	KISHAN KUMAR PRADHAN	M	35	17BAG035	SUBHRANSUSEKHAR BEHERA	M
6	17BAG006	PRAGNYA BHARGABI UTTARASILI	F	36	17BAG036	ABHISEK JAGANNATH PRASAD	M
7	17BAG007	CHANDAN KUMAR DASH	M	37	17BAG037	SUMAN CHAUHAN	F
8	17BAG008	ANASUYA PANDA	F	38	17BAG038	SONALI PATNAIK	F
9	17BAG009	KOLYANMOY PRAMANIK	M	39	17BAG039	ANMOL DASH	F
10	17BAG010	SATYAPRAKASH SAHOO	M	40	17BAG040	NIKHIL KUMAR NAYAK	M
11	17BAG011	MAMITA MALLICK	F	41	17BAG041	SASWAT SANDESH NAYAK	M
12	17BAG012	LIPSARANI PRADHAN	F	42	17BAG042	IPSITA NANDA	F
13	17BAG013	SOUMYA SUNHERIKA BHOI	F	43	17BAG043	HIMANSHUSEKHAR S. SINGH	M
14	17BAG014	NUTAN MISHRA	F	44	17BAG044	NISHISMITA PARIDA	F
15	17BAG015	SUSHREE PRIYADARSINI PANDA	F	45	17BAG045	KABITA RATNALU	F
16	17BAG016	S. JIGILE	F	46	17BAG046	PAYAL RATH	F
17	17BAG017	AMARTYA NARAYAN BISHI	M	47	17BAG047	ASUTOSH NAYAK	M
18	17BAG018	MONISHA PATNAIK	F	48	17BAG048	RESHMA NAYAK	F
19	17BAG019	UTTAM KUMAR PATRA	M	49	17BAG049	SOUMYA SOURAV PATI	M
20	17BAG020	SUBHAM BISWAL	M	50	17BAG050	DEVIBANDANA BEHERA	F
21	17BAG021	SWARAJ SAHU	M	51	17BAG051	SUSHREE SHAKIPRIYA DANTA	F
22	17BAG022	GANESH KEJRIWAL	M	52	17BAG052	PADMAN PATRO	M
23	17BAG023	SARMISTHA TOSH	F	53	17BAG053	MADHUMITA MALLICK	F
24	17BAG024	PRITISHREE BHOI	F	54	17BAG054	ABHINASH SAHOO	M
25	17BAG025	L. ABHINASH	M	55	17BAG055	TILAKRAJ KARNA	M
26	17BAG026	SAGARIKA BARAD	F	56	17BAG056	GAYATRI PRADHAN	F
27	17BAG027	ANURAKTA BHATTA	F	57	17BAG057	SWATEE SWAGATIKA	F
28	17BAG028	SARMISTHA SAHOO	F	58	17BAG058	SUDIPTA PRAVA SOY	F
29	17BAG029	ABHISEK DASH	M	59	17BAG059	SWATI SWAGATIKA BISWAL	F
30	17BAG030	SWAYAM SIDHI MISHRA	M	60	17BAG060	SUBHASMITA BARIK	F

**ANNEXURE-II**

## **STUDENT ACTIVITIES**



**Irrigating the transplanted Cauliflower with rose cane**



**Hand weeding in Sweet corn field**