ANNOUNCEMENT BROCHURE

Post Graduate Diploma in
Geospatial Data Analytics
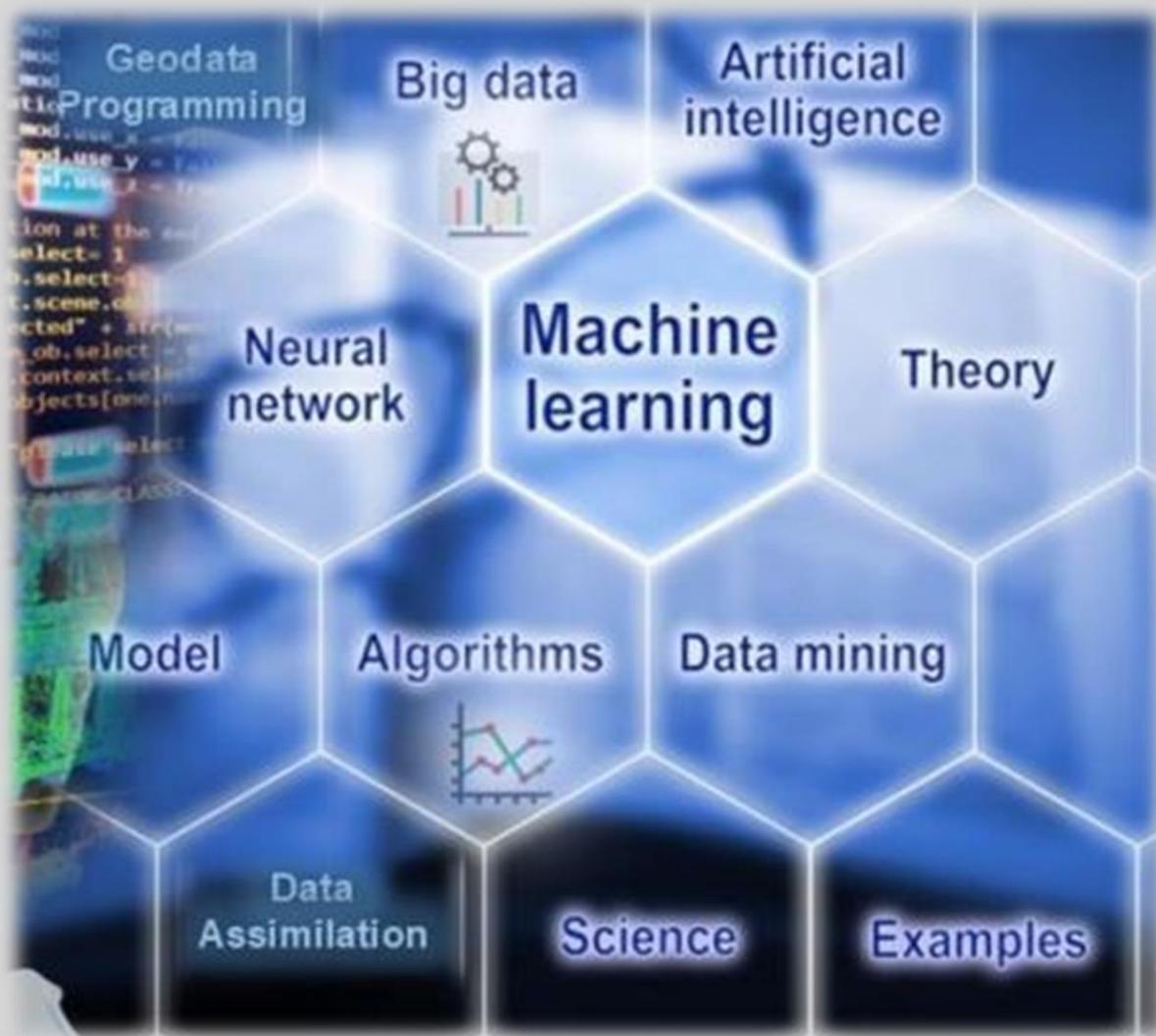
Industry Partner

SkyMap Global India Pvt. Ltd.

SKYMAP GLOBAL

Kazi Nazrul University
Nazrul Road, Kalla Bypass More, P.O. - Kalla (C. H.) Asansol 713340, District - Paschim Barddhaman, West Bengal

www.knu.ac.in

☯ Introduction to the Course:

In recent years, there has been an explosive growth in the development of adaptive and data-driven approaches for decision making purposes. The geospatial data have attracted great attention in this regard. Different government organizations have started planning, policy formulation and its implementation based on geospatial database. The capture and analysis of this geospatial data needs strong and efficient hardware and software components, which are capable of capturing, storing and analysing the dataset to arrive at a decision. Moreover, expensive hardware and software components become a barrier for better analysis of these data leading towards the use of open source software and more specifically programming language-based analytics platforms. This will reduce financial obligations as well as enhancing the skills for developing and modifying tools as and when required. The government and private sectors are also encouraging to use open source software and programming language-based skills for the analysis of geospatial dataset to get an innovative solution for a wide range of problems. To develop innovative ideas and strategies to demonstrate innovative solutions, the capturing of geospatial data through various types of ground based surveys (Drone, Total Station, DGPS *etc.*) and the application of Artificial Intelligence (AI) are very much essential. So, there is an urgent need to generate skilled manpower towards capturing, managing and analyzing geospatial data. This course is designed to cater towards enhancing geospatial data analysis skill of the interested students and professionals. Starting from basic skill to more advanced level geospatial data analysis techniques will be taught with the collaboration of a world leading geospatial data analysis company.

☯ Learning Objectives:

● The course is a unique and need-based program designed and framed to motivate and engage the takers to understand the geospatial data capturing and analysis using ground surveying and Artificial Intelligence (AI) respectively.

● The course is designed for generating skills in 3D topographic survey and Machine Learning models/algorithms for geospatial data capturing and analysis among the students, researchers and professionals.

● The prospective applicants will be benefited through learning of different survey instruments and programming languages and most importantly they will learn most advanced technologies of this field in geospatial data capturing and analysis, which will help them to get jobs in this sectors as well as gaining skills for better assessment through geospatial analysis of specific problem.

● The course curriculum aims at spreading the awareness on the needs and importance of geospatial data and the need of AI for data analysis.

☺ Programme Highlights:

- **Geospatial data analysis skills**
- **On the job training through internship**
- **Special class by industrial partner**
- **Hands on training with programming languages and open source software**

University will take initiatives to provide maximum placement to the students on successful completion of the course

☺ Course Content Highlights:

- **Remote Sensing and GIS data analysis**
- **Land survey using advanced survey instruments**
- **Drone data capture and processing**
- **Machine Learning techniques**
- **Programming language based Geospatial data analysis**

☺ Probable Job Prospect Areas:

Carrier opportunities are as follows:

- **Geospatial Surveyor**
- **Geospatial Technician**
- **Geospatial Data Analyst**
- **GIS Engineer/Developer**
- **Market Analysist**
- **Spatial Data Modeller**

Skills You Will Gain

☺ Intake Capacity:

- **Total 40 seats are available in this course.**
- **Reservation to SC, ST, OBC and PWD (Persons with Disabilities) categories will be available as per the State Reservation Policy.**

☺ Course Duration and Details:

● The course is of one year duration having two semesters.

● NSQF Level: 8 (Postgraduate Diploma) ● 60 Credits ● 340 Hours of Industrial Internship ● 560 Hours of Skill Based Laboratory Training ● Classes will be in regular mode.

☺ Course Fee:

● Course fee is Rs. 10,000/- per semester (excluding examination fees).

☺ Eligibility Criteria:

● Bachelor's degree in any Science discipline including Geography, B.E./B.Tech in Computer Application/ Computer Science/ Disaster Management/ Civil Engineering/ Urban Planning and allied subjects.

● No age limit is applicable.

☺ How to apply?

● The candidate can apply through https://knu.ac.in/.

● Only online applications are accepted.

☺ Contact for further information:

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