



# ST FRANCIS DE SALES COLLEGE

Graded 'A' by NAAC || Affiliated to Bangalore University  
Electronics City Post, Bengaluru – 560 100 || [www.sfscollege.in](http://www.sfscollege.in)

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## Certificate Course Report 2020-2021

**Title of the Course:** Six Sigma

**Sub Topics:** Decision Making with /Without Six Sigma

**Date of Commencement:** 22.2.2021/20.3.2021

**Course Facilitator:** Prof. Mangayarkarasi, Prof. Geetha P.S, Prof. Ashwini

### Course Objectives:

- The participants will receive an introduction to the tools and techniques used to identify and eliminate defects and wastes.
- This course will enable the students to gain an understanding on the basic structure of DMAIC (Design, Measure, Analyze, Improve, and Control).

### Course Structure:

Six Sigma ( $6\sigma$ ) is a set of techniques and tools for process improvement. Six Sigma course was introduced to make students understand and learn about the techniques such as lack of support, lack of resources or knowledge, data access issues, poor project execution, quality control techniques and TQM principles. Development of statistical process control, continuous process improvement, Toyota & lean production, Motorola's focus on defect, ABB, allied signal and general - electric usage of six sigma and its implications, continues growth of six sigma, types of certifications of six sigma (white belt, yellow belt, green belt, black belt).

### Assessment Scheme

| Module – I       | Module – II      | Module - III     |
|------------------|------------------|------------------|
| Class Videos – 7 | Class Videos - 7 | Class Videos - 7 |
| Assignment – 2   | Assignment – 2   | Assignment – 2   |
| Online Quiz – 1  | Online Quiz - 1  | Online Quiz - 1  |

| Sl. NO. | Activities                             | Marks            |
|---------|--|------------------|
| 1       | Attendance                             | 75% compulsory   |
| 2       | Assignments                            | 10 marks         |
| 3       | Quiz all 3 Modules                     | 20 marks         |
| 4       | <b>Total Internal Examination</b>      | <b>30 marks</b>  |
| 5       | <b>Final Examination - Online Quiz</b> | <b>70 marks</b>  |
| 6       | <b>Overall Marks (30+70)</b>           | <b>100 marks</b> |

- The students should be informed about the modalities well in advance.
- A student attend 75% of the class will be eligible for writing examination.
- After completing Module, I, II and III of syllabus, assignment and quiz shall be given to understand the learning level of students.
- After completion of 100% syllabus a theory exam for 70 marks as external exam shall be conducted by the facilitator.
- The students attend both the internal and external exam and score 40% marks shall be considered for the course completion certificates.
- If a student fails or absent for the exam shall reappear the exam within the allotted time to complete the program.

### Course Delivery:

Six Sigma the certificate course, started on 22<sup>nd</sup> February 2021 to 20<sup>th</sup> March 2021. Prof. Mangayarkarasi, Prof. Geetha P.S, Prof. Ashwini, was the course facilitators. The course duration was 30 hours and it was conducted in online platform with the help of google classroom and G-

meet. Nearly 378 students enrolled for this course and 365 completed the course by the month of March successfully.

**Outcomes:**

- Nearly 378 students enrolled for this course and 365 completed the course by the end of March successfully. Their theoretical understanding and practical experience were systematically assessed after completing all the components of the course structure.
- Global Recognition – A job profile having Six Sigma certification is valued by business organizations all over the world.
- Uplift Career - Having a Six Sigma certification multiplies their job profile, and helps them be recognized and hired for an excellent job.

  
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