



Centre for Career Development,
Indian Institute of Technology Guwahati

**Placement
Brochure**
Class of 2024

Mtech in Rural Technology

School of Agro and Rural Technology

Message from Head of the Department

DR. AJAY KALAMDHAD

First of all, I would like to thank you opting Indian Institute of Technology, Guwahati as a potential campus for recruitment. I am pleased to write this testimonial on behalf of the post graduate batch of our MTech in School of Agro and Rural Technology program. The school is a structured program having Research Methodology Quantitative Techniques for Rural Development, Rural Technology and Development, Rural Water Supply and Sanitation, Livelihood and Entrepreneurship, Field Work and Communication. The students have been selected through GATE examination followed by interview conducted by learned and experienced panel of professors from the School of Agro and Rural Technology, IIT Guwahati. I am sure that you will find our students most suitable for the current opening in your organization. But moreover, I believe that these graduate will exceed your expectations



Department Faculty Representative for Placements

Dr. Siddhartha Singha

I am proud and honored to introduce you to the School of Agro & Rural Technology (SART) of IIT Guwahati. Both IITG and the School are unique in many senses. IITG was the sixth IIT in the league of the premium Technical Institutes established as an outcome of Assam Accord and has culminated into an Institute of global repute. On the other hand, SART as we call it is a relatively new academic department but with a lofty goal of Nation building and a Centre of international relevance in the sector of Rural & Sustainable Development.

The M.Tech. program in Rural Technology offers skilling in diverse aspects like technology development and dissemination, impact assessment, natural resource management, market research, business analysis and so on. The students coming from diverse undergraduate disciplines are getting groomed in the School by eighteen multidisciplinary and reputed faculty members to make career in dream organizations/industry, pursue higher study or become an entrepreneur. Many are presently working in Industries, NGOs, academic and advocacy organizations and are constantly bringing new knowledge and practice to the public domain. Last year the School achieved the bench mark of 100% placement.

SART is emerging into a Centre of Excellence that is active in six major technology sectors; Agro Eco technology, Food and Bioprocessing, Solid Waste Management, Rural Mechanization, Rural Energy and Livelihood & Entrepreneurship. The postgraduates of the School can be an asset to any organization who are looking for a development professional with a strong technical foundation.





About The Institute

Indian Institute of Technology, Guwahati

Established in 1994, as an 'Institute of National Importance', IIT Guwahati has grown into being a preferred destination for people passionate about learning and innovation. IIT Guwahati has been ranked among the Top 100 Young Universities in the world by the Times Higher Education, one of the two Universities from BRICS nations. IIT Guwahati has several factors contributing to how in a short span of time it has established itself as one of the best institutes of its kind in the country. The programmes and courses that are offered at IIT Guwahati are perpetually evolving to adapt to the ever changing global requirements and along with the diversity of the fields of study, this has helped the institute become one of the nation's nerve centres for research and development, and technical education. The faculty ensure that the students of the campus are ready to face the challenges of the professional world by providing them with a sound conceptual understanding of their respective disciplines. The institute also offers a plethora of opportunities to students for their holistic development, through the excellent facilities that it has for sports and general extracurricular activities.



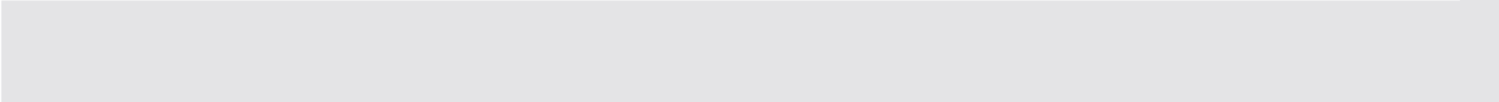
WHY RECRUIT US

The students of School of Agro and Rural Technology are trained to tackle the socio-economic and environmental challenges of rural areas by leveraging sustainable technologies, cutting-edge research, and impactful outreach initiatives.

The students and scholars of SART possess extensive hands-on experience in designing supply chains, conducting life cycle assessments (LCA), survey, market analysis, and new product development initiatives. SARTians are also adept at handling statistical and modelling methods to advance the rural sector in a well-informed and refined manner.

The students engage in diverse research areas such as e-commerce, machine learning, clean energy, solid waste management, and beyond. To achieve its mission of disseminating technology for employment generation, poverty alleviation, and community development in rural areas, the school collaborates with technical institutions, NGOs, government agencies, CSR organizations, and rural industries.

The comprehensive development of students in the realms of business, rural technology, and agriculture renders them field and industry ready.

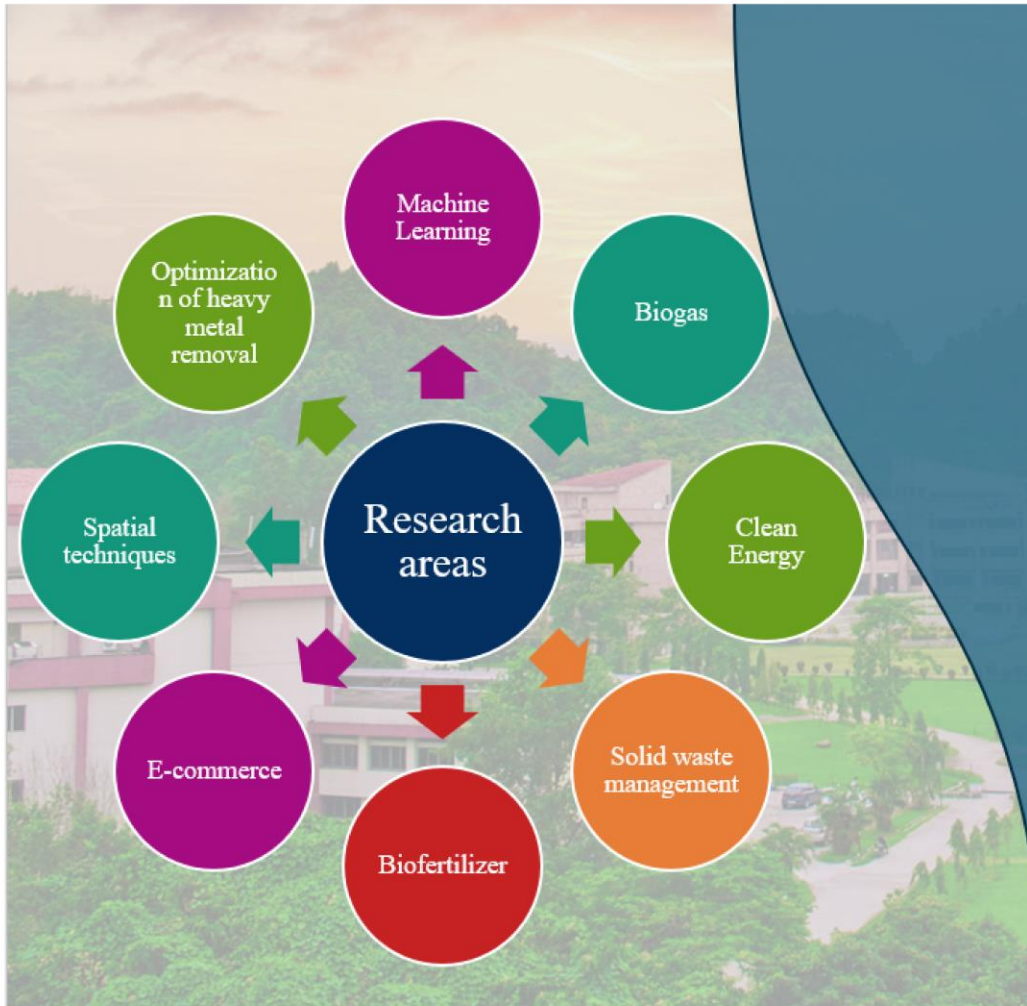


COURSES OFFERED

- Product and Process Development in Food & Bioprocessing industries
- Research Methodology and Quantitative Techniques for Rural Development
- Livelihood and Entrepreneurship
- Field Work and Communication
- Rural Technology and development
- Rural Water Supply and Sanitation
- Water Resources Management
- Natural Resources Management

- Foundation of Data Science For Engineers
- State of the Art Seminar
- Machine learning and algorithms
- Solar energy conversion technology
- Applied statistics for chemical engineers
- Watershed Management and its Remote Sensing Application
- Agri-horticultural Produce Processing Technology
- Solid and Hazardous Waste Management
- Renewable energy systems

MTP titles



- Bio-gas Production through anerobic digester and their design effect on production
- Computational Studies on Biofertilizer Production Process
- Spatial aspect of food and health security.
- Applications of Information and Technology in Agro-Rural Sector
- Crop recommendation system using machine learning algorithms
- Modeling and Optimization of heavy metal removal from irrigation water using agro-waste derived biochar
- Vermifiltration: A Sustainable Approach to Wastewater Treatment

In-Sem Projects

Millet based food and market analysis

- Millet flakes

Vermicomposting: A way of rural waste management

Solar PV water heater system

- Design for a hostel capacity of 500 students

Value addition to food waste

- Usage of fruit and vegetable waste as cattle fodder

Fruit and salad – A model shop

Microgreens farming and Supply Enterprise

Microwave dryer - usage in food industries

- Market size estimation of microwave dryer
- Suitable intervention in the design of the microwave

VIC Modelling on river Teesta

- VIC- a Semi Distributed Grid Based model and methodology adopted for the hydrological modelling

Lab Facilities



Agro-Ecotechnology Lab



Food and Bioprocessing Lab



Micro-Biology Lab



Common Wet Laboratory
& Workshop



Water and Sanitation Lab



Centre Instruments Facility

Field visits and conferences



Faculties associated with SART

- **Dr. Sashindra K.Kakoty (Deputy Director, IITG)**

Professor, Department Of Mechanical Engineering

- **Dr. Ajay Kalamdhad (Head of the School)**

Professor, Department Of Civil Engineering

- **Dr. Amarendra Kumar Das**

Professor, Department Of Design

- **Dr. Arup Kumar Sarma**

Professor, Department Of Civil Engineering

- **Dr. Karuna Kalita**

Professor, Department Of Mechanical Engineering

- **Dr. Latha Rangan**

Professor, Department Of Biosciences And Bioengineering

- **Dr. Mohammad Jawed**

Professor, Department Of Civil Engineering

- **Dr. Nanda Kishore**

Professor, Department Of Chemical Engineering

- **Dr. Rakhi Chaturvedi**

Professor, Department Of Biosciences And Bioengineering

- **Dr. Ramagopal Uppaluri**

Professor, Department Of Chemical Engineering

- **Dr. Sanjukta Patra**

Professor, Department Of Biosciences And Bioengineering

- **Dr. Mrinal Kumar Dutta**

Professor, Department Of Humanities And Social Sciences

- **Dr. Sudip Mitra**

Associate Professor, School Of Agro And Rural Technology

- **Dr. Meena Khwairakpam**

Associate Professor, School Of Agro And Rural Technology

- **Dr. Pankaj Kalita**

Associate Professor, Centre For Energy

- **Dr. Siddhartha Singha**

Assistant Professor, School Of Agro And Rural Technology

ALUMNI WORKING ORGANISATION



Students' Profiles



Jaydeep Pandit

p.jaydeep@iitg.ac.in

MTP: Bio-gas Production through anerobic digestor and their design effect on production.

Background: Mechanical Engineering

Interest and Skills: Need Assessment, Market sizing and Segmentation, AutoCAD, Business analysis, New Product Development.



Lora Mohanty

m.lora@iitg.ac.in

MTP: Computational Studies on Biofertilizer Production Process

Background: Agricultural Engineering

Experience: Worked as an Intern at Pragati engineering(Farm Power and Machinery).

Interest and Skills: Python, Machine Learning, QGIS, AutoCAD, C++, C.



Rashi Singh

s.rashi@iitg.ac.in

MTP: Spatial aspect of food and health security.

Background: Civil Engineering

Experience: Growth Executive in ReaderClub

Interest and Skills: Entrepreneurship Development, Project Management, QGIS, AutoCAD, Business analysis



Rohit Raizada

r.raizada@iitg.ac.in

MTP: Applications of Information and Technology in Agro-Rural Sector

Background: Electronics and Communication Engineering

Interest and Skills: Need Assessment, Market sizing and Segmentation, Business Analysis, C language, Embedded System Design using assembly language.



Shashwata Swarupa Sahoo

s.shashwata@iitg.ac.in

MTP: Isothermal solar drying of spices

Background: Electrical Engineering

Experience/Internship: Intern at NABARD, Engineering intern at Vardhan Consulting Engineering

Interest and Skills: Rural Development, Rural energy, Product Management, MS Excel, Web Designing, EV Designing, MATLAB.



Sushant Swarup

s.swarup@iitg.ac.in

MTP: Crop recommendation system using machine learning algorithms

Background: Applied Electronics and Instrumentation Engineering

Experience/Internship: Business development associate at Extramarks pvt ltd, Engineering intern at SAIL Bokaro

Interest and Skills: Rural development, Business Management, Market Analysis And Management, Data Analysis Using Python, SQL, Machine Learning, Full Stack Web Development, Product Management, Scrum Master, wire Framing.



Vishal Kumar

vishal_k@iitg.ac.in

MTP: Modeling and Optimization of heavy metal removal from irrigation water using agro-waste derived biochar.

Background: Civil Engineering

Interest and Skills: C++, Python, HTML, CSS, TailwindCSS, Javascript, React, Express.js, Node.js, MongoDB, SQL, Pandas, Numpy, Team Management.



Tezna Singh

s.tezna@iitg.ac.in

MTP: Vermifiltration: A Sustainable Approach to Wastewater Treatment

Background: Civil Engineering

Experience/Internship: Swachh Bharat Summer Intern, HPCL apprentice, Cadella, NSS.

Interest and Skills: Rural development, Entrepreneurship Development, Policy making, Environment enthusiast, Social work, HTML, C, Google Earth, Q-GIS.

CONTACT US

Faculty Coordinator



Dr. Siddhartha Singha

School of Agro and Rural Technology

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Centre for Career Development

IIT Guwahati

Looking forward to your participation.

CCD Welcomes you!