

ABOUT IGNTU

The Indira Gandhi National Tribal University (IGNTU), Amarkantak has been established by an Act of the Parliament of India. It came into existence by the Indira Gandhi National Tribal University Act, 2007 and came into action on July 2008. The jurisdiction of the University extends to the whole country and it is fully funded by the Central Government through the University Grant Commission. The University aims to cater the long-cherished dream of tribal population for higher education. The University has its 32 Departments. In different departments the courses being offered range from Graduation to Doctoral level including Certificate and Diploma Courses. The laboratories and Central Library are of international standards. The University also has its Regional Campus in Imphal, Manipur.

ABOUT DEPARTMENT OF COMPUTER SCIENCE

The Department of Computer Science, Faculty of Computer Science, was established in year 2009 with undergraduate (BCA) program with an intake of 60 students. Postgraduate Program (M.Sc.) in computer science was introduced in the year 2013, with an intake of 20 students. A 3-year Post Graduate Program, Master of Computer Application, with an intake of 30 students was introduced in 2016. A Ph.D. program was introduced in year 2014 to prepare highly qualified computing professionals to meet the growing demands of the industry. One of the youngest, but among the most efficient departments, aiming for producing the best quality software engineers who serve in leading companies, not only in India but also abroad. The students have an in-depth exposure to computing environment consisting of state-of-the-art machines in different laboratories. The main objective of the Dept. is to providing technical ability to analyze, develop and innovate systems and technologies in the leading/ever-evolving areas of Computer Science.

PATRON

Prof. Shri Prakash Mani Tripathi
Hon'ble Vice-Chancellor
IGNTU, Amarkantak

CONVENER

Prof. Vikash Singh
Dean & HoD
Department of Computer Science
IGNTU, Amarkantak

COORDINATORS

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ORGANIZING COMMITTEE

Dr. Abhishek Bansal, IGNTU
Dr. Sudesh Kumar, IGNTU
Dr. Narayan P. Bhosale, IGNTU
Dr. Suhel Ahmad Khan, IGNTU

**One Week
International Workshop on**

**Machine Learning & Its
Applications**

January 24th - 28th, 2022



Organized By

**Department of Computer Science
Indira Gandhi National Tribal
University (IGNTU) A Central
University, Amarkantak, Madhya
Pradesh- 484887**



RESOURCE PERSONS

1. Prof. Amandeep Kaur, Central Univ., Punjab
2. Prof. Amit K. Saxena, Central University, Bilaspur, C.G.
3. Prof. D.K. Lobiyal, JNU, New Delhi
4. Prof. Deo Prakash Vidyarthi, JNU, New Delhi
5. Prof. Pramod Kumar Mishra, BHU, Varanasi
6. Prof. Vikas Pareek, Central Univ., Bihar
7. Dr. Hari Shanker Hota, Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur, Chhattisgarh
8. Dr. Indranath Chatterjee, Tongmyong University, South Korea
9. Dr. Mohammad Sajid, AMU, Aligarh
10. Dr. Manu Pratap Singh, Dr. B. R. Ambedkar University, Agra
11. Dr. Neeraj Kumar Rathore, IGNTU, Amarkantak, MP
12. Dr. O.P. Rishi, University of Kota, Rajasthan
13. Dr. Pradeep Kumar, Maulana Azad National Urdu University, Hyderabad
14. Dr. Partha Sarthi Benerjee, Jaypee University of Engineering & Technology, Guna, M.P.
15. Dr. Rakesh Kumar, Central University, Haryana
16. Dr. Rajiv Ranjan Singh, Shyamlal College (Evening), University of Delhi
17. Dr. Shitansh Shekhar Sahu, BIT, Mesra, Ranchi
18. Dr. Sunil Kumar Singh, Mahatma Gandhi Central University Motihari, Bihar
19. Dr. Vijay Bhaskar Semwal, MANIT, Bhopal, MP

WHO CAN ATTEND

The participants to the course will be faculty, Ph.D. Scholars & UG/PG Students from all colleges and universities. Industry personnel working in the concerned/allied discipline and staff of host institutions may also apply.

Limited seats are available on First Come First Serve basis.

IMPORTANT DATES

Online platform: The workshop will be conducted online in Google meet. Workshop schedule and online links will be provided to all registered participants on 22nd-Jan-2022.

REGISTRATION FEES DETAILS

- Participant no need to pay any registration fees to attend the workshop
- Registration Link : <https://forms.gle/WQYrF6R3CeqRupRL7>
- The E-certificates will be awarded to all the participants after successful completion of the workshop by IGNTU, Amarkantak.

ADDRESS FOR CORRESPONDENCE

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COURSE CONTENTS

- Introduction to AI and its applications in real world.
- Basics of Python
- Fundamental of Machine Learning Categories
- Working with Data
- Mathematical Foundations
- Machine Learning Python Packages
- Supervised Machine Learning
- Unsupervised Machine Learning
- Supervised Machine Learning Algorithms
- Supervise Machine Learning - Classification
- Supervised Machine Learning - Regression
- Unsupervised Machine Learning - Clustering
- Introduction Neural Networks
- Prepare your data for Machine Learning
- Evaluate the Performance of Machine Learning
- Algorithms with Re-sampling
- Examples of Real-time application of Machine Learning

COURSE OBJECTIVE

The primary objective of this online course was to provide participants a concise introduction to the fundamental concepts in machine learning including mathematical foundations, programming tools and packages and popular machine learning algorithms. It imparted knowledge in Machine Learning principles through a lot of practical applications covering industrial case walk-through and real-time applications.