

RESOURCE PERSONS

Practising experts in the areas of AI and its applications from Institutions of higher learning, relevant industries and R&D organisations

WHO CAN ATTEND?

The faculty, Ph.D and PG Scholars from AICTE approved institutions can attend the workshop.

REGISTRATION FEE

No registration fee will be collected from the participants. No TA/DA will be paid to the participants. All participants will be provided with course material in soft form, tea and working lunch.

ACCOMMODATION

Participants have to make their own arrangements for accommodation. However, student hostel rooms may be provided based on availability and payment basis.

ORGANISING COMMITTEE

Chief Patron

Dr. K.SANKARANARAYANASAMY, Director / NIT Puducherry

Patron

Dr. G.SEETHARAMAN, Registrar / NIT Puducherry

Convener

Dr.S.THANGAVEL Associate Professor & Head/ EEE/ NIT Puducherry
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AICTE Training and Learning (ATAL) Academy



Sponsored

Five Day National Workshop

On

Artificial Intelligence in Electrical Engineering Applications

06.01.2020 to 10.01.2020



Convener

Dr.S.THANGAVEL

Associate Professor & Head/ EEE/ NIT Puducherry



Department of Electrical and Electronics Engineering
National Institute of Technology Puducherry
(An Institute of National Importance)
Thiruvettakudy, Karaikal - 609609
U.T. of Puducherry
www.nitpy.ac.in

ABOUT THE COLLEGE

National Institute of Technology Puducherry (NITPY) is an autonomous technical Institute located in Union Territory of Puducherry. The institute is situated in 258 Acres of land near Village Poovam at Thiruvettakudy, Karaikal. It is one among the 31 National institutes of Technology of India and is declared as an Institute of National Importance by Government of India under NIT Act, 2007. The Institute was sanctioned by the Government of India in 2009 as part of Eleventh Five-Year Plan 2007-2012). The institute was established in 2010, starting its intake in the academic year 2010-11. The Institute is offering Five B.Tech. Degree programs and Three M.Tech. Degree programs in addition Ph.D. degree programs in Science and Humanities, Electrical Engineering, Computer Science Engineering, Electronics and Communication Engineering, Mechanical Engineering and Civil Engineering.

ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering was established during the inception of the Institute in the year 2010. It offers B.Tech. Degree in Electrical and Electronics Engineering, M.Tech. Degree program in Power Electronics and Ph.D. degree program in various fields of Electrical and Electronics Engineering. The programs have structured curriculum and syllabus and are being revised time to time in order to keep abreast with the latest developments and emerging technologies. The department has state of art laboratories with latest equipment. The faculty members are with different specializations. The research activity of the department includes both fundamental research and sponsored projects. CPRI and DST sponsored projects are in progress.

ABOUT THE WORKSHOP

Artificial Intelligence (AI) is an emerging technology which exploits the simulation of data interaction of human intelligence to produce a smart machine. The AI methodology involves development of knowledge representation methods, search strategies, reasoning techniques, knowledge based system methodology, and languages for symbolic and list of process. The AI techniques are used to solve wide range of hitherto intractable problems including medical diagnosis, robot control, finance, transportation and remote sensing. This workshop introduces the key concepts and programming methods of AI, and its applications in Electrical Engineering. At the end of workshop, the faculty participants will be able to explore the concepts of AI and its applications to students and hence student's good

projects as outcome. The Ph.D. scholars will be able to identify their research problems and proceedings. This workshop is funded by AICTE training and learning (ATAL) academy, Tiruvananthapuram.

TOURIST ATTRACTIONS

Karaikal has rich heritage and it still holds the old charm. Thirunallar, Karaikal Beach, Karaikal Ammaiyar Temple and Tantondreeswara Temple are few important places to visit around Karaikal. Nagore Dargah (14 km), Nagapattinam (20 km) and Velankanni Church (31 km) are other major attractions in the vicinity of the town.

REGISTRATION

The interested candidates are required to register for the workshop through google form <https://forms.gle/zyVy7Y1zmKykRUQ36> on or before the last date. The workshop details and registration form are also available in our website (www.nitpy.ac.in). The No. of participants is limited to 50 and will be selected based on first come first serve basis and prerequisite needed. **For any clarification, the workshop convener can be contacted.**

SCHEDULED DATES

Last date for receipt of Registration form : **15.12.2019**
Confirmation to the participants through Email : **17.12.2019**

WORKSHOP CONTENTS

- Introduction to Artificial Intelligence
- Global Developments in Artificial Intelligence
- Key Challenges to Adoption of AI in India
- Industry practices in AI
- Python fundamentals
- Search Algorithms
- Probabilistic Reasoning
- Markov Decision process
- Reinforcement Learning
- Machine learning
- Deep Learning
- Case Studies
- Hands on practice
- Applications to Electrical Engineering