



**Five Days Online
Faculty Development Program
on
Introduction to Artificial
Intelligence and Recent
Developments**

November 02-06, 2020



Sponsored by:



AICTE, NEW DELHI
Under
AICTE Training & Learning (ATAL) Academy

ORGANIZED BY

Department of Computer Science and
Engineering
National Institute of Technology Meghalaya
Bijini Complex, Shillong-793003

Patron



Prof. B. B. Biswal
Director
NIT Meghalaya

Advisory Committee



Prof. G. Panda
Dean (AA)
NIT Meghalaya



Prof. H. C. Das
Dean (FW)
NIT Meghalaya



Dr. A. Banerjee
Dean (SW)
NIT Meghalaya



Dr. G. K. Dutta
Dean (R&C)
NIT Meghalaya



Dr. C. Marthong
Dean (P&D)
NIT Meghalaya



Dr. Y. Thakran
HoD (CSE)
NIT Meghalaya

Coordinator



Dr. Bunil K. Balabantaray
Assistant Professor, CSE
NIT Meghalaya

Co-coordinators



Dr. Vipin Pal
Assistant Professor, CSE



Dr. Satyendra Singh Yadav
Assistant Professor, ECE



Dr. Deepak Kumar
Assistant Professor, CSE



Dr. Akhilendra Pratap Singh
Assistant Professor, CSE

Organizing Committee

Dr. D. S. Roy	Associate Professor, CSE
Dr. S. Thokchom	Assistant Professor, CSE
Dr. A. Chakrabarty	Assistant Professor, CSE
Dr. S. Moulik	Assistant Professor, CSE

Key Speakers

Prof. S. K. Patra	Director, IIIT Vadodara
Dr. Pallab Maji	NVIDIA, Bengaluru
Dr. Deepak K. Panda	Mercedes Benz, India
Mr. Kalinga K. Patra	Accenture, Bengaluru
Dr. Sanjaya K. Panda	NIT Warangal
Dr. B. Balabantaray	NIT Meghalaya
Dr. Dushmanta Das	NIT Nagaland
Dr. Munesh Singh	IIITDM, Kanhepuram
Prof. H. R. Mishra	Freelancer

Registration Process

- ✓ No registration fee will be charged from the participants.
- ✓ **To register, please visit:**
<https://www.aicte-india.org/atal>
- ✓ **More Info:** <https://www.aicte-india.org/atal>
- ✓ Due to limited seats, applications will be considered on First Come First Serve basis.

About the Institute

National Institute of Technology (NIT) Meghalaya is one among the thirty-one NITs in India established under the NIT Act 2007 (Amended 2012) of the Parliament of India as Institutes of National Importance with full funding support from the Ministry of Human Resource Development, Government of India. NIT Meghalaya was established in 2010 and started functioning from its temporary campus in Shillong in 2012. Its permanent campus is currently under development at Cherrapunjee. Presently the institute has nine (9) Departments and eight (8) Centres with a combined strength of 68 regular faculty members and 07 Trainee Teachers. All the departmental laboratories are well equipped with advance equipment/ instruments and experimental set-up.

The institute has been ranked among the top 100 engineering institutes in India by NIRF ranking for the last four years. The institute also bagged 28th rank among top 25 engineering institutes of the country under India Today Ranking.

NIT Meghalaya is committed to basic long-term research in frontier areas. The goals are in the pursuit and advancement of scientific and technological research. The institute aspires to be a leading centre with research focus on achieving better scientific and technological mechanisms, discovering, and exploring new technologies, and improving technological standards through its core programmes.

NIT Meghalaya has made concerted efforts to align its R&D focus with the national goal of achieving technological self-reliance. Since its inception, NIT Meghalaya has been striving to be a prime hub for research and consultancy in advanced and industry-relevant areas. It has, therefore, forged collaborations with National Laboratories and Research Institutes to enable NIT Meghalaya faculty to meaningfully situate their theoretical knowledge in actual research work. The institute has ongoing academic and research collaborations with many national and international universities, governments, and industries in order to keep pace with expanding frontiers of knowledge and global developments. Its pre-eminent position at the cutting-edge of research is reflected in its impressive list of research projects, consultancy projects and research publications. Our collaboration with the industries has yielded the invaluable opportunity for faculty to engage in research projects with industrial relevance.

Detailed Schedule

Dates	09:30 AM to 11:00 AM	11:00 AM to 11:30 AM	11:30 AM to 1:00 PM	1:00 PM to 2:00 PM	02:00 PM to 4:00 PM	4:15 PM to 4:45 PM
02.11.2020 (Monday)	*Registration and Inauguration *(10:30 AM to 11:15 AM)	Break	Session 1 Introduction to AI Prof. S. K. Patra	Lunch	Session 2 Introduction to Python Mr. Kalinga K Patra	Discussion & Feedback
03.11.2020 (Tuesday)	Session 3 AI: Characterization of Learning Problems and issues Dr. Sanjaya Panda	Break	Session 4 AI PROJECT CYCLE: Data Acquisition, Visualization and Modeling Dr. Munesh Singh	Lunch	Session 5 Hands on Program development for AI using Python-1 Mr. Kalinga K Patra	Discussion & Feedback
04.11.2020 (Wednesday)	Session 6 Introduction to Fuzzy and Genetic algorithm Dr. Bunil K Balabantaray	Break	Session 7 Fundamentals of Artificial Neural Network and mathematics behind it Dr. Dushmantha Panda	Lunch	Session 8 Hands on Program development for AI using Python-2 Dr. Deepak Kumar Panda	Discussion & Feedback
05.11.2020 (Thursday)	Session 9 Introduction to Human-Machine Interactions Dr. Munesh Singh	Break	Session 10 Introduction to Decision Tree and Related Examples Dr. Bunil K Balabantaray	Lunch	Session 11 Hands-on Session on Real Case Studies Dr. Deepak Kumar Panda	Discussion & Feedback
06.11.2020 (Friday)	Session 12 Introduction to Natural Language Processing Dr. Jitendra Kumar Rout	Break	Session 13 Life management skills during pandemic Prof. H. R. Mishra	Lunch	Session 14 Hands-on Session on Real Case Studies Dr. Sanjaya Panda	Quiz & Feedback

Broad Scope

The topics to be covered in the course will range from preliminaries, basic of Artificial intelligence and machine learning along with the mathematics behind it, application of it in different domains and to solve several real-life case studies. The course features theory lectures as well as hands-on laboratory session on the development of various AI/ML based algorithms to solve real- world problems.

Mode of FDP

It is purely an online workshop

Targeted Audience

The course is suitable for CBSE School Teachers

Contact Details

Dr. B. K. Balabantaray bunil@nitm.ac.in
9485185916

Dr. S. S. Yadav satyendra@nitm.ac.in
9692975494