About The Institute

The National Institute of Technology, Tiruchirappalli, started in 1964 with a view to catering to the needs of man-power in technology for the country. NITT is ranked first among all 31 NIT’s for the third time and tenth among all the technical institutes in India by the National Institute Ranking Framework (NIRF). NITT is witnessing exponential growth in R&D activities. Apart from a large consultancy work undertaken by our departments, academic research gains its momentum day by day. NITT has signed several MOUs with industries and institutions in India and abroad to promote collaborative research and consultancies.

Department of Electronics and Communication Engineering (ECE)

The Electronics and Communication Engineering (ECE) Department was established in the year 1968. The department offers Undergraduate (UG), Post Graduate (PG), M.S. (By Research) and Ph.D. degree programs that provide students with the knowledge and tools they need to succeed in the Electronics and Communication Engineering. Research in the department focuses on high-impact various disciplines: Communication systems, Wireless networks, Signal and Image Processing, RF MEMS and MIC, Microwave antennas, Optical communication and Photonics, VLSI technologies.

Department of Computer Applications (CA)

The Department of Computer Applications is one of the pioneering departments of the institution that offers Information Technology courses including MCA, M.Sc. Computer Science, and M. Tech. Data Analytics. It is dedicated to the mission of inculcating value-based, socially committed professionalism to the cause of overall development of students and society.

Coordinators:

| Dr. Varun P. Gopi  | Dr. G. R. Gangadharan |
| Asst. Professor   | Assoc. Professor     |
| Department of ECE | Department of CA     |
| NIT Trichy        | NIT Trichy           |

| Dr. P. Palanisamy | Dr. S. R. Balasundaram |
| Professor        | Professor             |
| Department of ECE| Department of CA     |
| NIT Trichy       | NIT Trichy            |

Short Term Course on
Big Data Analytics, Machine Learning, and Deep Learning using Python

18th – 22nd March 2020

Jointly Organized by

Department of Electronics and Communication Engineering
&
Department of Computer Applications

National Institute of Technology Tiruchirappalli,
Tamil Nadu, India
About the Programme

In today’s data centric world, Big data analytics includes combining of multiple unrelated datasets, processing of large amounts of structured, unstructured, and semi-structured data, and harvesting of hidden information such as hidden patterns, unknown correlations, market trends and customer preferences that can help organizations make informed business decisions, in a time-sensitive manner. Machine learning and Deep learning as the methods of data analysis automate analytical model building. These learning methods help systems to learn from data, identify patterns and make decisions with minimal human intervention.

Focus Areas

- Introduction to Big Data Analytics, Machine Learning & Deep Learning
- Big data analytics using Hadoop
- Data visualization techniques
- Cloud in/for Analytics
- Supervised learning
- Unsupervised learning
- Reinforcement learning
- Transfer Learning
- Neural networks
- Natural language processing
- Fuzzy logic and its applications
- Hands on Sessions on Python
- Case Studies and Applications

Target Audience

- Faculty members, Project staff, Research scholars & Students, Industry personnel.

Resource Persons

- The course faculty includes resource persons from NITs and other reputed industries.

Important Dates

Last Date of Online Registration: 31<sup>st</sup> December 2019

Date of Intimation regarding Selection: 5<sup>th</sup> January 2020

Registration Fee (Including 18% GST)

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
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</thead>
<tbody>
<tr>
<td>Industry personnel</td>
<td>5000/-</td>
</tr>
<tr>
<td>Faculty, Project staff</td>
<td>4000/-</td>
</tr>
<tr>
<td>Research Scholars</td>
<td>2000/-</td>
</tr>
<tr>
<td>UG/PG Students</td>
<td>1500/-</td>
</tr>
</tbody>
</table>

The number of participants is restricted to 60.

Accommodation for the participants will be arranged in the institute Guesthouse/ Hostels (sharing) on payment basis.

How to Apply

Apply Online Through the Following Link

https://qrgo.page.link/EY3hV

After the confirmation mail from coordinators, payment shall be done through the following link

https://qrgo.page.link/HqQqJ

Address for Communication

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