

A TWO-WEEK ONLINE STTP ON

## Algorithms for Competitive Exams

(ACE 2021)

1<sup>st</sup> – 14<sup>th</sup> December, 2021

(4.30 PM to 7.30 PM)



(Under Center for Continuing Education (CCE)  
Programmes, NIT Warangal)



### Coordinators

**Dr. P. Venkata Subba Reddy**

Assistant Professor

Department of CSE, NIT Warangal

and

**Dr. U.S.N.Raju**

Assistant Professor

Department of CSE, NIT Warangal

Organized by

Department of Computer Science and Engineering  
National Institute of Technology Warangal  
Warangal- 506004, Telangana, INDIA

### ABOUT THE STTP

Algorithms are the foundation of Computer Science. In the last five decades, a number of significant advances have been made in the field of algorithms ranging from the development of faster algorithms to the startling discovery of some natural problems for which all known algorithms are found to be inefficient. These results triggered considerable interest in the study of algorithms, and the area of algorithm analysis and design has evolved into a field of interest. Many of the problems, though they may not seem realistic, require the same set of algorithmic knowledge that comes up every day in the real world.

**Design and Analysis of Algorithms is a very important course with good weightage for it in competitive exams like GATE, NET, PG-CET, etc. At the end of the STTP, the participants would learn how to design and analyze algorithms thoroughly and solve problems in competitive exams like GATE, NET, PG-CET, etc.**

### GATE CS 2022 ALGORITHMS SYLLABUS

- ✚ Searching
- ✚ Sorting
- ✚ Hashing
- ✚ Asymptotic worst-case time and space complexity
- ✚ Divide-and-conquer
- ✚ Dynamic programming
- ✚ Greedy method
- ✚ Graph traversals
- ✚ Minimum spanning trees
- ✚ Shortest paths

### TOPICS TO BE COVERED

GATE CS 2022 Algorithms syllabus is covered in detail.

### BENEFITS OF ATTENDING THE STTP

- ✚ Entire algorithms syllabus of GATE CS 2022 to be covered.
- ✚ After teaching each topic, last 20 years previous GATE questions related to the topic will be discussed.
- ✚ Two tests will be conducted during the STTP, one after completing half of the syllabus and the other at the end.
- ✚ Even after the completion of the course, interested participants can contact the instructor till the GATE CS 2022 exam is completed.

### INSTRUCTOR

**Dr. P. Venkata Subba Reddy, NIT Warangal**

(Lectures are conducted from 4.30 to 7.30 PM daily)

### REGISTRATION FEE AND SELECTION

Registration fee is Rs. 500/- per participant. Number of participants is limited. Participants are selected on a first come, first served basis.

**Note:** While paying the registration fee, please type "ACE 2021" in the purpose/description of the transaction.

### ELIGIBILITY

The program is open to all the faculty members, research scholars, and students of all educational/research institutions.

### HOW TO APPLY

One can register for the STTP by filling in the Google form available at the link given below

<https://forms.gle/QpPajQYfe8Ge8jRbA>

Once Paid/Registered you are confirmed.

### IMPORTANT DATES

Last date of registration: **30<sup>th</sup> November 2021.**

### E-CERTIFICATE

Participants will get e-certificate upon completion of the course.

## ABOUT WARANGAL

Warangal is historically known as Orugallu or Ekashila nagaram (city carved in single stone). It is a part of tricity along with Kazipet and Hanamkonda. Warangal is considered the cultural capital of Telangana with many historical monuments like Thousand Pillars Temple, Warangal Fort, Bhadrakali Temple, Ramappa Temple and Lakanavaram Lake located in a radius of 30 kms.

## ABOUT NIT WARANGAL

NIT Warangal, formerly known as Regional Engineering College (REC) was established in 1959. Over the years it has developed into a premier institute of higher learning in India. There are 14 Departments offering 8 undergraduate and 31 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study in the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art library, seminar halls, auditorium, guest houses and laboratories. Now NIT Warangal is celebrating Diamond Jubilee (1959- 2019).

The campus is situated at a distance of 140 km from the state capital Hyderabad (Nearest Airport). It is well connected by Rail (Kazipet Junction is two km away and Warangal Station is 12 km away) and by Road (NH 202).

## ABOUT THE DEPARTMENT

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 is supported by well experienced and qualified faculty members. The department focuses on imparting practical and project-based training to students through competency-based curriculum. The Department has liaison with reputed industries and R&D organizations like Microsoft, IBM, Oracle, Infosys, IDRBT and tie up with IISc in certain areas.

## CENTER FOR CONTINUING EDUCATION OF NIT WARANGAL

This Centre of NIT Warangal organizes Continuing Education Programmes and Workshops in the frontier areas of Science, Engineering, Technology, Management, Humanities, Social Science and Socially relevant themes on self-financing basis in three different modes: (i) At NIT Warangal by NIT Warangal (ii) At NIT Warangal in collaboration with other organizations (iii) By NIT Warangal Faculty at the Host Organization/Institute.

## ACCOUNT DETAILS FOR ONLINE FEE PAYMENT

Account Name: **Center for Continuing Education NITW**  
Name of the Bank: State Bank of India (SBI)  
Account Number: 62403680215 (Savings Account)  
IFSC Code: SBIN0020149  
Branch: NIT Warangal

## ADDRESS FOR CORRESPONDENCE

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FORMAT OF GOOGLE FORM

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1. Name:
2. Educational qualification:
3. Email:
4. Alternate Email:
5. Phone No:
6. WhatsApp Mobile No:
7. Affiliation (if any):
8. Amount Transferred:
9. Date of Transaction:
10. Transaction ID:
11. Transaction Receipt: