



**MOHAMED SATHAK A J COLLEGE OF ENGINEERING**

Sponsored by Mohamed Sathak Trust

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Siruseri IT Park, Egattur, Chennai 603 103

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**Add on/Certificate programs**

**Academic Year 2017 – 2018**

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**PRINCIPAL**  
**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
Siruseri IT Park (OMR), Siruseri, IT Park  
Chennai-603 103.



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### Value Added Course

2017-2018

| S.No | Name of Add on /<br>Certificate programs<br>offered        | Course Code(if<br>any)<br>Collaboration<br>Details | Year of<br>offering | Number of<br>students<br>completing the<br>course this year | Type of Add-on<br>Course |
|------|------------------------------------------------------------|----------------------------------------------------|---------------------|-------------------------------------------------------------|--------------------------|
| 1    | Revit Architecture                                         | -                                                  | 2017-<br>2018       | 60                                                          | Self Framed<br>Course    |
| 2    | Python Fullstack                                           | -                                                  | 2017-<br>2018       | 49                                                          | Self Framed<br>Course    |
| 3    | Introduction to PLC and<br>SCADA                           | -                                                  | 2017-<br>2018       | 51                                                          | Self Framed<br>Course    |
| 4    | CAD Modeling Using<br>CATIA V5                             | -                                                  | 2017-<br>2018       | 83                                                          | Self Framed<br>Course    |
| 5    | CNC Programming                                            | -                                                  | 2017-<br>2018       | 102                                                         | Self Framed<br>Course    |
| 6    | PC Hardware &<br>Networking<br>Troubleshooting<br>Problems | -                                                  | 2017-<br>2018       | 147                                                         | Self Framed<br>Course    |

  
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Ref: MSAJCE / PO 103 / 2017-2018

Date: 8.2.2017

**CIRCULAR**

This is to inform the following faculty members to attend the meeting on 9.2.2017 in principal chamber to design the curriculum for the ADD-ON program on “Revit Architecture”.

| S.NO | Faculty Name              | Designation         | Signature                |
|------|---------------------------|---------------------|--------------------------|
| 1    | Dr. Gajalakshmi           | Professor           | <i>Gajalakshmi</i>       |
| 2    | Dr. R.Ravi                | Professor           | <i>Ravi</i>              |
| 3    | Mr. B.Rizha Ur Rahman     | Assistant Professor | <i>B.Rizha Ur Rahman</i> |
| 4    | MS. S. Sharmila Ponnammal | Assistant Professor | <i>Sharmila</i>          |

*[Signature]*  
Principal 8/2/17

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*[Signature]*  
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**DEPARTMENT OF CIVIL ENGINEERING**

From ,

Dr. Gajalakshmi  
Head of the Department  
Department of Civil Engineering  
Mohamed Sathak A.J. College of Engineering,  
Chennai – 603103.

To

The Principal,  
Mohamed Sathak A.J. College of Engineering,  
Chennai – 603103.

Respected Sir,

Sub: Permission for conducting ADD on course – reg.

With reference to the above cited subject, we have proposed to conduct ADD on courses for the students of Civil Engineering department. The selected courses are useful to the students for learning the emerging technical fields.

Kindly provide the permission for the same.

| Year/Sem       | Title              | Dates                    |
|----------------|--------------------|--------------------------|
| III/VI - Civil | Revit Architecture | 11/12/2017 to 15/12/2017 |

Thanking you

Place : Chennai

Date: 4/12/2017

Your's faithfully

**PRINCIPAL**

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Egattur, Chennai 603 103

**DEPARTMENT OF CIVIL ENGINEERING**

From,

Dr. Gajalakshmi  
Head Of The Department  
Department of Civil Engineering  
Mohamed Sathak A.J. College of Engineering,  
Chennai – 603103.

To

The Principal,  
Mohamed Sathak A.J. College of Engineering,  
Chennai – 603103.

Respected Sir,

Sub: Assigning of faculty for VAC course curriculum design for the academic year 2017-2018 reg.

Ref: Letter of Requisition for the appointment of faculty for ADD on course curriculum design for the academic year 2017-2018 Dated 11/12/2017 to 15/12/2017.

The undersigned appreciates the department for proposing to conduct such kind of programme. As per your recommendation and referring to the above subject. I am pleased to nominate the following faculty members for ADD on course curriculum design.

The above listed faculty is hereby instructed to design the curriculum taking in to consideration the thrust areas of the respective field and ensure it should enhance the employability opportunities for the students.

| Title              | Name of the Faculty           |
|--------------------|-------------------------------|
| Revit Architecture | Mr.B.Rizha Ur Rahman AP/CIVIL |

Thanking you

Place : Chennai

Date: 4/12/2017

**PRINCIPAL**  
**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park  
Chennai-603 103.

Your's faithfully

*C. Ciyar*  
4/12/2017



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**DEPARTMENT OF CIVIL ENGINEERING**

Date: 04/12/2017

MSAJCE/CIVIL/COE/01/2017-2018

**CIRCULAR**

It is hereby informed to Third Year students of CIVIL department Revit Architecture is arranged from 11/12/2017 to 15/12/2017 at BIM lab. All are advised to attend positively.

*G. Ciyas*  
4/12/2017  
Head of Department

*[Signature]*

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**DEPARTMENT OF CIVIL ENGINEERING**

**COURSE MODULE**  
**B.E CIVIL ENGINEERING ( REGULATIONS 2013 )**

**ADD ON COURSE**  
**REVIT ARCHITECTURE**

**L T P C**  
**1 0 2 2**

**OBJECTIVES:**

- The objective of this course is to impart necessary and practical knowledge of Building Information Modeling (BIM) and Communicate a design idea, structural detailing, concept graphically, visually in 3D Infrastructural Modeling.

**Unit I : Create one floor plan as per Auto cad**

**9**

- Introduction to Revit Architecture – History, Versions
- Exploring GUI, Work spaces, Starting a new project

**Unit II : Drawing Tools**

**9**

- Wall – (Location line, Materials)
- Line, Circle, Arc, Polygon, Rectangle

**Unit III : Create one 2D Floor plan with Doors and Windows with export and Documentation**

**9**

- Components : Door 2D, Window 2D, Furniture 2D, Modify Tools : Import from Auto CAD export as PDF file
- Railings – Add railings, Add railings by sketching, Modify railing, Modify continuous rail.

**Unit IV : Double storey Elevation**

**9**

- Curtain wall (Adding curtain Grids, Mullions)
- Elevation, section, 3D View, Background, Cropping View
- Visibility or Graphic View Templates, Duplicate Views, Visual style filter

**Unit V : Elevation Tools**

**9**

- Lights – Lighting fixtures
- Sun Settings
- Specifying sun Settings

**TOTAL: 45 HOURS**

  
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## DEPARTMENT OF CIVIL ENGINEERING

| Sl. No.                                                                                                                                     | Topic                                                                                                 | T / R* | Periods Required | Mode of Teaching |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------|------------------|------------------|
|                                                                                                                                             |                                                                                                       | Book   |                  |                  |
| 1                                                                                                                                           | Introduction to Revit Architecture – History, Versions                                                | TB     | 5                | Online           |
| 2                                                                                                                                           | Exploring GUI                                                                                         | TB     | 2                | Online           |
| 3                                                                                                                                           | Work spaces                                                                                           | TB     | 1                | Online           |
| 4                                                                                                                                           | Starting a new project                                                                                | RB     | 1                | Online           |
| 5                                                                                                                                           | Wall – (Location line , Materials)                                                                    | TB     | 5                | Online           |
| 6                                                                                                                                           | Line, Circle, Arc, Polygon, Rectangle                                                                 | TB     | 4                | Online           |
| 7                                                                                                                                           | Components : Door 2D, Window 2D, Furniture 2D, Modify Tools : Import from Auto CAD export as PDF file | TB     | 5                | Online           |
| 8                                                                                                                                           | Railings – Add railings, Add railings by sketching, Modify railing, Modify continuous rail.           | RB     | 4                | Online           |
| 9                                                                                                                                           | Curtain wall (Adding curtain Grids, Mullions)                                                         | TB     | 3                | Online           |
| 10                                                                                                                                          | Elevation, section, 3D View, Background, Cropping View                                                | RB     | 3                | Online           |
| 11                                                                                                                                          | Visibility or Graphic View Templates, Duplicate Views, Visual style filter                            | RB     | 3                | Online           |
| 12                                                                                                                                          | Lights – Lighting fixtures                                                                            | TB     | 3                | Online           |
| 13                                                                                                                                          | Sun Settings                                                                                          | RB     | 3                | Online           |
| 14                                                                                                                                          | Specifying sun Settings                                                                               | RB     | 3                | Online           |
| Quiz / Mini Projects / Model Developed if any                                                                                               |                                                                                                       |        |                  |                  |
| Quiz Conducted                                                                                                                              |                                                                                                       |        |                  |                  |
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**DEPARTMENT OF CIVIL ENGINEERING**

**Value added course summary 2017 - 18**

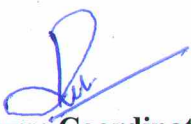
**Course code and Name** : Revit Architecture  
**Course Duration** : 45 Hours  
**Year offered** : III year Students 2017 - 18  
**Course Instructor** : Mr.B.Rizha Ur Rahman AP/Civil  
**Course Outcome** :

Upon completion of the course, A complete skill set, confidence and knowledge required to manage projects using Revit Architecture and the knowledge of industry-standard best practices to apply during the process of managing a project.

**Course Type** : Add on Course  
Theory and Practical with Hands on sessions

**Assessment Mode :**

**Attendance** : 45 Hours  
**No. of Participants** : 60  
**Scheme of Exam** : MCQ Online through GCR  
**Date of Exam** : 18/12/2017

  
**Course Coordinator**

  
**HoD**

  
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**DEPARTMENT OF CIVIL ENGINEERING**

Academic year 2017 – 2018

Enrolled Student Name List

| Sl.No | Name of the Student       | Register No. | Certificate Program Revit Architecture |
|-------|---------------------------|--------------|----------------------------------------|
| 1     | Abdul Azize F             | 311813103001 | ✓                                      |
| 2     | Abdul Habeeer A           | 311813103002 | ✓                                      |
| 3     | Abubacker Siddique G S    | 311813103003 | ✓                                      |
| 4     | Ahamed Riyaz A            | 311813103004 | ✓                                      |
| 5     | Ahamed Sahib S A          | 311813103005 | ✓                                      |
| 6     | Ahmed Jassim J            | 311813103006 | ✓                                      |
| 7     | Alen Litto Y              | 311813103007 | ✓                                      |
| 8     | Arun Kumar A              | 311813103008 | ✓                                      |
| 9     | Asarudeen Ahamed A        | 311813103009 | ✓                                      |
| 10    | Badapondara Krishna       | 311813103010 | ✓                                      |
| 11    | Balasaravanan R           | 311813103011 | ✓                                      |
| 12    | Balasuriyan M             | 311813103012 | ✓                                      |
| 13    | Bharathy T                | 311813103013 | ✓                                      |
| 14    | Fathil Karunai B          | 311813103014 | ✓                                      |
| 15    | Govindaraj V              | 311813103015 | ✓                                      |
| 16    | Hedvy Metchado F          | 311813103016 | ✓                                      |
| 17    | Jahangeer M               | 311813103017 | ✓                                      |
| 18    | Jaison S                  | 311813103018 | ✓                                      |
| 19    | Kamalakaran K             | 311813103019 | ✓                                      |
| 20    | Karthikeyan V             | 311813103020 | ✓                                      |
| 21    | Mohaideen Musafar Meera K | 311813103021 | ✓                                      |

  
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|    |                         |              |   |
|----|-------------------------|--------------|---|
| 22 | Mohamed Abdullah S Y    | 311813103022 | ✓ |
| 23 | Mohamed Azeemudeen M    | 311813103023 | ✓ |
| 24 | Mohamed Fadhil M        | 311813103024 | ✓ |
| 25 | Mohamed Ibrahim A M N   | 311813103025 | ✓ |
| 26 | Mohammed Asif A         | 311813103026 | ✓ |
| 27 | Mohammed Muzaffar S     | 311813103027 | ✓ |
| 28 | Muhaiyadeen Badusha O S | 311813103028 | ✓ |
| 29 | Nithindravid S          | 311813103029 | ✓ |
| 30 | Nithya R                | 311813103030 | ✓ |
| 31 | Preeta Rani S           | 311813103031 | ✓ |
| 32 | Ravichandran S          | 311813103032 | ✓ |
| 33 | Sabitha R               | 311813103033 | ✓ |
| 34 | Sakthivel K             | 311813103034 | ✓ |
| 35 | Salman Ahmed M          | 311813103035 | ✓ |
| 36 | Saravanan G             | 311813103036 | ✓ |
| 37 | Sathish K               | 311813103037 | ✓ |
| 38 | Sathiyaseelan K         | 311813103038 | ✓ |
| 39 | Selvakumar A            | 311813103039 | ✓ |
| 40 | Sulthan Nifras H        | 311813103040 | ✓ |
| 41 | Udayakumar S            | 311813103041 | ✓ |
| 42 | Vedanayaki K            | 311813103042 | ✓ |
| 43 | Vigneshkumar M          | 311813103043 | ✓ |
| 44 | Vijayavasan M           | 311813103044 | ✓ |
| 45 | Wasim Abbas M           | 311813103045 | ✓ |
| 46 | Farhan P                | 311813103301 | ✓ |
| 47 | Mohamed Ansar S         | 311813103302 | ✓ |
| 48 | Suresh M                | 311813103501 | ✓ |
| 49 | SOORIYAKUMAR V          | 311815103072 | ✓ |

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|    |                         |              |   |
|----|-------------------------|--------------|---|
| 50 | SRIRAM S                | 311815103074 | ✓ |
| 51 | THAMEEMUL ANSARI A      | 311815103077 | ✓ |
| 52 | UDHAYAKUMAR A           | 311815103078 | ✓ |
| 53 | UMAR FAROOQ K A         | 311815103079 | ✓ |
| 54 | AMEENULALTHAF A         | 311815103301 | ✓ |
| 55 | KARTHICK K              | 311815103303 | ✓ |
| 56 | MOHAMED RASIK S         | 311815103304 | ✓ |
| 57 | MOHAMED THOUFFIC M      | 311815103305 | ✓ |
| 58 | SHETTY VIKESH D         | 311815103307 | ✓ |
| 59 | VINOTHKUMAR L           | 311815103308 | ✓ |
| 60 | MOHAMED HYDER SHAREEF M | 311815103901 | ✓ |

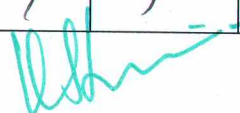
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**DEPARTMENT OF CIVIL ENGINEERING**

| Sl.No | Name of the Student       | Register No. | 11/12/2017 | 12/12/2017 | 13/12/2017 | 14/12/2017 | 15/12/2017 |
|-------|---------------------------|--------------|------------|------------|------------|------------|------------|
| 1     | Abdul Azize F             | 311813103001 | /          | /          | /          | /          | /          |
| 2     | Abdul Habeer A            | 311813103002 | /          | /          | /          | /          | /          |
| 3     | Abubacker Siddique G S    | 311813103003 | /          | /          | /          | /          | /          |
| 4     | Ahamed Riyaz A            | 311813103004 | /          | /          | /          | /          | /          |
| 5     | Ahamed Sahib S A          | 311813103005 | /          | /          | a          | /          | /          |
| 6     | Ahmed Jassim J            | 311813103006 | /          | /          | /          | /          | /          |
| 7     | Alen Litto Y              | 311813103007 | /          | /          | /          | /          | /          |
| 8     | Arun Kumar A              | 311813103008 | /          | /          | /          | /          | /          |
| 9     | Asarudeen Ahamed A        | 311813103009 | /          | /          | /          | /          | /          |
| 10    | Badapondara Krishna       | 311813103010 | /          | /          | /          | /          | /          |
| 11    | Balasaravanan R           | 311813103011 | /          | /          | /          | /          | /          |
| 12    | Balasuriyan M             | 311813103012 | /          | a          | /          | /          | /          |
| 13    | Bharathy T                | 311813103013 | /          | /          | /          | /          | /          |
| 14    | Fathil Karunai B          | 311813103014 | /          | /          | /          | /          | /          |
| 15    | Govindaraj V              | 311813103015 | /          | /          | /          | /          | /          |
| 16    | Hedvy Metchado F          | 311813103016 | /          | /          | /          | /          | /          |
| 17    | Jahangeer M               | 311813103017 | /          | /          | /          | /          | /          |
| 18    | Jaison S                  | 311813103018 | /          | /          | /          | /          | /          |
| 19    | Kamalakannan K            | 311813103019 | /          | /          | /          | /          | /          |
| 20    | Karthikeyan V             | 311813103020 | /          | /          | /          | /          | /          |
| 21    | Mohaideen Musafar Meera K | 311813103021 | a          | /          | /          | /          | /          |
| 22    | Mohamed Abdullah S Y      | 311813103022 | /          | /          | /          | /          | /          |
| 23    | Mohamed Azeemudeen M      | 311813103023 | /          | /          | /          | /          | /          |
| 24    | Mohamed Fadhil M          | 311813103024 | /          | /          | /          | /          | /          |

  
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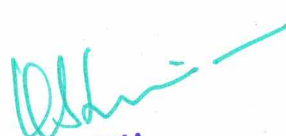
|    |                         |              |   |   |   |   |   |
|----|-------------------------|--------------|---|---|---|---|---|
| 25 | Mohamed Ibrahim A M N   | 311813103025 | / | / | / | / | / |
| 26 | Mohammed Asif A         | 311813103026 | / | a | / | / | / |
| 27 | Mohammed Muzaffar S     | 311813103027 | / | / | / | / | / |
| 28 | Muhaiyadeen Badusha O S | 311813103028 | / | / | / | / | / |
| 29 | Nithindravid S          | 311813103029 | / | / | / | / | / |
| 30 | Nithya R                | 311813103030 | / | / | / | / | / |
| 31 | Preeta Rani S           | 311813103031 | / | / | / | / | / |
| 32 | Ravichandran S          | 311813103032 | / | / | / | / | / |
| 33 | Sabitha R               | 311813103033 | / | / | / | / | / |
| 34 | Sakthivel K             | 311813103034 | / | / | / | / | / |
| 35 | Salman Ahmed M          | 311813103035 | / | / | / | / | / |
| 36 | Saravanan G             | 311813103036 | / | / | a | / | / |
| 37 | Sathish K               | 311813103037 | / | / | / | / | / |
| 38 | Sathiyaseelan K         | 311813103038 | / | / | / | / | / |
| 39 | Selvakumar A            | 311813103039 | / | / | / | / | / |
| 40 | Sulthan Nifras H        | 311813103040 | / | / | / | / | / |
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| 42 | Vedanayaki K            | 311813103042 | / | / | / | / | / |
| 43 | Vigneshkumar M          | 311813103043 | / | / | / | / | / |
| 44 | Vijayavasan M           | 311813103044 | / | / | / | / | / |
| 45 | Wasim Abbas M           | 311813103045 | / | / | / | / | / |
| 46 | Farhan P                | 311813103301 | / | / | / | / | / |
| 47 | Mohamed Ansar S         | 311813103302 | / | / | / | / | / |
| 48 | Suresh M                | 311813103501 | / | / | / | / | / |
| 49 | SOORIYAKUMAR V          | 311815103072 | / | / | / | / | / |
| 50 | SRIRAM S                | 311815103074 | / | / | / | / | / |
| 51 | THAMEEMUL ANSARI A      | 311815103077 | / | / | / | / | / |
| 52 | UDHAYAKUMAR A           | 311815103078 | / | / | a | / | / |

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|    |                            |              |   |   |   |   |   |
|----|----------------------------|--------------|---|---|---|---|---|
| 53 | UMAR FAROOQ K A            | 311815103079 | / | / | / | / | / |
| 54 | AMEENULALTHAF A            | 311815103301 | / | / | / | / | / |
| 55 | KARTHICK K                 | 311815103303 | / | / | / | / | / |
| 56 | MOHAMED RASIK S            | 311815103304 | / | / | / | / | / |
| 57 | MOHAMED THOUFFIC M         | 311815103305 | / | / | / | / | / |
| 58 | SHETTY VIKESH D            | 311815103307 | / | / | / | / | / |
| 59 | VINOTHKUMAR L              | 311815103308 | / | / | / | / | / |
| 60 | MOHAMED HYDER SHAREEF<br>M | 311815103901 | / | / | / | / | / |

  
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**DEPARTMENT OF CIVIL ENGINEERING**

1. A list of model elements that belong to a particular family type but that differ in size or other characteristics. Using \_\_\_\_\_ - you can load only the size you need - rather than loading the entire family type. For example - suppose that you want to

- ☐ Moment
- ☐ Type Catalog
- ☐ Project Browser
- ☐ Zoom

2. A representation of a building model: A Revit project file contains a database of information about a building model - and a \_\_\_\_\_ is one way of looking at that information. The Project Browser lists the views available for a project. These can incl

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- ☐ Project View
- ☐ Layer Mapping File

3. An open schema created to help building designers gather information about the energy consumption characteristics of building projects. To perform energy analysis for a building model - you can export a Revit project to \_\_\_\_\_. Using a third-party ap

- ☐ Panel
- ☐ Polymesh
- ☐ Centerline
- ☐ gbXML

4. A wall that is inserted into another wall of a different type or construction. \_\_\_\_\_ are useful - for example - when you need to create a storefront on a building exterior. The following image shows a curtain wall embedded in a host wall.

  
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**DEPARTMENT OF CIVIL ENGINEERING**

- ☐ Embedded Wall
- ☐ Type Parameters
- ☐ Architectural Column
- ☐ Core

5. An arrangement of elements in a building model. For example - in a large office - you can create an \_\_\_\_\_ of desks and chairs. In a structural design - you can create an \_\_\_\_\_ of beams or columns. You can create a linear \_\_\_\_\_ - in which the elements

- ☐ Pattern Component
- ☐ Project Standards
- ☐ Wireframe
- ☐ Array

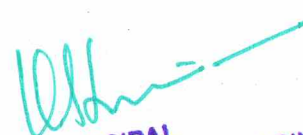
6. A functional area (such as structural - mechanical - electrical - or architectural) - or an area of expertise (such as architecture - structural engineering - or construction). In a Revit project - you can assign \_\_\_\_\_ to categories and to views. You

- ☐ Wall Sweep
- ☐ Crop Region
- ☐ Far clip plane
- ☐ Discipline

7. The settings used in a project that you want to apply to another project. \_\_\_\_\_ include family types - line weights - materials - view templates - and object styles.

- ☐ Shading with Edges
- ☐ View List
- ☐ Project Standards
- ☐ Web Library

8. A horizontal plane that helps to define the view range in a floor plan or reflected ceiling plan. By default - the \_\_\_\_\_ is the same as the bottom clip plane. However - you can specify the \_\_\_\_\_ to show elements (such as foundation footings) below

  
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**DEPARTMENT OF CIVIL ENGINEERING**  
**Assessment**

- ☐ Library
  - ☐ Phase
9. The graphic design (fill pattern) used to represent a surface when shown in projection.
- ☐ Spot Coordinate
  - ☐ RFA
  - ☐ Surface Pattern
  - ☐ Shading
10. To transfer a file or a collection of information from an outside location into a Revit project. In Revit Architecture - you can \_\_\_\_\_ groups - templates - detail components - entourage - materials - families of model elements and annotation element
- ☐ Explode
  - ☐ Break Line
  - ☐ Spot Elevation Dimension
  - ☐ Load
11. A wall that holds back earth (for example - at the edge of a terrace or excavation). In Revit Architecture - you can specify that a wall type functions as a retaining wall in the type properties.
- ☐ Compound Wall
  - ☐ Walkthrough
  - ☐ Section Box
  - ☐ Retaining Wall
12. A 3D shape consisting of multiple polygons that are joined (meshed) together. For example - a \_\_\_\_\_ cube consists of 6 square surfaces that are joined together to form the cube shape. This is sometimes referred to as face-based geometry.
- ☐ Polymesh

  
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**DEPARTMENT OF CIVIL ENGINEERING**

☐ Setback

13. Project coordinates that are used for remembering the mutual positions of multiple interlinked files. Those interlinked files can be all RVT files - or a combination of RVT - DWG - and DXF files.

- ☐ Fill Pattern
- ☐ Shared Coordinates
- ☐ Status Bar
- ☐ Origin

14. A 3-dimensional shape used in a building model. You can use the Family Editor to create \_\_\_\_\_ shapes to build families of model elements.

- ☐ Solid Geometry
- ☐ End Cap
- ☐ Poche
- ☐ 3D reference plane

15. A graphical icon in the Revit drawing area that you use to manipulate elements. For example - when you select a chain of walls - blue circles display. These blue circles are drag \_\_\_\_\_. You can drag such a \_\_\_\_\_ to change the shape of the walls. Or

- ☐ Control
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- ☐ Template
- ☐ Parameter

  
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DEPARTMENT OF CIVIL ENGINEERING

10/15

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**DEPARTMENT OF CIVIL ENGINEERING**

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**DEPARTMENT OF CIVIL ENGINEERING**  
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## DEPARTMENT OF CIVIL ENGINEERING

☐ Setback

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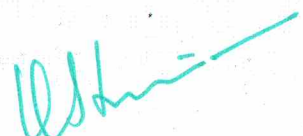
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| Sl.No | Name of the Student       | Register No. | Status of Qualifying |
|-------|---------------------------|--------------|----------------------|
| 1     | Abdul Azize F             | 311813103001 | Qualified            |
| 2     | Abdul Habeer A            | 311813103002 | Qualified            |
| 3     | Abubacker Siddique G S    | 311813103003 | Qualified            |
| 4     | Ahamed Riyaz A            | 311813103004 | Qualified            |
| 5     | Ahamed Sahib S A          | 311813103005 | Qualified            |
| 6     | Ahmed Jassim J            | 311813103006 | Qualified            |
| 7     | Alen Litto Y              | 311813103007 | Qualified            |
| 8     | Arun Kumar A              | 311813103008 | Qualified            |
| 9     | Asarudeen Ahamed A        | 311813103009 | Qualified            |
| 10    | Badapondara Krishna       | 311813103010 | Qualified            |
| 11    | Balasaravanan R           | 311813103011 | Qualified            |
| 12    | Balasuriyan M             | 311813103012 | Qualified            |
| 13    | Bharathy T                | 311813103013 | Qualified            |
| 14    | Fathil Karunai B          | 311813103014 | Qualified            |
| 15    | Govindaraj V              | 311813103015 | Qualified            |
| 16    | Hedvy Metchado F          | 311813103016 | Qualified            |
| 17    | Jahangeer M               | 311813103017 | Qualified            |
| 18    | Jaison S                  | 311813103018 | Qualified            |
| 19    | Kamalakaran K             | 311813103019 | Qualified            |
| 20    | Karthikeyan V             | 311813103020 | Qualified            |
| 21    | Mohaideen Musafar Meera K | 311813103021 | Qualified            |
| 22    | Mohamed Abdullah S Y      | 311813103022 | Qualified            |
| 23    | Mohamed Azeemudeen M      | 311813103023 | Qualified            |
| 24    | Mohamed Fadhil M          | 311813103024 | Qualified            |
| 25    | Mohamed Ibrahim A M N     | 311813103025 | Qualified            |
| 26    | Mohammed Asif A           | 311813103026 | Qualified            |
| 27    | Mohammed Muzaffar S       | 311813103027 | Qualified            |
| 28    | Muhaiyadeen Badusha O S   | 311813103028 | Qualified            |

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|    |                         |              |           |
|----|-------------------------|--------------|-----------|
| 29 | Nithindravid S          | 311813103029 | Qualified |
| 30 | Nithya R                | 311813103030 | Qualified |
| 31 | Preeta Rani S           | 311813103031 | Qualified |
| 32 | Ravichandran S          | 311813103032 | Qualified |
| 33 | Sabitha R               | 311813103033 | Qualified |
| 34 | Sakthivel K             | 311813103034 | Qualified |
| 35 | Salman Ahmed M          | 311813103035 | Qualified |
| 36 | Saravanan G             | 311813103036 | Qualified |
| 37 | Sathish K               | 311813103037 | Qualified |
| 38 | Sathiyaseelan K         | 311813103038 | Qualified |
| 39 | Selvakumar A            | 311813103039 | Qualified |
| 40 | Sulthan Nifras H        | 311813103040 | Qualified |
| 41 | Udayakumar S            | 311813103041 | Qualified |
| 42 | Vedanayaki K            | 311813103042 | Qualified |
| 43 | Vigneshkumar M          | 311813103043 | Qualified |
| 44 | Vijayavasan M           | 311813103044 | Qualified |
| 45 | Wasim Abbas M           | 311813103045 | Qualified |
| 46 | Farhan P                | 311813103301 | Qualified |
| 47 | Mohamed Ansar S         | 311813103302 | Qualified |
| 48 | Suresh M                | 311813103501 | Qualified |
| 49 | SOORIYAKUMAR V          | 311815103072 | Qualified |
| 50 | SRIRAM S                | 311815103074 | Qualified |
| 51 | THAMEEMUL ANSARI A      | 311815103077 | Qualified |
| 52 | UDHAYAKUMAR A           | 311815103078 | Qualified |
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Ref: MSAJCE / PO 104 / 2017-2018

Date: 8.2.2017

### CIRCULAR

This is to inform the following faculty members to attend the meeting on 9.2.2017 in principal chamber to design the curriculum for the ADD-ON program on “Python Fullstack”.

| S.NO | Faculty Name        | Designation         | Signature |
|------|---------------------|---------------------|-----------|
| 1    | DR.Manikandan .G    | Professor           |           |
| 2    | Dr. K. Manivannan   | Professor           |           |
| 3    | Mr. A.Syed Ismail   | Assistant Professor |           |
| 4    | MR. Ahsan Shariff M | Assistant Professor |           |

  
Principal 8/2/17

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From,  
The Head of Department,  
Department of CSE & IT,  
Mohamed Sathak A.J.College of Engineering,  
Chennai – 603103.

To,  
The Principal,  
Mohamed Sathak A.J.College of Engineering,  
Chennai – 603103.

Respected Madam/Sir,

Sub: Permission for conducting ADD on course – reg.

With reference to the above cited subject, we have proposed to conduct ADD on courses for the students of CSE & IT department. The selected courses are useful to the students for learning the emerging technical fields.

Kindly provide the permission for the same.

| Year/Sem | Title             | Dates                   |
|----------|-------------------|-------------------------|
| II/IV    | Python Full Stack | 05/02/2018 – 12/02/2018 |

Thanking you

Place: Chennai

Date: 02.02.2018

  
yours faithfully



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From,  
The Head of Department,  
Department of CSE & IT,  
Mohamed Sathak A.J.College of Engineering,  
Chennai- 603103.

Respected Madam/Sir,

Sub: Assigning of faculty for ADD ON course curriculum design for the academic year 2017-2018 reg.

Ref: Letter of Requisition for the appointment of faculty for ADD on course curriculum design for the academic year 2017-2018 Dated: 05/02/2018 – 12/02/2018.

The undersigned appreciates the department for proposing to conduct such kind of programme. As per your recommendation and referring to the above subject. I am pleased to nominate the following faculty members for ADD on course curriculum design.

| Title             | Name of the Faculty     |
|-------------------|-------------------------|
| Python Full Stack | Mr.A.Syed Ismail AP/CSE |

The above listed faculty is hereby instructed to design the curriculum taking in to consideration the thrust areas of the respective field and ensure it should enhance the employability opportunities for the students.

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Date:02/02/2018

Ref:01/MSAJCE/COMMON CIRCULAR/EVEN/2017-2018

**CIRCULAR**

Our department is organizing a “ADD ON” on Python Full Stack during 05/02/2018 to 12/02/2018. The II Year Students from Computer Science and Engineering and Information Technology, register with Mr.A.Syed Ismail AP/CSE on or before 05/02/2018.

The session schedule is as follows,

**Timing: 1.30 PM to 3.30 PM**

**Resource Person: Mr.A.Syed Ismail**

**AP/CSE**

**Venue: Computer Lab II**



**HOD**

**COPY TO:**

Dept. of CSE & IT

II Year CSE & IT



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### COURSE MODULE

#### Course Objective

1. To learn the python fundamentals
2. To read and write simple python programs
3. To develop Python programs with conditionals and loops.
4. To learn how to use functions, arrays and strings in python programs
5. To learn how to develop python programs using list, tuple and dictionary.

| Sl. No. | Topic                                                                                                              | Periods Required |
|---------|--------------------------------------------------------------------------------------------------------------------|------------------|
| 1       | Introduction to Algorithms, Building Blocks of Algorithms, Pseudo code and Flowcharts                              | 2                |
| 2       | Programming Language                                                                                               | 1                |
| 3       | Arithmetic Problem Solving                                                                                         | 1                |
| 4       | Indexing-Array Manipulation                                                                                        | 1                |
| 5       | Simple Strategies for Developing Algorithms                                                                        | 1                |
| 6       | Python Language Features-Comments-Identifiers-Keywods-Variables and Assignment                                     | 1                |
| 7       | Expressions and Statements, Indentation, Data types – Numbers                                                      | 2                |
| 8       | Strings,Lists, Sets, Tuples, Dictionaries, Data Type Conversions-Input and Output Statements                       | 2                |
| 9       | Basics of Python Programming-Arithmetic Operators, Comparison Operators, Assignment Operators                      | 1                |
| 10      | Bitwise Operators, Logical Operators, Membership Operators, Identity Operators                                     | 1                |
| 11      | Operators Precedence-Basics of Functions, Parameters and Arguments.                                                | 1                |
| 12      | If statement, If-else Statement, if-elif-else Statement, While loop, For loop, Break Statement, Continue Statement | 1                |
| 13      | Pass Statement-Keywods Arguments, Default Arguments, Variable Length Arguments, Anonymous Functions                | 1                |
| 14      | Fruitful Functions, Global and Local Variables, Function Composition, Recursion Introduction to Numbers            | 2                |

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|    |                                                                                                                                     |   |
|----|-------------------------------------------------------------------------------------------------------------------------------------|---|
| 15 | Number Type Conversion, Mathematical Functions, Random Number Functions, Trigonometric Functions                                    | 2 |
| 16 | Mathematical Constants. Introduction to Strings, String Operations, Built-in String Methods.                                        | 2 |
| 17 | Introduction to Lists, Basic List Operations, Built-in List Functions, List Methods-Introduction to Tuples, Basic Tuples Operations | 2 |
| 18 | Built-in Tuple Functions-Introduction to Dictionaries, Basic Dictionary Operations                                                  | 2 |
| 19 | Built-in Dictionary Functions, Built-in Dictionary Methods-Introduction to Sets, Basic Set Operations                               | 3 |
| 20 | Built-in Set Functions and Methods-List Comprehensions, Set Comprehensions, Dictionary Comprehensions                               | 2 |
| 21 | Creation of modules, Import Statement, From Import Statement, Using Python Packages, Namespace Introduction to PIP                  | 2 |
| 22 | Installing Packages via PIP-File Handling – File Path, Operations on Files-Classes, Self Variable                                   | 2 |
| 23 | Constructors, Methods, Inheritance, Overriding Methods, Data Hiding-Errors and Exceptions, Error Handling                           | 3 |
| 24 | Handling on Exception, Try-finally Clause, Raising an Exception, User-Defined Exceptions-Standard Library                           | 2 |
| 25 | Why Testing is require?, Basic Concepts of Testing, Unit testing.                                                                   | 2 |

### Course Outcome

- CO1. Illustrate basic concepts of python programming
- CO2. Apply the knowledge of Python Programming elements to solve and debug logical Problems
- CO3. Demonstrate Programs using with conditionals and loops
- CO4 .Demonstrate Programs using functions, arrays and strings
- CO5. Analyze Various techniques used for sorting and to store and retrieve data in files

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## **CO PO Mapping**

| Course Outcome                                                                              | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| The students will be able to CO1. Illustrate basic concepts of python programming           | 3   | 3   | 3   |     |     |     |     | 2   |     | 2    | 3    | 3    |
| CO2. Apply the knowledge of Python Programming elements to solve and debug logical Problems | 2   | 2   | 2   |     |     |     |     |     |     |      |      |      |
| CO3. Demonstrate Programs using with conditionals and loops.                                | 3   | 2   | 3   |     |     |     |     |     |     |      |      |      |

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## DEPARTMENT OF CSE

ACADEMIC YEAR 2017-2018

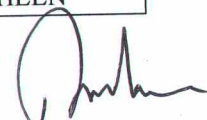
### ENROLLED STUDENTS NAMELIST FOR PYTHON FULL STACK

DATE: 05.02.2018 to 12.02.2018

| S.No | Register No  | Name of the Student                     |
|------|--------------|-----------------------------------------|
| 1    | 311816104003 | AFREEN BEGUM K                          |
| 2    | 311816104004 | AL MOHAMMED THOUFEEK B                  |
| 3    | 311816104006 | ARUN PRASANTH A P                       |
| 4    | 311816104007 | ASIISHA BEE H                           |
| 5    | 311816104008 | JAIPRAKASH J K                          |
| 6    | 311816104009 | JOHN ABISHAKE J                         |
| 7    | 311816104010 | KARTHIKEYAN B                           |
| 8    | 311816104013 | MOHAMED FASITH B                        |
| 9    | 311816104014 | MOHAMED HARAFATH S                      |
| 10   | 311816104015 | MOHAMED IRFAN M                         |
| 11   | 311816104016 | MOHAMED SARVATH KHAN B                  |
| 12   | 311816104017 | MOHAMED VASEEM S                        |
| 13   | 311816104018 | MOHAMMED FAYAZ AHMED M F                |
| 14   | 311816104019 | MOHAMMED HUSSAIN Z                      |
| 15   | 311816104021 | NAVEEN KUMAR N                          |
| 16   | 311816104022 | PARANTHAMAN M                           |
| 17   | 311816104024 | RAMKUMAR S                              |
| 18   | 311816104025 | SABIRA MARIYAM B                        |
| 19   | 311816104026 | SAJID AHMED S                           |
| 20   | 311816104027 | SALIM MALIK S                           |
| 21   | 311816104028 | SANJAY KUMAR R                          |
| 22   | 311816104029 | SHAIKABBAS K                            |
| 23   | 311816104030 | SHAILESHSIVAM S                         |
| 24   | 311816104031 | SHAKEEL S J                             |
| 25   | 311816104032 | SHEIK ABDULLAH M                        |
| 26   | 311816104033 | SHYWAN T                                |
| 27   | 311816104035 | SULTHAN MOHAIDEEN N K                   |
| 28   | 311816104036 | SUMAIYA SARA A                          |
| 29   | 311816104037 | SWETHA S                                |
| 30   | 311816104038 | TABASSUM HAJIRA S                       |
| 31   | 311816104039 | THAIKA SHEIK ABDUL CADER<br>SOOFI O A C |
| 32   | 311816104040 | VENKATESH D                             |
| 33   | 311816104501 | MOHAMMED SUMSUDHEEN                     |

  
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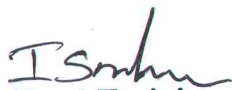
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### DEPARTMENT OF IT ACADEMIC YEAR 2017-2018

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DATE: 05.02.2018 to 12.02.2018

| S.No | Register No  | Name of the Student |
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| 1    | 311816205001 | AFRIN FATHIMA M     |
| 2    | 311816205002 | DEEWAN FEROZKHAN A  |
| 3    | 311816205003 | FARHEENBEGUM J      |
| 4    | 311816205004 | HARI KRISHNAN P C   |
| 5    | 311816205005 | MAHALAKSHMI P       |
| 6    | 311816205007 | MOHAMED FAIZAL A    |
| 7    | 311816205008 | NOUFAL AHMED N      |
| 8    | 311816205009 | RAJA SURYA A        |
| 9    | 311816205010 | RAKESH C            |
| 10   | 311816205011 | SUHAIL RASHEED S    |
| 11   | 311816205012 | THIYAGARAJAN R      |
| 12   | 311816205701 | SUVIYA S            |
| 13   | 311816205702 | ASHWINI A           |
| 14   | 311816205703 | JAYASRI V           |
| 15   | 311816205704 | TAMILSELVI A        |
| 16   | 311816205705 | VINDHIYA V          |

  
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### ATTENDANCE SHEET FOR PYTHON COURSE

#### ACADEMIC YEAR (2017-2018)

| S.No | Name of the Student      | Attendance of the Participants |    |            |    |            |    |            |    |            |    |            |    |            |    |
|------|--------------------------|--------------------------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|
|      |                          | 05/02/2018                     |    | 06/02/2018 |    | 07/02/2018 |    | 08/02/2018 |    | 09/02/2018 |    | 10/02/2018 |    | 12/02/2018 |    |
|      |                          | FN                             | AN | FN         | AN | FN         | AN | FN         | AN | FN         | AN | FN         | AN | FN         | AN |
| 1    | AFREEN BEGUM K           | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 2    | AL MOHAMMED THOUFEEK B   | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 3    | ARUN PRASANTH A P        | /                              | /  | a          | a  | a          | /  | /          | /  | /          | /  | a          | /  | /          | /  |
| 4    | ASIISHA BEE H            | /                              | /  | /          | /  | a          | /  | /          | /  | /          | a  | /          | /  | /          | /  |
| 5    | JAIPRAKASH J K           | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 6    | JOHN ABISHAKE J          | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 7    | KARTHIKEYAN B            | /                              | /  | a          | a  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 8    | MOHAMED FASITH B         | /                              | a  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 9    | MOHAMED HARAFATH S       | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 10   | MOHAMED IRFAN M          | a                              | a  | a          | /  | /          | /  | /          | a  | a          | /  | /          | /  | /          | /  |
| 11   | MOHAMED SARVATH KHAN B   | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 12   | MOHAMED VASEEM S         | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 13   | MOHAMMED FAYAZ AHMED M F | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 14   | MOHAMMED HUSSAIN Z       | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 15   | NAVEEN KUMAR N           | /                              | /  | a          | a  | /          | /  | /          | /  | /          | /  | /          | /  | a          | a  |
| 16   | PARANTHAMAN M            | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 17   | RAMKUMAR S               | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 18   | SABIRA MARIYAM B         | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 19   | SAJID AHMED S            | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 20   | SALIM MALIK S            | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 21   | SANJAY KUMAR R           | /                              | /  | /          | /  | /          | a  | a          | /  | /          | /  | /          | /  | /          | /  |
| 22   | SHAIKABBAS K             | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 23   | SHAILESHSIVAM S          | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 24   | SHAKEEL S J              | /                              | /  | a          | a  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 25   | SHEIK ABDULLAH M         | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 26   | SHYWAN T                 | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 27   | SULTHAN MOHAIDEEN N K    | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |

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|------------------------------|--------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 28                           | SUMAIYA SARA A                       | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  |
| 29                           | SWETHA S                             | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  |
| 30                           | TABASSUM HAJIRA S                    | /  | /  | a  | a  | /  | /  | /  | /  | /  | /  | a  | a  | /  | /  |
| 31                           | THAIKA SHEIK ABDUL CADER SOOFI O A C | /  | /  | a  | a  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  |
| 32                           | VENKATESH D                          | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  |
| 33                           | MOHAMMED SUMSUDHEEN                  | 32 | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  |
| Total no.of Students Present |                                      | 32 | 31 | 26 | 27 | 31 | 32 | 32 | 32 | 32 | 30 | 31 | 32 | 32 | 32 |
| Total no.of Students Absent  |                                      | 1  | 2  | 7  | 6  | 2  | 1  | 1  | 1  | 1  | 3  | 2  | 1  | 1  | 1  |
| Signature of the Coordinator |                                      | IL | IL | IL | IL | IL | IL | IL | IL | IL | IL | IL | IL | IL | IL |
| Signature of the HOD         |                                      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

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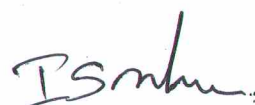


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## DEPARTMENT OF IT ATTENDANCE SHEET FOR PYTHON COURSE ACADEMIC YEAR (2017-2018)

| S.No                         | Name of the Student | Attendance of the Participants |    |            |    |            |    |            |    |            |    |            |    |            |    |
|------------------------------|---------------------|--------------------------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|
|                              |                     | 05/02/2018                     |    | 06/02/2018 |    | 07/02/2018 |    | 08/02/2018 |    | 09/02/2018 |    | 10/02/2018 |    | 12/02/2018 |    |
|                              |                     | FN                             | AN | FN         | AN | FN         | AN | FN         | AN | FN         | AN | FN         | AN | FN         | AN |
| 1                            | AFRIN FATHIMA M     | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | a          | a  |
| 2                            | DEEWAN FEROZKHAN A  | /                              | /  | /          | a  | /          | /  | /          | /  | /          | /  | /          | /  | a          | a  |
| 3                            | FARHEENBEGUM J      | /                              | /  | a          | a  | /          | /  | a          | a  | /          | /  | /          | /  | /          | /  |
| 4                            | HARI KRISHNAN P C   | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | a          | a  | /          | /  |
| 5                            | MAHALAKSHMI P       | /                              | /  | /          | /  | /          | /  | a          | a  | /          | /  | /          | /  | /          | /  |
| 6                            | MOHAMED FAIZAL A    | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 7                            | NOUFAL AHMED N      | /                              | /  | /          | /  | a          | a  | /          | /  | /          | /  | a          | a  | /          | /  |
| 8                            | RAJA SURYA A        | /                              | /  | /          | /  | /          | /  | a          | a  | /          | /  | /          | /  | a          | a  |
| 9                            | RAKESH C            | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 10                           | SUHAIL RASHEED S    | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 11                           | THIYAGARAJAN R      | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 12                           | SUVIYA S            | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 13                           | ASHWINI A           | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 14                           | JAYASRI V           | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 15                           | TAMILSELVI A        | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| 16                           | VINDHIYA V          | /                              | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  | /          | /  |
| Total no.of Students Present |                     | 16                             | 16 | 15         | 14 | 15         | 15 | 13         | 13 | 16         | 16 | 14         | 14 | 13         | 13 |
| Total no.of Students Absent  |                     | -                              | -  | 1          | 2  | 1          | 1  | 3          | 3  | -          | -  | 2          | 2  | 3          | 3  |
| Signature of the Coordinator |                     | IR                             | IR | IR         | IR | IR         | IR | IR         | IR | IR         | IR | IR         | IR | IR         | IR |
| Signature of the HOD         |                     |                                |    |            |    |            |    |            |    |            |    |            |    |            |    |

  
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### Assessment

1. Which of the following commands will create a list?

- a) list1 = list()
- b) list1 = []
- c) list1 = list([1, 2, 3])
- d) all of the mentioned

2. What is the output when we execute list("hello")?

- a) ['h', 'e', 'l', 'l', 'o']
- b) ['hello']
- c) ['llo']
- d) ['olleh']

3. To shuffle the list(say list1) what function do we use?

- a) list1.shuffle()
- b) shuffle(list1)
- c) random.shuffle(list1)
- d) random.shuffleList(list1)

4. To add a new element to a list we use which command?

- a) list1.add(5)
- b) list1.append(5)
- c) list1.addLast(5)
- d) list1.addEnd(5)

5. Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1.count(5)?

- a) 0
- b) 4
- c) 1
- d) 2

6. Which of the following is a Python tuple?

- a) [1, 2, 3]
- b) (1, 2, 3)

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- c) {1, 2, 3}
- d) {}
7. What is the data type of (1)?
- Tuple
  - Integer
  - List
  - Both tuple and integer
8. If  $a=(1,2,3,4)$ ,  $a[1:-1]$  is
- Error, tuple slicing doesn't exist
  - [2,3]
  - (2,3,4)
  - (2,3)
9. What type of data is:  $a=[(1,1),(2,4),(3,9)]$ ?
- Array of tuples
  - List of tuples
  - Tuples of lists
  - Invalid type
10. Suppose  $d = \{\text{"john":40, "peter":45}\}$ , to delete the entry for "john" what command do we use?
- `d.delete("john":40)`
  - `d.delete("john")`
  - `del d["john"]`
  - `del d("john":40)`
11. Which of the following statements create a dictionary?
- `d = {}`
  - `d = {"john":40, "peter":45}`
  - `d = {40:"john", 45:"peter"}`
  - All of the mentioned

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12. What is returned by `math.ceil(3.4)`?

- a) 3
- b) 4
- c) 4.0
- d) 3.0

13. What is the value of `x` if `x = math.factorial(0)`?

- a) 0
- b) 1
- c) error
- d) none of the mentioned

14. Which of these definitions correctly describes a module?

- a) Denoted by triple quotes for providing the specification of certain program elements
- b) Design and implementation of specific functionality to be incorporated into a program
- c) Defines the specification of how it is to be used
- d) Any program that reuses code

15. Program code making use of a given module is called a ----- of the module.

- a) Client
- b) Docstring
- c) Interface
- d) Modularity

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Sweetha. S  
311816104037  
12-02-2018.

## Assessment Test-1

12  
15  
S. Sathak

- Which of the following commands will create a list?  
a) list1 = list()  
b) list1 = []  
c) list1 = list([1, 2, 3]) X  
d) all of the mentioned
- What is the output when we execute list("hello")?  
a) ['h', 'e', 'l', 'l', 'o'] ✓  
b) ['hello']  
c) ['llo']  
d) ['olleh']
- To shuffle the list(say list1) what function do we use?  
a) list1.shuffle() ✓  
b) shuffle(list1)  
c) random.shuffle(list1)  
d) random.shuffleList(list1)
- To add a new element to a list we use which command?  
a) list1.add(5)  
b) list1.append(5)  
c) list1.addLast(5) X  
d) list1.addEnd(5)
- Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1.count(5)?  
a) 0  
b) 4  
c) 1  
d) 2 ✓

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6. Which of the following is a Python tuple?

a) [1, 2, 3]

b) (1, 2, 3)

☒ c) {1, 2, 3}

d) {}

7. What is the data type of (1)?

☒ a) Tuple

b) Integer

c) List

d) Both tuple and integer

8. If a=(1,2,3,4), a[1:-1] is

a) Error, tuple slicing doesn't exist

b) [2,3]

c) (2,3,4)

☒ d) (2,3)

9. What type of data is: a=[(1,1),(2,4),(3,9)]?

☒ a) Array of tuples

b) List of tuples

c) Tuples of lists

d) Invalid type

10. Suppose d = {"john":40, "peter":45}, to delete the entry for "john" what command do we use?

a. d.delete("john":40)

☒ b. d.delete("john")

c. del d["john"]

d. del d("john":40)

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11. Which of the following statements create a dictionary?

- a) `d = {}`
- b) `d = {"john":40, "peter":45}`
- c) `d = {40:"john", 45:"peter"}`
- ☒ d) All of the mentioned

12. What is returned by `math.ceil(3.4)`?

- ☒ a) 3
- b) 4
- c) 4.0
- d) 3.0

13. What is the value of x if `x = math.factorial(0)`?

- a) 0
- ☒ b) 1
- c) error
- d) none of the mentioned

14. Which of these definitions correctly describes a module?

- a) Denoted by triple quotes for providing the specification of certain program elements
- ☒ b) Design and implementation of specific functionality to be incorporated into a program
- c) Defines the specification of how it is to be used
- d) Any program that reuses code

15. Program code making use of a given module is called a ----- of the module.

- a) Client
- b) Docstring
- ☒ c) Interface
- d) Modularity

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### DEPARTMENT OF CSE

| Name of the Value Added Course : Python Full Stack |                                      |                   |                      |                          |
|----------------------------------------------------|--------------------------------------|-------------------|----------------------|--------------------------|
| Year/Sem: II/IV                                    |                                      | Faculty Incharge: |                      | Mr.A.Syed Ismail         |
| Location: Computer Lab-II                          |                                      | Duration:         |                      | 05-02-2018 to 12-02-2018 |
| S.No                                               | Name of the Student                  | Register No       | Status of qualifying | Sign of Student          |
| 1                                                  | AFREEN BEGUM K                       | 311816104003      | Yes                  |                          |
| 2                                                  | AL MOHAMMED THOUFEEK B               | 311816104004      | Yes                  |                          |
| 3                                                  | ARUN PRASANTH A P                    | 311816104006      | Yes                  |                          |
| 4                                                  | ASIISHA BEE H                        | 311816104007      | Yes                  |                          |
| 5                                                  | JAIPRAKASH J K                       | 311816104008      | Yes                  |                          |
| 6                                                  | JOHN ABISHAKE J                      | 311816104009      | Yes                  |                          |
| 7                                                  | KARTHIKEYAN B                        | 311816104010      | Yes                  |                          |
| 8                                                  | MOHAMED FASITH B                     | 311816104013      | Yes                  |                          |
| 9                                                  | MOHAMED HARAFATH S                   | 311816104014      | Yes                  |                          |
| 10                                                 | MOHAMED IRFAN M                      | 311816104015      | Yes                  |                          |
| 11                                                 | MOHAMED SARVATH KHAN B               | 311816104016      | Yes                  |                          |
| 12                                                 | MOHAMED VASEEM S                     | 311816104017      | Yes                  |                          |
| 13                                                 | MOHAMMED FAYAZ AHMED M F             | 311816104018      | Yes                  |                          |
| 14                                                 | MOHAMMED HUSSAIN Z                   | 311816104019      | Yes                  |                          |
| 15                                                 | NAVEEN KUMAR N                       | 311816104021      | Yes                  |                          |
| 16                                                 | PARANTHAMAN M                        | 311816104022      | Yes                  |                          |
| 17                                                 | RAMKUMAR S                           | 311816104024      | Yes                  |                          |
| 18                                                 | SABIRA MARIYAM B                     | 311816104025      | Yes                  |                          |
| 19                                                 | SAJID AHMED S                        | 311816104026      | Yes                  |                          |
| 20                                                 | SALIM MALIK S                        | 311816104027      | Yes                  |                          |
| 21                                                 | SANJAY KUMAR R                       | 311816104028      | Yes                  |                          |
| 22                                                 | SHAIKABBAS K                         | 311816104029      | Yes                  |                          |
| 23                                                 | SHAILESHSIVAM S                      | 311816104030      | Yes                  |                          |
| 24                                                 | SHAKEEL S J                          | 311816104031      | Yes                  |                          |
| 25                                                 | SHEIK ABDULLAH M                     | 311816104032      | Yes                  |                          |
| 26                                                 | SHYWAN T                             | 311816104033      | Yes                  |                          |
| 27                                                 | SULTHAN MOHAIDEEN N K                | 311816104035      | Yes                  |                          |
| 28                                                 | SUMAIYA SARA A                       | 311816104036      | Yes                  |                          |
| 29                                                 | SWETHA S                             | 311816104037      | Yes                  |                          |
| 30                                                 | TABASSUM HAJIRA S                    | 311816104038      | Yes                  |                          |
| 31                                                 | THAIKA SHEIK ABDUL CADER SOOFI O A C | 311816104039      | Yes                  |                          |
| 32                                                 | VENKATESH D                          | 311816104040      | Yes                  |                          |
| 33                                                 | MOHAMMED SUMSUDHEEN                  | 311816104501      | Yes                  |                          |

  
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PRINCIPAL Signature of HOD with date

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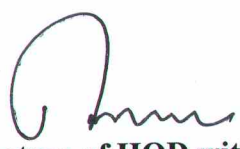
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### DEPARTMENT OF IT

| Name of the Value Added Course : Python Full Stack |                     |                   |                      |                          |
|----------------------------------------------------|---------------------|-------------------|----------------------|--------------------------|
| Year/Sem: II/IV                                    |                     | Faculty Incharge: |                      | Mr.A.Syed Ismail         |
| Location: Computer Lab-II                          |                     | Duration:         |                      | 05-02-2018 to 12-02-2018 |
| S.No                                               | Name of the Student | Register No       | Status of qualifying | Sign of Student          |
| 1                                                  | AFRIN FATHIMA M     | 311816205001      | Yes                  |                          |
| 2                                                  | DEEWAN FEROZKHAN A  | 311816205002      | Yes                  |                          |
| 3                                                  | FARHEENBEGUM J      | 311816205003      | Yes                  |                          |
| 4                                                  | HARI KRISHNAN P C   | 311816205004      | Yes                  |                          |
| 5                                                  | MAHALAKSHMI P       | 311816205005      | Yes                  |                          |
| 6                                                  | MOHAMED FAIZAL A    | 311816205007      | Yes                  |                          |
| 7                                                  | NOUFAL AHMED N      | 311816205008      | Yes                  |                          |
| 8                                                  | RAJA SURYA A        | 311816205009      | Yes                  |                          |
| 9                                                  | RAKESH C            | 311816205010      | Yes                  |                          |
| 10                                                 | SUHAIL RASHEED S    | 311816205011      | Yes                  |                          |
| 11                                                 | THIYAGARAJAN R      | 311816205012      | Yes                  |                          |
| 12                                                 | SUVIYA S            | 311816205701      | Yes                  |                          |
| 13                                                 | ASHWINI A           | 311816205702      | Yes                  |                          |
| 14                                                 | JAYASRI V           | 311816205703      | Yes                  |                          |
| 15                                                 | TAMILSELVI A        | 311816205704      | Yes                  |                          |
| 16                                                 | VINDHIYA V          | 311816205705      | Yes                  |                          |

  
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### SUMMARY/OUTCOME REPORT

**Name of the Course:** Python Full Stack

**Name of the Coordinator:** Mr.A.Syed Ismail AP/CSE

**No. of Students Enrolled:** 49

**No. of Students Completed:** 49

I hereby affirm that the entire program contents in the ADD ON "Python Full Stack" listed in the Syllabus have been actually learned by the students as the part of the prescribed co-curricular activities through Certificate Program.

I confirmed that the Certificate program titled as Python Full Stack course was done by me in the beginning of this semester and program delivery with attendance of the students were recorded.

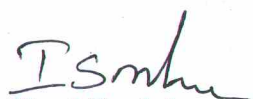
I confirm that all registered students for this certificate program were actively attended and learned well throughout the duration of this program. And all the students were successfully completed and eligible to receive the participation certificate.

**OUTCOME:** Students shall be able to gain knowledge in

- Basic concepts of python programming
- Python Programming elements to solve and debug logical Problems
- Coding programs using with conditionals and loops
- Writing programs using functions, arrays and strings
- Techniques used for sorting and to store and retrieve data in files

Name: Mr.A.Syed Ismail

Designation: AP/CSE

  
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Principal





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Ref: MSAJCE / PO 105 / 2017-2018

Date: 8.2.2017

**CIRCULAR**

This is to inform the following faculty members to attend the meeting on 9.2.2017 in principal chamber to design the curriculum for the ADD-ON program on “**Introduction to PLC and SCADA**”.

| S.NO | Faculty Name                 | Designation         | Signature |
|------|------------------------------|---------------------|-----------|
| 1    | DR.R.Murugan                 | Associate Professor |           |
| 2    | Mr.S.Syed Muzafar Ahmed      | Assistant Professor |           |
| 3    | Mr. K.A. Mohamed Shahin Gani | Assistant Professor |           |
| 4    | Mr. S. Elam Cheren           | Assistant Professor |           |

Principal 8/2/17

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### DEPARTMENT OF EEE

#### Value Added Course Summary 2017-2018

**Course code and Name** : Introduction to PLC and SCADA

**Couse Duration** : 45 hours

**Years offered** : III Year & IV Students 2017-2018

**Course Instructors** : Mr.K.A.Mohamed Shahin Gani

#### Course Outcome's :

The Students will be outfitted with able understand the fundamental of PLC. Program a PLC with different logical languages. Various industrial applications of PLC's are studied. Able to understand the need of computer in Automation. Understand the basics of data conversion and data acquisition.

**Couse Type** : Self Framed Value Added Course

Theory and Practical with Hands on Sessions

**Assessment Mode** : Attendance : 45 Hours

**Number of Participants** : 51

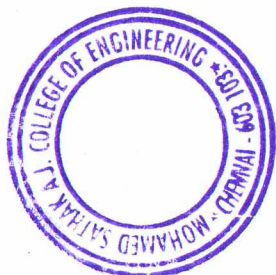
**Scheme of Exam** : Offline

**Date of Exam:**26/8/2017

  
**Course Coordinator**

  
**HoD**





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### Department of EEE

#### Introduction to PLC and SCADA

| S.No | Reg. No. of the Student | Student Name            |
|------|-------------------------|-------------------------|
| 1    | 311815105001            | M.Abul Abul Hasan       |
| 2    | 311815105002            | A.R.Abdul Saleem        |
| 3    | 311815105004            | S.S.Anuvanth            |
| 4    | 311815105005            | R.M. Dinesh kumar       |
| 5    | 311815105006            | U. Harshad Ahemed       |
| 6    | 311815105007            | K.S. Iqlas Ahamed       |
| 7    | 311815105008            | S. Manimaran            |
| 8    | 311815105009            | S. Manobalan            |
| 9    | 311815105010            | S.Meena                 |
| 10   | 311815105012            | H.Mohamed Ibrahim       |
| 11   | 311815105014            | J. Mohamed Muneer       |
| 12   | 311815105015            | M.H.Mohamed Rifhath     |
| 13   | 311815105016            | A.Mohammed Sultan       |
| 14   | 311815105017            | M. Mohideen Abdul kader |
| 15   | 311815105019            | S.Nisar Ahmed           |
| 16   | 311815105020            | A.Noor Mohamed          |
| 17   | 311815105021            | M. Prakash              |
| 18   | 311815105023            | S.Sabarigirivasan       |
| 19   | 311815105024            | S.B. Sanjeevi           |
| 20   | 311815105025            | R.Santhosh Kumar        |
| 21   | 311815105027            | S.Shaik Fathhullah      |
| 22   | 311815105028            | Shaik Umar              |
| 23   | 311815105029            | S. Syed Mohamed Buhari  |
| 24   | 311815105301            | M.Ganesh                |
| 25   | 311815105302            | M. Haneen Ahamed        |
| 26   | 311815105303            | S.Mohamed Asif          |
| 27   | 311815105304            | A.Mohamed Rasith        |
| 28   | 311814105002            | Abutalib.S              |
| 29   | 311814105003            | Brindha.M               |
| 30   | 311814105004            | Deepika.U               |



  
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### Department of EEE

#### Introduction to PLC and SCADA

|    |              |                         |
|----|--------------|-------------------------|
| 31 | 311814105006 | Fatahunissa.J           |
| 32 | 311814105007 | Hashim Md. Zabran N.F   |
| 33 | 311814105008 | Jabar Ali A             |
| 34 | 311814105010 | Mohamed Ihsan.A         |
| 35 | 311814105011 | Md. Javeeth Nasim. S    |
| 36 | 311814105012 | Mohammed Faiz           |
| 37 | 311814105013 | Mohammad Hashim         |
| 38 | 311814105014 | Nabeel.N                |
| 39 | 311814105015 | Nomon Juneed N          |
| 40 | 311814105016 | Parvez Aalam.A          |
| 41 | 311814105017 | Pathmanaban M           |
| 42 | 311814105018 | Rosalinda.N             |
| 43 | 311814105019 | Shaik Md. Ashar P. S. A |
| 44 | 311814105021 | Srinivasan.V            |
| 45 | 311814105022 | Sriram R                |
| 46 | 311814105023 | Syed Moosa.T            |
| 47 | 311814105024 | Vignesh.B               |
| 48 | 311814105302 | Irfan Suber             |
| 49 | 311814105303 | Javith. B               |
| 50 | 311814105304 | Mohammed Fazil.T        |
| 51 | 311814105305 | Mohamed Haja Shariff.A  |

Course Coordinator

HoD



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**DEPARTMENT OF EEE**

From

Dr. R. Murugan,  
Associate Professor,  
Department of Electrical and Electronics Engineering,  
Mohamed Sathak A J College of Engineering,  
Chennai – 603103.

To

The Principal,  
Mohamed Sathak A J College of Engineering,  
Chennai – 603103.

Respected Madam/Sir,

Sub: Permission for conducting ADD on course – reg.

  
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With reference to the above cited subject, we have proposed to conduct ADD on courses for the students of EEE department. The selected courses are useful to the students for learning the emerging technical fields.

Kindly provide the permission for the same.

| Year/Sem   | Title                                                                                                       | Dates                       |
|------------|-------------------------------------------------------------------------------------------------------------|-----------------------------|
| III/V-EEE  | Introduction to Programming<br>Logic Circuit (PLC) &<br>Supervisory Control and Data<br>Acquisition (SCADA) | 21/08/2017 to<br>26/08/2017 |
| IV/VII-EEE |                                                                                                             |                             |

Thanking you

Place: Chennai

Date:



  
Your's faithfully

Principal



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### DEPARTMENT OF EEE

From

Dr.R.Murugan

Associate Professor,

Department of Electrical and Electronics Engineering

Mohamed Sathak A.J.College of Engineering,

Chennai- 603103.

Respected Madam/Sir,

Sub: Assigning of faculty for ADD ON course curriculum design for the academic year 2017-2018 reg.

Ref: Letter of Requisition for the appointment of faculty for ADD on course curriculum design for the academic year 2017-2018 Dated: 21/08/2017 to 26/08/2017. The undersigned appreciates the department for proposing to conduct such kind of programme. As per your recommendation and referring to the above subject. I am pleased to nominate the following faculty members for ADD on course curriculum design.

The above listed faculty is hereby instructed to design the curriculum taking in to consideration the thrust areas of the respective field and ensure it should enhance the employability opportunities for the students.

| Title                                                                                                    | Name of the Faculty                     |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Introduction to Programming Logic<br>Circuit (PLC) & Supervisory Control<br>and Data Acquisition (SCADA) | Mr.K.A.Mohamed<br>Shahin Gani<br>AP/EEE |



Principal

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### DEPARTMENT OF EEE

Date: 26/07/2017

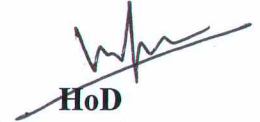
Ref: 01/MSAJCE/EEE/ODD/2017-2018

#### CIRCULAR

Our department is organizing a "ADD ON" on Introduction to Programming Logic Circuit (PLC) & Supervisory Control and Data Acquisition (SCADA) during 21/08/2017 to 26/08/2017. The following III & IV Year EEE Students register with Mr. K.A. Mohamed Shahin Gani AP/EEE on or before 3/08/2017.

The session schedule is as follows

|                 |                                     |
|-----------------|-------------------------------------|
| Timing          | : 9.00 AM to 3.30 PM                |
| Company Name    | : EMBware Technologies & Components |
| Resource Person | : K.A. MOHAMED SHAHIN GANI          |
| Venue           | : MSAJCE                            |

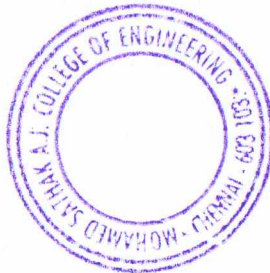
  
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COPY TO: EEE

Dept. of EEE

III & IV Year EEE





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### DEPARTMENT OF EEE

#### COURSE MODULE

##### Course Objectives:

1. Students will be able to describe typical components of a Programmable Logic Controller.
2. Students will be able to explain and apply the concept of electrical ladder logic, its history, and its relationship to programmed PLC instruction.
3. Students will be able to design and program a small, automated industrial production line.
4. Students will be able to use timer, counter, and other intermediate programming functions.

##### MODULE-1

###### 1. Basics Of PLC

Definition and History of PLC-PLC advantage and disadvantages- Over all PLC systems CPU and Programmer/Monitors-PLC input and output models – Architecture- PLC Programming language – Relay logic.

##### MODULE-2

###### 2. PLC Programming

Programming of Timers – Introduction - ON delay, OFF delay, Retentive Timers – PLC Timer functions – Examples of timer function Industrial application. Programming Counters – up/down counter – Combining counter.

##### MODULE-3

###### 3. PLC Data Handling Functions

PLC Program Control Instructions: Master Control Reset - Skip – Jump and Move Instruction. Sequencer instructions - Types of PLC Analog modules and systems, PLC analog signal processing – BCD or multi bit data processing.

##### MODULE-4

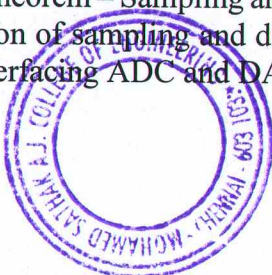
###### 4. Computer Control – Introduction

Need of computer in a control system-Functional block diagram of a computer control system-Data loggers- Supervisory computer control- Direct digital control-Digital control interfacing-SCADA.

##### MODULE-5

###### 5. Data Acquisition Systems

Sampling theorem – Sampling and digitizing – Aliasing – Sample and hold circuit – Practical implementation of sampling and digitizing – Definition, design and need for data acquisition systems – Interfacing ADC and DAC with Microprocessor / Multiplexer.



  
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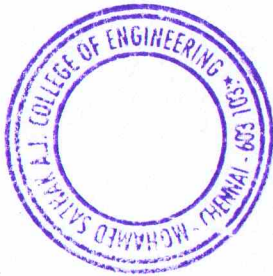
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## DEPARTMENT OF EEE

### Course Outcomes:

The students will be able to

- CO1. Understand the fundamental of PLC
- CO2. Program a PLC with different logical languages
- CO3. Various industrial applications of PLCs are studied.
- CO4. Able to understand the need of computer in Automation.
- CO5. Understand the basics of data conversion and data acquisition



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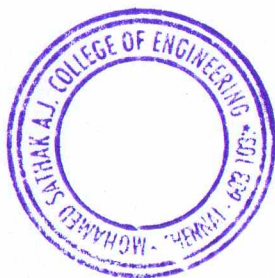


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**DEPARTMENT OF EEE**

**CO PO Mapping**

| Course Outcome                                                | PO 1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---------------------------------------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| Understand the fundamental of PLC                             | 3    | 3   | 3   |     |     |     |     | 2   |     | 2    | 3    | 3    |
| Program a PLC with different logical languages                | 2    | 2   | 2   |     |     |     |     |     |     |      |      |      |
| Various industrial applications of PLCs are studied           | 3    | 2   | 3   |     |     |     |     |     |     |      |      |      |
| Able to understand the need of computer in Automation         | 3    | 3   | 3   |     |     |     |     | 2   |     | 2    | 3    | 3    |
| Understand the basics of data conversion and data acquisition | 3    | 3   |     |     |     |     |     |     |     |      |      | 3    |



  
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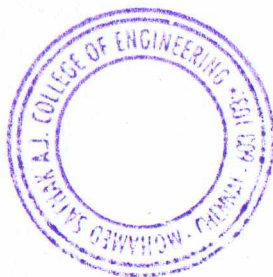
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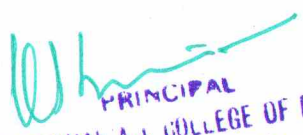
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### DEPARTMENT OF EEE SCHEDULE

|                                  |                                                                                                                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>21/8/2017</b><br><b>Day 1</b> | Definition and History of PLC-PLC advantage and disadvantages- Over all PLC systems CPU and Programmer/Monitors-PLC input and output models                                                                                   |
| <b>22/8/2017</b><br><b>Day 2</b> | Programming of Timers – Introduction - ON delay, OFF delay, Retentive Timers – PLC Timer functions – Examples of timer function Industrial application. Programming Counters                                                  |
| <b>23/8/2017</b><br><b>Day 3</b> | PLC Program Control Instructions: Master Control Reset - Skip – Jump and Move Instruction. Sequencer instructions - Types of PLC Analog modules and systems, PLC analog signal processing – BCD or multi bit data processing. |
| <b>24/8/2017</b><br><b>Day 4</b> | Need of computer in a control system-Functional block diagram of a computer control system-Data loggers                                                                                                                       |
| <b>25/8/2017</b><br><b>Day 5</b> | Sampling theorem – Sampling and digitizing – Aliasing – Sample and hold circuit – Practical implementation of sampling and digitizing – Definition, design and need for data acquisition systems                              |
| <b>26/8/2017</b><br><b>Day 6</b> | Supervisory computer control- Direct digital control-Digital control interfacing-SCADA- Interfacing ADC and DAC with Microprocessor / Multiplexer                                                                             |



  
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### DEPARTMENT OF EEE

#### Assessment

1) Programming language for PLC is \_\_\_\_\_.

- A. Function block diagram
- B. Statement list
- C. Ladder
- D. all the above

2) Ladder logic programming consists primarily of:

- A. Virtual relay contacts and coils
- B. Logic gate symbols with connecting lines
- C. Function blocks with connecting lines
- D. Text-based code

3) In PLC programming, a retentive function is one that:

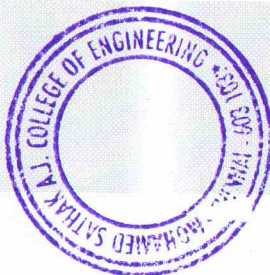
- A. Defaults to the "on" state
- B. Comes last in the program
- C. Defaults to the "off" state
- D. Is not reset after a power cycle

4) In a PLC, the scan time refers to the amount of time in which \_\_\_\_\_

- A. the technician enters the program
- B. timers and counters are indexed by
- C. one "rung" of ladder logic takes to complete
- D. the entire program takes to execute

5) What is the largest integer number that a PLC counter function can reach if it uses a 16 bit register?

- A. 32,768
- B. 65,535
- C. 65,536
- D. 65,537



*[Signature]*  
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6) The difference between online and offline PLC programming is \_\_\_\_\_.

- A. whether the PLC is running or stopped
- B. whether the programming PC has internet connectivity
- C. the type of programming cable used
- D. where the edited program resides

7) A good application for a timed interrupt in a PLC program would be:

- A. A communications function block
- B. A PID function block
- C. A math function block
- D. A motor start/stop rung

8) What is the full form of SCADA?

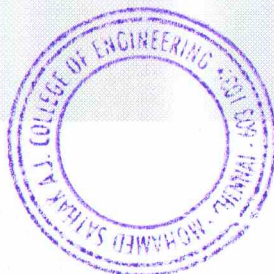
- A. Supervisory Control And Document Acquisition
- B. Supervisory Control And Data Acquisition
- C. Supervisory Column And Data Assessment
- D. Supervisory Control And Data Assessment

9) What is SCADA?

- A. Software
- B. Process
- C. System
- D. Hardware

10) Which of the following is the heart of a SCADA system?

- A. PLC
- B. HMI
- C. Alarm Task
- D. I/O Task



  
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**DEPARTMENT OF EEE**

11) Which of the following is not the component of a SCADA system?

- A. Database server
- B. I/O System
- C. PLC Controller
- D. Sparger Controller

12) The control in SCADA is \_\_\_\_\_ control.

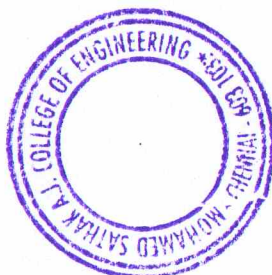
- A. Online
- B. Direct
- C. Supervisory
- D. Automatic

13) There are \_\_\_\_\_ levels present in a complex SCADA system.

- A. 3
- B. 5
- C. 4
- D. 6

14) Which of the following is an example of the SCADA system?

- A. Emerson Delta V
- B. Honeywell Plant Scape
- C. Yokogawa CENTUM
- D. Power studio Deluxe



  
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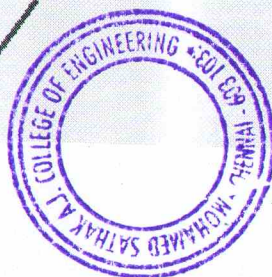
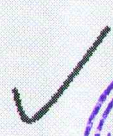
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## DEPARTMENT OF EEE

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X

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- ☐ D. A motor start/stop rung

X

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- ☒ B. Supervisory Control And Data Acquisition
- ☐ C. Supervisory Column And Data Assessment
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✓

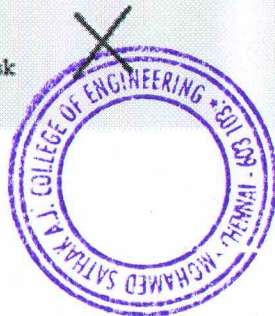
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- ☒ B. Process
- ☐ C. System
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✓

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*Principal*  
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**DEPARTMENT OF EEE**

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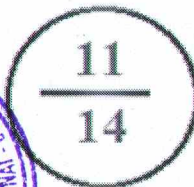
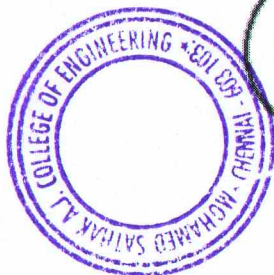
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### DEPARTMENT OF EEE

| S.No           | Register No. | Name of the Students    | Status of Qualifying |
|----------------|--------------|-------------------------|----------------------|
| <b>III EEE</b> |              |                         |                      |
| 1              | 311815105001 | M.Abul Abul Hasan       | Yes                  |
| 2              | 311815105002 | A.R.Abdul Saleem        | Yes                  |
| 3              | 311815105004 | S.S.Anuvanth            | Yes                  |
| 4              | 311815105005 | R.M. Dinesh kumar       | Yes                  |
| 5              | 311815105006 | U. Harshad Ahemed       | Yes                  |
| 6              | 311815105007 | K.S. Iqlas Ahamed       | Yes                  |
| 7              | 311815105008 | S. Manimaran            | Yes                  |
| 8              | 311815105009 | S. Manobalan            | Yes                  |
| 9              | 311815105010 | S.Meena                 | Yes                  |
| 10             | 311815105012 | H.Mohamed Ibrahim       | Yes                  |
| 11             | 311815105014 | J. Mohamed Muneer       | Yes                  |
| 12             | 311815105015 | M.H.Mohamed Rifhath     | Yes                  |
| 13             | 311815105016 | A.Mohammed Sultan       | Yes                  |
| 14             | 311815105017 | M. Mohideen Abdul kader | Yes                  |
| 15             | 311815105019 | S.Nisar Ahmed           | Yes                  |
| 16             | 311815105020 | A.Noor Mohamed          | Yes                  |
| 17             | 311815105021 | M. Prakash              | Yes                  |
| 18             | 311815105023 | S.Sabarigirivasan       | Yes                  |
| 19             | 311815105024 | S.B. Sanjeevi           | Yes                  |
| 20             | 311815105025 | R.Santhosh Kumar        | Yes                  |
| 21             | 311815105027 | S.Shaik Fathhullah      | Yes                  |
| 22             | 311815105028 | Shaik Umar              | Yes                  |
| 23             | 311815105029 | S. Syed Mohamed Buhari  | Yes                  |
| 24             | 311815105301 | M.Ganesh                | Yes                  |
| 25             | 311815105302 | M. Haneen Ahamed        | Yes                  |
| 26             | 311815105303 | S.Mohamed Asif          | Yes                  |
| 27             | 311815105304 | A.Mohamed Rasith        | Yes                  |
| <b>IV EEE</b>  |              |                         |                      |
| 28             | 311814105002 | Abdul S.                | Yes                  |
| 29             | 311814105003 | Brindha.M               | Yes                  |
| 30             | 311814105004 | Deepika.U               | Yes                  |
| 31             | 311814105006 | Fatahunissa.            | Yes                  |
| 32             | 311814105007 | Hashim Md. Zabran N.F   | Yes                  |
| 33             | 311814105008 | Jabar Ali A             | Yes                  |
| 34             | 311814105010 | Mohamed Ihsan.A         | Yes                  |
| 35             | 311814105011 | Md. Javeeth Nasim. S    | Yes                  |

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|    |              |                         |     |
|----|--------------|-------------------------|-----|
| 36 | 311814105012 | Mohammed Faiz           | Yes |
| 37 | 311814105013 | Mohammad Hashim         | Yes |
| 38 | 311814105014 | Nabeel.N                | Yes |
| 39 | 311814105015 | Nomon Juneed N          | Yes |
| 40 | 311814105016 | Parvez Aalam.A          | Yes |
| 41 | 311814105017 | Pathmanaban M           | Yes |
| 42 | 311814105018 | Rosalinda.N             | Yes |
| 43 | 311814105019 | Shaik Md. Ashar P. S. A | Yes |
| 44 | 311814105021 | Srinivasan.V            | Yes |
| 45 | 311814105022 | Sriram R                | Yes |
| 46 | 311814105023 | Syed Moosa.T            | Yes |
| 47 | 311814105024 | Vignesh.B               | Yes |
| 48 | 311814105302 | Irfan Suber             | Yes |
| 49 | 311814105303 | Javith. B               | Yes |
| 50 | 311814105304 | Mohammed Fazil.T        | Yes |
| 51 | 311814105305 | Mohamed Haja Shariff.A  | Yes |





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**INTRODUCTION TO PLC AND SCADA ATTENDANCE- (2017-2018)**

| S.No | Reg. No. of the Student | Student Name            | 21.8.17 | 22.8.17 | 23.8.17 | 24.8.17 | 25.8.17 | 26.8.17 | Total No.<br>of hours | Attendance<br>Percentage (%) |
|------|-------------------------|-------------------------|---------|---------|---------|---------|---------|---------|-----------------------|------------------------------|
| 1    | 311815105001            | M.Abul Abul Hasan       | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 2    | 311815105002            | A.R.Abdul Saleem        | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 3    | 311815105004            | S.S.Anuvanth            | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 4    | 311815105005            | R.M. Dinesh kumar       | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 5    | 311815105006            | U. Harshad Ahemed       | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 6    | 311815105007            | K.S. Iqlas Ahamed       | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 7    | 311815105008            | S. Manimaran            | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 8    | 311815105009            | S. Manobalan            | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 9    | 311815105010            | S.Meena                 | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 10   | 311815105012            | H.Mohamed Ibrahim       | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 11   | 311815105014            | J. Mohamed Muneer       | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 12   | 311815105015            | M.H.Mohamed Rifhath     | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 13   | 311815105016            | A.Mohammed Sultan       | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 14   | 311815105017            | M. Mohideen Abdul kader | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 15   | 311815105019            | S.Nisar Ahmed           | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 16   | 311815105020            | A.Noor Mohamed          | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 17   | 311815105021            | M. Prakash              | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 18   | 311815105023            | S.Sabarigirivasan       | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 19   | 311815105024            | S.B. Sanjeevi           | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 20   | 311815105025            | R.Santhosh Kumar        | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 21   | 311815105027            | S.Shaik Fathhullah      | P       | P       | P       | P       | P       | P       | 6                     | 100                          |
| 22   | 311815105028            | Shaik Umar              | P       | P       | P       | P       | P       | P       | 6                     | 100                          |



|    |              |                         |   |   |   |   |   |   |   |     |
|----|--------------|-------------------------|---|---|---|---|---|---|---|-----|
| 23 | 311815105029 | S. Syed Mohamed Buhari  | P | P | P | P | P | P | 6 | 100 |
| 24 | 311815105301 | M.Ganesh                | P | P | P | P | P | P | 6 | 100 |
| 25 | 311815105302 | M. Haneen Ahamed        | P | P | P | P | P | P | 6 | 100 |
| 26 | 311815105303 | S.Mohamed Asif          | P | P | P | P | P | P | 6 | 100 |
| 27 | 311815105304 | A.Mohamed Rasith        | P | P | P | P | P | P | 6 | 100 |
| 28 | 311814105002 | Abutalib.S              | P | P | P | P | P | P | 6 | 100 |
| 29 | 311814105003 | Brindha.M               | P | P | P | P | P | P | 6 | 100 |
| 30 | 311814105004 | Deepika.U               | P | P | P | P | P | P | 6 | 100 |
| 31 | 311814105006 | Fatahunissa.J           | P | P | P | P | P | P | 6 | 100 |
| 32 | 311814105007 | Hashim Md. Zabran N.F   | P | P | P | P | P | P | 6 | 100 |
| 33 | 311814105008 | Jabar Ali A             | P | P | P | P | P | P | 6 | 100 |
| 34 | 311814105010 | Mohamed Ihsan.A         | P | P | P | P | P | P | 6 | 100 |
| 35 | 311814105011 | Md. Javeeth Nasim. S    | P | P | P | P | P | P | 6 | 100 |
| 36 | 311814105012 | Mohammed Faiz           | P | P | P | P | P | P | 6 | 100 |
| 37 | 311814105013 | Mohammad Hashim         | P | P | P | P | P | P | 6 | 100 |
| 38 | 311814105014 | Nabeel.N                | P | P | P | P | P | P | 6 | 100 |
| 39 | 311814105015 | Nomon Juneed N          | P | P | P | P | P | P | 6 | 100 |
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| 44 | 311814105021 | Srinivasan.V            | P | P | P | P | P | P | 6 | 100 |
| 45 | 311814105022 | Sriram R                | P | P | P | P | P | P | 6 | 100 |
| 46 | 311814105023 | Syed Moosa.T            | P | P | P | P | P | P | 6 | 100 |
| 47 | 311814105024 | Vignesh.B               | P | P | P | P | P | P | 6 | 100 |
| 48 | 311814105302 | Irfan Suber             | P | P | P | P | P | P | 6 | 100 |
| 49 | 311814105303 | Javith. B               | P | P | P | P | P | P | 6 | 100 |
| 50 | 311814105304 | Mohammed Fazil.T        | P | P | P | P | P | P | 6 | 100 |
| 51 | 311814105305 | Mohamed Haja Shariff.A  | P | P | P | P | P | P | 6 | 100 |





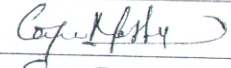
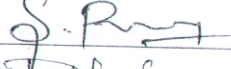
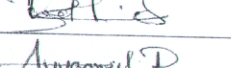
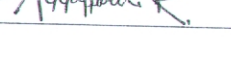
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Siruseri IT Park, Egattur, Chennai 603 103

Ref: MSAJCE / PO 101 / 2017-2018

Date: 8.2.2017

**CIRCULAR**

This is to inform the following faculty members to attend the meeting on 9.2.2017 in principal chamber to design the curriculum for the ADD-ON program on “**CAD Modeling using CATIA V5**”.

| S.NO | Faculty Name         | Designation         | Signature                                                                             |
|------|----------------------|---------------------|---------------------------------------------------------------------------------------|
| 1    | Dr. Ganesa Moorthy R | Professor           |    |
| 2    | Mr. S.Prasath        | Associate Professor |   |
| 3    | Mr. S.Bharath        | Assistant Professor |  |
| 4    | Mr. Ayyapparishi R   | Assistant Professor |  |

  
Principal 8/2/17

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**DEPARTMENT OF MECHANICAL ENGINEERING**

From ,

Mr. Ganesamoorthy,  
Professor,  
Department of Mechanical Engineering,  
Mohamed Sathak A.J. College of Engineering,  
Chennai – 603 103.

To

The Principal,  
Mohamed Sathak A.J. College of Engineering,  
Chennai – 603 103.

Respected Madam/Sir,

Sub: Permission for conducting ADD on course – reg.

With reference to the above cited subject, we have proposed to conduct ADD on courses for the students of Mechanical department. The selected courses are useful to the students for learning the emerging technical fields.

Kindly provide the permission for the same.

| Year/Sem          | Title                       | Dates                    |
|-------------------|-----------------------------|--------------------------|
| IV/VII-Mechanical | CAD Modeling using CATIA V5 | 19.06.2017 to 28.06.2017 |

Thanking you

Place : Chennai

Date : 01.07.2017

**PRINCIPAL**  
**MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING**  
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park  
Chennai-603 103.

Your's faithfully

**Head of the Department**  
**Department of Mechanical Engineering**  
**Mohamed Sathak A.J. College of Engineering**  
Egattur, Chennai - 603 103.







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### DEPARTMENT OF MECHANICAL ENGINEERING

From ,

Mr.Ganesamoorthy,  
Professor,  
Department of Mechanical Engineering,  
Mohamed Sathak A.J.College of Engineering,  
Chennai – 603103.

Respected Madam/Sir,

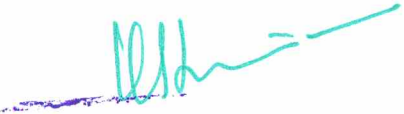
Sub: Assigning of faculty for VAC course curriculum design for the academic year 2017-2018-Reg

Ref: Letter of Requisition for the appointment of faculty for ADD on course curriculum design for the academic year 2017-2018 Dated: 19.06.2017 to 28.06.2017.

The undersigned appreciates the department for proposing to conduct such kind of programme. As per your recommendation and referring to the above subject. I am pleased to nominate the following faculty members for ADD on course curriculum design.

The above listed faculty is hereby instructed to design the curriculum taking in to consideration the thrust areas of the respective field and ensure it should enhance the employability opportunities for the students.

| Title                       | Name of the Faculty  |
|-----------------------------|----------------------|
| CAD Modeling using CATIA V5 | Mr.S.Bharath AP/MECH |

  
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---

**DEPARTMENT OF MECHANICAL ENGINEERING**

---

Ref:MSAJCE/VAC01MECH/2017-2018

Date: 10.07.2017

**CIRCULAR**

Our department is organizing a "ADD ON " on CAD Modeling using CATIA V5 during 19.06.2017 to 28.06.2017.. The following IV Year Mechanical Students register with Mr.S.Bharath AP/MECH on or before 15.06.2017.

The session schedule is as follows

**Timing: 9.00 AM to 1.00 PM**

**Location : CAD Laboratory**

**HoD**

Head of the Department  
Department of Mechanical Engineering  
Mohamed Sathak A.J.College of Engineering  
Egattur, Chennai - 603 103.

Copy To:

Dept. of Mechanical

IV Year Mechanical



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### DEPARTMENT OF MECHANICAL ENGINEERING

#### COURSE MODULE

##### Course Objectives:

The Students will acquire to

- Understand basis of graphical representation in the general context of Industrial Engineering.
- Apply expression and communication for the design, creation, definition and development of an industrial installation and/or product making practical use of the current technologies
- Create design shapes with 3D modeling, assembly, sheet metal design and visualization features
- Learn the implementation of solid modeling and get hands-on experience with the real world projects

#### MODULE

|    |                                                                                         |
|----|-----------------------------------------------------------------------------------------|
| 1  | Surface Modeling & Assembly - An Overview                                               |
| 2  | Wireframe & Surface design                                                              |
| 3  | Surfaces – Sweep - Multi section - surfaces - Trim operations - Generative shape design |
| 4  | Introduction to Assembly - Bottom up approach                                           |
| 5  | Top down approach                                                                       |
| 6  | Inserting of components                                                                 |
| 7  | Assembly constraints                                                                    |
| 8  | Introduction to Drafting                                                                |
| 9  | Visual Realism                                                                          |
| 10 | Digital mockup Kinematics                                                               |
| 11 | Simple Mechanism Analysis                                                               |
| 12 | Introduction to Sheet Metal Design                                                      |
| 13 | Generative sheet metal design                                                           |
| 14 | Sheet metal design                                                                      |
| 15 | Sketching                                                                               |
| 16 | Lofted bend                                                                             |
| 17 | Jog feature                                                                             |

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|    |                      |
|----|----------------------|
| 18 | Forming tools        |
| 19 | Swept flange         |
| 20 | Pattern and Drafting |



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---

## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Outcome

Students will able to

- Interpret and/or convey the technical information in an industrial drawing
- Apply graphical representation techniques using traditional metric geometry and Know, identify, interpret and apply the current standards
- do assembly designing, sheet metal designing, and template based designing
- perform visual analysis and validation which will give them high quality performance insights for product decisions

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### DEPARTMENT OF MECHANICAL ENGINEERING

#### CO PO Mapping

| Course Outcome                                                                                                                            | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| Interpret and/or convey the technical information in an industrial drawing                                                                | 3   | 3   |     |     | 3   |     |     | 2   |     | 2    | 3    | 2    |
| Apply graphical representation techniques using traditional metric geometry and Know, identify, interpret and apply the current standards |     |     | 2   | 2   | 2   | 2   |     |     |     |      |      |      |
| do assembly designing, sheet metal designing, and template based designing                                                                |     | 3   |     |     | 3   |     |     | 2   |     | 2    | 3    |      |
| perform visual analysis and validation which will give them high quality performance insights for product decisions                       |     |     | 2   | 2   | 2   | 2   |     |     |     |      |      |      |

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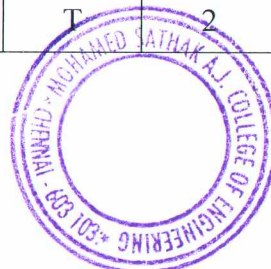


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**DEPARTMENT OF MECHANICAL ENGINEERING**

| Sl. No. | Topic                                                                                   | T / R* | Periods Required | Mode of Teaching |
|---------|-----------------------------------------------------------------------------------------|--------|------------------|------------------|
|         |                                                                                         | Book   |                  |                  |
| 1       | Surface Modeling & Assembly - An Overview                                               | T      | 2                | PPT              |
| 2       | Wireframe & Surface design                                                              | T      | 2                | Practical        |
| 3       | Surfaces – Sweep - Multi section - surfaces - Trim operations - Generative shape design | T      | 2                | Practical        |
| 4       | Introduction to Assembly - Bottom up approach                                           | T      | 2                | PPT              |
| 5       | Top down approach                                                                       | T      | 2                | Practical        |
| 6       | Inserting of components                                                                 | T      | 2                | Practical        |
| 7       | Assembly constrains                                                                     | T      | 2                | Practical        |
| 8       | Introduction to Drafting                                                                | T      | 2                | PPT              |
| 9       | Visual Realism                                                                          | T      | 2                | Practical        |
| 10      | Digital mockup Kinematics                                                               | T      | 3                | Practical        |
| 11      | Simple Mechanism Analysis                                                               | T      | 3                | Practical        |
| 12      | Introductio to Sheet Metal Design                                                       | T      | 2                | PPT              |
| 13      | Generative sheet metal design                                                           | T      | 3                | PPT              |
| 14      | Sheet metal design                                                                      | T      | 3                | Practical        |
| 15      | Sketching                                                                               | T      | 3                | Practical        |
| 16      | Lofted bend                                                                             | T      | 2                | Practical        |
| 17      | Jog feature                                                                             | T      | 2                | Practical        |
| 18      | Forming tools                                                                           | T      | 2                | Practical        |
| 19      | Swept flange                                                                            | T      | 2                | Practical        |
| 20      | Pattern and Drafting                                                                    | T      | 2                | Practical        |

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### DEPARTMENT OF MECHANICAL ENGINEERING

| Quiz / Mini Projects / Model Developed if any |                                                                                                                                                         |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nil                                           |                                                                                                                                                         |
| Text / Reference Books                        |                                                                                                                                                         |
| 1                                             | 1. Notes on 3D Modelling and CAD Practice. Teachers of the Department of Graphic Expression. University College of Engineering of Vitoria-Gasteiz. 2010 |
| 2                                             | 2. DASSAULT SYSTEMES Users Guide Part Design / Wireframe and surfaces // Assembly design / Generative drafting /CATIA V5.                               |
| Website / URL References                      |                                                                                                                                                         |
| 1                                             | <a href="https://nptel.ac.in/courses/112/102/112102102/">https://nptel.ac.in/courses/112/102/112102102/</a>                                             |

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### DEPARTMENT OF MECHANICAL ENGINEERING

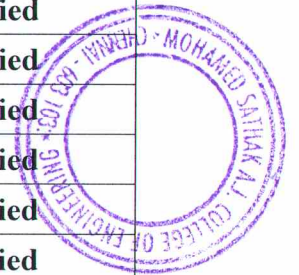
| Sl.No | Name of the Student      | Register No. | Status of Qualifying |
|-------|--------------------------|--------------|----------------------|
| 1     | Ahamed Ahil Shaik A      | 311814114002 | Qualified            |
| 2     | Ajithkumar R S           | 311814114003 | Qualified            |
| 3     | Al Bahir A               | 311814114004 | Qualified            |
| 4     | Anand A R                | 311814114005 | Qualified            |
| 5     | Arun A R                 | 311814114006 | Qualified            |
| 6     | Arunkumar P              | 311814114007 | Qualified            |
| 7     | Arun Kumar A             | 311814114008 | Qualified            |
| 8     | Arunvanan K              | 311814114009 | Qualified            |
| 9     | Ayyappan A               | 311814114010 | Qualified            |
| 10    | Balaji S                 | 311814114012 | Qualified            |
| 11    | Clinton J Knox           | 311814114013 | Qualified            |
| 12    | Deepak Guru S            | 311814114014 | Qualified            |
| 13    | Dharani P                | 311814114015 | Qualified            |
| 14    | Dominic Bro M            | 311814114016 | Qualified            |
| 15    | Gopinathan M             | 311814114018 | Qualified            |
| 16    | Hakkimullah A            | 311814114021 | Qualified            |
| 17    | Jagan C                  | 311814114023 | Qualified            |
| 18    | Jamal Shagul Aameedh J M | 311814114024 | Qualified            |
| 19    | Jayaseelan R V           | 311814114025 | Qualified            |
| 20    | Jaya Surya B             | 311814114026 | Qualified            |
| 21    | Jaya Surya S             | 311814114027 | Qualified            |
| 22    | Kamal A                  | 311814114029 | Qualified            |
| 23    | Kannan R                 | 311814114030 | Qualified            |
| 24    | Karan S                  | 311814114031 | Qualified            |
| 25    | Karthik K                | 311814114032 | Qualified            |
| 26    | Karthikeyan U            | 311814114033 | Qualified            |
| 27    | Karthik Kumar D J        | 311814114034 | Qualified            |
| 28    | Kavi Surjit Arasu M      | 311814114035 | Qualified            |
| 29    | Kumaresan M              | 311814114036 | Qualified            |





|    |                         |              |           |
|----|-------------------------|--------------|-----------|
| 30 | Manigandan J            | 311814114037 | Qualified |
| 31 | Md Ateeq Ul Huq A       | 311814114038 | Qualified |
| 32 | Mizsal Ahamed K         | 311814114040 | Qualified |
| 33 | Mohamed Azarudeen S     | 311814114042 | Qualified |
| 34 | Mohamed Azeem S         | 311814114043 | Qualified |
| 35 | Mohamed Ibrahim S S     | 311814114044 | Qualified |
| 36 | Mohamed Nooh Imran M    | 311814114045 | Qualified |
| 37 | Mohamed Riyas B         | 311814114046 | Qualified |
| 38 | Mohamed Salih A         | 311814114047 | Qualified |
| 39 | Mohamed Shagul Rilwan S | 311814114048 | Qualified |
| 40 | Mohamed Sheik Irfan K   | 311814114049 | Qualified |
| 41 | Mohammed Falah A        | 311814114050 | Qualified |
| 42 | Mohammed Javed H        | 311814114051 | Qualified |
| 43 | Mohammed Rafiq N        | 311814114052 | Qualified |
| 44 | Muthurajan R            | 311814114053 | Qualified |
| 45 | Nishathul Hasan M       | 311814114054 | Qualified |
| 46 | Orsonnithinraj A        | 311814114055 | Qualified |
| 47 | Periyar Selvam K        | 311814114056 | Qualified |
| 48 | Prasanna Raj S          | 311814114057 | Qualified |
| 49 | Prasanth T              | 311814114058 | Qualified |
| 50 | Pravinkumar S           | 311814114059 | Qualified |
| 51 | Premkumar V             | 311814114060 | Qualified |
| 52 | Sabeeskumar M           | 311814114061 | Qualified |
| 53 | Sadaam Hussain T        | 311814114062 | Qualified |
| 54 | Sathishkumar G          | 311814114064 | Qualified |
| 55 | Sathishkumar M          | 311814114065 | Qualified |
| 56 | Sivan Raja M            | 311814114067 | Qualified |
| 57 | Subash M                | 311814114068 | Qualified |
| 58 | Sundaravadivel S        | 311814114070 | Qualified |
| 59 | Sunil S                 | 311814114071 | Qualified |
| 60 | Surendran S             | 311814114072 | Qualified |
| 61 | Syed Mudhassir S        | 311814114073 | Qualified |
| 62 | Syed Raseen Ahamed H    | 311814114074 | Qualified |
| 63 | Tamilmuthu S            | 311814114075 | Qualified |
| 64 | Thabrez Muhammed        | 311814114076 | Qualified |
| 65 | Udayaprakash S          | 311814114077 | Qualified |
| 66 | Udhaya Kumar D          | 311814114078 | Qualified |

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Chennai - 603 103



|    |                         |              |                  |
|----|-------------------------|--------------|------------------|
| 67 | Vignesh P (1996-07-06)  | 311814114081 | <b>Qualified</b> |
| 68 | Vignesh P (1997-05-05)  | 311814114082 | <b>Qualified</b> |
| 69 | Vinothkumar K           | 311814114083 | <b>Qualified</b> |
| 70 | Yasin Purinath K        | 311814114084 | <b>Qualified</b> |
| 71 | Abdul Kareem L          | 311814114301 | <b>Qualified</b> |
| 72 | Haroon Ahamed S         | 311814114305 | <b>Qualified</b> |
| 73 | Krishna Kumar E         | 311814114306 | <b>Qualified</b> |
| 74 | Mohamed Saleem S        | 311814114307 | <b>Qualified</b> |
| 75 | Mohammed Fahim Tharik S | 311814114309 | <b>Qualified</b> |
| 76 | Salman Akram M          | 311814114312 | <b>Qualified</b> |
| 77 | Sirajudeen S            | 311814114314 | <b>Qualified</b> |
| 78 | Thoufichussain B        | 311814114315 | <b>Qualified</b> |
| 79 | Vignesh Rr              | 311814114316 | <b>Qualified</b> |
| 80 | Rizwan S                | 311814114701 | <b>Qualified</b> |
| 81 | Mohammedumarfarook B    | 311814114702 | <b>Qualified</b> |
| 82 | Abdulsubakhan C         | 311814114703 | <b>Qualified</b> |
| 83 | Mohamed Hasir M         | 311814114901 | <b>Qualified</b> |



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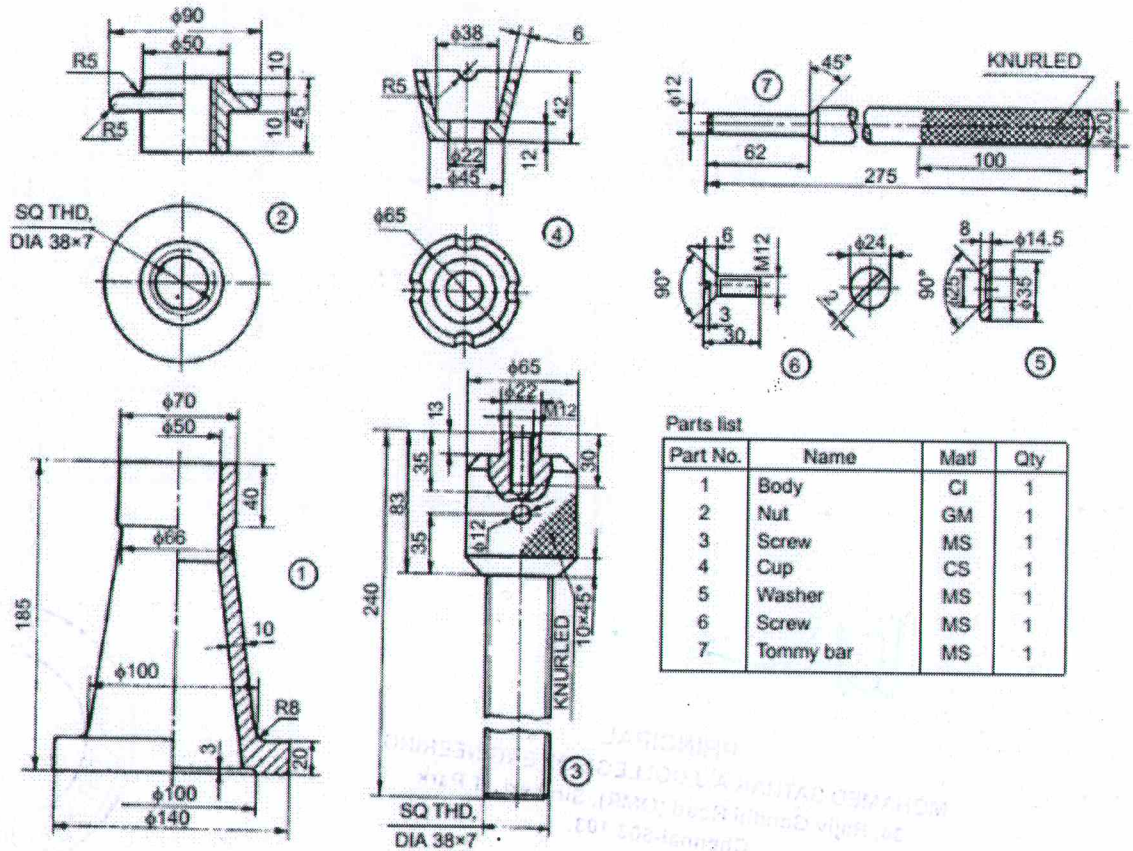
## DEPARTMENT OF MECHANICAL ENGINEERING

### VALUE ADDED COURSE CAD Modeling using CATIA V5

Date: 29-06-2017

Time: 120 Mins

1. Create the 3D model and assemble the parts of the following SCREW JACK diagram using CATIA V5 360 (50 marks)

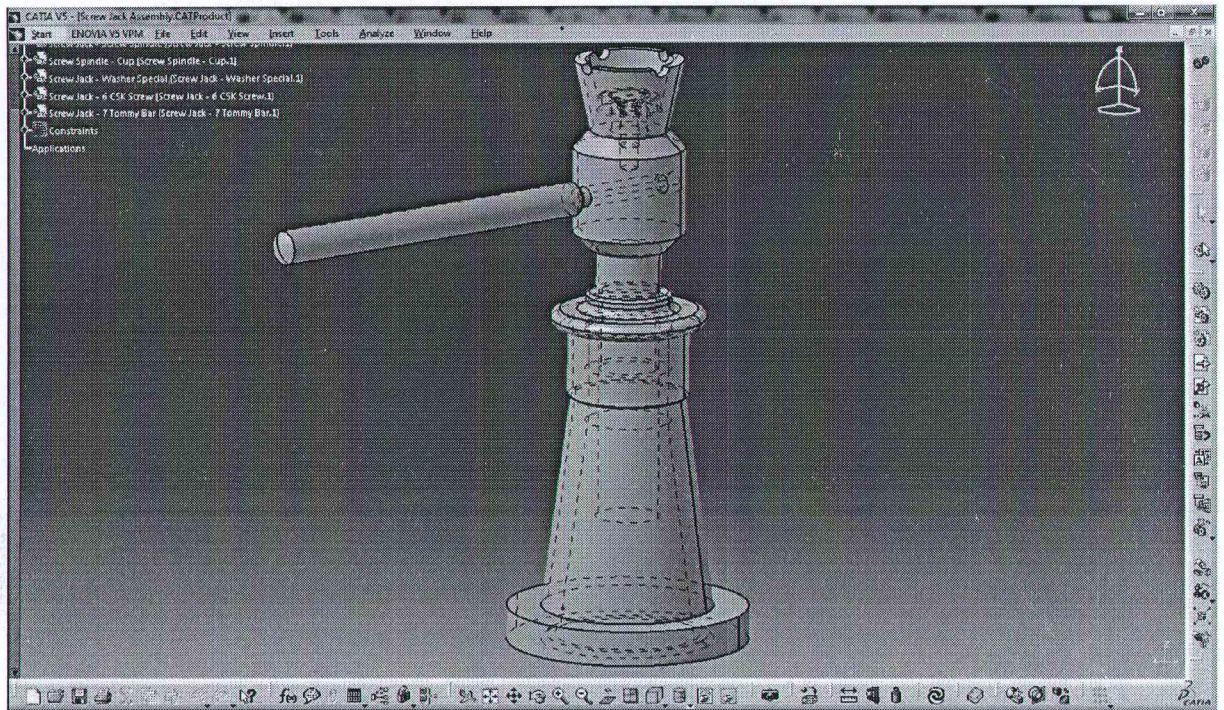


*Handwritten signature*

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*Wsh*

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Ref: MSAJCE / PO 102 / 2017-2018

Date: 8.2.2017

### CIRCULAR

This is to inform the following faculty members to attend the meeting on 9.2.2017 in principal chamber to design the curriculum for the ADD-ON program on “CNC Programming”.

| S.NO | Faculty Name         | Designation         | Signature |
|------|----------------------|---------------------|-----------|
| 1    | Dr. Ganesa Moorthy R | Professor           |           |
| 2    | Mr. S.Prasath        | Associate Professor |           |
| 3    | Mr. Vankataramanan S | Assistant Professor |           |
| 4    | Mr. Ayyapparishi R   | Assistant Professor |           |

Principal

PRINCIPAL

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**DEPARTMENT OF MECHANICAL ENGINEERING**

From ,

Mr.Ganesamoorthy,  
Professor,  
Department of Mechanical Engineering,  
Mohamed Sathak A.J.College of Engineering,  
Chennai – 603103.

To

The Principal,  
Mohamed Sathak A.J.College of Engineering,  
Chennai – 603103.

Respected Madam/Sir,

Sub: Permission for conducting ADD on course – reg.

With reference to the above cited subject, we have proposed to conduct ADD on courses for the students of Mechanical department. The selected courses are useful to the students for learning the emerging technical fields.

Kindly provide the permission for the same.

| Year/Sem         | Title           | Dates                    |
|------------------|-----------------|--------------------------|
| III/V-Mechanical | CNC Programming | 19.06.2017 to 27.06.2017 |

Thanking you

Place : Chennai

Date : 01.07.2017

Your's faithfully

Head of the Department  
Department of Mechanical Engineering  
Mohamed Sathak A.J.College of Engineering  
Egattur, Chennai - 603 103.

**PRINCIPAL**  
**MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING**  
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---

**DEPARTMENT OF MECHANICAL ENGINEERING**

From ,

Mr.Ganesamoorthy,  
Professor,  
Department of Mechanical Engineering,  
Mohamed Sathak A.J.College of Engineering,  
Chennai – 603103.

Respected Madam/Sir,

Sub: Assigning of faculty for VAC course curriculum design for the academic year 2017-2018-Reg

Ref: Letter of Requisition for the appointment of faculty for ADD on course curriculum design for the academic year 2017-2018 Dated: 19.06.2017 to 27.06.2017.

The undersigned appreciates the department for proposing to conduct such kind of programme. As per your recommendation and referring to the above subject. I am pleased to nominate the following faculty members for ADD on course curriculum design.

The above listed faculty is hereby instructed to design the curriculum taking in to consideration the thrust areas of the respective field and ensure it should enhance the employability opportunities for the students.

| Title           | Name of the Faculty     |
|-----------------|-------------------------|
| CNC Programming | Mr.Venkat Raman AP/MECH |

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**DEPARTMENT OF MECHANICAL ENGINEERING**

Ref:MSAJCE/VAC02MECH/2017-2018

Date: 10.07.2017

**CIRCULAR**

Our department is organizing a "ADD ON " on CNC Programming during 19.06.2017 to 27.06.2017.. The following III Year Mechanical Students register with Mr.Venkat Raman AP/MECH on or before 15.06.2017.

The session schedule is as follows

**Timing: 9.00 AM to 1.00 PM**

**Location : ANSYS Laboratory**

**HoD**

Head of the Department  
Department of Mechanical Engineering  
Mohamed Sathak A.J.College of Engineering  
Egattur, Chennai - 603 103.

Copy To:

Dept. of Mechanical

IV Year Mechanical



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### DEPARTMENT OF MECHANICAL ENGINEERING

#### COURSE MODULE

##### Course Objectives:

The Students will acquire to

- Understand fundamental principles of CAM and CNC Process
- Expertise in geometric modeling techniques, data structure design and algorithms for solid modeling
- Understand knowledge of machining theory, automated CNC machining, and process control.
- Apply the concept to product design and manufacturing
- Exposure to CNC Coding and CAM Simulation softwares

#### MODULE

|    |                                                                                         |
|----|-----------------------------------------------------------------------------------------|
| 1  | Introduction & CNC Process Overview                                                     |
| 2  | Introduction to CNC lathe - Coordinate system of CNC lathe                              |
| 3  | Preparatory functions (G codes)                                                         |
| 4  | Miscellaneous functions (M codes)                                                       |
| 5  | Manual part programming (linear and circular)                                           |
| 6  | Tool nose radius compensation                                                           |
| 7  | Rough cutting cycle and finishing cycle                                                 |
| 8  | Pattern repeating cycle - Drilling cycle - Grooving cycle                               |
| 9  | Tread cutting cycle - Tapping cycle - Boring cycle                                      |
| 10 | Computer Aided Part programming                                                         |
| 11 | Introduction to CNC machining Centre                                                    |
| 12 | Coordinate system - Preparatory functions (G codes) – Miscellaneous functions (M codes) |
| 13 | Manual part programming (linear and circular)                                           |

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|    |                                               |
|----|-----------------------------------------------|
| 14 | Cutter radius compensation                    |
| 15 | Tool length compensation                      |
| 16 | Canned cycle (drilling and boring) operations |
| 17 | Computer Aided Part programming               |
| 18 | Selection of tools for CNC turning            |
| 19 | Exercise - I                                  |
| 20 | Exercise - II                                 |



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### DEPARTMENT OF MECHANICAL ENGINEERING

#### Course Outcome

Students will able to

- Concepts and underlying theory of modeling and the usage of models in different engineering applications
- Create accurate and precise geometry of complex engineering systems and use the geometric models in different engineering applications
- Compare the different types of modeling techniques and explain the central role solid models play in the successful completion of CAD/CAM-based product development
- Understand the basic concepts of CNC programming and machining



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### DEPARTMENT OF MECHANICAL ENGINEERING

#### CO PO Mapping

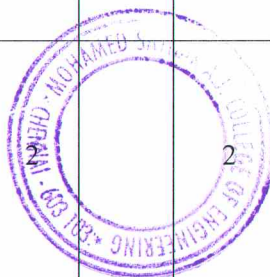
| Course Outcome                                                                                                                                                      | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| concepts and underlying theory of modeling and the usage of models in different engineering applications                                                            | 3   | 3   |     |     | 3   |     |     | 2   |     | 2    | 3    | 2    |
| Create accurate and precise geometry of complex engineering systems and use the geometric models in different engineering applications                              |     |     | 2   | 2   | 2   | 2   |     |     |     |      |      |      |
| Compare the different types of modeling techniques and explain the central role solid models play in the successful completion of CAD/CAM-based product development |     | 3   |     |     | 3   |     |     |     |     | 2    | 3    |      |
| Understand the basic concepts of CNC programming and machining                                                                                                      |     |     | 2   | 2   | 2   | 2   |     |     |     |      |      |      |

*[Handwritten signature]*

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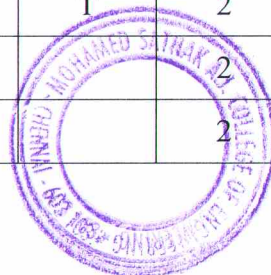
Siruseri IT Park, Egattur, Chennai 603 103

### DEPARTMENT OF MECHANICAL ENGINEERING

| Sl. No. | Topic                                                                                   | T / R* | Periods Required | Mode of Teaching |
|---------|-----------------------------------------------------------------------------------------|--------|------------------|------------------|
|         |                                                                                         | Book   |                  |                  |
| 1       | Introduction & CNC Process Overview                                                     | T      | 2                | PPT              |
| 2       | Introduction to CNC lathe - Coordinate system of CNC lathe                              | T      | 2                | Practical        |
| 3       | Preparatory functions (G codes)                                                         | T      | 2                | Practical        |
| 4       | Miscellaneous functions (M codes)                                                       | T      | 2                | Practical        |
| 5       | Manual part programming (linear and circular)                                           | T      | 2                | Practical        |
| 6       | Tool nose radius compensation                                                           | T      | 2                | Practical        |
| 7       | Rough cutting cycle and finishing cycle                                                 | T      | 2                | Practical        |
| 8       | Pattern repeating cycle - Drilling cycle - Grooving cycle                               | T      | 2                | Practical        |
| 9       | Tread cutting cycle - Tapping cycle - Boring cycle                                      | T      | 2                | Practical        |
| 10      | Computer Aided Part programming                                                         | T      | 3                | Practical        |
| 11      | Introduction to CNC machining Centre                                                    | T      | 3                | PPT              |
| 12      | Coordinate system - Preparatory functions (G codes) – Miscellaneous functions (M codes) | T      | 2                | Practical        |
| 13      | Manual part programming (linear and circular)                                           | T      | 3                | Practical        |
| 14      | Cutter radius compensation                                                              | T      | 3                | Practical        |
| 15      | Tool length compensation                                                                | T      | 3                | Practical        |
| 16      | Canned cycle (drilling and boring) operations                                           | T      | 2                | Practical        |
| 17      | Computer Aided Part programming                                                         | T      | 2                | Practical        |
| 18      | Selection of tools for CNC turning                                                      | T      | 2                | Practical        |
| 19      | Exercise - I                                                                            |        | 2                | Practical        |
| 20      | Exercise - II                                                                           |        | 2                | Practical        |

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### DEPARTMENT OF MECHANICAL ENGINEERING

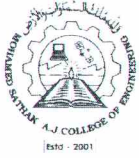
| Quiz / Mini Projects / Model Develpoed if any |                                                                                                             |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Nil                                           |                                                                                                             |
| Text / Reference Books                        |                                                                                                             |
| 1                                             | 1. Tien Chien Chang, "Computer Aided Manufacturing" , Pearson Publication                                   |
| 2                                             | 2. P. Radhakrishnan "Computer Numerical Control", New Central Book Agency                                   |
| Website / URL References                      |                                                                                                             |
| 1                                             | <a href="https://nptel.ac.in/courses/112/102/112102103/">https://nptel.ac.in/courses/112/102/112102103/</a> |

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### DEPARTMENT OF MECHANICAL ENGINEERING

| Sl.No | Name of the Student | Register No. | Status of Qualifying |
|-------|---------------------|--------------|----------------------|
| 1     | Aabith Hussain J    | 311815114001 | Qualified            |
| 2     | Abdul Raziq A       | 311815114002 | Qualified            |
| 3     | Abishanth A         | 311815114003 | Qualified            |
| 4     | Adhithyan S         | 311815114005 | Qualified            |
| 5     | Ahamed Asmi S       | 311815114006 | Qualified            |
| 6     | Ahamed Mubashir N   | 311815114007 | Qualified            |
| 7     | Ahamed Owise M      | 311815114008 | Qualified            |
| 8     | Ahamed Ridwan J     | 311815114009 | Qualified            |
| 9     | Arulkumar S         | 311815114010 | Qualified            |
| 10    | Arunkumar J         | 311815114011 | Qualified            |
| 11    | Arvindhan D         | 311815114012 | Qualified            |
| 12    | Ashok Kumar S       | 311815114013 | Qualified            |
| 13    | Azarudeen A         | 311815114014 | Qualified            |
| 14    | Babu R              | 311815114015 | Qualified            |
| 15    | Bharathi D          | 311815114016 | Qualified            |
| 16    | Denit Kumar A       | 311815114017 | Qualified            |
| 17    | Dhanaraj M          | 311815114018 | Qualified            |
| 18    | Dharmaseelan G      | 311815114020 | Qualified            |
| 19    | Dhinaharan R        | 311815114021 | Qualified            |
| 20    | Dinesh R            | 311815114022 | Qualified            |
| 21    | Fahad Nizamuddin F  | 311815114024 | Qualified            |
| 22    | Gokulakrishnan S    | 311815114025 | Qualified            |
| 23    | Gopalakrishnan R    | 311815114026 | Qualified            |
| 24    | Govindaraj P        | 311815114027 | Qualified            |
| 25    | Gowthamraj R K      | 311815114028 | Qualified            |
| 26    | Grace Samson G P    | 311815114029 | Qualified            |
| 27    | Halilur Rahman B    | 311815114030 | Qualified            |
| 28    | Harish Babu R       | 311815114031 | Qualified            |
| 29    | Himayathulla M      | 311815114032 | Qualified            |

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|    |                          |              |           |
|----|--------------------------|--------------|-----------|
| 30 | Hisham Mohamed Gani H    | 311815114033 | Qualified |
| 31 | Imthiyas N               | 311815114034 | Qualified |
| 32 | Inbasekaran R            | 311815114035 | Qualified |
| 33 | Jalaludeen S             | 311815114036 | Qualified |
| 34 | Jaya Kumar S             | 311815114037 | Qualified |
| 35 | Jinson L                 | 311815114038 | Qualified |
| 36 | Jishnu Madhav            | 311815114039 | Qualified |
| 37 | Kader Firthouse A M Y B  | 311815114040 | Qualified |
| 38 | Kasimuthuraja K          | 311815114041 | Qualified |
| 39 | Kishore S                | 311815114042 | Qualified |
| 40 | Madhan K                 | 311815114043 | Qualified |
| 41 | Mohamed Ameenul Rahman N | 311815114044 | Qualified |
| 42 | Mohamed Aslam B          | 311815114045 | Qualified |
| 43 | Mohamed Azharuddin S     | 311815114046 | Qualified |
| 44 | Mohamed Basim S          | 311815114047 | Qualified |
| 45 | Mohamed Faiz S           | 311815114048 | Qualified |
| 46 | Mohamed Fasil S          | 311815114049 | Qualified |
| 47 | Mohamed Jafer M Z        | 311815114051 | Qualified |
| 48 | Mohamed Javid S          | 311815114052 | Qualified |
| 49 | Mohamed Kasim S          | 311815114053 | Qualified |
| 50 | Mohamed Mahasin J        | 311815114054 | Qualified |
| 51 | Mohamed Niyas M          | 311815114055 | Qualified |
| 52 | Mohamed Sameer S         | 311815114056 | Qualified |
| 53 | Mohamed Yusuf Jamal M A  | 311815114057 | Qualified |
| 54 | Mohammed Azarudin M      | 311815114058 | Qualified |
| 55 | Mohammed Mukthar H       | 311815114059 | Qualified |
| 56 | Mohammed Mustafa H       | 311815114060 | Qualified |
| 57 | Mohamudulkathir P        | 311815114061 | Qualified |
| 58 | Mohammed Asif Khadiri F  | 311815114062 | Qualified |
| 59 | Mohideen Basith S        | 311815114063 | Qualified |
| 60 | Mohideen Irfan I         | 311815114064 | Qualified |
| 61 | Mohammed Roshan V P      | 311815114065 | Qualified |
| 62 | Munish Kumar M           | 311815114066 | Qualified |
| 63 | Nagooraniba M            | 311815114067 | Qualified |
| 64 | Nagutha M A              | 311815114068 | Qualified |
| 65 | Naresh Kumar B           | 311815114069 | Qualified |
| 66 | Naveen Kumar R           | 311815114071 | Qualified |

  
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|-----|-------------------------|--------------|-----------|
| 67  | Navin Kumar P           | 311815114072 | Qualified |
| 68  | Noorulameen J           | 311815114073 | Qualified |
| 69  | Pandi Durai N           | 311815114074 | Qualified |
| 70  | Pradeepkumar K          | 311815114075 | Qualified |
| 71  | Raghul Gandhi R         | 311815114077 | Qualified |
| 72  | Rajarajan K             | 311815114078 | Qualified |
| 73  | Raj Kumar R             | 311815114079 | Qualified |
| 74  | Rishabeshwaran S        | 311815114080 | Qualified |
| 75  | Safeeq Ahamed S         | 311815114081 | Qualified |
| 76  | Santhoshrajan M         | 311815114082 | Qualified |
| 77  | Saran M                 | 311815114083 | Qualified |
| 78  | Saravanan M             | 311815114084 | Qualified |
| 79  | Shaik Muzzamil Basha    | 311815114085 | Qualified |
| 80  | Siddharth M             | 311815114086 | Qualified |
| 81  | Sidharth Balu S         | 311815114087 | Qualified |
| 82  | Subash A                | 311815114088 | Qualified |
| 83  | Syed Abdul Rahman A     | 311815114089 | Qualified |
| 84  | Syed Abdul Razak A      | 311815114090 | Qualified |
| 85  | Syed Salman S           | 311815114091 | Qualified |
| 86  | Syed Sulaiman T         | 311815114092 | Qualified |
| 87  | Syed Thjammul Hussain F | 311815114093 | Qualified |
| 88  | Umar Shariff M O        | 311815114094 | Qualified |
| 89  | Vivek K                 | 311815114095 | Qualified |
| 90  | Abuthahir K             | 311815114301 | Qualified |
| 91  | Arun K                  | 311815114302 | Qualified |
| 92  | Junaith B               | 311815114303 | Qualified |
| 93  | Mohammed Azarudeen A    | 311815114304 | Qualified |
| 94  | Mohammed Jaffer Ali H   | 311815114305 | Qualified |
| 95  | Raj Mohamed P           | 311815114306 | Qualified |
| 96  | Sanaula K R             | 311815114307 | Qualified |
| 97  | Shaik Ijasnasim Psm     | 311815114308 | Qualified |
| 98  | Younus Sharef R         | 311815114309 | Qualified |
| 99  | Kaaviya G               | 311815114502 | Qualified |
| 100 | Azirkhan S              | 311815114701 | Qualified |
| 101 | Zuhail N                | 311815114702 | Qualified |
| 102 | Jeganath Krishnan S G   | 311815114703 | Qualified |

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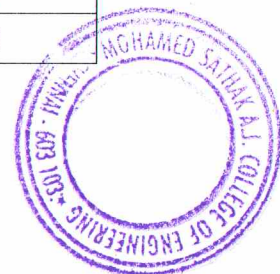
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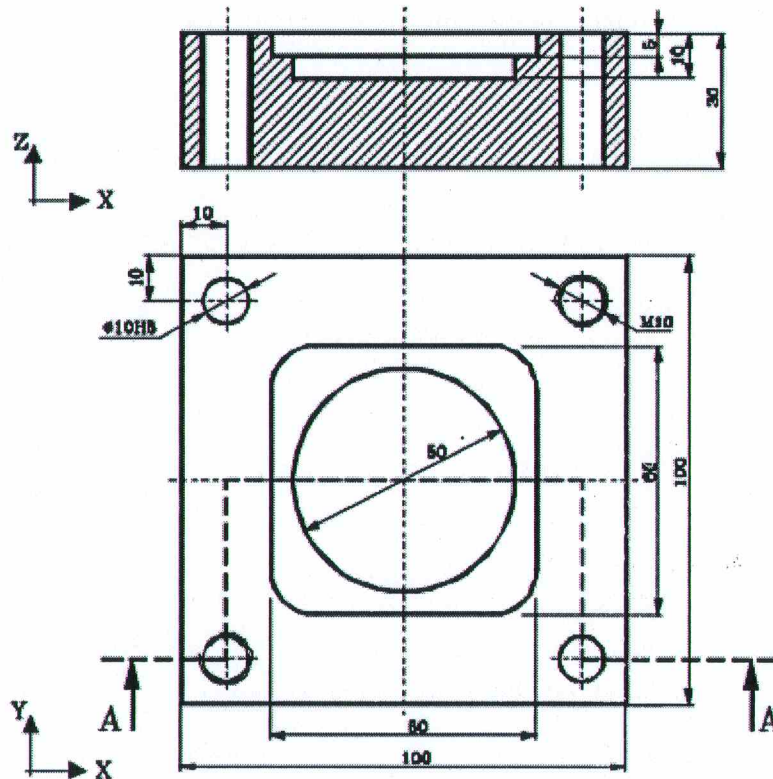
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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CNC Programming (VAC) – III Year (2017-18)**

**Date: 27-06-2017**

**Time: 45 Mins**

1. Write the Part Programming for the below diagram using G and M Codes.



*[Handwritten signature]*

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**REG.NO: 311815114006**

**Programme:**

G0 G90 G43 Z20 F200 S1800 M4 M8 M42.  
N10 G82 G99 X40 Y40 Z2 I-5 K300  
N20 X-40  
N30 Y-40  
N40 X40  
G80  
G0 G44 Z100  
G0 G90 G43 Z20 F200 S1050 M4 M42  
G81 G99 X40 Y40 Z2 I-35  
X-40 Y-40  
G0 G44 Z100  
G0 G90 G43 Z20 F200 S950 M4 M41  
G81 G99 X-40 Y40 Z2 I-35  
G0 X40 Y-40  
G0 G44 Z100  
G0 G90 G43 Z20 F100 S500 M4 M41  
G85 G99 X-40 Y40 Z2 I-30 K200  
X40 Y-40  
G80  
G0 G44 Z100  
G0 G90 G43 Z20 F450 S300 M4 M41  
G84 G99 X40 Y40 Z2 I-35 K200  
X-40 Y-40  
G80  
G0 G44 Z100  
G0 G90 G43 Z20 F250 S1600 M4 M42  
N50 G87 G98 X0 Y0 Z2 I-5 J-30 K30 B5 D2 H200 L-1  
N60 G88 G98 X0 Y0 Z-3 I-10 J-25 B5 D2 H200 L1  
G80  
G0 G44 Z100  
M30



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Siruseri IT Park, Egattur, Chennai 603 103

Ref: MSAJCE / PO 105 / 2017-2018

Date: 8.2.2017

**CIRCULAR**

This is to inform the following faculty members to attend the meeting on 9.2.2017 in principal chamber to design the curriculum for the ADD-ON program on “**PC Hardware & Network Troubleshooting problems**”.

| S.NO | Faculty Name           | Designation         | Signature |
|------|------------------------|---------------------|-----------|
| 1    | Dr. S. Sivasubramanian | Professor           |           |
| 2    | Dr. K. Manivannan      | Professor           |           |
| 3    | Mrs. V.Subapriya       | Assistant Professor |           |
| 4    | Ms.S.Nishanthi         | Assistant Professor |           |

  
Principal

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**DEPARTMENT OF SCIENCE & HUMANITIES**

From ,

Dr. M.Muralidharan

Associate Professor

Department of S&H

Mohamed Sathak A.J.College of Engineering,

Chennai – 603103.

To

The Principal,

Mohamed Sathak A.J.College of Engineering,

Chennai – 603103.

Respected Madam/Sir,

Sub: Permission for conducting ADD ON course – reg.

With reference to the subject mentioned below, we have proposed to conduct ADD ON courses for all the I Year students. The selected courses will be useful to the students for learning the emerging technical fields.

Kindly provide permission for the same

| Year / Sem      | Title                                             | Dates                    |
|-----------------|---------------------------------------------------|--------------------------|
| I Year / II Sem | PC Hardware & Network<br>Troubleshooting problems | 05/03/2018 to 11/03/2018 |

Thanking you

Place: Chennai

Date: 22/02/2018

Your's faithfully

*[Signature]*  
PRINCIPAL  
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING  
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From,

Dr. S. Sivasubramanian

Associate Professor

Department of Computer Science and Engineering

Mohamed Sathak A.J.College of Engineering,

Chennai- 603103.

Respected Madam/Sir,

Sub: Assigning of faculty for ADD ON course curriculum design for the academic year 2017-2018 reg.

Ref: Letter of Requisition for the appointment of faculty for ADD ON course curriculum design for the academic year 2017-2018 Dated: 05/03/2018 to 11/03/2018

The undersigned appreciates the department for proposing to conduct such kind of programme. As per your recommendation and referring to the above subject. I am pleased to nominate the following faculty members for ADD ON course curriculum design.

The above listed faculty is hereby instructed to design the curriculum taking into consideration the thrust areas of the respective field and ensure it should enhance the employability opportunities for the students.

| Title                                             | Name of the Faculty         |
|---------------------------------------------------|-----------------------------|
| PC Hardware & Network<br>Troubleshooting problems | Mrs. V. Subapriya<br>AP/CSE |

  
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Siruseri IT Park, Egattur, Chennai 603 103

### DEPARTMENT OF SCIENCE & HUMANITIES

Ref:01/MSAJCE/S&H/EVEN/2017-2018

Date:22/02/2018

#### CIRCULAR

It is hereby informed to all the 1<sup>st</sup> year students that the Value-Added Course“PC Hardware & Network Troubleshooting Problems” during 05/03/2018 to 11/03/2018. All are advised to attend the training course without fail.

The session schedule is as follows

**Timing: 9.00 AM to 3.30 PM**

**Resource Person: Mrs. V. Subapriya**

| Venue     | 4 <sup>th</sup> Floor Auditorium | TF- 403           | TF- 306         | TF- 411        |
|-----------|----------------------------------|-------------------|-----------------|----------------|
| Faculties | Mrs.V.Subapriya                  | Mrs. V. Indumathi | Mr.R.Vigneshwar | Mrs. J. Vimala |

HoD

COPY TO: S&H

Dept. of S&H

I Year

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### DEPARTMENT OF SCIENCE & HUMANITIES

#### COURSE MODULE

##### Course Objectives:

- 1.To Identify characterize / define a problem.
- 2.To acquire knowledge about basic networking topologies, models.
- 3.To acquire basic knowledge in various networking devices like routers, switches, hubs.
- 4.To acquire knowledge about PC assembling, trouble shooting and maintenance.
5. To generate basic knowledge of servers and network security.

##### **MODULE-1: Introduction and basic networking concepts**

Software and hardware – Input / Output devices - Network technologies – LAN, WAN, MAN, PAN, CAN – Networking model – OSI model – TCP/ IP model- Networking adapters

##### **MODULE-2: Introduction to various networking devices**

Routers – switches – Modems – hubs – Wired and wireless technology

##### **MODULE-3: Inside the PC and Network basic**

Opening the PC and identification – Study of different blocks – Assembling and disassembling – setting IP addresses

##### **MODULE-4: Network configuration**

Sharing files and folders – Network troubleshooting – PING test, ipconfig

##### **MODULE-5: Introduction to servers and network security**

Types of servers- Basics of internet and Intranet – Types of internet connection – cloud application – Audio video conferencing – VOIP

##### Course Outcomes:

The students will be able to

- CO1. Student should able to know about hardware, software and network technologies.
- CO2. Students will have in-depth knowledge about networking devices.
- CO3. The student will able to know the basic of computer assembling and troubleshooting.
- CO4. Students will have brief knowledge about network troubleshooting
- CO5. The student will able to know the basic of servers and network security.

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### CO PO Mapping

| Course Outcome                                           | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|----------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| Hardware and software of system and network technologies | 3   | 2   | 2   | 3   |     |     |     | 3   |     | 3    | 3    | 3    |
| Have in-depth knowledge of networking devices.           | 3   | 3   | 3   | 2   | 2   |     |     |     |     |      |      |      |
| Basic of computer assembling and troubleshooting         | 3   | 2   | 3   |     | 3   |     |     |     |     |      |      |      |
| knowledge about network troubleshooting.                 | 3   | 3   | 3   | 2   | 3   |     |     | 2   |     | 3    | 3    | 3    |
| Basic of servers and network security                    | 3   | 2   |     |     |     |     |     |     |     |      |      | 3    |

  
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| S.No | Title                           | Topics to be Covered          | T/R Books  | Periods Required | Remarks |
|------|---------------------------------|-------------------------------|------------|------------------|---------|
| 1    | Computer Basics                 | Hardware & Software           | T1/Website | 1                | PPT     |
|      |                                 | Input / Output devices        | T1/Website | 2                | BB      |
| 2    | Network technologies            | LAN, MAN, WAN                 | T1/Website | 1                | PPT     |
|      |                                 | PAN, CAN                      | T1/Website | 2                | BB      |
| 3    | Networking model                | OSI model                     | T1/Website | 2                | BB/PPT  |
|      |                                 | TCI / IP Model                | T1/Website | 2                | BPPT    |
| 4    | Networking devices              | Routers, switches             | T1/Website | 2                | PPT     |
|      |                                 | Hubs & modems                 | T1/Website | 2                | BB      |
| 5    | Wired and wireless technologies | Network, cable                | T1/Website | 2                | PPT     |
|      |                                 | Satellite communication, wifi | T1/Website | 2                | PPT     |

|   |               |                                  |            |   |     |
|---|---------------|----------------------------------|------------|---|-----|
| 6 | Inside the PC | Opening and Identification of PC | T1/Website | 2 | BB  |
|   |               | Study of different blocks        | T1/Website | 2 | BB  |
| 7 | Network basic | Assembling and disassembling     | T1/Website | 3 | PPT |
|   |               | Setting IP Address               | T1/Website | 2 | PPT |

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|    |                         |                           |            |   |     |
|----|-------------------------|---------------------------|------------|---|-----|
| 8  | Network configuration   | Sharing files and folders | T1/Website | 2 | PPT |
| 9  | Network troubleshooting | PING test & IP config     | T1/Website | 2 | BB  |
| 10 | Basics of servers       | File server, email server | T1/Website | 2 | PPT |
|    |                         | Proxy server              | T1/Website | 2 | BB  |

|    |                              |                                    |            |   |     |
|----|------------------------------|------------------------------------|------------|---|-----|
| 11 | Types of network connections | Dialup, Broadband, 2G, 3G, 4G, 5G, | T1/Website | 1 | PPT |
|    |                              | Search engines                     | T1/Website | 2 | BB  |
| 12 | VOIP                         | Audio video conferencing           | T1/Website | 1 | PPT |
|    |                              | Cloud applications                 | T1/Website | 2 | PPT |

### Text / Reference Books

|                                 |                                                                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                               | PC Hardware: the complete reference 1.Craig zacker ( Author) 2. John Rourke (Author)                                                                                  |
| <b>Website / URL References</b> |                                                                                                                                                                       |
| 1                               | <a href="https://www.academia.edu/35218609/Computer_Networking_and_Hardware_Concepts">https://www.academia.edu/35218609/Computer_Networking_and_Hardware_Concepts</a> |
| 2                               | <a href="https://bie.tg.nic.in/Pdf/computerHardware.pdf">https://bie.tg.nic.in/Pdf/computerHardware.pdf</a>                                                           |

  
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### Assessment

1. A program that contains nothing but strings of zeros and ones is called
  - a) Machine language program
  - b) Assembly language program
  - c) Interrupted program
  - d) Binary language program
2. All computer programs for a machine is called-----
  - a) Software
  - b) Firmware
  - c) Hardware
  - d) None
3. How many bits are used in the data bus?
  - a) 8
  - b) 9
  - c) 12
  - d) 16
4. Identify the device used to boost up the weak signal.
  - a) Modem
  - b) Router
  - c) Hub
  - d) Repeater
5. Which topology has the highest reliability?
  - a) Mesh
  - b) Ring
  - c) Bus
  - d) Star
6. HTML is used for?
  - a) Web page
  - b) High level program
  - c) Web server
  - d) None
7. What is the website's front page is called?
  - a) Browser page
  - b) Home page
  - c) Search page
  - d) Bookmark

  
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8. A layer which is the binary data protocol layer
  - a) Stub layer
  - b) Transport protocol
  - c) Remote layer
  - d) Skeleton layer
9. An object acting as a gateway for the client side
  - a) Skeleton
  - b) Stub
  - c) Remote
  - d) Server
10. RMI uses stub and skeleton for communication with the ----- object
  - a) Client
  - b) Remote
  - c) Server
  - d) Any
11. The equipment needed to allow home computers to connect the internet is called
  - a) Modem
  - b) Gateway
  - c) Peripheral
  - d) Monitor
12. The process of keeping addresses in memory for future use is called
  - a) Routing
  - b) Resolving
  - c) Caching
  - d) None
13. The server on the internet is also known as
  - a) Hub
  - b) Host
  - c) Gateway
  - d) Repeater
14. The communication protocol used by internet is
  - a) HTTP
  - b) TCP /IP
  - c) WWW
  - d) FTP
15. Website is a collection of
  - a) HTML documents
  - b) Graphic files
  - c) Audio video file
  - d) All the above

  
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16. Internet is governed by

- a) I & B
- b) IETF
- c) Inter NIC
- d) None

17. The ground station in VSAT communication is called

- a) HTTP
- b) Hub
- c) Multiplexer
- d) None

18. Which of the following networking solution is suitable for networking in a building?

- a) WAN
- b) MAN
- c) LAN
- d) None

19. For a small website, one needs to buy space from the

- a) ISP
- b) Telephone exchanger
- c) Network administrator
- d) None

20. The internet standard is

- a) MIME
- b) BIN HEX
- c) UNENCODING
- d) None

  
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- ☐ b) IETF
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- ☒ b) MAN
- ☐ c) LAN
- ☐ d) None



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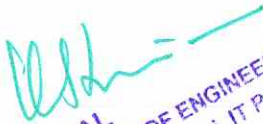
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- ☐ b) Telephone exchanger
- ☐ c) Network administrator
- ☐ d) None



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- ☐ a) MIME
- ☐ b) BIN HEX
- ☐ c) UNENCODING
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| 3    | Abdul Mukshith A      | 311817114003 | Qualified            |
| 4    | Abdul Rahim A K       | 311817114004 | Qualified            |
| 5    | Abdul Rahuman A       | 311817114005 | Qualified            |
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| 7    | Abdur Rahman S        | 311817114007 | Qualified            |
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| 10   | Ahamedsalam A         | 311817114010 | Qualified            |
| 11   | Akash R               | 311817114011 | Qualified            |
| 12   | Arun Prasath R        | 311817114013 | Qualified            |
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| 15   | Chandrasekar G        | 311817114016 | Qualified            |
| 16   | Fasil Ahamed M        | 311817114017 | Qualified            |
| 17   | Gandhi Subash K       | 311817114018 | Qualified            |
| 18   | Gokul L               | 311817114019 | Qualified            |
| 19   | Hemachandru K         | 311817114020 | Qualified            |
| 20   | Ibrahim Tharik N      | 311817114021 | Qualified            |

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| 24 | Karthickkumar M                    | 311817114025 | Qualified |
| 25 | Kireesh Karan R                    | 311817114026 | Qualified |
| 26 | Manikanda Venkataraman G           | 311817114027 | Qualified |
| 27 | Manoj Kumar K                      | 311817114028 | Qualified |
| 28 | Mohamed Abubakker Siddiq S         | 311817114029 | Qualified |
| 29 | Mohamed Ali Hasan Seyed Abuthahi S | 311817114030 | Qualified |
| 30 | Mohamed Ashick M                   | 311817114031 | Qualified |
| 31 | Mohamed Askar M                    | 311817114032 | Qualified |
| 32 | Mohamed Fahim J                    | 311817114033 | Qualified |
| 33 | Mohamed Irfan A                    | 311817114034 | Qualified |
| 34 | Mohamed Irfan J                    | 311817114035 | Qualified |
| 35 | Mohamed Irfan Ali S                | 311817114036 | Qualified |
| 36 | Mohamed Javidh M                   | 311817114037 | Qualified |
| 37 | Mohamed Jubair K                   | 311817114038 | Qualified |
| 38 | Mohamed Kaamil D                   | 311817114039 | Qualified |
| 39 | Mohamed Musraf B A                 | 311817114040 | Qualified |
| 40 | Mohamed Reefdeen K                 | 311817114041 | Qualified |
| 41 | Mohamed Sathik A                   | 311817114042 | Qualified |
| 42 | Mohamed Suhail M                   | 311817114043 | Qualified |

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| 45 | Mohammed Noorudeen N M | 311817114046 | Qualified |
| 46 | Mohammed Zain J        | 311817114047 | Qualified |
| 47 | Muhammed Sufyan J      | 311817114048 | Qualified |
| 48 | Mukesh Sharma V J      | 311817114049 | Qualified |
| 49 | Pandidurai R           | 311817114050 | Qualified |
| 50 | Sabik Mohammed S       | 311817114051 | Qualified |
| 51 | Sajidullah K           | 311817114052 | Qualified |
| 52 | Sameer M               | 311817114053 | Qualified |
| 53 | Shakes Pear N          | 311817114054 | Qualified |
| 54 | Syed N Zaheer Abbas    | 311817114056 | Qualified |
| 55 | Usama A                | 311817114057 | Qualified |
| 56 | Amsha Afrideen A       | 311817103001 | Qualified |
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| 58 | Arun M                 | 311817103003 | Qualified |
| 59 | Asif Ali J             | 311817103004 | Qualified |
| 60 | Fareed Ahamed S        | 311817103005 | Qualified |
| 61 | Ijaz Ahamed P M        | 311817103006 | Qualified |
| 62 | Ismath Ali M           | 311817103007 | Qualified |
| 63 | Jaffer Abbas M A       | 311817103008 | Qualified |
| 64 | Kishore Kumar R        | 311817103009 | Qualified |

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| 66 | Mohamed Mukhtar               | 311817103011 | Qualified |
| 67 | Mohamed Nathkar Shifu M S     | 311817103012 | Qualified |
| 68 | Mohamed Rafeedh S             | 311817103013 | Qualified |
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| 74 | Mohammed Ismaail S            | 311817103019 | Qualified |
| 75 | Mohammed Salman M             | 311817103020 | Qualified |
| 76 | Mohammed Yasir T              | 311817103021 | Qualified |
| 77 | Ramesh R                      | 311817103022 | Qualified |
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| 79 | Shoaib Moosa K                | 311817103024 | Qualified |
| 80 | Surender M                    | 311817103025 | Qualified |
| 81 | Syed Mohammed Usaid Mohiuddin | 311817103026 | Qualified |
| 82 | Zahid Ahamed S                | 311817103027 | Qualified |
| 83 | Hajamoinudeen A               | 311817106001 | Qualified |
| 84 | Hameed Ziyath U R             | 311817106002 | Qualified |
| 85 | Karan J                       | 311817106003 | Qualified |
| 86 | Mohamed Abdul Rahman M        | 311817106004 | Qualified |

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| 88  | Muhammed Swalih K          | 311817106006 | Qualified |
| 89  | Munavvar Hussain T         | 311817106007 | Qualified |
| 90  | Rajkumar C                 | 311817106008 | Qualified |
| 91  | Subash G                   | 311817106010 | Qualified |
| 92  | Syed Khadeer Ahamed S      | 311817106011 | Qualified |
| 93  | Faheem Ramathan S          | 311817105001 | Qualified |
| 94  | Farhan H                   | 311817105002 | Qualified |
| 95  | Ijaz Ahamed M              | 311817105003 | Qualified |
| 96  | Mohamed Amrith U           | 311817105004 | Qualified |
| 97  | Mohamed Aslan J            | 311817105005 | Qualified |
| 98  | Mohamed Azarudeen M        | 311817105006 | Qualified |
| 99  | Mohamed Nihath N           | 311817105007 | Qualified |
| 100 | Sheik Imthiyas S           | 311817105008 | Qualified |
| 101 | Abdul Rahim Salman S       | 311817205001 | Qualified |
| 102 | Adithya V                  | 311817205002 | Qualified |
| 103 | Kabilan R                  | 311817205003 | Qualified |
| 104 | Mohamedhanaz N             | 311817205004 | Qualified |
| 105 | Prakash R                  | 311817205005 | Qualified |
| 106 | Ranjith T                  | 311817205006 | Qualified |
| 107 | Vignesh V                  | 311817205007 | Qualified |
| 108 | Vishnu T                   | 311817205008 | Qualified |

*Mumukshu*

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|-----|---------------------|--------------|-----------|
| 109 | Aayisha M           | 311817104001 | Qualified |
| 110 | Afroze Fathima M    | 311817104002 | Qualified |
| 111 | Asif Fayaz S        | 311817104003 | Qualified |
| 112 | Dinesh D            | 311817104004 | Qualified |
| 113 | Fahima S            | 311817104005 | Qualified |
| 114 | Fahira S            | 311817104006 | Qualified |
| 115 | Fawaz Khan A        | 311817104007 | Qualified |
| 116 | Jai Balaji V        | 311817104009 | Qualified |
| 117 | Jasir Hussain S     | 311817104010 | Qualified |
| 118 | Javid Aslam J       | 311817104011 | Qualified |
| 119 | Kesavan H           | 311817104012 | Qualified |
| 120 | Manoj K             | 311817104013 | Qualified |
| 121 | Mohamed Fayaz P R   | 311817104014 | Qualified |
| 122 | Mohamed Furose H    | 311817104015 | Qualified |
| 123 | Mohamed Nazeer A    | 311817104016 | Qualified |
| 124 | Mohamed Riyaz M A   | 311817104017 | Qualified |
| 125 | Mohamed Sajed S     | 311817104018 | Qualified |
| 126 | Mohamed Suhail M    | 311817104019 | Qualified |
| 127 | Mohammed Sulaiman B | 311817104020 | Qualified |
| 128 | Najeeha Banu A      | 311817104021 | Qualified |
| 129 | Naveen Kumar S      | 311817104022 | Qualified |
| 130 | Nithyadarshni S     | 311817104023 | Qualified |

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|     |                    |              |           |
|-----|--------------------|--------------|-----------|
| 131 | Rahamathullah K    | 311817104024 | Qualified |
| 132 | Rahumangani R      | 311817104025 | Qualified |
| 133 | Ramesh S           | 311817104026 | Qualified |
| 134 | Sabeer Ahamed S    | 311817104027 | Qualified |
| 135 | Santhoshraja L     | 311817104028 | Qualified |
| 136 | Selciya J          | 311817104029 | Qualified |
| 137 | Shahid Yaaser J    | 311817104030 | Qualified |
| 138 | Soundarya M        | 311817104031 | Qualified |
| 139 | Syed Sahir Ahmed K | 311817104032 | Qualified |
| 140 | Udaya Kumar C      | 311817104033 | Qualified |
| 141 | Venkatesan S       | 311817104034 | Qualified |
| 142 | Prashanth P        | 311817145001 | Qualified |
| 143 | Vijaya Vignesh B   | 311817145002 | Qualified |
| 144 | Mahmooda Fathima I | 311817101001 | Qualified |
| 145 | Mohamed Faizal N   | 311817101002 | Qualified |
| 146 | Santhirakumar S    | 311817101003 | Qualified |
| 147 | Shalini S          | 311817101004 | Qualified |

*Murthy*

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