

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI****COURSE PLAN (June - November 2026)**

**Department** : **Mathematics**  
**Name of the Faculty** : **Dr. Shanthi A S & Dr. Sindiya Therese S**  
**Course Title** : **PROGRAMMING IN C++ - PRACTICAL**  
**Course Code** : **25MT/ME/P111**  
**Shift** : **I**

**COURSE OUTCOMES (COs)**

| <b>Cos</b> | <b>Description</b>                                             | <b>CL</b> |
|------------|----------------------------------------------------------------|-----------|
| <b>CO1</b> | recall various concepts relating to languages and applications | 1         |
| <b>CO2</b> | understanding various functions and tools of C++               | 2         |
| <b>CO3</b> | apply appropriate tools to solve various problems              | 3         |
| <b>CO4</b> | analyse different techniques in programming                    | 4         |
| <b>CO5</b> | assess suitable areas of application                           | 5         |
|            |                                                                |           |

| Week                                      | Unit No.                  | Content                                                                                                                                | Cognitive Level | Teaching Hours | COs | Teaching Learning Methodology | Assessment Methods      |
|-------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|-----|-------------------------------|-------------------------|
| Jun 22, 2026<br>(Day Order 6)             | -                         | -                                                                                                                                      | -               | 0              | -   | -                             | -                       |
| Jun 23 – July 1, 2026<br>(Day Order 1- 6) | I                         | <b>Basics of C++</b><br>1.1 Debugging Simple C++ Programs<br>1.2 C++ Programs to Evaluate Simple Mathematical Expressions and Formulas | 1-5             | 2              | 1-5 | hands on training             | Questioning & slip test |
| July 2 – July 8, 2026<br>(Day Order 1- 6) | I                         | <b>Basics of C++</b><br>1.3 C++ Programs to illustrate the use of Expressions and Control Structures                                   | 1-5             | 2              | 1-5 | Mini Project                  | Questioning & slip test |
| July 9 – 16, 2026<br>(Day Order 1- 6)     | II                        | <b>Functions in C++</b><br>2.1 C++ Programs to illustrate the use of Functions                                                         | 1-5             | 2              | 1-5 | hands on training             | Questioning & slip test |
| July 17 – 24, 2026<br>(Day Order 1- 6)    | II                        | <b>Functions in C++</b><br>2.2 C++ Programs using Inline Functions and Recursion                                                       | 1-5             | 2              | 1-5 | hands on training             | Questioning & slip test |
| July 25 – 28, 2026<br>(Day Order 1- 3)    | II                        | <b>Functions in C++</b><br>2.3 C++ Programs using Math Library Functions                                                               | 1-5             | 2              | 1-5 | hands on training             | Questioning & slip test |
| July 29 – Aug 3, 2026                     | <b>C.A. Test – I (NA)</b> |                                                                                                                                        |                 |                |     |                               |                         |
| Aug 4 - 6, 2026<br>(Day Order 4 - 6)      | -                         | -                                                                                                                                      | -               | 0              | -   | -                             | -                       |

|                                              |                                      |                                                                                                                                              |     |   |     |                            |                                                                                         |
|----------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|---|-----|----------------------------|-----------------------------------------------------------------------------------------|
| Aug 7 – 14, 2026<br>(Day Order 1- 6)         | <b>III</b>                           | <b>Classes and Objects</b><br>3.1 C++ Programs depicting the use of Classes<br>3.2 C++ Programs using Member Functions                       | 1-5 | 2 | 1-5 | Mini Project               | <b>III<br/>Component<br/>part 1 – 15<br/>marks – Unit<br/>I- III<br/>Practical test</b> |
| Aug 17 - 24, 2026<br>(Day Order 1- 6)        | <b>III</b>                           | <b>Classes and Objects</b><br>3.3 C++ Programs for Arrays of Objects                                                                         | 1-5 | 2 | 1-5 | hands on<br>training       | Questioning<br>& slip test                                                              |
| Aug 25 – Sep 2,<br>2026<br>(Day Order 1- 6)  | <b>IV</b>                            | <b>Constructors and Destructors</b><br>4.1 C++ Programs using Constructor                                                                    | 1-5 | 2 | 1-5 | Industrial<br>applications | Questioning<br>& slip test                                                              |
| Sep 3 – 11, 2026<br>(Day Order 1- 6)         | <b>IV</b>                            | <b>Constructors and Destructors</b><br>4.2 C++ Programs for Constructing Two Dimensional<br>Arrays                                           | 1-5 | 2 | 1-5 | Mini Project               | Questioning<br>& slip test                                                              |
| Sep 15-17, 2026<br>(Day Order 1 - 3)         | <b>IV</b>                            | <b>Constructors and Destructors</b><br>4.3 C++ Programs using Destructors                                                                    | 1-5 | 2 | 1-5 | hands on<br>training       | Questioning<br>& slip test                                                              |
| Sep 18 –23, 2026                             | <b>C.A. Test – II (Units I - IV)</b> |                                                                                                                                              |     |   |     |                            |                                                                                         |
| Sep 24 - 28, 2026<br>(Day 4 – 6)             | -                                    | -                                                                                                                                            | -   | 0 | -   | -                          | -                                                                                       |
| Sep 29 – Oct 7,<br>2026<br>(Day Order 1 - 6) | <b>V</b>                             | <b>Pointers</b><br>5.1 C++ Programs illustrating the use of Arithmetic<br>Operations on Pointers<br>5.2 C++ Programs for Pointers and Arrays | 1-5 | 2 | 1-5 | Mini Project               | <b>III<br/>Component<br/>part 2 – 10<br/>marks - Unit<br/>V –Practical</b>              |

|                                       |                 |                                                                           |     |   |     |                      |                            |
|---------------------------------------|-----------------|---------------------------------------------------------------------------|-----|---|-----|----------------------|----------------------------|
|                                       |                 |                                                                           |     |   |     |                      | <b>test</b>                |
| Oct 8 - 14, 2026<br>(Day Order 1 - 6) | <b>V</b>        | <b>Pointers</b><br>5.3 C++ Programs for Pointers to Functions and Objects | 1-5 | 2 | 1-5 | hands on<br>training | Questioning<br>& slip test |
| Oct 15 - 21, 2026<br>(Day Order 1- 4) | <b>REVISION</b> |                                                                           |     |   |     |                      |                            |