



# FACULTY DEVELOPMENT PROGRAMME (FDP) ON Semantic Computing and Declarative AI

(30<sup>th</sup> May - 4<sup>th</sup> June 2022)

Organized by

E & ICT Academy, NIT Warangal

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

### Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

This faculty development programme (FDP) is devoted to addressing the need to enhance the knowledge about the latest technologies pertaining to **Semantic Computing and Declarative AI in Image and Computer Vision Applications** is being conducted at **National Institute of Technology, Warangal**. The whole course is handled by academicians and industry experts.

### Major Course Contents:

- Declarative programming and AI, Logic Programming, Automated Theorem Proving,
- Ontology Engineering, Data modeling using Resource Description Framework
- Ontology Design
- Knowledge Representation and Reasoning (KRR) in AI
- Ontology Engineering, Ontology Mapping & Alignment
- Constraint programming and Decision-making in AI, Constraint Logic Programming
- Decision-making with constraints
- Linked Data, Querying Linked data (SPARQL Query language)
- Representation of Linked data on the web
- Declarative AI, Common-sense Reasoning, Answer Set Programming
- Co-inductive Logic Programming
- Knowledge Graphs, Question answering over knowledge graphs
- Storage and Retrieval of Large-scale Semantic data
- Data partitioning for storage Big RDF data
- Supervised and Unsupervised Learning Methods

### Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries and Arizona state university, USA are also expected to deliver as part of the course.

### Registration Fee Particulars:

Faculty and Research Scholars	Rs.2500/-
Industry Participants	Rs.7500/-

Participants need to pay the Registration Fee Online using the following details

Online Transfer Details
Account Name: <b>Electronics &amp; ICT Academy NITW</b>
Account No: <b>62423775910</b>
IFSC: <b>SBIN0020149</b>
Bank and Branch: <b>State Bank of India, NIT (REC) Warangal</b>

### Eligibility:

The program is open to the Faculty of Engineering Colleges, MCA Colleges and other allied disciplines in India. Industry personnel working in the concerned /allied discipline can also attend.

### Accommodation:

All the selected participants will be provided **FREE boarding & lodging** in the institute guest house. No TA will be paid for the participants

### How to apply:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/BjiWX8bcZkGkDPfA6>

### Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 50 (fifty). Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

### Important dates:

Last date (Application & DD)	28/05/2022
Selection List by E- mail	29/05/2022
Duration	30/5/2022 to 04/06/2021

### About NIT Warangal:

**National Institute of Technology, Warangal** is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programs in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

The Department of Computer Science and Engineering (CSE) offers B.Tech course in CSE, M.Tech courses in CSE, Computer Science and Information Security (CSIS) and Master of Computer Applications (MCA). The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed industries and R&D organizations like Microsoft, IBM, Oracle, Accenture, Infosys, TCS, EMC 2, C-DAC, Motorola, NIC, Sun Micro Systems, SPSS and tie up with IISc in certain areas. Department conducts various sponsored programmes throughout the year



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1. Name :
2. Designation :
3. Institution :
4. Email :
5. DD No:                      Bank:                      Date:
  
- Amount:
6. Address for Correspondence:

## SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. .... is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on "**Semantic Computing and Declarative AI**", sponsored by Electronics & ICT Academy during 30<sup>th</sup> May - 4<sup>th</sup> June, 2022 at NIT Warangal.

Signature of Head of Institution  
(with seal)

7. Educational Qualification:
8. Subjects taught so far:
  
9. No. of refresher courses/workshops attended:
10. Experience (in years):  
Teaching:                      Research:                      Industry:
  
11. Accommodation required:      YES / NO
12. Do you belong to SC/ST :      YES / NO

### Address for correspondence

**Dr. M. Srinivas,  
Assistant Professor,  
Dept. of CSE,  
National Institute of Technology  
Warangal – 506004  
Telangana, India**

It is requested to all the delegates, after completion of application form, all the payment details, screenshot of the payment and scanned application form has to be uploaded in the following online registration link.

### Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

### Registration Link:

For more details about Electronics & ICT Academy, NIT, Warangal, please visit:  
<https://nitw.ac.in/eict>

Signature of the Applicant

### For more enquiries please contact:

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Warangal, Telangana-500043.  
Mobile: 8897064421  
Email: [msv@nitw.ac.in](mailto:msv@nitw.ac.in)**

## Coordinators

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