SRI SRI UNIVERSITY
CUTTACK, ODISHA, 754006

PG DIPLOMA IN
AI APPLICATION FOR
DISASTER RISK REDUCTION

IN COLLABORATION WITH FINTECHEDU SOLUTIONS PVT LTD

The Founder

His Holiness Sri Sri Ravi Shankar is a renowned spiritual leader and multi-faceted humanitarian whose mission of uniting the world into a violence-free family has inspired millions of people worldwide. The icon of non-violence and universal human values, Sri Sri seeks global peace through service and dialogue.

Sri Sri's appeal transcends class, race, religion and nationality. Millions of people revere him as their spiritual leader, and look up to him for inner peace and guidance.

Through his initiatives and addresses, Sri Sri has consistently emphasized the need for reinforcing human values and recognizing humanity as our highest identity beyond nation, faith and gender. Fostering interfaith harmony, bridging communal divides and calling for a multi-cultural education as the remedy for fanaticism are a significant part of his efforts to achieve sustainable peace on our planet.

Sri Sri University is one small but bold step in this direction.

About SSU University

Envisioned by Sri Sri Ravi Shankar Ji, Sri Sri University was established in 2009 as a centre for world-class education in India

The university offers a unique education that brings together the best of Western innovation with the ancient values and wisdom of the East. The university offers a range of pivotal as well as unique courses that seek to preserve the ancient wisdom of the East and offer the best of Western innovation through cutting-edge programs. Sri Sri University today offers value-based education in specialized areas of study including Management, Science, Commerce, Yoga, Sanskrit, Philosophy, Engineering, Psychology & Contemplation, Architecture, Osteopathy, Ayurveda, and Liberal and Performing Arts. Sri Sri University takes pride in offering a curriculum that enriches both domain expertise and life skills. The university provides a unique social culture which nurtures a rich learning environment and aids excellence in students through its virtually smoke-free, alcohol-free ,drug-free and completely vegetarian campus. The Art of Living Program (Happiness Program) is an integral part of the curriculum at Sri Sri University.The program provides participants with practical tools and techniques, including yoga, meditation and pranayama, to effectively handle stress.

In the next five years, the campus is poised to become a multi-disciplinary educational hub hosting over 7500 students.

The university is located on a 188-acre campus situated between Bhubaneswar and Cuttack. The campus includes the admin block, the academic block, a well-equipped computer lab, a well-updated library, seminar halls, comfortable hostels, Vidya (skill training centre) and a cafeteria. The campus also includes sports and recreational facilities including a Sports Complex that includes- basketball courts, badminton courts, tennis court, football ground, volleyball ground, and cricket field. The campus is Wi-Fi enabled, with 24*7 connectivity.

Our Vision, Mission and Philosphy

Our Vision

To impart holistic and value-integrated education in order to develop visionary thinkers with social-consciousness to lead and precipitate inevitable changes, with summative call for Learn – Lead – Serve

Our Mission

To create centres of excellence in knowledge and research across the fields of study in order to equip students to achieve the highest levels of professional ability in a learning atmosphere that fosters human values to serve the needs of local, national and global economies.

Our Philosophy

Eastern philosophy thrives on virtues. Western philosophy focuses on ethics. Eastern philosophy is more about the spiritual while Western philosophy is more of a hands-on style. True success is measured by one's inner strength to handle situations with balance and ease. And Eastern philosophy prepares one in this direction.

Sri Sri University (SSU) came into operation in the year 2012 and is emerging as a centre for premium education in India, aimed at blending the "Best of East & West". This university is uniquely placed in offering education that combines Western innovation with the ancient values and wisdom from the East.

It offers a range of pivotal as well as unique courses that seek to preserve the ancient wisdom of the East through programs in Yogic Science, classical Visual and Performing Arts on one hand and offers the best of western innovation through cutting-edge programs in Osteopathy, Engineering, and Management on the other. Over the years, it is rapidly evolving into a multi-disciplinary education hub, with its foundation strongly rooted in spiritual, cultural, and academic excellence. Vision To impart holistic and value-integrated education in order to develop visionary thinkers with social consciousness to lead and precipitate inevitable changes, with a summative call for 'Learn Lead Serve'. Mission To create centres of excellence in knowledge and research across the fields of study in order to equip students to achieve the highest levels of professional ability in a learning atmosphere that fosters human values to serve the needs of local, national, and global economies.

About the Program

Sri Sri University offers a PG Diploma in AI Application for Disaster Risk Reduction program, a strong base in the AI ML, IT and Government sector to foster academic excellence through industry connections and collaborations.

The program is well designed with the objective to impart comprehensive knowledge along with real-time skill training for students. To make students succeed in the global competitive environment, the program provides an industry-focused curriculum, supported by a well maintained infrastructure and mix of Masters & Industry experienced faculties.

This course focuses on specialized training in the field of basic to advanced AI and its applications exclusively for Disaster Risk Management

Program Structure

The PG Diploma is a full-time Regular Program. The duration of the program is One Academic Year consisting of Two Semesters. Eligibility to enroll in the program is any bachelor degree from a UGC approved recognized University. This Program is a combination of core courses, specialized courses, projects and skills based lab work & Internship.

During the course, all students have to undergo a compulsory 4 - 6 weeks Internship with Industry suitable for the program. The performance of the internship will be evaluated out of 150 marks (100 external + 50 internal)

Program Benefits:

- **Flexible program design**
- **Mentorship**
- **Career oriented electives**
- **Career advancement opportunities**
- **Opens door to leadership roles**
- **Increased earning potential**
- **Experiential and future focused learning**
- **Analytical and Critical thinking abilities for large data-based decision making**
- **Skill Enhancement**

Roles One can Explore:

- **Research Analyst**
- **Expert in Disaster Risk Management**
- **Domain Expert**
- **Disaster Management**
- **Business Analyst**
- **Program manager**
- **AI / ML Engineer**
- **Data Scientist**

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Eligibility Criteria

The eligibility criteria for "PG Diploma in AI Application for Disaster Risk Reduction":

1. Education:

Candidates should have completed a Bachelor's degree in any discipline from a recognized university with a minimum aggregate score of 60%. and have studied mathematics or Computers as one subject at the undergraduate or at plus 2 level with minimum 60% in plus 2 board exams..

2. Entrance Exam:

Candidates may / may not be required to appear for a qualifying entrance exam to asses the aptitude and mathematical ability to grasp the course well depending on the educational background.

3. English Proficiency:

Candidates should have a good command of the English language.

Fact Sheet

- No. of Semester: 2
- Fees: INR 50000/ Semester (Total Fees 1 Lac)
- 7 Days in-campus training is mandatory for students(on their own expense)
- 75% attendence and completion of all assignment/project is must

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Module 1

Course Modules – Disaster management and resilience Building

Syllabus will included the below topics, subject to approval. This is required to provide the perspective and understanding of domain

- **Introduction to Disasters**
- **Risk Assessment**
- **Disaster Preparedness**
- **Early Warning Systems**
- **Search and Rescue Operations**
- **Community Engagement**
- **Humanitarian Aid and Relief**
- **Climate Change and Disasters**
- **Technology in Disaster Management**
- **Legislation and Policy**
- **Crisis Communication**

Module 2

Course Modules – AI basic and advanced

Syllabus will included the below modules and few edits based on the final approval

- **Systems setup**
- **Data Types and Data Structure**
- **Python Statements**
- **Functions**
- **Object Oriented Programming (OOP)**
- **Data analysis Numpy, Pandas**
- **Data Visualiation matplotlib**
- **Data Science Fundamentals**
- **Basic Statistics**
- **Probability**
- **Machine Learning**

- **Data Preprocessing**
- **Supervised Learning - Regression**
- **Supervised Learning - Classification**
- **Supervised Learning – Decision Tree**
- **Un Supervised Learning - Clustering**
- **Un Supervised Learning – Association Rule**
- **Deploy ML Model**
- **Deep Learning**
- **Neural Network**
- **Advance ML topics**
- **Natural Language Processing NLP**

Module 3

Course Modules – Application of AI in DR

Syllabus will included the below Projects where students will apply AI on real time problems to build a solution for decision making, subject to approval.

Data identification, Data indexing, data analysis, Data Analytics, Algorithm, Machine learning models and Visualization for below major areas -

- Early Warning Systems
- Disaster Response Planning
- Search and Rescue Operations
- Damage Assessment and Recovery
- Social Media Analysis
- Logistical Optimization
- Resilience Building
- GIS and Other application

Prof. (Dr.) Rabinarayan Satpathy
Director of the office of Vice-Chancellor, Dean & Mentor
- **Faculty of Emerging Technologies**
- **Faculty of Science**

With a Ph.D. in Computer Science & Engg. and a D.Sc. in Computational Fluid Dynamics from FMU, Balasore, coupled with diverse qualifications in Computer Science, Bio-informatics, and Mathematics, this professional brings a wealth of expertise. Over 27 years, they've excelled in teaching Soft Computing, Network Theory, AI, Data Science, Automata Theory, and more. Their administrative roles include 17 years as Dean and 9 years as Principal/Director of AICTE approved Degree Engineering Colleges. As an Executive Director for 5 years, they oversaw a group of educational institutions. With 25 patents and 175 papers published, 35 awards, and fellowship in prestigious societies, they've made a mark internationally. Noteworthy international distinctions include Distinguished Professorship and a Grand Ph.D. from WCU, USA. A Chartered Fellow Educator, their contributions extend to Human Value Education and Mentorship. Overall, this accomplished professional has significantly impacted academia, research, and administration while garnering global recognition and accolades.

Resourse Person's

Dr B S Tiwary
Strategist - IIT Delhi (Ethics committee, Environment,
Administration and Disaster Management)
International Delegate to Asia Pacific Ministerial Conference
on Disaster Risk Reduction, Brisbane Queensland Australia
September 22, Government of Australia, United Nations,
Honored by Dept of State, United States of America,
Louisiana State Police Academy, Louisiana State University,
USA for Advanced Crisis Response Team Curriculum,
Representative India to 5th Cooperative Aviation Security
Program Asia Pacific (CASP - AP), Fiji, ICAO, Delegate to
International Conference on Disaster Resilient Infrastructure 2023,
Delegate to 5th World Congress on Disaster Management,
Distinguished Expert Delegate to Resilience and Sustainability
Summit Vision 2047,
Honoured by Consular Corps Diplomatique, Consular Corps
Association representing 115 countries in Mumbai, India
https://www.linkedin.com/in/dr-b-s-tiwary-99479162/

Prof. (Dr.) Ashutosh Mohanty
an interdisciplinary
international Development Professional,
Practitioner, Researcher, University Professor,
Mentor, Team Leader, Programme Policy Adviser
with having 22 years of academic and applied
project-based experience in 25 countries in the
interdisciplinary elds of Holistic Disaster
Management, Extreme Weather Events, Climate
and Resilience, Pandemic Health Management,
Humanitarian Response, Water Resource
Management, Urban Infrastructure Governance,
Green and Clean Energy and Sustainable
Development.

He is continuing as Professor;
Disaster Management, Climate Change and
Sustainable Technologies at The Faculty of
Emerging Technologies, Sri Sri University, Odisha,
India. He is continuing as International Disaster
Specialist and Deputy Team Leader to Asian
Development Bank Disaster Risk programme,
South Asia as well as Tripura Urban Infrastructure
Development Project Supported by ADB and
World Bank funded Health Risk assessment as a
Health Specialist (International) for the state of
Uttarakhand and Himachal Pradesh, India.

Dr. Ajoy Das

is working as Cartographer in Department of Geography, School of Sciences, Gujarat University, Ahmedabad, Gujarat, India since December 2013. I had published many research articles, papers on National and International platform and received awards and prizes. I had attended many training programs on Hydrological Modelling, GNSS, Microwave Remote Sensing at National and International level both and received scholarship/ fellowship. I have nine years of expertise on research and teaching GIS, Remote Sensing, Climate Change, Photogrammetry, Geovisualization, and Advanced Field Techniques. My working areas are natural and cultural resources management, biodiversity conservation, terrain analysis, Disaster management and risk assessment and spatio-temporal modeling addresses critical and contemporary issues. Always interested in field-based research with various geophysical instruments.

Mr. Saeid Poormorad, International Resourse Person

is a PhD researcher at the University of Coimbra, Centre for Studies in Geography and Spatial Planning (CEGOT), FLUC, Department of Geography and Tourism, Coimbra, Portugal. He is an internationally recognised expert in the fields of geology (sedimentology and geochemistry) as well as remote sensing, GIS and artificial intelligence. He has a diverse professional background, including 13 years of teaching experience at universities and colleges in Iran and Thailand, 7 years of work at the Geological Survey and Mineral Exploration Organization of Iran, and 4 years of employment at the National Iranian Oil Company as a senior geologist. To date, he has published numerous international works, including 12 articles in English and 14 articles in Persian, 3 books in English and 3 books in Persian, and 7 geological and geomorphological maps. His research interests include geochemical studies, artificial intelligence, remote sensing and environmental studies.

Mentor

Dr Ramesh Khare

Co Founder and COO Data Science Wizards Pvt Ltd

https://www.linkedin.com/in/dr-ramesh-khare-07a0359/

THANK YOU!

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