



# **SATHYABAMA**

**INSTITUTE OF SCIENCE & TECHNOLOGY**

**(DEEMED TO BE UNIVERSITY)**

**JEPPIAAR NAGAR, CHENNAI – 600119**

**[www.sathyabama.ac.in](http://www.sathyabama.ac.in)**

**SCHOOL OF MECHANICAL ENGINEERING  
DEPARTMENT OF MECHANICAL ENGINEERING**

*Organizes 3 Week Technical Training Programme on*

# **Non-Destructive Testing (NDT)**

**20<sup>th</sup> August to 7<sup>th</sup> September 2018**

**Following Fundamental Topics will be covered  
including Hands on Training:**

- |                              |                                  |
|------------------------------|----------------------------------|
| » Introduction to NDT        | » Rheology                       |
| » Typical Failure Mechanisms | » Viscosity Measurement          |
| » Fracture Mechanics         | » Different Types of NDT Methods |

**OPEN TO ALL STUDENTS OF  
SCHOOL OF MECHANICAL ENGINEERING**

**For more details and Registrations Contact:**

**Mr.S.LAKSHMISANKAR**

**Assistant Professor**

**Department of Mechanical Engineering**

**Mob: 97908 41997**

**[www.sathyabama.ac.in](http://www.sathyabama.ac.in)**

## NON-DESTRUCTIVE TESTING

### Course Objectives:

The main objectives of this course is to introduce the concept of non-destructive testing among the students and make them understand various types of non-traditional practices available for manufacturing industry.

### Course Outcomes

#### Student must be able to

select an appropriate NDT technique as per requirement.

set various process parameters and control the NDT process for the desired output parameters.

find the internal flaws in the material by NDT and take measures to eliminate them.

solve various problems encountered like leakage, cracks, blowholes etc with the manufacturing process by analyzing the data.

make use of modern tools and software for analyzing and solving real life problems.

introduce environmental friendly solutions to achieve organizational sustainability.

### COURSE CONTENTS:

| Module | Topics                                                                                                                                                                                                                 | Name of the Faculty | No of Sessions | Venue        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|--------------|
| 1      | Radiography: Principle of radiography, types of radiography, equipments for neutron radiography, x-ray radiography, equipments for x-ray radiography, advantages and applications of fluoroscopy and photo fluoroscopy | Mr.S.Lakshmisankar  | 5 hrs          | Seminar Hall |



|   |                                                                                                                                                                                                                                                                                                                                        |                    |        |              |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|--------------|
| 2 | Electromagnetic methods: Principle of electromagnetic testing, mathematical analysis, flaw detection in conductors, various types' of instruments used and advantages of various electromagnetic methods for crack detection etc.                                                                                                      | Mr.S.Lakshmisankar | 5 hrss | Seminar Hall |
| 3 | Ultrasonic methods: Principle of ultrasonic testing, generation of ultrasonic waves, equipment details for ultrasonic checking, methods of wave propagation, methods of flaw detection, various methods of ultrasonic testing, advantages of ultrasonic methods for flaw detection and crack location                                  | Mr.S.Lakshmisankar | 5 hrs  | Seminar Hall |
| 4 | Holography: Principle of holography, method of holographic recording, method of holographic reconstruction, advantages of this technique and applications of holographic methods for non-destructive testing.                                                                                                                          | Mr.S.Lakshmisankar | 5 hrs  | Seminar Hall |
| 5 | Liquid penetrant testing: Principle of liquid penetrates testing, types of dyes and penetrants used in this testing technique and application of liquids for detecting sub-surface defects.                                                                                                                                            | Mr.S.Lakshmisankar | 5 hrs  | Seminar Hall |
| 6 | Magnetic particle testing: Principles of magnetic particle testing, details of equipments used and methods of crack detection by magnetic particle testing<br>Hardness testing: Brinnel hardness testing, Rockwell hardness tests, shore hardness testing, Vicker hardness testing and theory behind various hardness testing methods. | Mr.S.Lakshmisankar | 5 hrs  | Seminar Hall |

**Course Coordinantor**

**Mr.S.LAKSHMISANKAR**

**Assistant Professor**

**Department of Mechanical Engineering**

**SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY**  
**DEPARTMENT OF MECHANICAL ENGINEERING, CHENNAI – 600119**

# ATTENDANCE SHEET

[illegible]



|    |         |                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---------|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 | 3615135 | LINGAMPALLY SAI KUMAR     | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P |
| 35 | 3615136 | LOGESH. S                 | P | P | P | P | P | P | P | P | A | P | P | P | P | P | P |
| 36 | 3615141 | MADHUBALAN. G             | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 37 | 3615142 | MANIKANDAN. G             | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 38 | 3615143 | MANIKANTA SATISH KUMAR. P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 39 | 3615144 | MANOHAR MAHATO            | P | P | P | P | A | P | P | P | P | P | A | P | P | P | P |
| 40 | 3615146 | MANOJPRASAD KALAI SELVAN  | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 41 | 3615147 | MARIA JAMES. I            | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 42 | 3615165 | MUDDARAPU JASWANTH REDDY  | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 43 | 3615166 | MUKESH KUMAR. S           | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P |
| 44 | 3615167 | MUNI SAI PREETHAM         | P | P | P | P | P | A | P | P | P | P | P | P | P | P | P |
| 45 | 3615172 | NALI ROHIT                | P | P | P | P | P | P | P | P | A | P | P | P | P | P | P |
| 46 | 3615173 | NALI SAI RAKESH           | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |

*S. Lakshmi S.*

**Course Coordinator**

*G. Arun Kumar*  
(G. Arun Kumar)

HEAD OF THE DEPARTMENT  
DEPARTMENT OF MECHANICAL ENGINEERING  
**SATHYABAMA**  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
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Jeppiaar Nagar, Rajiv Gandhi Salai,  
Chennai - 600 119

**HOD (Mechanical Engg.)**



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20<sup>th</sup> August to 7<sup>th</sup> September 2018

## PARTICIPATION CERTIFICATE

This is to certify that Mr. Adharsh Radhakrishnan of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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Science and Technology, Chennai from 20<sup>th</sup> August to 7<sup>th</sup> September 2018.

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This is to certify that Mr. Aditya Viswanathan Pillai of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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This is to certify that Mr. ADRIAN. M of 3<sup>rd</sup> Year

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This is to certify that Mr. ADRINATH. J. S of 3<sup>rd</sup> Year

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This is to certify that Mr. AJAI SUDARSAN. S of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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This is to certify that Mr. Harish Kumarreddy Avula of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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This is to certify that Mr. Baisani Sudheer of 3<sup>rd</sup> Year

Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**

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This is to certify that Mr. BALAJI.A of 3<sup>rd</sup> Year

Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING (NDT)** organized by the Department of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai from 20<sup>th</sup> August to 7<sup>th</sup> September 2018.

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This is to certify that Mr. Viswakanth Bandaru of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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This is to certify that Mr. Bandi Vedaraj Goud of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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This is to certify that Mr. Bandlamuri Mahesh of 3<sup>rd</sup> Year  
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This is to certify that Mr. Baratam Sirish Mohan of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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This is to certify that Mr. Lokeswar Reddy Capati of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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This is to certify that Mr. Charan Raaj of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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This is to certify that Mr. Charlapally Shashank Sharma of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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This is to certify that Mr. Kashyap Chilakamarri of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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## PARTICIPATION CERTIFICATE

This is to certify that Mr. Desalanka Durga Sairam of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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This is to certify that Mr. Desu Ajay Kumar of 3<sup>rd</sup> Year  
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This is to certify that Mr. DHILIP KUMAR. R of 3<sup>rd</sup> Year

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This is to certify that Mr. Dinesh Cg of 3<sup>rd</sup> Year

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This is to certify that Mr. Divaakar S of 3<sup>rd</sup> Year  
Mechanical has attended the Training Programme on **NON-DESTRUCTIVE TESTING**  
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*Organizes Training Program on*

**DRAFTING AND MODELLING USING**



**17<sup>th</sup> September to 5<sup>th</sup> October 2018**

**Course Contents:**

- ◆ Solidworks Essentials
- ◆ Practice with Interface & Tools
- ◆ Part Modelling
- ◆ Assembly Modelling
- ◆ Surface Modelling

**For Registrations Contact:**

**Mr.J.JEYAJEEVAHAN**

**Assistant Professor**

**Department of Mechanical Engineering**

**Mob: 91769 01505**

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## **DRAFTING AND MODELLING USING SOLIDWORKS**

### **Course outline**

By completing this certificate students learn how to use Computer Aided Design (CAD) software to create 2D and 3D models and designs. Students develop competency in CAD software that is used in a variety of industries and occupations, including floor plans, mechanical drawings, technical drawings, engineering design, and other projects. The courses in this certificate build skill-sets that are in high demand in today's job market and can be used to reach career and/or academic goals. This certificate can provide students who are looking for employment the experience they need to stand out from the crowd. Students who are already employed discover that keeping up with the latest changes in CAD software increases their chances of career advancement.

### **Course Outcomes**

Upon successful completion of this course, students should be able to meet the program outcomes listed below:

- A. Effectively communicate technical ideas and problem- solving decisions with others.
- B. Demonstrate knowledge, techniques, skills, and use of the appropriate tool in mechanical design applications.
- C. Apply math, science, and engineering technology principles to solve problems in mechanical design.
- D. Use creativity in the design of mechanical components and systems.
- E. Recognize problems in mechanical design applications and develop appropriate solutions.
- F. Work productively as an individual and as a team member of a problem - solving team in an engineering environment.
- G. Recognize the need to stay current in the mechanical design career field.
- H. Demonstrate professional and ethical behavior.

## Student Learning Outcomes

1. Proficiently use AutoCAD technology to produce drawings at professional industry standards.
2. Draw engineering parts and assemblies proficiently using SOLIDWORKS.
3. Apply dimensioning and tolerance techniques in drawings and in an assembly.
4. Develop professional drawings for machining and assembling including title blocks.

## COURSE CONTENTS

| Module | Topics                                                                                                                                                                                                                                                                                                                                                                                 | Name of the Faculty | No of Sessions | Venue        |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|--------------|
| 1      | Various products available in SolidWorks for Product Design & Assembly modelling. SolidWorks Graphical User Interface - Feature manager design tree, Callouts, Handles, Confirmation corner, mouse buttons, keyboard shortcuts, Command Manager, Hardware and Software requirements.                                                                                                   | Mr.J.Jeyajeevahan   | 3 hrs          | Seminar Hall |
| 2      | Sketch Entities – Inference line, Centerline line, Line, Circle, Arc, Ellipse, Rectangle, Slots, Polygon, Ellipse, Partial Ellipse, Spline, Points, Text, Construction geometry ,                                                                                                                                                                                                      | Mr.J.Jeyajeevahan   | 3 hrs          | Seminar Hall |
| 3      | Sketch Tools - Fillet, Chamfer, Offset, Convert entities, Trim, Extend , Mirror, Dynamic Mirror, Move, Copy, Rotate, Scale, Stretch, Sketch pattern Close Sketch To Model, Sketch picture, Relations - Adding Sketch Relation, Automatic relations, Dimensioning - Smart, Horizontal, Vertical, Ordinate, Horizontal ordinate, Vertical ordinate, Align ordinate, Fully define sketch. | Mr.J.Jeyajeevahan   | 3 hrs          | Seminar Hall |
| 4      | Part Modeling Tools, Creating reference planes Creating Extrude features – Direction1, Direction2, From option, Thin feature, Applying draft, Selecting contours Creating Revolve                                                                                                                                                                                                      | Mr.J.Jeyajeevahan   | 3 hrs          | Seminar Hall |

|    |                                                                                                                                                                                                                           |                   |       |              |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------|--------------|
|    | features – Selecting Axis, Thin features, Selecting contours Creating Swept features-Selecting Profile and Path .                                                                                                         |                   |       |              |
| 5  | Creating Loft features – Selecting Profiles, Guide curves. Selecting geometries – Selection Manager, Multiple Body concepts Creating Reference - points, axis, coordinates                                                | Mr.J.Jeyajeevahan | 3 hrs | Seminar Hall |
| 6  | Creating curves - Split curve, Project curve, Composite curve, Curve through points, Helix and Spiral Creating Fillet features, Inserting Hole types                                                                      | Mr.J.Jeyajeevahan | 3 hrs | Seminar Hall |
| 7  | Creating Chamfer, Creating Shell, Creating Rib, Creating Pattern - Linear pattern, Circular pattern, Sketch driven pattern, Curve driven pattern, Fill pattern, mirror                                                    | Mr.J.Jeyajeevahan | 3 hrs | Seminar Hall |
| 8  | Environment & Utilities - Working with views and manipulating views, Trouble shooting                                                                                                                                     | Mr.J.Jeyajeevahan | 3 hrs | Seminar Hall |
| 9  | Assembly Modeling Tools<br>Introduction to Assembly Modeling & Approaches – Top down and Bottom up approach Applying Standard Mates- Coincident, Parallel, Perpendicular, Tangent, Concentric, Lock, Distance, and Angle. | Mr.J.Jeyajeevahan | 3 hrs | Seminar Hall |
| 10 | Applying Advanced Mates – Symmetric, Width, Path Mate, Linear/Linear Coupler, Limit mate. Applying Mechanical Mates – Cam, Hinge, Gear, Rack Pinion, Screw, Universal Joint.                                              | Mr.J.Jeyajeevahan | 3 hrs | Seminar Hall |

**Course Coordinator**

**Mr.J.JEYAJEEVAHAN**

**Assistant Professor**

**Department of Mechanical Engineering**

**Mob: 91769 01505**



**SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY****DEPARTMENT OF MECHANICAL ENGINEERING**

CHENNAI – 600119.

**ATTENDANCE LIST**

| <b>S.No.</b> | <b>Register No.</b> | <b>Name of the Student</b>    | 17-09-2018 | 18-09-2018 | 19-09-2018 | 20-09-2018 | 21-09-2018 | 24-09-2018 | 25-09-2018 | 26-09-2018 | 27-09-2018 | 28-09-2018 | 01-10-2018 | 03-10-2018 | 04-10-2018 | 05-10-2018 |
|--------------|---------------------|-------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>1</b>     | 3615021             | ANTONY JACKWIN. J             | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| <b>2</b>     | 3615023             | ARAVIND SRI KRISHNA. B. R. S. | P          | A          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| <b>3</b>     | 3615025             | ARNAB MALLIK                  | P          | P          | P          | P          | A          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| <b>4</b>     | 3615031             | ASHISH KUMAR TIWARI           | P          | P          | A          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| <b>5</b>     | 3615034             | BALACHANDAR. R                | P          | P          | P          | P          | A          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| <b>6</b>     | 3615035             | BALACHANDAR. V                | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| <b>7</b>     | 3615037             | BANREDDY SATHISHKUMARREDDY    | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| <b>8</b>     | 3615038             | BAVISETTI VENKATA KISHOR BABU | P          | P          | P          | P          | A          | P          | A          | P          | P          | P          | P          | P          | P          | P          |
| <b>9</b>     | 3615039             | BHARADWAJ PARUVADA            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| <b>10</b>    | 3615040             | BHARADWAJ SRIHARI             | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| <b>11</b>    | 3615041             | BHARATH. K                    | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | A          | P          | P          |
| <b>12</b>    | 3615043             | BHUMIREDDY SREEDHAR REDDY     | P          | P          | P          | P          | P          | P          | A          | P          | P          | P          | P          | P          | P          | P          |
| <b>13</b>    | 3615044             | BOBBITI VIKAS REDDY           | P          | P          | P          | P          | P          | P          | P          | P          | A          | P          | P          | P          | P          | P          |
| <b>14</b>    | 3615059             | CHITTAMURU NIKHIL             | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | A          | P          | A          | P          |



|    |         |                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---------|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 | 3615164 | MORLA NARENDRA KUMAR                 | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 35 | 3615165 | MUDDARAPU JASWANTH REDDY             | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 36 | 3615166 | MUKESH KUMAR. S                      | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 37 | 3615167 | MUNI SAI PREETHAM                    | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 38 | 3615169 | MUTHUKUMAR. S                        | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 39 | 3615170 | MYNAMPATI BALASUBRAMANYAM            | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 40 | 3615171 | NAIR AKHIL AJAYKUMAR                 | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 41 | 3615172 | NALI ROHIT                           | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 42 | 3615173 | NALI SAI RAKESH                      | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 43 | 3615174 | NALLAMILLI JNANA SAI VAMSIDHAR REDDY | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 44 | 3615175 | NAMA SAITEJA                         | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 45 | 3615193 | PESALA SAI MANOJ                     | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 46 | 3615194 | PETLA RAMA NARASIMHAM                | P | P | P | P | P | P | P | P | P | P | P | P | P | P |

  
(G. Arun Kumar)

HEAD OF THE DEPARTMENT  
DEPARTMENT OF MECHANICAL ENGINEERING  
**SATHYABAMA**  
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Jeppiaar Nagar, Rajiv Gandhi Salai,  
Chennai - 600 119



Course Coordinator

HOD (Mechanical Engg.)



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**17<sup>th</sup> SEPTEMBER to 5<sup>th</sup> OCTOBER 2018**

## PARTICIPATION CERTIFICATE

This is to certify that Mr.ADHARSH. A of 3rd Year  
Mechanical has attended the Training Programme on **DRAFTING AND MODELLING**  
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This is to certify that Mr. AKSHAY SETHU of 3rd Year  
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This is to certify that Mr. AMAN. N of 3rd Year  
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This is to certify that Mr. AMARJIT ROY of 3rd Year  
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This is to certify that Mr. BOYAPALLE RAKESH KUMAR REDDY of 3rd Year  
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This is to certify that Mr. CHALLA APPARAO of 3rd Year  
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This is to certify that Mr. CHIMAKURTHY VENKATA SUBRAMANYAM of 3rd Year  
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This is to certify that Mr. DHATCHINAMOORTHY. R of 3rd Year  
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This is to certify that Mr. DHEEBAN. S of 3rd Year  
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This is to certify that Mr. DINESH. R of 3rd Year  
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This is to certify that Mr. ELAVENDHAN. E of 3rd Year  
Mechanical has attended the Training Programme on **DRAFTING AND MODELLING**  
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This is to certify that Mr. GADIKOTA YASWANTH REDDY of 3rd Year  
Mechanical has attended the Training Programme on **DRAFTING AND MODELLING**  
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Sathyabama Institute of Science and Technology, Chennai from 17<sup>th</sup> September to 5<sup>th</sup>  
October 2018.

**Dr.G.ARUNKUMAR**  
**HOD MECHANICAL**

**Dr.S.PRAKASH**  
**DEAN MECHANICAL**





# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY  
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**17<sup>th</sup> SEPTEMBER to 5<sup>th</sup> OCTOBER 2018**

## PARTICIPATION CERTIFICATE

This is to certify that Mr. JAYA PRAKASH. A of 3rd Year  
Mechanical has attended the Training Programme on **DRAFTING AND MODELLING**  
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## PARTICIPATION CERTIFICATE

This is to certify that Mr. JONES MARTIN. J of 3rd Year  
Mechanical has attended the Training Programme on **DRAFTING AND MODELLING**  
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## PARTICIPATION CERTIFICATE

This is to certify that Mr. JOSEPH AMRISH LOBO. N of 3rd Year  
Mechanical has attended the Training Programme on **DRAFTING AND MODELLING**  
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This is to certify that Mr. JUVVANTHULA VENKATA SRIDHAR REDDY of 3rd Year  
Mechanical has attended the Training Programme on **DRAFTING AND MODELLING**  
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This is to certify that Mr. KANAKALA NARASIMHA MURTHY of 3rd Year  
Mechanical has attended the Training Programme on **DRAFTING AND MODELLING**  
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Organizes a 3 Week Exhaustive Training on

### **ANALYSIS OF ENGINE PERFORMANCE AND EMISSION TESTING**

**28<sup>th</sup> January to 15<sup>th</sup> February 2019**

#### **Course Modules:**

- » Study of combustion with different fuel blends
- » Study of pressure volume plot and indicated power
- » IP, IMEP, FP indication, combustion analysis
- » Study of BTE and SFC
- » Compression ratio
- » Injection Timing
- » Injection Pressure
- » Emission Analysis
- » Smoke Density



**OPEN TO ALL STUDENTS OF SCHOOL OF MECHANICAL ENGINEERING**

**(Registrations will be on a First Come First Serve basis)**

**For more details and Registrations Contact:**

**Dr.J.Hemanandh**

**Assistant Professor**

**Department of Mechanical Engineering**

**Mob: 94441 67753**

**Dr.J.Jayaprabakar**

**Associate Professor**

**Department of Mechanical Engineering**

**Mob: 99940 69306**

**VALUE ADDED COURSE**  
**ON**  
**Analysis of Engine performance and Emission Testing**  
**COURSE CONTENTS**

**Course Outcome**

On successful completion of this course students will be able to:

- 1 Describe available resources for plant-based biodiesel production
- 2 Describe the productions methods for Biodiesel -Transesterification
- 3 Compare the prepared biodiesel's Properties with ASTM Standards
- 4 Demonstrate the Biodiesel fuel properties Testing.
- 5 Demonstrate the biodiesel production through pilot study
- 6 Conduct Engine study using biodiesel blends

| Module | Topics                                                                                                                                                                                                                                                                                                                                  | Name of the Faculty | No of Sessions | Venue        |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|--------------|
| 1      | <b>Overview of biofuels</b> <ul style="list-style-type: none"><li>• What are biofuels</li><li>• Different types of biofuels including ethanol, biodiesel, biogas and sustainable aviation fuels.</li><li>• How biofuels are being used around the world</li><li>• Biofuel mandates and regulations Sustainability of biofuels</li></ul> | Dr.J.Hemanandh      | 3 hrs          | Seminar Hall |
| 2      | <b>Production of biofuels</b> <ul style="list-style-type: none"><li>• Biodiesel production</li><li>• Different types of feedstock</li><li>• Key technologies ,Costs of producing biofuels</li></ul>                                                                                                                                     | Dr.J.Hemanandh      | 3 hrs          | Seminar Hall |
| 3      | <b>Characterisation</b> <ul style="list-style-type: none"><li>• Acid and Alkaline trans esterification</li></ul>                                                                                                                                                                                                                        | Dr.J.Hemanandh      | 3 hrs          | Seminar Hall |



|   |                                                                                                                                                                                                                                                                                                                                                         |                   |        |              |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|--------------|
|   | <ul style="list-style-type: none"> <li>Fuel properties testing as per ASTM Standards</li> <li>GC-MS Chromatography</li> </ul>                                                                                                                                                                                                                           |                   |        |              |
| 4 | <b>Practical Training</b> <ul style="list-style-type: none"> <li>After the presentations, the practical demonstration of following shall be made.</li> <li>Determination of fatty acid content</li> <li>Biodiesel production process</li> <li>Separation process</li> <li>Glycerol recovery</li> <li>Methanol</li> <li>Fuel Property Testing</li> </ul> | Dr.J.Jayaprabakar | 10 hrs | Seminar Hall |
| 5 | <b>Engine Testing</b> <ul style="list-style-type: none"> <li>Blend Preparation using Ultra sonication</li> <li>Performance, Combustion and Emission analysis</li> </ul>                                                                                                                                                                                 | Dr.J.Jayaprabakar | 11 hrs | Seminar Hall |

Course Coordinators

**Dr.J.Hemanandh**  
**Assistant Professor**  
**Department of Mechanical Engineering**  
**Mob: 94441 67753**

**Dr.J.Jayaprabakar**  
**Associate Professor**  
**Department of Mechanical Engineering**  
**Mob: 99940 69306**

## ATTENDANCE LIST

[illegible]



[illegible]



|    |         |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 51 | 3515323 | Ruperao Rahul Varma     | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 52 | 3515326 | Sairam Kare             | P | P | P | P | P | P | P | P | P | P | P | A | P | P | P |
| 53 | 3515327 | Nuthalapati Sai Sandeep | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 54 | 3515328 | Sravan Saikumar Samsani | P | P | P | P | P | P | P | A | P | P | P | P | P | P | P |
| 55 | 3515329 | Sanepu Naga Ravi Teja   | P | P | P | P | P | P | P | P | P | P | P | P | A | P | P |



**Course Coordinator**



(G. Arun Kumar)

HEAD OF THE DEPARTMENT  
DEPARTMENT OF MECHANICAL ENGINEERING  
**SATHYABAMA**  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
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Jeppiaar Nagar, Rajiv Gandhi Salai,  
Chennai - 600 119

**HOD (Mechanical Engg.)**



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**28<sup>th</sup> January to 15<sup>th</sup> February 2019**

# PARTICIPATION CERTIFICATE

This is to certify that **Mr. ANTONY JACKWIN. J** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai from  
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This is to certify that **Mr. ARAVIND SRI KRISHNA. B. R. S** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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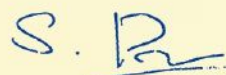
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This is to certify that **Mr. ARNAB MALLIK** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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This is to certify that **Mr. ASHISH KUMAR TIWARI** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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This is to certify that **Mr. BALACHANDAR. R** of  
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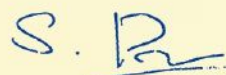
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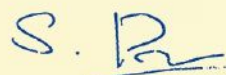
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This is to certify that **Mr.BANREDDY SATHISHKUMARREDDY** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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This is to certify that **Mr. BAVISETTI VENKATA KISHOR BABU** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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This is to certify that **Mr. BHARADWAJ SRIHARI** of  
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This is to certify that **Mr. BHARADWAJ PARUVADA** of  
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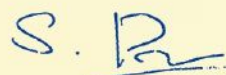
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**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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## **ANALYSIS OF ENGINE PERFORMANCE AND EMISSION TESTING**

**28<sup>th</sup> January to 15<sup>th</sup> February 2019**

# PARTICIPATION CERTIFICATE

This is to certify that **Mr. DEERAJ. B** of

**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF ENGINE PERFORMANCE AND EMISSION TESTING** organized by the Department of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai from 28<sup>th</sup> January to 15<sup>th</sup> February 2019.

**Dr.G.ARUNKUMAR**  
**HOD MECHANICAL**

**Dr.S.PRAKASH**  
**DEAN MECHANICAL**





# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)

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This is to certify that **Mr.DEVARAPALLI SATISH** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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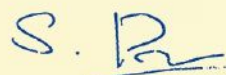
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**28<sup>th</sup> January to 15<sup>th</sup> February 2019**

# PARTICIPATION CERTIFICATE

This is to certify that **Mr.DHATCHINAMOORTHY. R** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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This is to certify that **Mr. JUTUR VENKATA PRASAD** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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# PARTICIPATION CERTIFICATE

This is to certify that **Mr. JUVVANTHULA VENKATA SRIDHAR REDDY** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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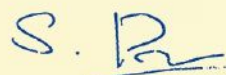
## **ANALYSIS OF ENGINE PERFORMANCE AND EMISSION TESTING**

**28<sup>th</sup> January to 15<sup>th</sup> February 2019**

# PARTICIPATION CERTIFICATE

This is to certify that **Mr. MYNAMPATI BALASUBRAMANYAM** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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# PARTICIPATION CERTIFICATE

This is to certify that **Mr. NALI SAI RAKESH** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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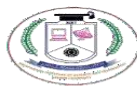
**28<sup>th</sup> January to 15<sup>th</sup> February 2019**

# PARTICIPATION CERTIFICATE

This is to certify that **Mr. NALLAMILLI JNANA SAI VAMSIDHAR REDDY** of  
**4th Year Mechanical** has attended the 3 week Training Programme on **ANALYSIS OF  
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**SCHOOL OF SCIENCE AND HUMANITIES**

**DEPARTMENT OF ENGLISH**

**Organizes**

**ENGLISH FOR EFFECTIVE COMMUNICATION -VALUE ADDED COURSE**



**COURSE SCHEDULE:** 30 DAYS MODULE

**DATE OF COMMENCEMENT:** 16<sup>th</sup> SEPT TO 21<sup>st</sup> OCT 2019

**VENUE :** COMPUTER LAB

**HIGHLIGHTS**

- ☐ IMPROVE THE COMMUNICATIVE COMPETENCE OF LEARNER
- ☐ BUILD ON STUDENTS ENGLISH LANGUAGE SKILLS

**CHIEF PATRONS**

DR.MARIA ZEENA JOHNSON,CHANCELLOR

DR.MARIA JOHNSON,PRESIDENT

DR.S.S.RAO,REGISTRAR

**DR.MERCYGNANA GANDHI**  
**CONVENOR**

**PATRONS**

DR.T.SASIPRABA,VICE CHANCELLOR

DR.E.LOGASHANMUGAM,PRO-VICE CHANCELLOR

DR.G.SUNDARI,DIRECTOR OF ADMINISTRATION

**DR.J.AMUTHA MONICA**  
**CO -CONVENOR**



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## SCIENCE AND HUMANITIES

### DEPARTMENT OF ENGLISH

**YEAR: 2019      MODULE TOPIC: English for Effective Communication      Sem II**

| DAY   | COURSE TOPICS                                                            | HOURS NEEDED |
|-------|--------------------------------------------------------------------------|--------------|
| 1     | Identifying things                                                       | 1            |
| 2     | Differentiating Singular/ Plural                                         | 1            |
| 3-4   | Identifying Parts of Speech 1                                            | 2            |
| 5-6   | Identifying Parts of Speech 2                                            | 2            |
| 7     | Understanding Comparative degree                                         | 1            |
| 8     | Receiving/Inviting people                                                | 1            |
| 9     | Writing Business Letters                                                 | 1            |
| 10    | Writing Business Letters                                                 | 1            |
| 11    | Enquiring information/routes                                             | 1            |
| 12    | Enquiring names/profession                                               | 1            |
| 13-14 | Writing after observation                                                | 2            |
| 15    | Matching objects                                                         | 1            |
| 16-17 | Identifying Relationship                                                 | 2            |
| 18    | Reading and Recalling                                                    | 1            |
| 19    | Identifying Advertisements                                               | 1            |
| 20    | Giving Titles to Video Clippings                                         | 1            |
| 21    | Identifying Proverbs for Images                                          | 1            |
| 22    | Writing captions for Videos                                              | 1            |
| 23    | Filling the blanks for Visual scenes                                     | 1            |
| 24-25 | Solving Vocabulary puzzles                                               | 2            |
| 26-28 | Reading, listening, speaking, writing and their subskills                | 3            |
| 29-30 | features of spoken and written texts, e.g. layout, accuracy, fluency etc | 2            |

**DATE: 02/12/2019 to 10/01/2020**

**TIME: 3:30pm to 4:30pm**

**FACULTY HANDLING: Mr. Senthil**

*S. Heray Kumar Candli.*

HOD  
Department of English  
Sathyabama Institute of Science  
& Technology

**HOD SIGNATURE**





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## Learning Outcomes Value Added course

With diligent effort on their part, students will:

- Recognize communication as a process of identifying, analyzing, evaluating, and constructing our social world.
- Analyse us to create and maintain relationships, it helps us participate incivic activities in our community.
- Evaluate strong communication skills allow us to advance in our careers.
- Evaluate the communication influences all aspects of our public andprivate lives.
- Evaluate communication theory.
- Critically evaluate about communication processes and messages.
- Analyse effectively for a variety of contexts and audiences. Interact skillfully andethically.

*S. Heray Kumar Candhi.*

HOD  
Department of English  
Sathyabama Institute of Science  
& Technology

HOD OF THE DEPARTMENT

## A 30 - DAY VALUE ADDED COURSE

|       |                                   | 1          | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     | 13     | 14     | 15     | 16     | 17     | 18     | 19     | 20     | 21     | 22     | 23     | 24     | 25     | 26     | 27     | 28     | 29     | 30 |
|-------|-----------------------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
|       | Dates                             | 16-09-2019 | Sep-19 | Sep-19 | Sep-19 | Sep-19 | Sep-19 | Sep-19 | Sep-19 | Sep-19 | Sep-19 | Sep-19 | Sep-19 | Sep-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 | Oct-19 |    |
| S.NO. | NAMES                             |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |    |
| 1     | GUDURI RAVI KIRAN                 | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 2     | GUMMADAPU HARSHITHA HARINDRA      | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 3     | GUNA SEKHAR REDDY                 | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 4     | GUNDA OM SAI                      | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 5     | GUNDLAPUDI SURYA TEJA             | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 6     | GUNUPUDI TARUN KUMAR              | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 7     | GURRAM SREE BALAJI                | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 8     | GUTTALA BINDU POOJITHA            | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 9     | HARI PRASAD. B                    | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 10    | HARIMANISH. K                     | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 11    | HARISH. J. K                      | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 12    | HARSHITHA                         | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 13    | HEAVENA AMIRDA. D                 | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 14    | HEELIA. G                         | P          | P      | P      | AB     | AB     | AB     | AB     | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     |    |
| 15    | IMMADI SURYA GANGADHAR            | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 16    | IMMADISETTY JAYASURYA             | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 17    | IMMANUEL. B                       | AB         | AB     | AB     | AB     | AB     | AB     | AB     | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 18    | INTURI BHANU PRATHAP REDDY        | AB         | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | P      | P      | P      | P      |    |
| 19    | INTURI VISHNU VARDHAN REDDY       | AB         | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 20    | IRIS SHERLINE GLADIS. J           | AB         | P      | P      | P      | P      | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | P      | P      | P      | P      | P      | P      | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     |    |
| 21    | ISABEL AKSHAYA. V                 | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 22    | ISHWARIYA. P. S                   | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 23    | ISWARYA GRANDHI                   | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 24    | JAHAN. S                          | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 25    | JAMPULA SAITEJA                   | P          | P      | P      | P      | P      | P      | P      | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | P      | P      | P      | P      |    |
| 26    | JANGITI SATHWIK                   | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 27    | JANITH CHARA. D                   | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 28    | JAYA PRAKASH                      | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 29    | JAYABHARATHI. A                   | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 30    | JAYAKEERTHANA. K                  | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 31    | JAYAKUMAR. J                      | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 32    | JAYANTH VARMA ALLURI              | AB         | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 33    | JEBIN GERALD. J                   | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 34    | JERMANUS ALONZO. A                | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 35    | JETTI PHANITEJA. J                | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 36    | JHAASHWANTH. P                    | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 37    | JOE RENIN. E                      | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 38    | JONNADULA AKASH                   | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 39    | JUVVALA HARSHITHA                 | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 40    | JUVVALA ROHAN SIDDHU              | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 41    | KADHA CHAKRI VENKATA SURESH KUMAR | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 42    | KADIMISETTY MOHAN CHANDRA REDDY   | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 43    | KAKANURU SIVA REDDY               | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 44    | KAKARLA SAI MANI SRI              | P          | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 45    | KALAVAKUNTA SRI VENKATESWARA RAO  | AB         | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |
| 46    | KALLURI LOKESH DURGA PRASAD       | AB         | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | AB     | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      | P      |    |

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*Dr. Sundareswari. M*

Dr. Sundareswari. M  
Dean





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INSTITUTE OF SCIENCE AND TECHNOLOGY  
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School of Science and HUMANITIES  
Department of English

## CERTIFICATE

This is to certify that **IRIS SHERLINE GLADIS. J** has participated in Value Added course for 30 hrs On **English for Effective Communication** conducted by Department of English, for the academic year 2019 by Sathyabama Institute of Science and Technology, Chennai.

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Dr. S. Mercy Gnana Gandhi  
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Department of English

## CERTIFICATE

This is to certify that **GUDURI RAVI KIRAN** has participated in Value Added course for 30 hrs on **English for Effective Communication** conducted by Department of English, for the academic year 2019 by Sathyabama Institute of Science and Technology, Chennai.

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## CERTIFICATE

This is to certify that **GUMMADAPU HARSHITHA HARINDRA** has participated in Value Added course for 30 hrs on **English for Effective Communication** conducted by Department of English, for the academic year 2019 by Sathyabama Institute of Science and Technology, Chennai.

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## CERTIFICATE

This is to certify that **GUNA SEKHAR REDDY** has participated in Value Added course for 30 hrs on **English for Effective Communication** conducted by Department of English, for the academic year 2019 by Sathyabama Institute of Science and Technology, Chennai.

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This is to certify that **GUNUPUDI TARUN KUMAR** has participated in Value Added course for 30 hrs On **English for Effective Communication** conducted by Department of English, for the academic year 2019 by Sathyabama Institute of Science and Technology, Chennai.

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This is to certify that **GURRAM SREE BALAJI** has participated in Value Added course for 30 hrs on **English for Effective Communication** conducted by Department of English, for the academic year 2019 by Sathyabama Institute of Science and Technology, Chennai.

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This is to certify that **GUTTALA BINDU POOJITHA** has participated in Value Added course for 30 hrs on **English for Effective Communication** conducted by Department of English, for the academic year 2019 by Sathyabama Institute of Science and Technology, Chennai.

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This is to certify that **HARI PRASAD. B** has participated in Value Added course for 30 hrs on **English for Effective Communication** conducted by Department of English, for the academic year 2019 by Sathyabama Institute of Science and Technology, Chennai.

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*Sundareswari*  
Dr. Sundareswari. M  
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## CERTIFICATE

This is to certify that **HARIMANISH. K** has participated in Value Added course for 30 hrs on **English for Effective Communication** conducted by Department of English, for the academic year 2019 by Sathyabama Institute of Science and Technology, Chennai.

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Dr. S. Mercy Gnana Gandhi  
Convenor

*Sundareswari*  
Dr. Sundareswari. M  
Dean



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Phone: 044 - 2450 3150 / 51 / 52 / 54 / 55 Fax: 044 - 2450 2344

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## **2018-19 Academic Year**

| <b>S.N<br/>O</b> | <b>Name of the value<br/>added courses<br/>(with 30 or more<br/>contact<br/>hours) offered</b> | <b>Year of<br/>offering</b> | <b>No of times<br/>offered<br/>during the<br/>same year</b> | <b>Dura<br/>tion<br/>of<br/>cour<br/>se</b> | <b>Number of<br/>students<br/>enrolled in<br/>the<br/>year</b> | <b>Number of<br/>Students<br/>completing<br/>the course in<br/>the year</b> |
|------------------|------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1                | Java IoT Developer                                                                             | 15.7.2018                   | 1                                                           | 30                                          | 56                                                             | 51                                                                          |
| 2                | Cloud Computing                                                                                | 6.8.2018                    | 1                                                           | 30                                          | 121                                                            | 117                                                                         |
| 3                | Data structure<br>using C and C++                                                              | 3.9.2018                    | 1                                                           | 30                                          | 85                                                             | 81                                                                          |
| 4                | Java programming                                                                               | 10.9.2018                   | 1                                                           | 30                                          | 101                                                            | 100                                                                         |
| 5                | Computer<br>Networking                                                                         | 6.2.2019                    | 1                                                           | 30                                          | 65                                                             | 62                                                                          |



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DEPARTMENT OF INFORMATION TECHNOLOGY  
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# TRAINING COURSE ON JAVA IOT DEVELOPER

**Date**

From: 15/07/2018  
To: 16/09/2018

**REGISTRATION LINK:**

[shorturl.at/xKMV1](http://shorturl.at/xKMV1)

**CONTACT:**

Dr.Jeberson Retna Raj  
Department of IT





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## **Course Outcome:**

Java IoT Developer:

To impart knowledge on

- Fundamentals of Java ME8 for IoT and connection framework
- Learn the ways to interface I/O devices with processor for task sharing.
- Recall the basics of processor and its ways to handle float values by its instruction set.
- Recognize the functionality of Raspberry pi, latest version processors and its applications.
- Acquire design thinking capability, ability to design a component with realistic constraints, to solve real world engineering problems and analyze the results.

## **Course Contents:**

IoT Course Content Details

### **Week1: 5Hrs**

Introduction, Getting Started with Internet of Things, Setting Up Development Environment for IoT

### **Week2: 5Hrs**

Getting started- Java, Net Beans IDE and Raspberry Pi, IoT Architecture, Raspberry Pi Basics Deep Dive into Java ME8 For IoT

### **Week3: 5Hrs**

Setting Up Software Components on Raspberry Pi, Building Java MEIM lets Programs for IoT Sensors Overview, Q2Qq3 waw Digital and Analog Sensors

### **Week4: 5Hrs**

CLDC Overview, Accessing Sensors by Using the Device Access API, Using the Logging API Generic Connection Framework(GCF)

### **Week5: 5Hrs**

Application Management System(AMS), Creating Notifications with Push Registry, Storing Data by Using the Record Management System, Cloud Overview

### **Week6: 5Hrs**

Oracle IoT Cloud Services Overview, CaseStudy- Solving Logistics Challenge Using IoT, Getting started with Python Programming, Student Projects



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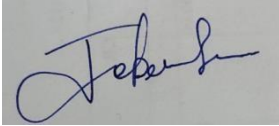
Phone: 044 - 2450 3150 / 51 / 52 / 54 / 55 Fax: 044 - 2450 2344  
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## List of Enrolled Students

| S. No | Reg. No | Roll. No | Name                          | 16.7.18 | 27.7.18 | 11.8.18 | 21.8.18 | 4.9.18 | 15.9.18 |
|-------|---------|----------|-------------------------------|---------|---------|---------|---------|--------|---------|
| 1     | 3512001 | 15SIT102 | AATISHACYRI LL                | P       | P       | P       | P       | P      | P       |
| 2     | 3512003 | 15SIT801 | ABINAYA.K                     | P       | A       | P       | P       | P      | P       |
| 3     | 3512004 | 15SIT103 | ABINAYABHA<br>RATHI.A         | P       | P       | P       | P       | P      | P       |
| 4     | 3512005 | 15SIT951 | ABIRAMI.D                     | P       | P       | A       | P       | P      | P       |
| 5     | 3512006 | 15SIT503 | ADITYARAJ                     | P       | P       | P       | P       | A      | P       |
| 6     | 3512008 | 15SIT553 | AKHILESH.S                    | P       | P       | P       | P       | P      | P       |
| 7     | 3512009 | 15SIT802 | AKILASRIMAT HI.P.T            | P       | P       | P       | P       | P      | P       |
| 8     | 3512010 | 15SIT104 | ALAMPALLYP<br>RANIDEEP        | P       | P       | P       | A       | P      | P       |
| 9     | 3512012 | 15SIT952 | AMSAVALLI.P                   | P       | P       | P       | P       | P      | P       |
| 10    | 3512013 | 15SIT505 | ANANTANAND                    | P       | P       | P       | P       | P      | P       |
| 11    | 3512014 | 15SIT506 | ANINDYAKAR<br>CHOUDHURY       | P       | P       | P       | P       | P      | P       |
| 12    | 3512015 | 15SIT828 | ANKITARAKS HIT                | P       | P       | A       | P       | P      | P       |
| 13    | 3512016 | 15SIT914 | ANTARADEBN ATH                | P       | P       | P       | P       | P      | P       |
| 14    | 3512020 | 15SIT966 | ASHWATHI. V                   | P       | P       | P       | P       | P      | P       |
| 15    | 3512021 | 15SIT548 | AVINASHPRAJ<br>APATI          | P       | P       | P       | P       | P      | A       |
| 16    | 3512022 | 15SIT803 | AYSHWARYA. S                  | P       | P       | P       | P       | P      | P       |
| 17    | 3512023 | 15SIT107 | BABLOOKUM AR                  | P       | P       | P       | P       | P      | P       |
| 18    | 3512024 | 15SIT155 | BALAMURUG AN.S                | P       | P       | P       | P       | P      | P       |
| 19    | 3512025 | 15SIT508 | BALINAPRUD HVI                | P       | A       | P       | P       | P      | P       |
| 20    | 3512026 | 15SIT139 | BANA<br>SURESHKUMA R<br>REDDY | P       | P       | P       | P       | P      | P       |
| 21    | 3512027 | 15SIT953 | BEAUTY                        | P       | P       | A       | P       | P      | P       |
| 22    | 3512028 | 15SIT108 | BETHALASONI YA                | P       | P       | P       | P       | P      | P       |
| 23    | 3512030 | 15SIT543 | BINU.P                        | P       | P       | P       | P       | P      | P       |

|    |         |          |                             |   |   |   |   |   |   |
|----|---------|----------|-----------------------------|---|---|---|---|---|---|
| 24 | 3512031 | 15SIT109 | CHAGANTISRI NIVAS           | P | P | P | A | P | P |
| 25 | 3512032 | 15SIT552 | CHALLASIVAS AIKALYAN        | P | P | P | P | P | P |
| 26 | 3512033 | 15SIT112 | DEEPACHARJE E               | P | P | P | P | P | P |
| 27 | 3512034 | 15SIT967 | DENISA.A                    | P | P | P | P | P | P |
| 28 | 3512035 | 15SIT555 | DESAI SAIASRITH             | P | P | A | P | P | P |
|    | 3512036 | 15SIT511 | DEVARAJAN. K                | P | P | P | P | P | P |
| 30 | 3512039 | 15SIT113 | DODDASAIKRI SHNA            | P | P | P | P | P | P |
| 31 | 3512041 | 15SIT147 | GAJULAVENK ATA PHANEENDRA   | P | P | P | P | P | A |
| 32 | 3512042 | 15SIT832 | GARIMA                      | P | P | P | P | P | P |
| 33 | 3512043 | 15SIT901 | GOBINATH.M                  | P | P | P | P | P | P |
| 34 | 3512049 | 15SIT513 | GUDURUSREE HARI             | P | P | P | P | P | P |
| 35 | 3512050 | 15SIT514 | GUNNAMVEER AVENKATA RAJESH  | P | A | P | P | P | P |
| 36 | 3512052 | 15SIT115 | IGUDURUPUS HPA              | P | P | P | P | P | P |
| 37 | 3512053 | 15SIT116 | IMMADISETTY CHAITANYA KUMAR | P | P | A | P | P | P |
| 38 | 3512056 | 15SIT516 | JEFFREYVIVIA NSAMUEL        | P | P | A | P | P | P |
| 39 | 3512058 | 15SIT826 | JOSHININEHA.K               | P | P | P | P | A | P |
| 40 | 3512114 | 15SIT132 | PRIYASINHA                  | P | P | P | P | P | P |
| 41 | 3612001 | 16SIT501 | ABHINANDAN KUMAR            | P | P | P | P | P | P |
| 42 | 3612002 | 16SIT947 | ABHISHEKOM AR               | P | P | P | A | P | P |
| 43 | 3612003 | 16SIT951 | ABINAYA.R                   | P | P | P | P | P | P |
| 44 | 3612004 | 16SIT503 | ABISEK.K                    | P | P | P | P | P | P |
| 45 | 3612005 | 16SIT584 | ADARSH                      | P | P | P | P | P | P |
| 46 | 3612007 | 16SIT933 | AJAY.S                      | P | P | A | P | P | P |
| 47 | 3612010 | 16SIT001 | AKASH.U                     | P | P | P | P | P | P |
| 48 | 3612012 | 16SIT504 | AKHIL.K                     | P | P | P | P | P | P |
| 49 | 3612013 | 16SIT929 | AKSHAYA.P                   | P | P | P | P | P | A |
| 50 | 3612014 | 16SIT029 | ALDRINADOLP HOUS            | P | P | P | P | P | P |
| 51 | 3612017 | 16SIT942 | ALOKAGNIHO TRI              | P | P | P | P | P | P |
| 52 | 3612018 | 16SIT926 | AMANANAND                   | P | P | P | P | P | P |
| 53 | 3612019 | 16SIT938 | AMIRTA.R                    | P | A | P | P | P | P |
| 54 | 3612020 | 16SIT928 | AMITKUMARJ HA               | P | P | P | P | P | P |
| 55 | 3612021 | 16SIT952 | ANANDH.B                    | P | P | A | P | P | P |

A handwritten signature in blue ink, appearing to read 'John S.', enclosed within a light gray rectangular box.

SIGNATURE OF COURSE COORDINATOR

A handwritten signature in blue ink, appearing to read 'R. M.', written in a cursive style.

SIGNATURE OF HEAD OF THE DEPARTMENT



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## Certificate of Completion

This is to certify that

**AMITKUMARJHA**

has attended and successfully completed the course on  
**JAVA IoT Developer** conducted by Department of Information Technology  
from July 2018 to September 2018.

**DR. R. SUBHASHINI**  
HOD - Department of IT

**DR. T. SASIKALA**  
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**CHALLASIVASAIKALYAN**

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**BINU.P**

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has attended and successfully completed the course on

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**ABINAYABHARATHI.A**

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# AATISHACYRILL

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DEPARTMENT OF INFORMATION TECHNOLOGY  
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# **TRAINING COURSE ON CLOUD COMPUTING**

### **Date**

From: 06/08/2018  
To: 07/09/2018

### **REGISTRATION LINK:**

<https://bit.ly/34Zue19>

### **CONTACT:**

Dr.Maria Anu  
Department of IT





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## **Course Outcome:**

### Cloud Computing:

- Understand the ping command to test the communication between the guest OS and Host OS.
- Understand and install AWS node setup.
- Understand and develop a simple hadoop application called Word Count. It counts the number of occurrences of each word in a given input set.
- Understand and develop hadoop application to count no of characters, no of words and each character frequency.
- Understand and develop virtualization to process given data
- Understand and develop cloud infrastructure security



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(DEEMED TO BE UNIVERSITY)

Accredited with "A" Grade by NAAC

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.

Phone: 044 - 2450 3150 / 51 / 52 / 54 / 55 Fax: 044 - 2450 2344

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## **Course Contents:**

### **Week1:**

**4Hrs**

Basic Concepts of Cloud Computing, Computer Network Basics, Concepts of Distributed Systems.

### **Week2:**

**4Hrs**

Concepts of Cloud Computing and its Necessity, Cloud Service Providers in use and their Significance, Cloud Infrastructure, Cloud Pros and Cons.

### **Week3:**

**4Hrs**

Cloud Delivery Models, Cloud Deployment Models, Cloud Storage Management.

### **Week4:**

**4Hrs**

Cloud Storage Management, Concept of Virtualization and Load Balancing, Overview on Virtualization used for Enterprise Solutions.

### **Week5:**

**4Hrs**

Key Challenges in managing Information, Identifying the problems of scale and management  
In big data, Building Cloud Networks

### **Week6:**

**4Hrs**

Assigning and Implementing a Data Center Based Cloud ,Installing Open Source Cloud service. Amazon Web Services(AWS).

### **Week7:**

**3Hrs**

Google Cloud Platform, Cloud Security, Infrastructure Security

### **Week8:**

**3Hrs**

Network level security, Host level security, Application level security, Data privacy and Security Issues, Access Control and Authentication in cloud computing.



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## List of Enrolled Students

| S. No | Reg. No | Roll. No | Name                        | 6.8.18 | 15.8.18 | 20.8.18 | 27.8.18 | 31.8.18 | 7.9.18 |
|-------|---------|----------|-----------------------------|--------|---------|---------|---------|---------|--------|
| 1     | 3612022 | 16SIT505 | ANIRBAN DATTAROY            | P      | P       | P       | P       | P       | P      |
| 2     | 3612024 | 16SIT506 | ANKITKUMAR                  | P      | A       | P       | P       | P       | P      |
| 3     | 3612025 | 16SIT944 | ANKIT KUMARSINGH            | P      | P       | P       | P       | P       | P      |
| 4     | 3612027 | 16SIT565 | ANKITSINGH                  | P      | P       | A       | P       | P       | P      |
| 5     | 3612028 | 16SIT904 | ANTARIPABORAH               | P      | P       | P       | P       | A       | P      |
| 6     | 3612031 | 16SIT953 | ARCHANA.C                   | P      | P       | P       | P       | P       | P      |
| 7     | 3612033 | 16SIT583 | ARJUN.V                     | P      | P       | P       | P       | P       | P      |
| 8     | 3612035 | 16SIT803 | ASHILA. T                   | P      | P       | P       | A       | P       | P      |
| 9     | 3612036 | 16SIT929 | ASHUTOSH KUMAR              | P      | P       | P       | P       | P       | P      |
| 10    | 3612037 | 16SIT804 | AVISHA. I                   | P      | P       | P       | P       | P       | P      |
| 11    | 3612039 | 16SIT005 | AZARIAHJOHN.K               | P      | P       | P       | P       | P       | P      |
| 12    | 3612040 | 16SIT971 | BAASHWANATHKUMAR. R         | P      | P       | A       | P       | P       | P      |
| 13    | 3612041 | 16SIT006 | BACHINASOURAVTEJA           | P      | P       | P       | P       | P       | P      |
| 14    | 3612042 | 16SIT007 | BANDISAIKUMAR REDDY         | P      | P       | P       | P       | P       | P      |
| 15    | 3612043 | 16SIT578 | BHURSEBHISHANSURESH         | P      | P       | P       | P       | P       | A      |
| 16    | 3612044 | 16SIT805 | BHUVANESH WARI.G            | P      | P       | P       | P       | P       | P      |
| 17    | 3612045 | 16SIT576 | BISWAJIT SAHU               | P      | P       | P       | P       | P       | P      |
| 18    | 3612047 | 16SIT008 | BOPPANAKRISHNAPRASAD        | P      | P       | P       | P       | P       | P      |
| 19    | 3612049 | 16SIT806 | CHATURVED ULAANAGHAPRAVEENA | P      | A       | P       | P       | P       | P      |
| 20    | 3612051 | 16SIT807 | CHINTAKUNTA HARITHA         | P      | P       | P       | P       | P       | P      |

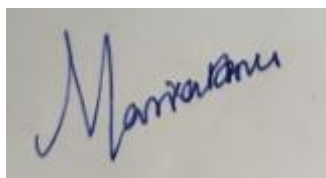
|    |         |          |                               |   |   |   |   |   |   |
|----|---------|----------|-------------------------------|---|---|---|---|---|---|
| 21 | 3612055 | 16SIT809 | DEEPIKAMENON.S                | P | P | A | P | P | P |
| 22 | 3612056 | 16SIT513 | DEVKUMAR                      | P | P | A | P | P | P |
| 23 | 3612058 | 16SIT514 | DINESHKUM<br>AR.G             | P | P | P | P | A | P |
| 24 | 3612059 | 16SIT515 | DINESHKUM<br>AR.N             | P | P | P | P | P | P |
| 25 | 3612061 | 16SIT009 | EDIGAKARTHIKGOUD              | P | P | P | P | P | P |
| 26 | 3612062 | 16SIT831 | ELLAKKIYA.D                   | P | P | P | A | P | P |
| 27 | 3612065 | 16SIT518 | GAUTHAMSH<br>EKAR             | P | P | P | P | P | P |
| 28 | 3612067 | 16SIT908 | GOKUL.R.S                     | P | P | P | P | P | P |
| 29 | 3612070 | 16SIT956 | GOPINATH.K                    | P | P | P | P | P | P |
| 30 | 3612075 | 16SIT955 | HANUMANT<br>HUGIRISHNAIDU     | P | P | A | P | P | P |
| 31 | 3612078 | 16SIT948 | HARSHRAJ                      | P | P | P | P | P | P |
| 32 | 3612083 | 16SIT812 | JASMINES                      | P | P | P | P | P | P |
| 33 | 3612084 | 16SIT525 | JAYASHREEJ                    | P | P | P | P | P | A |
| 34 | 3612085 | 16SIT028 | JAYASHREES                    | P | P | P | P | P | P |
| 35 | 3612086 | 16SIT924 | JEEVANATH<br>J                | P | P | P | P | P | P |
| 36 | 3612087 | 16SIT566 | JITENDRAGU<br>PTA             | P | P | P | P | P | P |
| 37 | 3612088 | 16SIT970 | JOTHIA                        | P | A | P | P | P | P |
| 38 | 3612090 | 16SIT813 | KANDIBHAVYA                   | P | P | P | P | P | P |
| 39 | 3612092 | 16SIT960 | KASIREDDYLATHASRI             | P | P | A | P | P | P |
| 40 | 3612094 | 16SIT957 | KAVIARASIK                    | P | P | P | P | P | P |
| 41 | 3612095 | 16SIT958 | KAVIYAV                       | P | P | A | P | P | P |
| 42 | 3612097 | 16SIT828 | KEERTHANAI                    | P | P | P | P | P | P |
| 43 | 3612099 | 16SIT829 | KEERTHANA<br>AV               | P | P | P | P | P | P |
| 44 | 3612100 | 16SIT560 | KEERTHIVASANPUSHPAR<br>AJ     | P | P | P | P | P | A |
| 45 | 3612104 | 16SIT833 | KONAKANDL<br>ARAMAPRANAVI     | P | P | P | P | P | P |
| 46 | 3612106 | 16SIT531 | KULDEEPCU<br>MAR              | P | P | P | P | P | P |
| 47 | 3612107 | 16SIT935 | KUMARSATY<br>AM               | P | P | P | P | P | P |
| 48 | 3612108 | 16SIT815 | LAKSHMIJAN<br>APRIYAMADDUKURI | P | A | P | P | P | P |
| 49 | 3612112 | 16SIT816 | MAHALAKSHMIN                  | P | P | P | P | P | P |
| 50 | 3612114 | 16SIT534 | MANISHKUMARYADAV              | P | P | A | P | P | P |

|    |         |          |                                         |   |   |   |   |   |   |
|----|---------|----------|-----------------------------------------|---|---|---|---|---|---|
| 51 | 3612115 | 16SIT575 | MDARSALANABID                           | P | P | P | A | P | P |
| 52 | 3612117 | 16SIT961 | MENAGAP                                 | P | P | P | P | P | P |
| 53 | 3612119 | 16SIT817 | MONISHAC                                | P | P | P | P | P | P |
| 54 | 3612121 | 16SIT535 | MURTAZAM                                | P | P | P | P | P | P |
|    | 3612123 | 16SIT536 | NAIDUCHIRA                              | P | P | A | P | P | P |
| 55 |         |          | NJEEVIKRISH NAVENKATES<br>HWARLOO       |   |   |   |   |   |   |
| 56 | 3612125 | 16SIT818 | NANDHINIR                               | P | P | P | P | P | P |
| 57 | 3612130 | 16SIT962 | PAULINEJOYCEZACD                        | P | P | P | P | P | P |
| 58 | 3612129 | 16SIT821 | NIRANJANIR                              | P | P | P | P | P | A |
| 59 | 3612133 | 16SIT963 | POORNIMAM                               | P | P | P | P | P | P |
| 60 | 3612134 | 16SIT939 | PRABHATSAHU                             | P | P | P | P | P | P |
| 61 | 3612137 | 16SIT538 | PRANAYKUMAR                             | P | P | P | P | P | P |
| 62 | 3612138 | 16SIT539 | PRARTHANAPARAMESHWAR<br>RI RAMANATHAN   | P | A | P | P | P | P |
| 63 | 3612139 | 16SIT016 | PRASANJEETDAS                           | P | P | P | P | P | P |
| 64 | 3612142 | 16SIT943 | PRAVEENAV                               | P | P | A | P | P | P |
| 65 | 3612145 | 16SIT832 | RAASHIKA. K                             | P | P | P | A | P | P |
| 66 | 3612148 | 16SIT923 | RAHULRAJ.B                              | P | P | P | P | P | P |
| 67 | 3612150 | 16SIT581 | RAUNAKKUMAR SINGH                       | P | P | P | P | P | P |
| 68 | 3612162 | 16SIT544 | SAKTHIVEL.E                             | P | P | P | P | P | P |
| 69 | 3612153 | 16SIT964 | RESHMA.R                                | P | P | A | P | P | P |
| 70 | 3612154 | 16SIT965 | RISHUKUMARI                             | P | P | P | P | P | P |
| 71 | 3612155 | 16SIT543 | ROOBAVIGNESH.M                          | P | P | P | P | P | P |
| 72 | 3612157 | 16SIT567 | RUDRARAJGOSWAMI                         | P | P | P | P | P | A |
| 73 | 3612159 | 16SIT025 | SAIVAMSIKRISHNACHIRAL<br>A. V.S         | P | P | P | P | P | P |
| 74 | 3612161 | 16SIT572 | SAKHAYADEEPNATH                         | P | P | P | P | P | P |
| 75 | 3512060 | 15SIT518 | JOYSONMOSE SSELVA<br>RAJANAYAGA<br>M. M | P | P | P | P | P | P |
| 76 | 3512061 | 15SIT807 | KAARTHIKHASUBHASRI. S                   | P | A | P | P | P | P |
| 77 | 3512062 | 15SIT118 | KALAGALAKS HMI<br>SAMHITA               | P | P | P | P | P | P |



|     |         |          |                               |   |   |   |   |   |   |
|-----|---------|----------|-------------------------------|---|---|---|---|---|---|
| 78  | 3512064 | 15SIT550 | KALLURUPAVANKUMARRE<br>DDY    | P | P | A | P | P | P |
| 79  | 3512065 | 15SIT955 | KANIMOZHI.R                   | P | P | P | P | P | P |
| 80  | 3512068 | 15SIT520 | KARTHIK.S                     | P | P | P | A | P | P |
| 81  | 3512069 | 15SIT119 | KASETTYSHA                    | P | P | P | P | P | P |
|     |         |          | BARISH                        |   |   |   |   |   |   |
| 82  | 3512070 | 15SIT521 | KAUSHIKPRABHU                 | P | P | P | P | P | P |
| 83  | 3512071 | 15SIT808 | KEERTHANA.P                   | P | P | P | P | P | P |
| 84  | 3512072 | 15SIT902 | KEERTHANA.V                   | P | P | A | P | P | P |
| 85  | 3512073 | 15SIT956 | KEERTHI.A.R                   | P | P | P | P | P | P |
| 86  | 3512074 | 15SIT809 | KEERTHIKA.M                   | P | P | P | P | P | P |
| 87  | 3512075 | 15SIT522 | KODURUSRAVANKUMAR             | P | P | P | P | P | A |
| 88  | 3512077 | 15SIT907 | KOUSALYA.L                    | P | P | P | P | P | P |
| 89  | 3512078 | 15SIT120 | KSHITIJCHOUDHARY              | P | P | P | P | P | P |
| 90  | 3512079 | 15SIT811 | LIDIAVIOLET.<br>A             | P | P | P | P | P | P |
| 91  | 3512080 | 15SIT128 | MANEESHA. P                   | P | A | P | P | P | P |
| 92  | 3512081 | 15SIT524 | MANIVASAKAN.S                 | P | P | P | P | P | P |
| 93  | 3512082 | 15SIT913 | MARIABERNA<br>DETTE.F         | P | P | A | P | P | P |
| 94  | 3512083 | 15SIT121 | MARIAVISHALI.P                | P | P | P | A | P | P |
| 95  | 3512084 | 15SIT957 | MARIAMMAL<br>SONIYA. M        | P | P | P | P | P | P |
| 96  | 3512085 | 15SIT122 | MARIYACHRI<br>STEENAVINITHA.K | P | P | P | P | P | P |
| 97  | 3512086 | 15SIT101 | MARYBENIRESHMA.A.B            | P | P | P | P | P | P |
| 98  | 3512087 | 15SIT525 | MEKABHANU PRAKASHRED<br>DY    | P | P | A | P | P | P |
| 99  | 3512088 | 15SIT958 | MOHAMEDSHEIKDAWOOD.<br>M      | P | P | P | P | P | P |
| 100 | 3512089 | 15SIT123 | MOHAMMEDTHOUSEEF.D            | P | P | P | P | P | P |
| 101 | 3512090 | 15SIT959 | MOHANA. S                     | P | P | P | P | P | A |
| 102 | 3512091 | 15SIT549 | MOHITANAND                    | P | P | P | P | P | P |
| 103 | 3512092 | 15SIT527 | MOHITRAJ                      | P | P | P | P | P | P |
| 104 | 3512093 | 15SIT812 | MONICA.V                      | P | P | P | P | P | P |
| 105 | 3512097 | 15SIT911 | MYLAPALLEYESHWANTH            | P | A | P | P | P | P |

|     |         |          |                           |   |   |   |   |   |   |
|-----|---------|----------|---------------------------|---|---|---|---|---|---|
| 106 | 3512099 | 15SIT125 | NAGESHBHARTI              | P | P | P | P | P | P |
| 107 | 3512102 | 15SIT813 | NASRIEN REJEE.W.H         | P | P | A | P | P | P |
| 108 | 3512103 | 15SIT127 | NEVEGEETHA<br>.R          | P | P | P | A | P | P |
| 109 | 3512104 | 15SIT544 | NILESHKUMAR               | P | P | P | P | P | P |
| 110 | 3512105 | 15SIT129 | PALLARATNASAIKUMAR        | P | P | P | P | P | P |
| 111 | 3512106 | 15SIT130 | PENUGONDAOBIREDDY         | P | P | P | P | P | P |
| 112 | 3512107 | 15SIT960 | PERUMA. C                 | P | P | A | P | P | P |
| 113 | 3512108 | 15SIT814 | POOJAAUMAYAL. AL          | P | P | P | P | P | P |
| 114 | 3512109 | 15SIT961 | PRABAVATHY<br>.S          | P | P | P | P | P | P |
| 115 | 3512110 | 15SIT131 | PRATIKSHARASHMI           | P | P | P | P | P | A |
| 116 | 3512113 | 15SIT815 | PRINCYPOOJA<br>.A         | P | P | P | P | P | P |
| 117 | 3512114 | 15SIT132 | PRIYASINHA                | P | P | P | P | P | P |
| 118 | 3512115 | 15SIT962 | PRIYA.V                   | P | P | P | P | P | P |
| 119 | 3512116 | 15SIT816 | PRIYADHARSHINI.J          | P | A | P | P | P | P |
| 120 | 3512117 | 15SIT817 | RACHERLASA<br>IMADHUMITHA | P | P | P | P | P | P |
| 121 | 3512118 | 15SIT133 | RAHULKUMAR                | P | P | A | P | P | P |



SIGNATURE OF COURSE COORDINATOR



SIGNATURE OF HEAD OF THE DEPARTMENT



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## Certificate of Completion

This is to certify that

**MURTAZAM**

has attended and successfully completed the course on

**Cloud Computing** conducted by Department of Information Technology

from August 2018 to September 2018.

**DR. R. SUBHASHINI**

HOD - Department of IT

**DR. M LAKSHMI**

Dean - School of Computing



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**JASMINES**

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**HARSHRAJ**

has attended and successfully completed the course on

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**ARCHANA.C**

has attended and successfully completed the course on

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## Certificate of Completion

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**ANTARIPABORAH**

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## DEPARTMENT OF INFORMATION TECHNOLOGY

Organizes

### Training Program in

Data structure using  
C and C++

DATE

03.09.2018 - 05.11.2018



30 Hours

Registration Link:

<https://bit.ly/3uN5XGv>

CONTACT :-  
Dr Revathy  
Dr.Jeyanthi



## Course Outcome:

Data structure using C and C++ :

- Implement abstract data types using arrays and linked list.
- Apply the different linear data structures like stack and queue to various computing problems. Implement different types of trees and apply them to problem solutions.
- Discuss graph structure and understand various operations on graphs and their applicability.
- Analyze the various sorting and searching algorithms.
- Understand the hashing technique and hash functions.

## Course Contents:

Data structure using C and C++

### **Week1:** **4Hrs**

Introduction to Data Structure, Arrays , Linear and Binary Search Implementation using Arrays

### **Week2:** **4Hrs**

Implementation of Stack Operations using Array, Implementation of Stack Applications Using C and C++

### **Week3:** **4Hrs**

Introduction to Queues, Implementation of Queue Operations using Array , Implementation of Queue Applications using C and C++

### **Week4:** **4Hrs**

Introduction to Linked List, Singly Linked List, Implementation of Singly Linked List Operations

### **Week5:** **4Hrs**

Introduction to Double Linked List, Implementation of doubly Linked List Operations

### **Week6:** **4Hrs**

Introduction to Circular Linked List, Circular Linked List, Implementation of circular Linked List Operations

### **Week7:** **3Hrs**

Introduction to trees, Binary search tree, AVL tree

**Week8:****3Hrs**

Network level security, Host level security, Application level security, Data privacy  
And security Issues, Access Control and Authentication in cloud computing.





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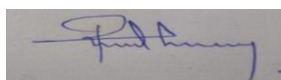


## List of Enrolled Students:

| S. No | Reg. No  | Roll. No  | Name                 | 3.9.18 | 26.9.18 | 10.10.18 | 18.10.18 | 27.10.18 | 5.11.18 |
|-------|----------|-----------|----------------------|--------|---------|----------|----------|----------|---------|
| 1     | 38120001 | 18SIT9017 | AARTHY.G             | P      | P       | P        | P        | P        | P       |
| 2     | 38120002 | 18SIT9056 | ABHISHEKKU<br>MAR    | P      | A       | P        | P        | P        | P       |
| 3     | 38120003 | 18SIT5030 | ABHISHEKSIN<br>GH    | P      | P       | P        | P        | P        | P       |
| 4     | 38120004 | 18SIT5001 | ABINAYA.A            | P      | P       | A        | P        | P        | P       |
| 5     | 38120005 | 18SIT9036 | ABIRAMI.M            | P      | P       | P        | P        | A        | P       |
| 6     | 38120006 | 18SIT9018 | ABIRAMI.R            | P      | P       | P        | P        | P        | P       |
| 7     | 38120007 | 18SIT1001 | AHILA.RR             | P      | P       | P        | P        | P        | P       |
| 8     | 38120008 | 18SIT5002 | AISHWARYA.R          | P      | P       | P        | A        | P        | P       |
| 9     | 38120009 | 18SIT8003 | ANNA<br>GREETATITUST | P      | P       | P        | P        | P        | P       |
| 10    | 38120010 | 18SIT9037 | ARCHANA. B           | P      | P       | P        | P        | P        | P       |
| 11    | 38120011 | 18SIT9051 | ARCHANA. C           | P      | P       | P        | P        | P        | P       |
| 12    | 38120012 | 18SIT9045 | ARTHEESWARI.P        | P      | P       | A        | P        | P        | P       |
| 13    | 38120013 | 18SIT5023 | ARUNKUMAR. S         | P      | P       | P        | P        | P        | P       |
| 14    | 38120014 | 18SIT1002 | ASHMITASINGH         | P      | P       | P        | P        | P        | P       |
| 15    | 38120015 | 18SIT8004 | ASWINKUMAR<br>.K     | P      | P       | P        | P        | P        | A       |
| 16    | 38120016 | 18SIT9009 | BAKYA.B              | P      | P       | P        | P        | P        | P       |
| 17    | 38120017 | 18SIT9024 | BALABHARAT HI.P      | P      | P       | P        | P        | P        | P       |
| 18    | 38120018 | 18SIT9053 | BALAJI.P             | P      | P       | P        | P        | P        | P       |
| 19    | 38120019 | 18SIT5021 | BALAMURUG<br>AN.R    | P      | A       | P        | P        | P        | P       |
| 20    | 38120020 | 18SIT5037 | BALSUMDIWA N         | P      | P       | P        | P        | P        | P       |
| 21    | 38120021 | 18SIT5005 | BARANIDARA N.GT      | P      | P       | A        | P        | P        | P       |
| 22    | 38120022 | 18SIT8002 | CATHERINEJE<br>NIFER | P      | P       | P        | P        | P        | P       |
| 23    | 38120023 | 18SIT9001 | DIVYADHARS<br>HINI.V | P      | P       | A        | P        | P        | P       |
| 24    | 38120024 | 18SIT9012 | GAYATHRI.M           | P      | P       | P        | A        | P        | P       |

|    |          |           |                                 |   |   |   |   |   |   |
|----|----------|-----------|---------------------------------|---|---|---|---|---|---|
| 25 | 38120025 | 18SIT9006 | GNANASOUNT<br>HARIYA. S         | P | P | P | P | P | P |
| 26 | 38120026 | 18SIT5033 | GNANAMANI. CT                   | P | P | P | P | P | P |
| 27 | 38120027 | 18SIT5034 | GOWTHAM. S                      | P | P | P | P | P | P |
| 28 | 38120028 | 18SIT9054 | HAMIDHUSSAI N                   | P | P | A | P | P | P |
| 29 | 38120029 | 18SIT5024 | HARSHANANC                      | P | P | P | P | P | P |
|    |          |           | HELL. S                         |   |   |   |   |   |   |
| 30 | 38120030 | 18SIT9052 | HEMANTHREDDY.M                  | P | P | P | P | P | P |
| 31 | 38120031 | 18SIT9002 | IMMACULATE<br>MARIAFERNA<br>NDO | P | P | P | P | P | A |
| 32 | 38120032 | 18SIT9050 | JAYAROSHINI.<br>M               | P | P | P | P | P | P |
| 33 | 38120033 | 18SIT9043 | JEEVITHA.D                      | P | P | P | P | P | P |
| 34 | 38120034 | 18SIT5026 | JOHNWILIFRE<br>DDAVID           | P | P | P | P | P | P |
| 35 | 38120035 | 18SIT5022 | JOTHIKA.K                       | P | A | P | P | P | P |
| 36 | 38120036 | 18SIT9022 | JOTHILAKSHM<br>I. V             | P | P | P | P | P | P |
| 37 | 38120037 | 18SIT9016 | KAMALSHAR MA.R                  | P | P | A | P | P | P |
| 38 | 38120038 | 18SIT5006 | KAMEPALLINI THISH               | P | P | P | P | P | P |
| 39 | 38120039 | 18SIT9044 | KARTHIKEYA N.N                  | P | P | P | A | P | P |
| 40 | 38120040 | 18SIT9010 | KARTHIYAYIN I.S                 | P | P | P | P | P | P |
| 41 | 38120041 | 18SIT9042 | KAVIYA.S                        | P | P | P | P | P | P |
| 42 | 38120042 | 18SIT9040 | KEERTHIGA.N                     | P | P | P | P | P | P |
| 43 | 38120043 | 18SIT5007 | KUSHALGOYA L.M                  | P | P | A | P | P | P |
| 44 | 38120044 | 18SIT9014 | LAKSHMIPRIY<br>A. M             | P | P | P | P | P | P |
| 45 | 38120045 | 18SIT9030 | LEELAVATHI. V                   | P | P | P | P | P | P |
| 46 | 38120046 | 18SIT9005 | LOGANAYAGI. S                   | P | P | P | P | P | A |
| 47 | 38120047 | 18SIT5008 | MADHAN. L                       | P | P | P | P | P | P |
| 48 | 38120048 | 18SIT5004 | MANISHA. B                      | P | P | P | P | P | P |
| 49 | 38120049 | 18SIT9038 | MEERADEVI. L                    | P | P | P | P | P | P |
| 50 | 38120050 | 18SIT9003 | MOHAMEDAS HIK.N                 | P | A | P | P | P | P |
| 51 | 38120051 | 18SIT9041 | MOKITHA.B                       | P | P | P | P | P | P |
| 52 | 38120052 | 18SIT5038 | MUSKANFIRD OUSI                 | P | P | A | P | P | P |
| 53 | 38120053 | 18SIT9008 | NANDHINI. V                     | P | P | P | P | P | P |
| 54 | 38120054 | 18SIT9007 | NITHYA.B                        | P | P | P | P | P | P |
| 55 | 38120055 | 18SIT9027 | NITHYA.M                        | P | P | P | P | P | P |
| 56 | 38120056 | 18SIT9039 | PAVITHRAPRIYA. K                | P | P | A | P | P | P |
| 57 | 38120057 | 18SIT9031 | PIYUSHSINHA                     | P | P | P | P | P | P |
| 58 | 38120058 | 18SIT5010 | POOJABALAK<br>RISHNAN           | P | P | P | P | P | P |

|    |          |           |                    |   |   |   |   |   |   |
|----|----------|-----------|--------------------|---|---|---|---|---|---|
| 59 | 38120059 | 18SIT9028 | PRADYOTANRAJU. V   | P | P | P | P | P | A |
| 60 | 38120060 | 18SIT9035 | PRAGADEESWARI.M    | P | P | P | P | P | P |
| 61 | 38120061 | 18SIT9026 | PRAKASH.S          | P | P | P | P | P | P |
| 62 | 38120062 | 18SIT5011 | PRAVIN.I           | P | P | P | P | P | P |
| 63 | 38120063 | 18SIT9020 | PREETHI.S          | P | A | P | P | P | P |
| 64 | 38120064 | 18SIT5012 | PRIYADHARA SHINI.P | P | P | P | P | P | P |
| 65 | 38120065 | 18SIT5039 | RAHULRAJ           | P | P | A | P | P | P |
| 66 | 38120066 | 18SIT1004 | RAMANUJAM. V K     | P | A | P | P | P | P |
| 67 | 38120067 | 18SIT9011 | ROHINI.M           | P | P | P | P | P | P |
| 68 | 38120068 | 18SIT5013 | ROHIT.V            | P | P | A | P | P | P |
| 69 | 38120069 | 18SIT5014 | ROSHANCHRI STY.R   | P | P | P | P | A | P |
| 70 | 38120070 | 18SIT9021 | SABITHRA. D        | P | P | P | P | P | P |
| 71 | 38120071 | 18SIT9025 | SAKTHIVARS HINI. K | P | P | P | P | P | P |
| 72 | 38120072 | 18SIT9046 | SANDHIYA.V         | P | P | P | A | P | P |
| 73 | 38120073 | 18SIT9015 | SANGEETHA.K K      | P | P | P | P | P | P |
| 74 | 38120074 | 18SIT9049 | SANJUDHA.M         | P | P | P | P | P | P |
| 75 | 38120075 | 18SIT9034 | SANTHOSH KU MAR.M  | P | P | P | P | P | P |
| 76 | 3612152  | 16SIT542  | REGAN.G            | P | P | A | P | P | P |
| 77 | 3612164  | 16SIT545  | SANJUKUMAR         | P | P | P | P | P | P |
| 78 | 3612165  | 16SIT966  | SANTHANALA KSHMI.S | P | P | P | P | P | P |
| 79 | 3612166  | 16SIT020  | SARAVANAN. V       | P | P | P | P | P | A |
| 80 | 3612168  | 16SIT546  | SAWANKUMA R        | P | P | P | P | P | P |
| 81 | 3612169  | 16SIT547  | SEMRAJKUMA R       | P | P | P | P | P | P |
| 82 | 3612172  | 16SIT021  | SHREEMI SINGH      | P | P | P | P | P | P |
| 83 | 3612173  | 16SIT561  | SHRINATHNIM ARE    | P | A | P | P | P | P |
| 84 | 3612174  | 16SIT822  | SHRUTHI.R          | P | P | P | P | P | P |
| 85 | 3612176  | 16SIT967  | SHWETHA.M          | P | P | A | P | P | P |



SIGNATURE OF COURSE COORDINATOR



SIGNATURE OF HEAD OF THE DEPARTMENT



# SATHYABAMA

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## Certificate of Completion

This is to certify that

***HEMANTHREDDY.M***

has attended and successfully completed the course on

**Data Structure using C and C++** conducted by Department of Information Technology  
from September 2018 to November 2018.

---

**DR. R. SUBHASHINI**  
HOD - Department of IT

---

**DR. T. SASIKALA**  
Dean - School of Computing



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***HARSHANANCHELL. S***

has attended and successfully completed the course on

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has attended and successfully completed the course on

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**GOWTHAM. S**

has attended and successfully completed the course on

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**GNANAMANI.CT**

has attended and successfully completed the course on

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***ABIRAMI.M***

has attended and successfully completed the course on

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**ABINAYA.A**

has attended and successfully completed the course on

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## Certificate of Completion

This is to certify that

***ABHISHEKSINGH***

has attended and successfully completed the course on

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HOD - Department of IT

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## Certificate of Completion

This is to certify that

**ABHISHEKKUMAR**

has attended and successfully completed the course on

**Data Structure using C and C++** conducted by Department of Information Technology  
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HOD - Department of IT

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**AARTHY.G**

has attended and successfully completed the course on

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Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.

Phone: 044 - 2450 3150 / 51 / 52 / 54 / 55 Fax: 044 - 2450 2344

[www.sathyabama.ac.in](http://www.sathyabama.ac.in)



## DEPARTMENT OF INFORMATION TECHNOLOGY

Organizes

Training Program in

Java  
programming

DATE 10.09.2018 - 12.11.2018

30 Hours

Registration Link:

CONTACT :-  
Mrs. Gomathi

<https://bit.ly/3rRpjbW>



## Course Outcome:

Java programming:

- Able to write programs for solving real world problems using java collection frame work.
- Able to develop programs using abstract classes.
- Able to develop multithreaded programs.
- Able to write GUI programs using swing controls in Java.

## Course Contents:

### Week1: 4Hrs

Introduction, History of java, Features of Java, How Java works, Types of Java Programs

Edit , compile and run Java applications and applets using Arrays

### Week2: 4Hrs

Identifier rules, Naming variables, constants (final) and references, Primitive data types,

Arithmetic Operators, Assignment Operators , Relational and Logical Operators

### Week3: 4Hrs

Sequence structure, Selection structure, Repetition structure, Jump(Sequence )structure

### Week4: 4Hrs

Java API and Package/Library methods, User-defined methods, Scope and duration,

Local and Field variables, Pass-by-value, Pass-by-reference, Recursion

### Week5: 4Hrs

Declaration and allocation, Passing arrays to methods, Sorting, searching ,Multiple  
-subscripted

### Week6: 4Hrs

Classes and objects, instance variables, and instance methods, Member access modifiers :

public ,private, protected, package, Creating packages

### Week7: 3Hrs

Inheritance Super class, subclass, Polymorphism, Dynamic method binding,



Abstract class, Concrete class, Inner class definition

**Week 8:**

**3Hrs**

Event Driven Programming and Event Handling Model, Window Components, Mouse and key board event handling, Adapter classes, Layout managers



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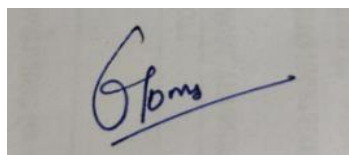
## List of Enrolled Students:

| S. No | Reg. No  | Roll. No | Name                    | 10.9.18 | 26.9.18 | 17.10.18 | 29.10.18 | 7.11.18 | 12.11.18 |
|-------|----------|----------|-------------------------|---------|---------|----------|----------|---------|----------|
| 1     | 37120001 | 17SIT535 | AAGASHT                 | P       | P       | P        | P        | P       | P        |
| 2     | 37120002 | 17SIT818 | ABHINASHKUMAR           | P       | A       | P        | P        | P       | P        |
| 3     | 37120003 | 17SIT536 | ABISHEKS                | P       | P       | P        | P        | P       | P        |
| 4     | 37120004 | 17SIT009 | AKASHRN                 | P       | P       | A        | P        | P       | P        |
| 5     | 37120005 | 17SIT501 | AKASSHP                 | P       | P       | P        | P        | A       | P        |
| 6     | 37120006 | 17SIT502 | AKSHAY<br>ADITHR        | P       | P       | P        | P        | P       | P        |
| 7     | 37120007 | 17SIT018 | AKSHAYAV                | P       | P       | P        | P        | P       | P        |
| 8     | 37120008 | 17SIT503 | ANANDKUMA<br>RRANJAN    | P       | P       | P        | A        | P       | P        |
| 9     | 37120009 | 17SIT504 | ANIRUDHSRIN<br>IVASGN   | P       | P       | P        | P        | P       | P        |
| 10    | 37120010 | 17SIT901 | APARNAG                 | P       | P       | P        | P        | P       | P        |
| 11    | 37120011 | 17SIT533 | ASWINJRICHARDS          | P       | P       | P        | P        | P       | P        |
| 12    | 37120012 | 17SIT505 | BALAJI S                | P       | P       | A        | P        | P       | P        |
| 13    | 37120013 | 17SIT001 | BATHULASO<br>WMYAREDDY  | P       | P       | P        | P        | P       | P        |
| 14    | 37120014 | 17SIT802 | BENSON<br>JOELB         | P       | P       | P        | P        | P       | P        |
| 15    | 37120015 | 17SIT902 | BHARATHIR               | P       | P       | P        | P        | P       | A        |
| 16    | 37120016 | 17SIT002 | BURRIJANAKIRAM<br>REDDY | P       | P       | P        | P        | P       | P        |
| 17    | 37120017 | 17SIT803 | CHRISTINAST<br>EFFIF    | P       | P       | P        | P        | P       | P        |
| 18    | 37120018 | 17SIT921 | DANIELN                 | P       | P       | P        | P        | P       | P        |
| 19    | 37120019 | 17SIT813 | DEEBIKAS                | P       | A       | P        | P        | P       | P        |
| 20    | 37120020 | 17SIT817 | DEEPIKAM                | P       | P       | P        | P        | P       | P        |
| 21    | 37120021 | 17SIT903 | DEWASHISHK<br>UMAR      | P       | P       | A        | P        | P       | P        |
| 22    | 37120022 | 17SIT816 | DHINESHKUMARY           | P       | P       | P        | P        | P       | P        |

|    |          |          |                                     |   |   |   |   |   |   |
|----|----------|----------|-------------------------------------|---|---|---|---|---|---|
| 23 | 37120023 | 17SIT506 | DINESHMANJUR                        | P | P | P | P | P | P |
| 24 | 37120024 | 17SIT507 | DIVYABARATHIT                       | P | A | P | P | P | P |
| 25 | 37120025 | 17SIT904 | DIVYA S                             | P | P | P | P | P | P |
| 26 | 37120026 | 17SIT003 | EMMANUELC<br>HARLESS                | P | P | A | P | P | P |
| 27 | 37120027 | 17SIT905 | GAYATHRIK S                         | P | P | P | P | P | P |
| 28 | 37120028 | 17SIT508 | HARISHM                             | P | P | P | P | P | P |
| 29 | 37120029 | 17SIT819 | HARSHGUPTA                          | P | P | A | P | P | P |
| 30 | 37120030 | 17SIT814 | HIMANGSHUR<br>ANJANCHANGMAI         | P | P | P | P | P | P |
| 31 | 37120031 | 17SIT509 | IMMANUELST<br>ANLEYS                | P | P | P | P | P | P |
| 32 | 37120032 | 17SIT510 | IYERPRIYAES<br>WARPADALEE<br>SWARAN | P | P | P | P | P | A |
| 33 | 37120033 | 17sIT534 | JAGANNATHANS                        | P | P | P | P | P | P |
| 34 | 37120034 | 17SIT532 | JAYARASIKAJ                         | P | P | P | P | P | P |
| 35 | 37120035 | 17SIT812 | JENILA J                            | P | P | P | P | P | P |
| 36 | 37120036 | 17SIT531 | JITHINABHISH<br>EKFERNANDO<br>J     | P | A | P | P | P | P |
| 37 | 37120037 | 17SIT811 | JONNALAGAD<br>DAGOUTHAM<br>KUMAR    | P | P | P | P | P | P |
| 38 | 37120038 | 17SIT511 | KARTHICKS                           | P | P | A | P | P | P |
| 39 | 37120039 | 17SIT512 | KAVIYA V                            | P | P | P | A | P | P |
| 40 | 37120040 | 17SIT906 | KEERTHIVASANE                       | P | P | P | P | P | P |
| 41 | 37120041 | 17SIT513 | KISHOREM M                          | P | P | P | P | P | P |
| 42 | 37120042 | 17SIT907 | LOGESWARANR                         | P | P | P | P | P | P |
| 43 | 37120043 | 17SIT514 | MADHUMITH<br>ACHANDRASEKAR          | P | P | A | P | P | P |
| 44 | 37120044 | 17SIT005 | MOHAMEDAY<br>MANLATHEEF<br>M        | P | P | P | P | P | P |
| 45 | 37120045 | 17SIT006 | MOHAMEDMU<br>DASSIRSALEEM           | P | P | P | P | P | P |
| 46 | 37120046 | 17SIT019 | MOHAMMAD<br>HABIBMEMON              | P | P | P | P | P | A |
| 47 | 37120047 | 17SIT805 | MOHAMMEDS<br>ALMAN                  | P | P | P | P | P | P |
| 48 | 37120048 | 17SIT908 | MOHANAPRIYAR                        | P | P | P | P | P | P |

|    |          |          |                                     |   |   |   |   |   |   |
|----|----------|----------|-------------------------------------|---|---|---|---|---|---|
| 49 | 37120049 | 17SIT516 | MURUGADOSSR                         | P | P | P | P | P | P |
| 50 | 37120050 | 17SIT909 | MUTHUMULA<br>SREELATHA              | P | A | P | P | P | P |
| 51 | 37120051 | 17SIT517 | NANDHITHAB                          | P | P | P | P | P | P |
| 52 | 37120052 | 17SIT518 | PADMASHRIR                          | P | P | A | P | P | P |
| 53 | 37120053 | 17SIT007 | PERNISAIASHIK                       | P | P | P | A | P | P |
| 54 | 37120054 | 17SIT815 | POLISHETTYU                         | P | P | P | P | P | P |
|    |          |          | PENDHERRAO                          |   |   |   |   |   |   |
| 55 | 37120055 | 17SIT008 | PRASHANTHI<br>NIHARIKAKA<br>SIREDDY | P | P | P | P | P | P |
| 56 | 37120056 | 17SIT519 | PUGAZHANTHIR                        | P | P | P | P | P | P |
| 57 | 37120057 | 17SIT911 | RAMYAU                              | P | P | A | P | P | P |
| 58 | 37120058 | 17SIT806 | RAVIKUMARP                          | P | P | P | P | P | P |
| 59 | 37120059 | 17SIT520 | RENGANATHANC                        | P | P | P | P | P | P |
| 60 | 37120060 | 17SIT521 | ROHIT<br>KUMARTIWA<br>RI            | P | P | P | P | P | A |
| 61 | 37120061 | 17SIT010 | ROHITHVAMA<br>KANTHAN               | P | P | P | P | P | P |
| 62 | 37120062 | 17SIT912 | SALMAN                              | P | P | P | P | P | P |
| 63 | 37120063 | 17SIT523 | SARANYASHREES                       | P | P | P | P | P | P |
| 64 | 37120064 | 17SIT011 | SARAVANANS                          | P | A | P | P | P | P |
| 65 | 37120065 | 17SIT807 | SAYEDSAJIDALI                       | P | P | P | P | P | P |
| 66 | 37120066 | 17SIT913 | SELCIYA<br>NAYAGAMM                 | P | P | A | P | P | P |
| 67 | 37120067 | 17SIT914 | SHALINIT                            | P | P | P | A | P | P |
| 68 | 37120068 | 17SIT102 | SHALINIS                            | P | P | P | P | P | P |
| 69 | 37120069 | 17SIT915 | SHANMUGAP<br>RIYANN                 | P | P | P | P | P | P |
| 70 | 37120070 | 17SIT525 | SIVAKUMARG                          | P | P | P | P | P | P |
| 71 | 37120071 | 17SIT013 | SNEHAJ                              | P | P | A | P | P | P |
| 72 | 37120072 | 17SIT916 | SOWMIYA K                           | P | P | P | P | P | P |
| 73 | 37120073 | 17SIT917 | SOWNDHARYAK                         | P | P | P | P | P | P |
| 74 | 37120074 | 17SIT918 | SUBHIKSHAC                          | P | P | P | P | P | A |
| 75 | 37120075 | 17SIT527 | SUPRIYAS                            | P | P | P | P | P | P |
| 76 | 37120076 | 17SIT528 | SURUTHI M                           | P | P | P | P | P | P |
| 77 | 37120077 | 17SIT808 | SYEDMUBBAS<br>HIRNAJMUL             | P | P | P | P | P | P |
| 78 | 37120078 | 17SIT529 | THAMIZHARA<br>SIM                   | P | A | P | P | P | P |
| 79 | 37120079 | 17SIT015 | VAISHNAVI D                         | P | P | P | P | P | P |

|     |          |           |                           |   |   |   |   |   |   |
|-----|----------|-----------|---------------------------|---|---|---|---|---|---|
| 80  | 37120080 | 17SIT809  | VAJRAPUULLAS              | P | P | A | P | P | P |
| 81  | 37120081 | 17SIT919  | VARSHAM                   | P | P | P | P | P | P |
| 82  | 37120082 | 17SIT810  | VEDHANAYAKIR              | P | A | P | P | P | P |
| 83  | 37120083 | 17SIT014  | VEMANAAKHI<br>LNEERAJ     | P | P | P | P | P | P |
| 84  | 37120084 | 17SIT910  | VIJAY VINAYAK<br>R        | P | P | A | P | P | P |
| 85  | 37120085 | 17SIT016  | YALAMANCHI                | P | P | P | P | A | P |
|     |          |           | LIVENKATASAI              |   |   |   |   |   |   |
| 86  | 37120086 | 17SIT017  | YEECHURISA<br>NTHOSH      | P | P | P | P | P | P |
| 87  | 38120076 | 18SIT9032 | SANTOSHKUMAR              | P | P | P | P | P | P |
| 88  | 38120077 | 18SIT5015 | SARAPHILO<br>MIN.V        | P | P | P | A | P | P |
| 89  | 38120078 | 18SIT9047 | SHIVA.M                   | P | P | P | P | P | P |
| 90  | 38120079 | 18SIT1003 | SMRITHIL.R                | P | P | P | P | P | P |
| 91  | 38120080 | 18SIT9055 | SOLAPURIMA<br>NMOHAN      | P | P | P | P | P | P |
| 92  | 38120081 | 18SIT9013 | SOUNDHARYA.S              | P | P | A | P | P | P |
| 93  | 38120082 | 18SIT9033 | SWETHA.V                  | P | P | P | P | P | P |
| 94  | 38120083 | 18SIT5029 | TRAGHULSUD<br>HARSAN      | P | P | P | P | P | P |
| 95  | 38120084 | 18SIT9004 | TEKKIDEEPA<br>K           | P | P | P | P | P | A |
| 96  | 38120085 | 18SIT5016 | THILAKDARSHAN.<br>V       | P | P | P | P | P | P |
| 97  | 3512119  | 15SIT153  | RAMANAVISH<br>NUSAI REDDY | P | P | P | P | P | P |
| 98  | 3512120  | 15SIT818  | RAMYA.M                   | P | P | P | P | P | P |
| 99  | 3512122  | 15SIT134  | RAVURIMANO<br>JKUMAR      | P | A | P | P | P | P |
| 100 | 3512124  | 15SIT824  | REETHIKA.R                | P | P | P | P | P | P |
| 101 | 3512125  | 15SIT819  | REVAA.M                   | P | P | A | P | P | P |



SIGNATURE OF COURSE COORDINATOR



SIGNATURE OF HEAD OF THE DEPARTMENT





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## Certificate of Completion

This is to certify that

**BURRI.JANAKIRAM REDDY**

has attended and successfully completed the course on

**Java Programming** conducted by Department of Information Technology

from September 2018 to November 2018.

**DR. R. SUBHASHINI**  
HOD - Department of IT

**DR. T. SASIKALA**  
Dean - School of Computing



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**AKASHRN**

has attended and successfully completed the course on

**Java Programming** conducted by Department of Information Technology

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**ABISHEKS**

has attended and successfully completed the course on

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This is to certify that

**ABHINASHKUMAR**

has attended and successfully completed the course on

**Java Programming** conducted by Department of Information Technology

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## DEPARTMENT OF INFORMATION TECHNOLOGY

**Organizes**

*Training Program in*

**COMPUTER  
NETWORKING**

**DATE**

**06.02.2019 - 07.04.2019**



**30 Hours**

**Registration Link:**

**CONTACT :-  
Mrs.Brumancia**

**[shorturl.at/gkuG1](http://shorturl.at/gkuG1)**



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## **Course Outcome:**

Computer networking:

To impart knowledge on

- Identify and use various networking components Understand different transmission media and design cables for establishing a network
- Implement any topology using network devices
- Analyze performance of various communication protocols.
- Compare routing algorithms
- Understand the TCP/IP configuration for Windows and Linux
- Implement device sharing on network
- Learn the major software and hardware technologies used on computer networks



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## **Course Contents:**

### **Week1:**

**4Hrs**

Basic Concepts of Cloud Computing, Computer Network Basics, Concepts of Distributed Systems.

### **Week2:**

**4Hrs**

Concepts of Cloud Computing and its Necessity, Cloud Service Providers in use and their Significance, Cloud Infrastructure, Cloud Pros and Cons.

### **Week3:**

**4Hrs**

Cloud Delivery Models, Cloud Deployment Models, Cloud Storage Management.

### **Week4:**

**4Hrs**

Cloud Storage Management, Concept of Virtualization and Load Balancing, on Virtualization used for Enterprise Solutions.

Overview

### **Week5:**

**4Hrs**

Key Challenges in managing Information, Identifying the problems of scale and management in big data, Building Cloud Networks

### **Week6:**

**4Hrs**

Designing and Implementing a Data Center- Based Cloud, Installing Open Source Cloud service. Amazon Web Services(AWS).

### **Week7:**

**3Hrs**

Google Cloud Platform, Cloud Security, Infrastructure Security

### **Week8:**

**3Hrs**

Network level security, Host level security, Application level security, Data privacy and security Issues, Access Control and Authentication in cloud computing.



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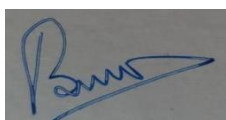
## List of Enrolled Students

| S.No | Reg. No | Roll .No | Name                            | 6.2.19 | 20.2.19 | 8.3.19 | 15.3.19 | 26.3.19 | 7.4.19 |
|------|---------|----------|---------------------------------|--------|---------|--------|---------|---------|--------|
| 1    | 3512126 | 15SIT542 | RISHAVKUMAR                     | P      | P       | P      | P       | P       | P      |
| 2    | 3512127 | 15SIT534 | RISHIKUMAR.S                    | P      | A       | P      | P       | P       | P      |
| 3    | 3512129 | 15SIT152 | SAIVENKATES H.M                 | P      | P       | P      | P       | P       | P      |
| 4    | 3512130 | 15SIT963 | SAJALARORA                      | P      | P       | A      | P       | P       | P      |
| 5    | 3512131 | 15SIT909 | SAMREEN.G.N                     | P      | P       | P      | P       | A       | P      |
| 6    | 3512132 | 15SIT905 | SANASAIPRAS ANKUMAR             | P      | P       | P      | P       | P       | P      |
| 7    | 3512133 | 15SIT964 | SANDHIYA.M                      | P      | P       | P      | P       | P       | P      |
| 8    | 3512134 | 15SIT136 | SANTHIYA.K                      | P      | P       | P      | A       | P       | P      |
| 9    | 3512135 | 15SIT117 | SARVEPALLI JAAHNAVI             | P      | P       | P      | P       | P       | P      |
| 10   | 3512136 | 15SIT919 | SHAIKARIFPA SHA.S               | P      | P       | P      | P       | P       | P      |
| 11   | 3512137 | 15SIT137 | SHAILESHKUMAR                   | P      | P       | P      | P       | P       | P      |
| 12   | 3512138 | 15SIT138 | SHOMYASHRISTI                   | P      | P       | A      | P       | P       | P      |
| 13   | 3512139 | 15SIT829 | SHRISTIKARDATE                  | P      | P       | P      | P       | P       | P      |
| 14   | 3512140 | 15SIT536 | SHASHANKSONI                    | P      | P       | P      | P       | P       | P      |
| 15   | 3512141 | 15SIT912 | SINDHU. K                       | P      | P       | P      | P       | P       | A      |
| 16   | 3512143 | 15SIT825 | SOWMIYA.G                       | P      | P       | P      | P       | P       | P      |
| 17   | 3512144 | 15SIT831 | SRIJANANI. B                    | P      | P       | P      | P       | P       | P      |
| 18   | 3512145 | 15SIT537 | SUGUMARAN. B                    | P      | P       | P      | P       | P       | P      |
| 19   | 3512146 | 15SIT965 | SUNDHARI. G                     | P      | A       | P      | P       | P       | P      |
| 20   | 3512147 | 15SIT556 | SUNKARASAI NATH                 | P      | P       | P      | P       | P       | P      |
| 21   | 3512149 | 15SIT821 | SURUTHI.S                       | P      | P       | A      | P       | P       | P      |
| 22   | 3512151 | 15SIT154 | TIMMASAMU DRAMYAGNA SRI SAMHITA | P      | P       | P      | P       | P       | P      |
| 23   | 3512153 | 15SIT822 | VAKULA.C.K                      | P      | A       | P      | P       | P       | P      |

|    |          |          |                                           |   |   |   |   |   |   |
|----|----------|----------|-------------------------------------------|---|---|---|---|---|---|
| 24 | 3512156  | 15SIT143 | VATTIKUTISAI<br>BALAJI                    | P | P | P | P | P | P |
| 25 | 3512157  | 15SIT144 | VEDULLAPOO<br>RNACHANDR<br>AGANESH PRASAD | P | P | A | P | P | P |
| 26 | 3512158  | 15SIT145 | VEDULLAPAL<br>LILOKESHCHA<br>NDRA         | P | P | P | P | A | P |
| 27 | 3512160  | 15SIT148 | VENKATASAI<br>AMPATHNAD                   | P | P | P | P | P | P |
|    |          |          | AKUDITI                                   |   |   |   |   |   |   |
| 28 | 3512162  | 15SIT149 | VISHALI.S                                 | P | P | P | P | P | P |
| 29 | 37120054 | 17SIT815 | POLISHETTYU<br>PENDHERRAO                 | P | P | P | A | P | P |
| 30 | 3612178  | 16SIT564 | SNEHILSINGH                               | P | P | P | P | P | P |
| 31 | 3612182  | 16SIT901 | SRUNGARAPU<br>VENKATA SAI<br>KARTHIKEYA   | P | P | P | P | P | P |
| 32 | 3612183  | 16SIT549 | STEPHEN.K                                 | P | P | P | P | P | P |
| 33 | 3612185  | 16SIT945 | SHUBHAMKU MAR                             | P | P | A | P | P | P |
| 34 | 3612186  | 16SIT551 | SUPRIYAMAN<br>DAL                         | P | P | P | P | P | P |
| 35 | 3612190  | 16SIT032 | SYEDAARIFSU<br>HAIBQADRI                  | P | P | P | P | P | P |
| 36 | 3612191  | 16SIT824 | TAMILBHARA<br>THI.R                       | P | P | P | P | P | A |
| 37 | 3612192  | 16SIT031 | THORATISRINI<br>VASMANIKAN<br>TA          | P | P | P | P | P | P |
| 38 | 3612194  | 16SIT562 | UDAYANCHO<br>UDHURY                       | P | P | P | P | P | P |
| 39 | 3612197  | 16SIT916 | VEERABOMM<br>ASAIRITHIKA                  | P | P | P | P | P | P |
| 40 | 3612198  | 16SIT825 | VEMULATSLV<br>DURGAPRATH<br>YUSHA         | P | A | P | P | P | P |
| 41 | 3612200  | 16SIT922 | VIKRAMKUM<br>ARMEHTA                      | P | P | P | P | P | P |
| 42 | 3612201  | 16SIT555 | VINOTH.R                                  | P | P | A | P | P | P |
| 43 | 3612202  | 16SIT968 | VINOTHINI.R                               | P | P | P | P | A | P |
| 44 | 3612203  | 16SIT969 | VISHALINI.J                               | P | P | P | P | P | P |
| 45 | 3612204  | 16SIT826 | VISHWAPRIYA<br>.S                         | P | P | P | P | P | P |
| 46 | 3612205  | 16SIT026 | VUDUMSHIVA<br>KRISHNA                     | P | A | P | P | P | P |
| 47 | 3612206  | 16SIT556 | VUPPALANCH<br>USAIKUMAR                   | P | P | P | P | P | P |
| 48 | 3612212  | 16SIT827 | ROSLINKANU<br>SHYA                        | P | P | A | P | P | P |
| 49 | 3612213  | 16SIT837 | INFANT<br>PHILORAJULA<br>.B               | P | P | P | P | A | P |
| 50 | 3612214  | 16SIT838 | MEENAKSHI.A                               | P | P | P | P | P | P |



|    |          |           |                         |   |   |   |   |   |   |
|----|----------|-----------|-------------------------|---|---|---|---|---|---|
| 51 | 3612801  | 17SLIT701 | DURAINIVETH<br>AN.MA    | P | P | P | P | P | P |
| 52 | 38120086 | 18SIT8001 | THOMSONYES<br>HWANTH.JM | P | P | P | A | P | P |
| 53 | 38120087 | 18SIT5025 | VAIBHAVVISHAL           | P | P | P | P | P | P |
| 54 | 38120088 | 18SIT5035 | VAISHNAVY.P             | P | P | P | P | P | P |
| 55 | 38120089 | 18SIT5020 | VASAN.S K               | P | P | P | P | P | P |
| 56 | 38120090 | 18SIT9029 | VIGNESH.G               | P | P | A | P | P | P |
| 57 | 38120091 | 18SIT5018 | VINAYAKSUB<br>ODHRANJAN | P | P | P | P | P | P |
| 58 | 38120092 | 18SIT9019 | VINITHA.S               | P | P | P | P | P | P |
| 59 | 38120093 | 18SIT9048 | VINOTH.V                | P | P | P | P | P | A |
| 60 | 38120094 | 18SIT5019 | VISHNU. P               | P | P | P | P | P | P |
| 61 | 38120095 | 18SIT5040 | YAHYAIBRAH<br>IMIMTIAZ  | P | P | P | P | P | P |
| 62 | 38120096 | 18SIT5027 | YASHSWIKAU<br>SHIK      | P | P | P | P | P | P |
| 63 | 38120097 | 18SIT9023 | YUVASRI. J              | P | A | P | P | P | P |
| 64 | 38120098 | 18SIT5041 | SIVAKUMAR.S             | P | P | P | P | P | P |
| 65 | 38120099 | 18SIT5042 | YADAVMANIS<br>HUDAY     | P | P | A | P | P | P |



SIGNATURE OF COURSE COORDINATOR



SIGNATURE OF HEAD OF THE DEPARTMENT



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## CERTIFICATE OF COMPLETION

This is to certify that

**SIVAKUMAR. S**

has attended and successfully completed the course on

**Computer Networking** conducted by Department of Information Technology

from February 2019 to April 2019.

**Dr. R. Subhashini**  
HOD - Department of IT

**Dr. T. Sasikala**  
Dean - School of Computing



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has attended and successfully completed the course on  
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## CERTIFICATE OF COMPLETION

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**SAJALARORA**

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**SAIVENKATESH.M**

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## CERTIFICATE OF COMPLETION

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**RISHIKUMAR.S**

has attended and successfully completed the course on

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**Dr. T. Sasikala**  
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## DEPARTMENT OF CHEMISTRY

Cordially invites you to the **DST-SERB**  
sponsored five day Workshop on  
**“CHALLENGES AND ADVANCES  
IN COMPUTATIONAL  
CHEMISTRY CACCh-2018”**

To be held from 08-January-2018 to 12-January-2018 at  
**SATHYABAMA**  
Institute of Science and Technology



### ABOUT SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Sathyabama is a pioneer in engineering education and was established with the aim of providing quality higher education in the areas of Engineering, Science and Technology on par with International standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. Having acquired excellence in the academic part of education with all sophisticated facilities available, Sathyabama has established several research centres in the field of Remote Sensing & Geo Informatics, Nano Technology, Ocean Research, Water Research, Robotics, Earth & Atmospheric Sciences, Non Destructive Testing & Waste Management in collaborations with esteemed National Research organizations and are progressively working towards innovation in the field of Science & Technology. Sathyabama has been accredited with 'A' grade by National Assessment and Accreditation Council (NAAC) and ISO 9001: 2008 Certification for Professional Quality Management Practices. It has undertaken various sponsored and collaborative research and development projects funded by national organizations such as Indian Space Research Organization (ISRO), Department of Science and Technology (DST), Indira Gandhi Centre for Atomic Research (IGCAR), Defence Research and Development Organization (DRDO), Department of Bio-Technology (DBT), Ministry of Environment and Forests (MoEF), Board of Research in Nuclear Sciences (BRNS) etc. Sathyabama holds great promise to expand the applications of space technology, benefiting the common man and enriching the quality of life. A step towards achieving this, the institution is successfully conducting non formal education programmes through 18 Village Resources Centre (VRCs) all over the state of Tamil Nadu.

### ABOUT THE DEPARTMENT OF CHEMISTRY

The Department of Chemistry was started right from the inception of Sathyabama in the year 1988. It has well-established laboratories equipped with sophisticated instruments, which fulfil the needs of PG and Ph. D students. The department has highly qualified faculty and more than 20 Ph. D students. It has doctorates from reputed institutions like IIT, NIT CECRI, NML, etc. and published more than 75 research papers in reputed journals with high impact factor. The department has undertaken many research projects funded by CSIR, ISRO, DST and IGCAR.

### NATIONAL ADVISORY COMMITTEE

Dr. Rajaraman, Associate Professor, IIT Bombay  
Dr. Gunasekaran K, Associate Professor, University of Madras  
Dr. Narahari Sastry G, Sr. Principal Scientist, Centre for Molecular Modelling, CSIR-IICT, Hyderabad.  
Dr. Naresh Kandakatla, Manager R&D & Production at Helios Bio Nutrition Pvt. Ltd.  
Dr. Geetha Swaminathan, Former Vice Principal, Stella Maris College, Chennai.  
Dr. K. Shyamala, Former Head, Department of Bioinformatics, Stella Maris College  
Dr. R. Karvembu, Associate Professor, Department of Chemistry, NIT Trichy  
Dr. A. Nityananda Shetty, Professor, NITK, Suratkal

## OBJECTIVES AND IMPORTANCE OF THE WORKSHOP

Chemists have been involved in computations for ages, but what we know as Computational Chemistry is a product of the digital age. However, Computational Chemistry did not come into its own until 1998 when Walter Kohn and John Pople won the Nobel Prize for Chemistry for their work in Density Functional Theory and Computational methods in Quantum Chemistry. It is a rapidly growing field of Chemistry and is now firmly established as an indispensable tool in the hands of researchers to carry out studies hitherto unachievable by conventional methodologies. This interesting field of study helps to create spectral profile simulations, modelling and designing molecules, understand structure activity relationships, homology modelling, design more productive and efficient processes, protein structure visualization, in molecular dynamics and in short to extract useful knowledge from oceans of data.

To bring about a better understanding of the scope of Computational Chemistry and its application in current research and education by UG and PG students and teachers, research scholars, etc., the Department of Chemistry has organized a five day Workshop on the Challenges and Advances in Computational Chemistry 2018 (CACCh-2018) that will focus on the molecular mechanism underlying human health and disease. This workshop will provide a comprehensive theoretical and practical hands-on training to all the participants on molecular modelling and drug design.

### COURSE OUTCOME;

- ✓ Understand the theoretical spectral profile simulations, modelling and designing molecules.
- ✓ Assess the structure activity relationships, homology modelling and protein structure.

### CONVENER

Ms. JANET SABINA X

Assistant Professor

Department of Chemistry

Sathyabama Institute of Science and Technology

Rajiv Gandhi Salai

Chennai – 600119

REGISTRATION FEE: RS. 2000 (For PG Students: Rs. 1000)

Kindly confirm your participation through phone or email. Registration through SMS to 9445362213.

Email: [janetjeyakumar@gmail.com](mailto:janetjeyakumar@gmail.com)

| <b>Dr. Parthiban Srinivasan,<br/>Parthys Reverse<br/>Informatics, Chennai</b> | <b>Keynote Address</b>                                                                                                      |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Dr. Gunasekaran,<br/>University of Madras</b>                              | XRD: An inevitable partner of Chemistry                                                                                     |
| <b>Dr. Naresh Kandakatla,<br/>Helios Pvt. Ltd., Hyderabad</b>                 | Chemical structure drawing: 2D and 3D.<br>Molecular Modelling – Discovery Studio                                            |
| <b>Dr. M. Karthikeyan, NCL,<br/>Pune</b>                                      | Chemoinformatics for drug discovery                                                                                         |
| <b>Dr. Thiagarajan, IBAB,<br/>Bangalore</b>                                   | Virtual screening and rational drug<br>design: principles and applications                                                  |
| <b>Dr. Xavier Suresh,<br/>Sathyabama</b>                                      | Molecular modelling - AutoDock                                                                                              |
| <b>Dr. Athi Naganathan, IIT<br/>Madras</b>                                    | Theoretical models of protein folding:<br>myth or reality?                                                                  |
| <b>Dr. Madhavan Jacob,<br/>Loyola College</b>                                 | Fundamentals of Electronic structure<br>calculations<br>Role of computation on the signature and<br>reactivity of molecules |
| <b>Dr. Mukesh Dhoble, IIT<br/>Madras</b>                                      | Computer aided design of anti-<br>inflammatory drugs<br>Pharmacophore modelling                                             |
| <b>Dr. Rajaraman, IIT Bombay</b>                                              | Computing spectral parameters using<br>ORCA                                                                                 |
| <b>Dr. Deva Priyakumar, IIIT<br/>Hyderabad</b>                                | Computational Studies on the Mechanism<br>of Selection and Permeation Across Ion<br>Channels                                |

## HIGHLIGHTS

- Eminent scientists from IIT Madras, Bombay, Hyderabad, Bangalore, Pune and the industry will deliver talks on various topics in Computational Chemistry
- Practical and interactive session with eminent personalities
- A highly comprehensive five day programme that will enrich all researchers in this field.

**DAYWISE SCHEDULE FOR THE FIVE DAY DST-SERB SPONSORED WORKSHOP ON  
“CHALLENGES AND ADVANCES IN COMPUTATIONAL CHEMISTRY CACCh-2018”**

|                             |                      |                                                                |                                                                               |
|-----------------------------|----------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>DAY I (08-01-2018)</b>   |                      |                                                                |                                                                               |
| 9:30 am – 10:00 am          | Inauguration         |                                                                |                                                                               |
| 10:00 am – 10:15 am         | Tea break            |                                                                |                                                                               |
| 10:15 am – 11:15 am         | Lecture - 1          | Dr. Parthiban Srinivasan, Parthys Reverse Informatics, Chennai | Keynote Address                                                               |
| 11:15 am to 12:15 pm        | Lecture – 2          | Dr. Gunasekaran, University of Madras                          | XRD: An inevitable partner of Chemistry                                       |
| 12:15 pm – 1:00 pm          | Lunch                |                                                                |                                                                               |
| 1:00 pm – 3:00 pm           | Practical Session -1 | Dr. Naresh Kandakatla, Helios Pvt. Ltd., Hyderabad             | Chemical structure drawing: 2D and 3D. Molecular Modelling – Discovery Studio |
|                             |                      |                                                                |                                                                               |
| <b>DAY II (09-01-2018)</b>  |                      |                                                                |                                                                               |
| 9:30 am – 10:30 am          | Lecture – 3          | Dr. M. Karthikeyan, NCL, Pune                                  | Chemoinformatics for drug discovery                                           |
| 10:30 am – 11: 00 am        | Tea break            |                                                                |                                                                               |
| 11:00 am – 12:00 noon       | Lecture – 4          | Dr. Thiyagarajan, IBAB, Bangalore                              | Virtual screening and rational drug design: principles and applications       |
| 12:00 noon – 1: 00 pm       | Lunch                |                                                                |                                                                               |
| 1:00 pm – 3:00 pm           | Practical Session -2 | Dr. Xavier Suresh, Sathyabama                                  | Molecular modelling - AutoDock                                                |
|                             |                      |                                                                |                                                                               |
| <b>DAY III (10-01-2018)</b> |                      |                                                                |                                                                               |
| 9:30 am – 10:30 am          | Lecture – 5          | Dr. Athi Naganathan, IIT Madras                                | Theoretical models of protein folding: myth or reality?                       |
| 10:30 am – 11: 00 am        | Tea break            |                                                                |                                                                               |
| 11:00 am – 12:00 noon       | Lecture – 6          | Dr. Madhavan Jacob, Loyola College                             | Fundamentals of Electronic structure calculations                             |

|                            |                       |                                     |                                                                                        |
|----------------------------|-----------------------|-------------------------------------|----------------------------------------------------------------------------------------|
| 12:00 noon – 1: 00 pm      | Lunch                 |                                     |                                                                                        |
| 1:00 pm – 3:00 pm          | Lecture - 7           | Dr. Madhavan Jacob, Loyola College  | Role of computation on the signature and reactivity of molecules                       |
|                            |                       |                                     |                                                                                        |
| <b>DAY IV (11-01-2018)</b> |                       |                                     |                                                                                        |
| 9:30 am – 10:30 am         | Lecture - 8           | Dr. Mukesh Dhoble, IIT Madras       | Computer aided design of anti-inflammatory drugs                                       |
| 10: 30 am – 10:45 am       | Tea break             |                                     |                                                                                        |
| 10:45 am – 12:30 pm        | Practical Session - 3 | Dr. Mukesh Dhoble, IIT Madras       | Pharmacophore modelling                                                                |
| 12:30 pm – 1: 30 pm        | Lunch                 |                                     |                                                                                        |
| 1:30 pm – 3:00 pm          | Lecture - 9           | Dr. Rajaraman, IIT Bombay           | Computing spectral parameters using ORCA                                               |
|                            |                       |                                     |                                                                                        |
| <b>Day V (12-01-2018)</b>  |                       |                                     |                                                                                        |
| 10:30 am – 11:00 am        | Tea break             |                                     |                                                                                        |
| 11:00 – 12:00 noon         | Lecture – 10          | Dr. Deva Priyakumar, IIIT Hyderabad | Computational Studies on the Mechanism of Selection and Permeation Across Ion Channels |
| 12:00 noon – 1: 00 pm      | Lunch                 |                                     |                                                                                        |
| 1:00 pm – 1: 30 pm         | Valedictory           |                                     |                                                                                        |





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**Challenges And Advances In Computational Chemistry Cacch-2018**  
Jan 8<sup>th</sup> -12<sup>th</sup> 2018  
Attendance Sheet

| Name of the Student   | Register number | 08/1 | 09/1 | 10/1 | 11/1 | 12/1 |
|-----------------------|-----------------|------|------|------|------|------|
| AISHWARYA KUMARI      | 37030001        | P    | P    | P    | P    | P    |
| ANUJA IRIN LAKRA      | 37030002        | P    | P    | P    | P    | P    |
| KONDEPONGU<br>DEVAIAH | 37030006        | P    | P    | P    | P    | P    |
| M.JANANI              | 3691002         | P    | P    | P    | P    | P    |
| A. SANGEETHA          | 3691003         | P    | P    | P    | P    | P    |
| J.K. SHABANA AZMI     | 3691004         | P    | P    | P    | P    | P    |

*X. Janet Sabina*

Ms.X.Janet sabina  
Convener, CACCh 2018

*J. Karthikeyan*

Dr. J. Karthikeyan  
Head, Department of Chemistry

HEAD OF THE DEPARTMENT  
DEPARTMENT OF CHEMISTRY  
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Jeppiaar Nagar, Rajiv Gandhi Salai  
Chennai - 600 119



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JEPPIAR NAGAR, RAJIV GANDHI SALAI  
CHENNAI - 600119

## DEPARTMENT OF CHEMISTRY

This is to certify that Dr. / Mr. /Ms. **AISHWARYA KUMARI**,  
**Reg.no. 37030001**, Dept of chemistry, Sathyabama Institute of  
**Science and Technology** has participated in the five day DST-SERB  
sponsored workshop and successfully completed the 30 hour  
Value added course on "CHALLENGES AND ADVANCES IN  
COMPUTATIONAL CHEMISTRY CACCh-2018" organized by the  
Department of Chemistry, Sathyabama Institute of Science and  
Technology from 08<sup>th</sup> January 2018 to 12<sup>th</sup> January 2018.

Dr. J. Karthikeyan  
Head, Department of Chemistry

Ms. X. Janet Sabina  
Convener, CACCh-2018



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*J. Karthikeyan*

Dr. J. Karthikeyan  
Department of Chemistry

*X. Janet Sabina*

Ms. X. Janet Sabina Head,  
Convener, CACCh-2018



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CHENNAI - 600119

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Reg.no. 37030006, Dept of chemistry, Sathyabama Institute of  
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*J. Karthikeyan*

Dr. J. Karthikeyan  
Head, Department of Chemistry

*X. Janet Sabina*

Ms. X. Janet Sabina  
Convener, CACCh-2018