

A self-financed summer training program

On

Enhancing Skill for Enterprise Scale Application Development ((ES)²AD)

From 7th June – 4th July, 2019



Organized by

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

THE INSTITUTE

FOCUS ON JAVA SCRIPT AND RUBY ON RAILS

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 (29 of 2007), the Institute has been granted the status of institution of national importance w.e.f. August 15, 2007.

The Institute now offers various undergraduate and postgraduate program such as B.Tech., M.Tech., MCA, MBA, M.Sc., M.S.W and Ph.D. degree. It has been recognized by GOI as a Quality Improvement Programme (QIP) centres for the M.Tech. and Ph.D. program.

ABOUT THE CITY PRAYAGRAJ

The city of Prayagraj (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 better known as PRAYAG has many governmental institutions which include MNNIT Allahabad, IIT Allahabad, Allahabad University, High Court of UP, & tourist places like Sangam, Anand Bhawan, Narayani Ashram etc. MNNIT Allahabad is one of the premier institutes of the city offering Quality Technical Education.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

For the first time in India under graduate program 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 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.

ABOUT THE TRAINING

The training program is about making students learn developing software in Object Oriented way using Java Technology. Major problem in the industry is newly graduated students lack skill in developing software using object oriented principles. Without understanding the principles of object oriented development they end up developing procedural code using object oriented language. Some features that are expected of object oriented development is flexibility, reusability, scalability, evolvability and maintainability of the applications. The training emphasizes at enhancing skill for developing web based applications modularized through the use of object oriented principles. This would generally help the students for their final year project development as well as enterprise scale application development in the industry. The course will be taught through running examples and is expected to culminate into developing a good enterprise

scale application by students on their own. The content is divided in three parts firstly core java then advance java followed by the use of design patterns and frameworks in building object oriented systems. Designing object-oriented software is hard and designing reusable, flexible, evolvable and maintainable software is even harder. Experts don't develop designs and code from scratch. Generally, they reuse successful solutions that have worked for them in past. Design patterns are the record of experiences of experts in designing good object oriented software. The framework aims to alleviate the overhead associated with common activities performed in Web development. They generally help in object oriented software development by making design and coding easier and faster as they often promote code reuse.

Core Java: Introduction to Object Oriented Software development through Java. Classes and Objects, Extending classes, Polymorphism, Interfaces, Nested classes and interfaces, Exceptions, Strings, Packages, The I/O Package.

Advanced Java: Event Handling, AWT, Applets, Multi Threading, The collection frameworks, Networking, Java Server Pages (JSP), Java Servlet, Enterprise Java Beans (EJB), Java Messaging Service (JMS), Java Database Connectivity (JDBC).

Design patterns, frameworks & Web Design: Singleton, Factory Method, Builder, Adapter, Bridge, Composite, Proxy, Template Method, Iterator, Observer, Visitor etc. PHP, Java Script, jQuery, Boot Strap, Ajax, Spring MVC, Struts 2, Hibernate, Meteor, etc.

OBJECTIVE OF THE TRAINING PROGRAM

The program tries to enhance the skill of graduating students to increase the chances of employability which is very poor in India according to reports. According to the Aspiring Minds report, "As many as 97 per cent of graduating engineers want jobs either in software engineering or core engineering. However, only 3 per cent have suitable skills to be employed in software or product market, and only 7 per cent can handle core engineering tasks". Our program (ES)²AD is a step towards the enhancing skills for making newly graduated students industry ready. The major concern of industry today is

that new entrants generally develop procedural code using object oriented languages. However, the expectation of industry from them is well designed and developed object oriented code. But, they have very little idea about how to use an object oriented language to develop the user friendly, flexible, reusable, evolvable and maintainable web based object oriented applications that are the requirements of any enterprise scale application today. Program is expected to solve some of these concerns of the industry along with the small contribution towards "Skill India Program" of Government of India.

IMPORTANT DATES

Course Duration: 4 weeks, June 7th to July 4th, 2019
Last Date of Registration: May, 18th, 2019 (Registration may get closed before last date if all seats get filled.)

WHO SHOULD ATTEND

B.Tech, BCA, MCA, M.Sc. Computer Science, M.Tech, Research Scholar, Industry persons and faculty with Engineering & Science background.

REGISTRATION DETAILS

The prospective participants are requested to submit their applications at the address for communication. The course fee will be as follows:

Industry Persons/Faculty Rs. 10,000=00+18% GST
Students (from other institutions) Rs. 9,000=00+18% GST
Students (from MNNIT Allahabad) Rs. 8,000=00+18% GST
Registration fee can be submitted through **DD in favour of "ESAD" payable at Allahabad** or via NEFT

A/C Name: ESAD A/C Number: 718400301000300

Bank: Vijaya Bank (Now Bank of Baroda) IFSC: VIJB0007184

Branch: M.N.N.I.T. Allahabad

The participants will receive ample course material in the program to practice. The fooding and lodging arrangements for candidates can be made on the request of students from outside the Prayagraj (Allahabad). Limited number of accommodation will be provided on first come first serve basis to the participants, based on the availability of rooms in the institute hostel. The charges of fooding and lodging will be separate from the registration fee and will be nominal.

The participants shall download Registration Form available in the MNNIT Allahabad web site otherwise can use the

registration form available in this pamphlet. Filled 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) on or before May 18th, 2019. Seats are limited. The list of participants will be displayed at the MNNIT Allahabad website and they will also be intimated by E-mail on or before May 28th, 2019.

RESOURCE PERSONS

The resource persons for the program shall be Faculty from IITs, NITs and experts from the industries.

COMMITTEE

ORGANIZING COMMITTEE

Patron

Prof. Rajeev Tripathi, Director, M.N.N.I.T. Allahabad

Chairman

Prof. A. K. Singh, Head, CSED.

Course Coordinators

Prof. M. M. Gore, CSED.

Prof. R. S. Yadav, CSED.

Prof. D. K. Yadav, CSED.

Dr. Ranvijay, CSED

Dr. Shashank Srivastava, CSED

Student Coordinators

1. Mr. Naveen Kumar, CSED.
2. Mr. Brajesh Kumar Umrao, CSED.
3. Mr. Mahendra Pratap Yadav, CSED
4. Ms. Nisha Pal, CSED.
5. Mr. Ram Chandra Bhushan, CSED
6. Mr. Abdul Aleem, CSED
7. Mr. Manoj Kumar, CSED

ADDRESS FOR COMMUNICATION

Complete registration form should reach at the following address on or before 18th May, 2019. The contact details are:

Prof. D. K. Yadav (Mob: +91-9820839705)

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

Phone: 0532-2271361

E-mail: esad.mnnit@gmail.com

FOR ANY QUERY CONTACT:

Mr. Harishchandra Akarte, Department of C.S.E.
(Mob:+91-8554048883)

A self-financed summer training program

On

Enhancing Skill for Enterprise Scale Application Development ((ES)²AD)

From 7th June – 4th July, 2019

Organized by

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

REGISTRATION FORM

Name (in Block Letters) _____

Father/Mother/Guardian Name _____

Date of Birth _____ Gender: Male/Female/Transgender

Highest Qualification/Course Pursuing: _____

Organization: _____

AICTE Approved (Yes/No) _____

Designation (Faculty/Student/Industry Person) _____

Work Experience/Semester: _____

Correspondence Address: _____

City: _____ Pincode: _____

Mobile Number _____

E-mail _____

Accommodation needed Yes/No

Payment Details

D.D. Number: _____ Amount: _____ Date _____

Issuing Bank: _____

For NEFT: Transaction ID _____ Amount _____ Date: _____

Name of the Remitter _____

Date: _____

(Signature of Applicant)

***Seats are limited and will be given on FIRST COME FIRST**

SERVE BASIS without ANY TEST.