

One Week

Self-Financed Refresher Course

On

Data Structures (DS-2016)

From: 4th July- 8th July, 2016

Data Structures

DS-2016



Organized by

Department of Computer Science & Engineering
Motilal Nehru National Institute of Technology
Allahabad
Allahabad-211004, Uttar Pradesh, India

THE INSTITUTE

Motilal Nehru National Institute of Technology (MNNIT) Allahabad is one of the premier National Institute of Technology (NIT) in India. It is committed to achieve quality and excellence in academic pursuits. Established in 1961, as a Regional Engineering College, a joint enterprise of Government of India (GOI) and Government of Uttar Pradesh, the institute was transformed into NIT on June 26, 2002. With the enactment of NIT Act-2007, the Institute has been granted the status of institution of national importance w.e.f. August 15, 2007.

The Institute offers various undergraduate and postgraduate courses such as B.Tech., M.Tech., MCA, MBA, M.Sc., M.S.W and Ph.D. degree. It has been recognized by GOI as one of the Quality Improvement Programme (QIP) centre for M.Tech. and Ph.D. program. Also, it is a lead Institution under World Bank funded GOI Project on Technical Education Quality Improvement Programme (TEQIP).

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

For the first time in India under graduate course in Computer Science and Engineering was offered in 1977 under Electrical Engineering Department with a modest strength of 10 students.

The Department of Computer Science & Engineering offers courses leading to a Bachelor of Technology in Computer Science & Engineering and Bachelor of Technology in Information Technology. It also offers a Master of Technology in Computer Science & Engineering, Master of Technology in Software Engineering, Master of Technology in Information Security, and Master of Computer Application (M.C.A.). Further, the department also enrolls candidates for Ph.D. program.

ALLAHABAD

The city of Allahabad is among the largest cities of Uttar Pradesh. It is situated at the confluence of three rivers- Ganga, Yamuna and the mythological Saraswati. The sacred meeting point is known as Sangam. The city also known as PRAYAG has many governmental institutions which include MNNIT Allahabad, Allahabad University, HRI, IIIT Allahabad, High Court of UP, AGUP, CDA Pension, State Government Board and various tourist places like Anand Bhawan, Khusroo Bagh etc.

COMMITTEE

ORGANIZING COMMITTEE

Patron

Director, M.N.N.I.T. Allahabad

Chairman

Head, Department of Computer Science and Engineering

Course Coordinators

Dr. Pragya Dwivedi, Department of C.S.E.

Prof. M.M. Gore, Department of C.S.E.

Student Coordinators

1. Mr. Ashish Sahu, Department of C.S.E.
2. Mr. Rajneesh Pareek, Department of C.S.E.
3. Mr. Vijay Dwivedi, Department of C.S.E.
4. Mr. Brijendra K. Singh, Department of C.S.E.

ADVISORY COMMITTEE

All the Professors of Computer Science and Engineering Department.

ADDRESS FOR COMMUNICATION

Complete registration form, accompanied by the demand draft should reach the course coordinator on or before 15th June, 2016. The applicants are also requested to e-mail a scanned copy of the application. The contact details are:

Co-ordinator DS-2016

Department of Computer Science and Engineering
Motilal Nehru National Institute of Technology Allahabad
Allahabad-211004

E-mail: pragyads2016@gmail.com

For any further information / assistance you may contact following student co-ordinators:

Mr. Ashish Sahu: 09506347438

Mr. Rajneesh Pareek- 08303170116

Mr. Brijendra K. Singh- brijendra2014rcs01@mnnit.ac.in

Note: Please write the name of the course (DS-2016) on top of the envelope

INTRODUCTION

Data Structure is the heart of computer science. All small and big software begin their development with the identification of appropriate data structures. Consequently, there is a need to learn how the variety of data structures impact the performance of programs and software thereby. It is important to know how to select the appropriate data structure for a specific software application.

OBJECTIVES AND PREAMBLE:

The objectives of the refreshers course are:

- To strengthen and refresh knowledge of faculty members research scholars and students.
- To strengthen data structure concepts through implementation

The program will first take up the basic data structures in brief followed by advanced data structures in detail with their implementation. The course will discuss applications of data structures in different emerging fields.

TOPIC TO BE COVERED

The course will contain following topics:

- Basic Linear Data Structures (Array, Linked List, Stack, Queue).
- Basic Non Linear Data Structures : Binary Tree, Balanced Trees, Optimal Binary Search Tree, M-ary Tree
- Hash Table, Dictionary
- Graphs

COURSE OUTCOME

After completion of this refresher course, participants would be able to use Data Structures with confidence in application development in different fields of research.

COURSE DURATION

One Week (4th July to 8th July 2016)

WHO SHOULD ATTEND

The primary audience would be faculty members of educational institutions. It is also open for PG and Ph.D students.

IMPORTANT DATES :

Last Date for Receipt of Application Form: June 15, 2016

Selection Notification on June 22, 2016

Course Commences on 4th July

RESOURCE PERSON

Faculty members from IITs, NITs and other reputed institutes and industries.

REGISTRATION

To register for this course the applicants will have to pay fees in advance as per the following details

Category	Fees (Rs.)
Industry Personnel	5000/-
Faculty	4000/-
Research Scholars/ PG Students	2500/-

Registration fee can be submitted through D.D in favour of "DS-2016" payable at Allahabad or via NEFT, A/C Name: DS-2016, A/C Number: 718400301000199, Vijya Bank, Branch: MNNIT Allahabad, IFSC: VIJB0007184.

The lodging and boarding arrangements for candidates from outside Allahabad can be made on request for limited number of accommodations. The charges of lodging and boarding are separate from the registration fee.

The participants can download Registration Form available on the MNNIT Allahabad web site or otherwise can use the registration form available of this pamphlet. Completed registration form along with the D.D. and payment details should reach at the communication address by post or E-mail (in case of NEFT payment with transaction details) on or before June, 15, 2016. The list of participants will be displayed at the MNNIT Allahabad website and applicants will also be intimated by E-mail on or before June, 22, 2016.

Self-Financed Refresher Course On Data Structures (DS-2016)

4th July- 8th July, 2016

Organized by
Department of Computer Science & Engineering
Motilal Nehru National Institute of Technology Allahabad
Allahabad-211004, Uttar Pradesh, India

REGISTRATION FORM

Name (in Block Letters) _____

Date of Birth _____ Sex: Male/Female

Highest Qualification: _____

Organization: _____

Designation (Faculty / Research Scholar / PG Student /
Industry Personnel)

Experience: ____ Years ____ Months

Address of Correspondence:

City: _____ Pincode: _____

Mobile No. _____

E-mail _____

Accommodation needed Yes/No

PAYMENT DETAILS:

Draft No. _____ Date: _____

Issuing Bank and Branch (with code) _____

For NEFT: Transaction ID _____ Amount _____ Date: _____

(In favour of 'DS-2016, payable at 'Allahabad')

(Signature of Applicant)