



**Sandip University, Nashik (MS), India**  
At Post Mahiravani, Trimbak Road, Nashik-422213, Maharashtra  
<https://www.sandipuniversity.edu.in>

## **School of Computer Science and Engineering (SOCSE)**

### **Department of CSE**

#### **Report of Expert Session on “Digital Literacy on C&C++”**

<b>Category of Event (Expert Lecture / Workshop / Symposium/Conference/Industry Visit)</b>	<b>: Expert Lecture</b>
<b>Title (Name of Event)</b>	<b>: “Digital Literacy on C&amp;C++”</b>
<b>Schedule (Date(s) and Time)</b>	<b>: 05/03/2026 &amp; 12pm to 1pm</b>
<b>Venue</b>	<b>: S BUILDING-C21</b>
<b>Duration</b>	<b>: One Hour.</b>
<b>Faculty Coordinator</b>	<b>:DR.RAIS ABDUL HAMID KHAN</b>
<b>Organizing Faculty</b>	<b>: DR.RAIS ABDUL HAMID KHAN</b>
<b>Expert Person</b>	<b>: DR. SIVARAM PONNUSAMY</b>
<b>Total Number of Participants</b>	<b>: 78</b>

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### About the activity

A special interactive Hands-on Expert Session on “Digital Literacy On C&C++” Conducted for Second Year CSE C & D Students by SOCSE, Sandip University, Nashik.

The session was conducted by **Dr.S.Ponnusamy**  
Event coordinator -**Dr. Rais Abdul Hamid Khan**

### Conclusion & Remarks

Expert Lecture on “Digital Literacy on C&C++” is a hands-on demonstrations and interactive discussions, the session enhanced student’s programming skills.

### Flyer:



**SANDIP UNIVERSITY** UGC Recognised | **NAAC GRADE A**

Academic Year 2025-26

**Digital Literacy on C & C++**  
SE - B.Tech. CSE Semester IV  
Organized by DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (SOCSE)

**EVENT**  
Digital Literacy on C & C++

**COURSE OBJECTIVES/OUTCOMES**

THE PRIMARY OBJECTIVES OF A COURSE IN C AND C++ PROGRAMMING ARE TO DEMONSTRATE THE COMPUTER'S INNER WORKINGS AND EQUIP STUDENTS WITH THE SKILLS TO WRITE EFFICIENT, STRUCTURED, AND RELIABLE SOFTWARE. BY THE END OF THE COURSE, STUDENTS SHOULD BE BUILDING A STRONG FOUNDATION FOR ADVANCED STUDIES IN SYSTEMS PROGRAMMING, OBJECT-ORIENTED DESIGN, AND SOFTWARE DEVELOPMENT.

UNDERSTAND FOUNDATIONAL CONCEPTS, GRASP HOW COMPUTERS PROCESS INFORMATION, THE ROLE OF OPERATING SYSTEMS, AND THE JOURNEY FROM SOURCE CODE TO EXECUTABLE PROGRAM THROUGH COMPILERS.

MASTER PROCEDURAL AND OOP TECHNIQUES, DEVELOP PROFICIENCY IN STRUCTURED PROGRAMMING WITH C AND TRANSITION TO OBJECT-ORIENTED PROGRAMMING (OOP) WITH C++, APPLYING CONCEPTS LIKE ENCAPSULATION, INHERITANCE, AND POLYMORPHISM.

DEVELOP PRACTICAL APPLICATION SKILLS, CREATE PROGRAMS TO SOLVE REAL-WORLD PROBLEMS, MANAGE SYSTEM RESOURCES EFFECTIVELY, AND DEBUG CODE USING PROFESSIONAL TOOLS.

PREPARE FOR ADVANCED STUDY, BUILD A SOLID FOUNDATION FOR FURTHER LEARNING IN DATA STRUCTURES, ALGORITHMS, EMBEDDED SYSTEMS, OR OTHER PROGRAMMING LANGUAGES BY LEVERAGING THE SKILLS ACQUIRED HEREIN.

**EVENT RESOURCE PERSON & COORDINATOR**  
Dr SIVARAM PONNUSAMY  
Dr RAIS KHAN

**9423488116**

**APPLICATION OF DIGITAL LITERACY**

- COURSE OUTCOMES**
- CORE PROGRAMMING FUNDAMENTALS
- EXPLAIN AND USE KEY PROGRAMMING CONCEPTS SUCH AS VARIABLES, FUNDAMENTAL DATA TYPES (INTEGERS, FLOATS, CHARACTERS), AND THE SCOPE AND LIFETIME OF VARIABLES.
- WRITE PROGRAMS USING PROPER SYNTAX, CONTROL STRUCTURES (LIKE IF/ELSE AND SWITCH STATEMENTS), AND LOOPS (FOR, WHILE) TO MANAGE PROGRAM FLOW.
- CREATE AND UTILIZE FUNCTIONS TO ORGANIZE CODE INTO LOGICAL, REUSABLE MODULES, APPLYING PRINCIPLES OF ABSTRACTION AND MODULAR DESIGN.
- INTERMEDIATE C PROGRAMMING CONCEPTS
- EFFICIENTLY USE ARRAYS AND POINTERS TO STORE, ACCESS, AND MANIPULATE DATA IN MEMORY, DEMONSTRATING AN UNDERSTANDING OF THEIR CLOSE RELATIONSHIP.
- MANIPULATE CHARACTER ARRAYS (C-STYLE STRINGS) AND PERFORM FILE INPUT/OUTPUT OPERATIONS FOR READING FROM AND WRITING TO TEXT FILES.
- IMPLEMENT AND USE BASIC DATA STRUCTURES LIKE STRUCTS (STRUCT TO GROUP RELATED DATA ITEMS).
- APPLY OBJECT-ORIENTED PROGRAMMING PRINCIPLES BY DEFINING AND USING CLASSES, CREATING OBJECTS, AND UNDERSTANDING ACCESS SPECIFIERS (PUBLIC, PRIVATE).
- MANAGE MEMORY EFFECTIVELY IN C++, UTILIZING DYNAMIC MEMORY ALLOCATION WITH NEW/DELETE OR SMART POINTERS FOR RESOURCE MANAGEMENT AND SAFE PROGRAMS.

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