



Dattakala Shikshan Sanstha's

# DATTAKALA GROUP OF INSTITUTIONS

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| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 |

Ref: NAAC 2024/ MLD/Cr-1.2.2

Date-05/04/2024

<b>Criteria 1.2.2</b>	<b>Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</b>
<b>Findings of DVV</b>	HEI has not provided any data on the value added courses being delivered through MOOCs platform like SWAYAM ,etc ; HEI to note that the value added courses are part from the normal curricula ;HEI to affix the attendance , report , newspaper clippings , certificates for DVV partner verification for the following VAC :JAVA PLC and SCADA. PROJECT PERFORM BY USING SIMULATION SOFTWEAR (2020-21)
<b>Response/ Clarification</b>	<p>1. As per the clarification, notice, syllabus copy, students attendance list and sample model certificate of sample participation of students for JAVA PLC and SCADA and PROJECT PERFORM BY USING SIMULATION SOFTWEAR (2020-21) value added programs are attached as per DVV request <b>(Appendix I)</b></p> <p><i>Note: We have supporting document's of all VAP's as DVV only asked documents for two VAPs those are attached</i></p>



Director

Dattakala Group of Institutions  
Swami-Chincholi, Tal Daund  
Dist.-Pune. Pin - 413 130

# Appendix I



Dattakala Shikshan Sanstha's

# DATTAKALA GROUP OF INSTITUTIONS

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Date: -26/02/2021

## Request Letter

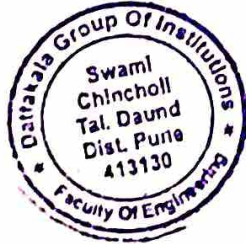
To  
The Principal,  
Dattakala Group of Institutions,  
Swami Chincholi, Dist- Pune.


**Subject:** - Request to allow conducting **JAVA PROGRAMING** for the students.

Respected Sir,

With reference to the above subject, we want to start the **JAVA PROGRAMING** for the students. The tenure of the program is 30 hrs. The certificate will be provided after successful completion of the course. Kindly grant permission for the same.

Thanks & Regards,



  
**Head of Department**  
**Computer Dept.**  
Dattakala Group of Institutions  
Faculty of Engineering  
Swami Chincholi, Tal. Daund, Dist. Pune-413130



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Date: -26/02/2021

## Circular

All the students are hereby informed that the Institute is planning to conduct a, JAVA PROGRAMING on the following topic for the academic Session 2020-2021

The details are as:

Sr.No.	Value-Added Program	Name Program Coordinator
1.	JAVA PROGRAMING	PROF.S.A. KADAM

The JAVA PROGRAMING is of 30 hrs. duration. Interested students are requested to register for JAVA PROGRAMING at earliest. Students who completed the courses successfully with a 65% score only get a certificate from the institute.



  
Principal

Dattakala Group of Institutions  
Faculty of Engineering

Swami-Chincholi, Tal-Daund, Dist-Pune 413130

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**Name of the Program: JAVA PROGRAMING**

**Session: 15**

**Duration: 30 Hrs**

**Class: All FE To ME**

### Syllabus & Course Content

Sr. No.	Course Content
01	<b>CONCEPTS OF OBJECT-ORIENTED PROGRAMMING (OOPS)</b> <ul style="list-style-type: none"><li>• Encapsulation</li><li>• Abstraction Languages of Programming Object Oriented Programming (OOP)</li><li>• Objects and Classes</li><li>• Object Oriented Programming Foundations OOPS terms and concepts</li><li>• Inheritance</li><li>• The Benefits of OOPS</li><li>• The Fundamentals of OOPS</li></ul>
02	<b>CORE JAVA PROGRAMMING INTRODUCTION OF JAVA</b> <ul style="list-style-type: none"><li>• What is Java?</li><li>• Java Bytecode</li><li>• Execution Model</li><li>• First Java Program Compiling</li><li>• Interpreting Applications Using Eclipse</li><li>• JDK Directory Structure</li></ul>
03	<b>VARIABLES AND DATA TYPES</b> <ul style="list-style-type: none"><li>• What are data types?</li><li>• Declarations and Primitive Data Types</li><li>• Types and Variables</li><li>• Literals in Numeric and Character Forms</li><li>• String formatting and string literal parsing</li><li>• Non-Primitive Data Types, Arrays Conversions of Casting &amp; Type Casting Widening &amp; Narrowing The Dot Operator</li></ul>
04	<b>JDBC</b> <ul style="list-style-type: none"><li>• JDBC overview</li><li>• JDBC Components</li><li>• Common Package Importing</li><li>• JDBC Driver Registration</li><li>• Making a Connection</li><li>• How to Connect a Java Program to a Database</li></ul>

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	<ul style="list-style-type: none"> <li>• Query Statement</li> <li>• Execution Class &amp; Objects</li> <li>• Obtaining Database Information</li> <li>• Obtaining Result Set Information</li> <li>• DML Operations Using JDBC Clean up the Environment</li> </ul>
05	<b>SWING AND APPLLET</b> <ul style="list-style-type: none"> <li>• Fundamentals of Swing</li> <li>• Swing Characteristics</li> <li>• Java Swing Class</li> <li>• Hierarchy GUI</li> <li>• Components for Swing Packages Employed in Swing</li> <li>• Classes and Methods for Swing Control Using the Swing API</li> <li>• API for Swing</li> <li>• MVC Structure In Swing</li> <li>• Event Listener Interfaces</li> <li>• AWT vs. Swing Event Handling</li> <li>• An Overview of Applets</li> <li>• The Applet Hierarchy</li> <li>• Life Cycle of an Applet</li> <li>• Applet Lifecycle Methods</li> <li>• Applet Layout Manager</li> <li>• Bounding Box Concept</li> <li>• Relative Coordinate System</li> <li>• A "Hello World" Applet</li> </ul>
06	<b>THREADS</b> <ul style="list-style-type: none"> <li>• Non-Threaded Applications Threads: An Overview</li> <li>• Threaded Applications</li> <li>• Making threads</li> <li>• A Thread's Life Cycle</li> <li>• The phases of a thread's life cycle</li> <li>• Threads' Runnable Interface Priority</li> <li>• Threads for Coordination Thread</li> <li>• Interruption Groups of Threads</li> </ul>

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## Schedule For JAVA PROGRAMING (Comp. Engg. Dept.)

Date	Days	Time	Course Content
01/03/2021	Monday	03 pm to 5 pm	Languages of Programming Object Oriented Programming (OOP) Objects and Classes Object Oriented Programming Foundations OOPS terms and concepts
02/03/2021	Tuesday	03 pm to 5 pm	Inheritance The Benefits of OOPS The Fundamentals of OOPS
03/03/2021	Wednesday	03 pm to 5 pm	What is Java? Java Bytecode Execution Model First Java Program Compiling
04/03/2021	Thursday	03 pm to 5 pm	First Java Program Compiling Interpreting Applications Using Eclipse JDK Directory Structure
05/03/2021	Friday	03 pm to 5 pm	What are data types? Declarations and Primitive Data Types Types and Variables
06/03/2021	Saturday	03 pm to 5 pm	Literals in Numeric and Character Forms String formatting and string literal parsing Non-Primitive Data Types, Arrays Conversions of Casting & Type Casting Widening & Narrowing The Dot Operator
08/03/2021	Monday	03 pm to 5 pm	JDBC overview JDBC Components Common Package Importing JDBC Driver Registration
09/03/2021	Tuesday	03 pm to 5 pm	Making a Connection How to Connect a Java Program to a Database Query Statement
10/03/2021	Wednesday	03 pm to 5 pm	Execution Class & Objects Obtaining Database Information Obtaining Result Set Information DML Operations Using JDBC Clean up the Environment
11/03/2021	Thursday	03 pm to 5 pm	Fundamentals of Swing Swing Characteristics Java Swing Class

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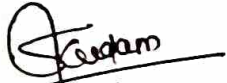
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			Hierarchy GUI
12/03/2021	Friday	03 pm to 5 pm	Components for Swing Packages Employed in Swing Classes and Methods for Swing Control Using the Swing API API for Swing MVC Structure In Swing
13/03/2021	Saturday	03 pm to 5 pm	Event Listener Interfaces AWT vs. Swing Event Handling An Overview of Applets The Applet Hierarchy Life Cycle of an Applet
15/03/2021	Monday	03 pm to 5 pm	Applet Layout Manager Bounding Box Concept Relative Coordinate System A "Hello World" Applet
16/03/2021	Tuesday	03 pm to 5 pm	Non-Threaded Applications Threads: An Overview Threaded Applications Making threads A Thread's Life Cycle
17/03/2021	Wednesday	03 pm to 5 pm	The phases of a thread's life cycle Threads' Runnable Interface Priority Threads for Coordination Thread Interruption Groups of Threads



Program Coordinator



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### ATTENDANCE SHEET

TOPIC NAME :- JAVA PROGRAMING

Academic Year:-2020-2021

Period Form To 01/03/2021 To 17/03/2021

Roll No	Name of Student	Date															% Of Attendance
		01-03-2021	02-03-2021	03-03-2021	04-03-2021	05-03-2021	06-03-2021	08-03-2021	09-03-2021	10-03-2021	11-03-2021	12-03-2021	13-03-2021	15-03-2021	16-03-2021	17-03-2021	
1	AWARI VAISHNAVI HARIBHAU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
2	BELOKAR TEJAS GAJANAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
3	BHOI AARTI BAPU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
4	DARKUNDE VAISHNAVI TUKARAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
5	DEOKATE RAHUL DADA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
6	DHAVALE AARTI ANKUSH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
7	JADHAV OMKAR NARSINGRAO	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
8	KADAM JAYDUTT AMARNATH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
9	KALANGE PRADNYA BABAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	

541/2, 527, Off Pune-Solapur Highway, Swami-Chincholi (Bhigwan), Tal - Daund, Dist. - Pune 413130, Maharashtra

[ Email: dkgol@dattakala.edu.in | Web: www.dattakala.edu.in | Contact No. 9673002923, 9673400500 | For More Information: 9673002929 ]



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10	KHAN AMAN SHERJADA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	SHINDE AMRUTA DAYANAND	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	TEJAS SHASHIKANT DEOKATE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	THORAT SANKET ANKUSH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	JADHAV KAJAL MAHADEV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15	GUNAWARE PRAJAKTA HANUMANT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	BARAVKAR OMKAR ANIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	DAGADE MAYUR GORAKH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	GURAV GAYATRI RAVINDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19	KOKANE REKHA LALASO	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20	KADU VISHAL VILAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21	WAYASE SONALI NAVANATH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	LAVAND HARSHAD AJINATH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23	RUPNAWAR ANIKET CHANDRASHEKHAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24	SHELKE PRAVIN SANJAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25	DARADE ANISHA GANESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P



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26	MOHITE SAYLI SAMPAT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27	SAYYAD MUSKAN ASLAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	HARKARE JAIBA MAHIBOOB	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29	AHIWALE AJAY DATTATRAYA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30	KASHID SAYALI PRAKASH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31	KHAPALE SARTHAK SANJAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32	RAUT SURAJ GORAKHNATH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
33	KALE SHIVAJI PANDURANG	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
34	SHIVRAJ RANJIT DALAVI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35	MOHITE ASHA BALU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	PAWAR ANIRUDHA VILAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
37	RANDIVE SHRIKANT ABHIMAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
38	ZAGADE SACHIN ASHOK	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
39	YEJARE ALAKA SURYAKANT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
40	KOLKAR PRITI BHAUSAHEB	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
41	KHADAKE SAGAR HARIDAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P



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42	GADAVE SHUBHAM SATISH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
43	PAWAR RAVINA RAMESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
44	JADHAV PRIYANKA RAGHUNATH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
45	VIDHATE MANALI SANJAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
46	BANGAR SAKSHI SUHAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
48	KABADE MONIKA MOHAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
49	CHOUDHARI POOJA SHASHIKANT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
50	KALMATKAR SHITAL SUNIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
51	DESHMUKHI ASHWINI BALASAHEB	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
52	SAYYED ATIYABANO HAMID	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
53	DHANDE AMISHA BALU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
54	MODALE YASHI CHANDRASHEKHAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
55	MYSALA KIRANKUMAR RAJENDER	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
56	SAID TRUPTI SANTOSH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
57	NARUTE PRAJAKTA RAJENDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
58	SHINDE YASHI SANTOSH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P



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59	SHENDE PINKI PANDURANG	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
60	BHONKAR SABURI SUNIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
61	KAMLESH RAJU KULKARNI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
62	ATOLE SWAPNALI RAVINDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
63	FARGADE SHUBHAM BHAUSAHEB	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
64	NIMBALKAR VARSHARANI DATTATRAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
65	ANKUSHE AKASH BHAGWAT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
66	BENDRE SIDHANT PRAMOD	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
67	RANDIVE SANJIVAN BALU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
68	DHUMAL ABHIJEET RAMESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
69	NAZARKAR SHITAL BALASO	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
70	TARANGE POONAM PANDURANG	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
71	GAVLI PRANITA VASANT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
72	GIRAMKAR ARCHANA JANARDAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
73	KAWADE POOJA GANESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
74	EKATPURE POOJA BHARAT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P



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75	ZOL RAJANI NAVNATH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
76	JADHAV SWATI PANDURANG	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
77	SAWANT VRUSHALI NAGESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
78	PHALKE DHANSHREE VIJAYSINH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
79	PAWAR SARIKA DATTU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
80	SHEKH SHAHRUKH INNUS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
81	NAIKNAVARE KISHOR VISHNU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
82	CHAVAN SANDHYA SHARAD	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
83	MORE DHAIRYASHIL BHAUSAHEB	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
84	SOLANKAR PUNAM ANIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
85	SHITOLE SHUBHANGI YASHVANT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
86	DAREKAR PRIYANKA DILIP	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
87	DUDHAL BHAGYASHREE VITTHAL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

  
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Principal  
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*Belokar Tejas Gajanan*

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*Bhoi Aarti Bapu*

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*Darkunde Vaishnavi Tukaram*

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*This is to certify that Mr./Miss/Mrs.*

*Deokate Rahul Dada*

*Studying in **Computer Engineering** branch has been Participated in  
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| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 |

Date:-26/02/2021

## Request Letter

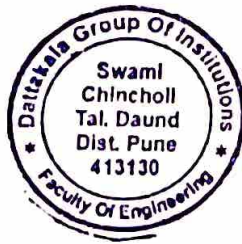
To  
The Principal,  
Dattakala Group of Institutions,  
Swami Chincholi, Dist- Pune.

**Subject:** - Request to allow conducting PLC AND SCADA for the students.

Respected Sir,

With reference to the above subject, we want to start the PLC AND SCADA for the students. The tenure of the program is 30 hrs. The certificate will be provided after successful completion of the course. Kindly grant permission for the same.

Thanks & Regards,



*Dhaall*  
Head of Department  
**Electrical Engineering**  
Dattakala Group of Institutions  
Faculty of Engineering  
Swami-Chincholi, Tal. Daund, Dist. Pune - 413130



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Date: -26/02/2021

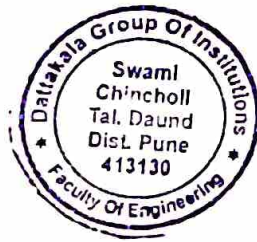
## Circular

All the students are hereby informed that the Institute is planning to conduct a, PLC AND SCADA on the following topic for the academic Session 2020-2021

The details are as:

Sr.No.	Value-Added Program	Name Program Coordinator
1.	PLC AND SCADA	PROF.M.S. TAMBOLI

The PLC AND SCADA is of 30 hrs. duration. Interested students are requested to register for PLC AND SCADA at earliest. Students who completed the courses successfully with a 65% score only get a certificate from the institute.



  
Principal  
Dattakala Group of Institutions  
Faculty of Engineering  
Swami-Chincholi, Tal-Daund, Dist-Pune 413130

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| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 |

Session: 15

Name of the Program: PLC AND SCADA

Duration: 30 Hrs.

Class: All FE To ME

### Syllabus & Course Content

Sr. No.	Course Content
01	<b>MODULE-1</b> SCADA system application( Oil GAS / factory /Metro/ Solar Power Plant /Steel Plant ) Calculation SCADA tag. Selection of Software basis of SCADA Tag. Creating Database of Tags
02	<b>MODULE-2</b> SCADA Screen /Creating & Editing graphic display with animation Data Entry / Start Stop command Analog entry Sizing, Movement, Blinking, Visibility, Filling Trending Creating & Accessing Real-time Creating & Accessing Historical Trend
03	<b>MODULE-3</b> Creating Alarms & Events Connectivity with the different hardware Communication protocols(modbus/ TCP/IP) Communication with PLC Communication with Data Acquisition System Troubleshooting the application Fault diagnostics and error handling Sorting communication problems
04	<b>MODULE-4</b> Monitoring Arrays & Tags of User-Defined Data Types Editing Ladder Logic Online Troubleshooting Controller Problems Monitoring GSV/SSV Instructions Forcing I/O & Toggling Bits Troubleshooting I/O Module Problems CPU, I/O module replacements
05	<b>MODULE-5</b> Programming instructions arithmetic and logical Load /and /or/out / and Read / Write Compare / Add / Sub /And /Or – Blocks Edge / trailing edge instructions



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	<p>MOVE block application, Timer and Counter Blocks programming Advanced instructions, File handling and Comment functions Master control /set /reset function</p>
06	<p><b>MODULE-6</b> Concept of flags and Scan cycle execution Setting up PLCs / Connecting CPU, I/O modules, Rack, Backplane and Communication bus Connecting Field devices to PLCs I/Os</p>
07	<p><b>MODULE-7</b> PLC Fundamentals - (Block diagram of PLC's) Applications and Types of Transformers Selection of PLC components( Power supply, CPU, I/Os List , Communication bus Various ranges available in PLC's) I/O list selection /li&gt; Open-Circuit and Short-Circuit Tests Types of Inputs &amp; outputs / Source Sink Concepts Parallel Operation of Transformers Wiring of the I/O devices Architectural Evolution of PLC Introduction to the field devices Types of Inputs &amp; outputs / Source Sink Concepts Wiring of the I/O devices Concept of flags and Scan cycle execution</p>



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## Schedule For PLC AND SCADA (Electrical Eng. Dept.)

Date	Days	Time	Course Content
01/03/2021	Monday	03 pm to 5 pm	SCADA system application( Oil GAS / factory /Metro/ Solar Power Plant /Steel Plant ) Calculation SCADA tag
02/03/2021	Tuesday	03 pm to 5 pm	Selection of Software basis of SCADA Tag. Creating Database of Tags
03/03/2021	Wednesday	03 pm to 5 pm	SCADA Screen /Creating & Editing graphic display with animation Data Entry / Start Stop command Analog entry
04/03/2021	Thursday	03 pm to 5 pm	Sizing, Movement, Blinking, Visibility, Filling Trending Creating & Accessing Real-time Creating & Accessing Historical Trend
05/03/2021	Friday	03 pm to 5 pm	Creating Alarms & Events Connectivity with the different hardware Communication protocols(modbus/ TCP/IP)
06/03/2021	Saturday	03 pm to 5 pm	Communication with PLC Communication with Data Acquisition System
08/03/2021	Monday	03 pm to 5 pm	Troubleshooting the application Fault diagnostics and error handling Sorting communication problems
09/03/2021	Tuesday	03 pm to 5 pm	Monitoring Arrays & Tags of User-Defined Data Types Editing Ladder Logic Online Troubleshooting Controller Problems
10/03/2021	Wednesday	03 pm to 5 pm	Monitoring GSV/SSV Instructions Forcing I/O & Toggling Bits
11/03/2021	Thursday	03 pm to 5 pm	Troubleshooting I/O Module Problems CPU, I/O module replacements
12/03/2021	Friday	03 pm to 5 pm	Programming instructions arithmetic and logical Load /and /or/out / and Read / Write Compare / Add / Sub /And /Or – Blocks Edge / trailing edge instructions
13/03/2021	Saturday	03 pm to 5 pm	MOVE block application, Timer and Counter Blocks programming Advanced instructions,



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			File handling and Comment functions Master control /set /reset function
15/03/2021	Monday	03 pm to 5 pm	Concept of flags and Scan cycle execution Setting up PLCs / Connecting CPU, I/O modules, Rack, Backplane and Communication bus Connecting Field devices to PLCs I/Os
16/03/2021	Tuesday	03 pm to 5 pm	PLC Fundamentals - (Block diagram of PLC's) Applications and Types of Transformers Selection of PLC components( Power supply, CPU, I/Os List , Communication bus Various ranges available in PLC's) I/O list selection /i>
17/03/2021	Wednesday	03 pm to 5 pm	Open-Circuit and Short-Circuit Tests Types of Inputs & outputs / Source Sink Concepts Parallel Operation of Transformers Wiring of the I/O devices Architectural Evolution of PLC Introduction to the field devices Types of Inputs & outputs / Source Sink Concepts Wiring of the I/O devices Concept of flags and Scan cycle execution

Program Coordinator



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[ DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 ]

ATTENDANCE SHEET																		
TOPIC NAME :- PLC AND SCADA																		
Academic Year:-2020-2021										Period Form To 01/03/2021 To 17/03/2021								
Roll No	Name of Student	Date	01-03-2021	02-03-2021	03-03-2021	04-03-2021	05-03-2021	06-03-2021	08-03-2021	09-03-2021	10-03-2021	11-03-2021	12-03-2021	13-03-2021	15-03-2021	16-03-2021	17-03-2021	% Of Attendance
		L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15		
1	KSHIRSAGAR RUPALI DATTATRAYA	P	P	P*	P	P	P	P	P	P	P*	P	P	P	P	P		
2	LADHE PRADNYA SUDHIR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
3	KALE BHAGYASHREE PRAKASH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4	WAGH VIDYA HANUMANT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
5	KOLEKAR SAGAR RAJENDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
6	SANKPAL KAKASAHEB SANJAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
7	BHOSALE TEJASWEE SURESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
8	DHOK RAMDAS KHANDU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
9	PAVASE AMIT BHAUSAHEB	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		





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26	BANKAR SANJAY RAJENDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27	MANE VAIBHAV POPAT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	ZOL SHEKHAR VILAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29	DEOKAR SAHIL SURESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30	GOPHANE JAYSHRI ANKUSH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31	KHARTODE PRASHANT DNYANDEO	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32	CHAUHAN KRISHNA PARASNATH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
33	DEOKAR ROHAN RAJENDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
34	GAIKWAD AMRUTA VILAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35	PATLE DIPAKKUMAR SHOBHELAL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	KAMBLE SHRIKANT RAJENDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
37	KUTWAL SURAJ BHAGWAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
38	SUKARE SAMBHAJI PRAKASH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
39	PATOLE KRUTVIK DNANANJAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
40	BADAR SHIVAJI BALASAHEB	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
41	ZENDE ASHVINI SADANAND	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P



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42	NEPATE KISHOR RAVINDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
43	MASUGADE SURAJ SANTOSH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
44	DEOKATE RUSHIKESH DILIP	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
45	TUMSARE SHUBHAM DILIP	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
46	KAZI TABASSUM CHIRAGADDIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
48	GAIKWAD AMIT RAMCHANDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
49	NIMBALKAR SIDDHARTH JAGDISH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
50	MANE PRAVIN BABA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
51	JADHAV RAVINDRA MAHADEV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
52	KAMBLE KALPANA JAYRAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
53	LOMATE SAGAR PRABHAKAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
54	GOLHAR ARUN ARJUN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
55	MANE VIJAY NARAYAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
56	MANDHARE TEJAS SHAHAJI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
57	MAHESH CHATURBHUIJ GAIKWAD	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
58	TEHARE RITESH RAJESHRAO	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P



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59	PAWAR ADITYA SAMPAT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
60	DEOKATE DIPAK DATTATRAAYA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
61	SANGALE PRASHANT POPAT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
62	BARGE SAGAR BALASAHEB	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
63	SHAIKH SOHELAMAD JAINUDDIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
64	SHINDE SAGAR PRATAP	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
65	JADHAV MAHESH TUKARAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
66	DHAME SHARAD SHAHAJI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
67	GURAV SUMIT PURUSHOTTAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
68	KHADE ANIKET LAHUCHAND	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
69	CHAVAN DIGAMBAR DATTATRAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
70	NANGARE GANESH BAPU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
71	DEOKATE GANESH RAMESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
72	SANGALE SANDIP SHIVAJI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
73	KAPASE BHARAT PANDURANG	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
74	NARSALE YASHWANT NAVNATH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

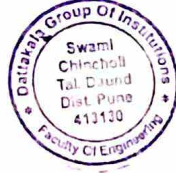



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75	GHADAGE ABHIJEET TULSHIRAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
76	RAJENDRA GOKUL HUMBE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
77	DHAPTE LAHU BHARAT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
78	MANE SAGAR SHANKAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
79	AMOL SHIVAJI DHAYGUDE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
80	PANKAJ PANDURANG YADAV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

  
Program Co Ordinator



  
Principal  
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Faculty of Engineering  
Swami-Chincholi, Tal-Daund, Dist-Pune 413130

Dattakala Group of Institution's  
Faculty of Engineering

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs.

Kale Bhagyashree Prakash

Studying in **Electrical Engineering** branch has been Participated in  
value added Program **PLC AND SCADA** held in Academic year **2020-21**

  
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**C E R T I F I C A T E**

*This is to certify that Mr./Miss/Mrs.*

*Kolekar Sagar Rajendra*

*Studying in **Electrical Engineering** branch has been Participated in  
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# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs.

Kshirsagar Rupali Dattatraya

Studying in **Electrical Engineering** branch has been Participated in  
value added Program **PLC AND SCADA** held in Academic year **2020-21**

  
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# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs.

Ladhe Pradnya Sudhir

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# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs.

Wagh Vidya Hanumant

Studying in **Electrical Engineering** branch has been Participated in  
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Dattakala Shikshan Sanstha's

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| NAAC Accredited & ISO Certified |

Approved by AICTE - New Delhi, DTE - Mumbai, Recognized by Govt. of Maharashtra

Affiliated to Savitribai Phule Pune University, Pune and M.S.B.T.E., Mumbai

| DTE Code: 6628 | MSBTE Code: 1712 | AICTE ID: 1-5986711 | AISHE Code: C-44576 |

Date: -26/06/2020

## Request Letter

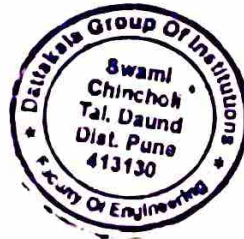
To  
The Principal,  
Dattakala Group of Institutions,  
Swami Chincholi, Dist- Pune.

**Subject: - Request to allow conducting PROJECT PERFORMED BY USING SIMULATION SOFTWARE for the students.**

Respected Sir,

With reference to the above subject, we want to start the **PROJECT PERFORMED BY USING SIMULATION SOFTWARE** for the students. The tenure of the program is 30 hrs. The certificate will be provided after successful completion of the course. Kindly grant permission for the same.

Thanks & Regards,



  
**Head of Department**  
**E & TC Dept.**  
Dattakala Group Of Institutions  
Faculty Of Engineering  
Swami Chincholi, Tal. Daund  
Dist. Pune, Pune - 413130



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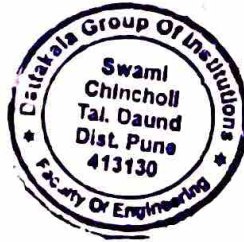
## Circular

All the students are hereby informed that the Institute is planning to conduct a, **PROJECT PERFORMED BY USING SIMULATION SOFTWARE** on the following topic for the academic Session 2017-2018.

The details are as:

Sr. No.	Value-Added Program	Name Program Coordinator
1.	PROJECT PERFORMED BY USING SIMULATION SOFTWARE	PROF.S.S. MAHADIK

The **PROJECT PERFORMED BY USING SIMULATION SOFTWARE** is of 30 hrs. duration. Interested students are requested to register for **PROJECT PERFORMED BY USING SIMULATION SOFTWARE** at earliest. Students who completed the courses successfully with a 65% score only get a certificate from the institute.



  
Principal

Dattakala Group of Institutions  
Faculty of Engineering  
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Name of the Program: PROJECT PERFORMED BY USING SIMULATION SOFTWARE

Session: 15

Duration: 30 Hrs.

Class: All FE To BE

## Syllabus & Course Content

Sr. No.	Course Content
01	Introduction to Simulation: Simulation, Advantages, Disadvantages, Areas of application, System environment, components of a system, Model of a system, types of models, steps in a simulation study. Simulation Examples: Simulation of Queuing systems, Simulation of Inventory System, Other simulation examples.
02	General Principles: Concepts in discrete - event simulation, event scheduling/ Time advance algorithm, simulation using event scheduling. Random Numbers: Properties, Generations methods, Tests for Random number- Frequency test, Runs test, Autocorrelation test.
03	Random Variate Generation: Inverse Transform Technique- Exponential, Uniform, Weibull, Triangular distributions, Direct transformation for Normal and log normal Distributions, convolution methods- Erlang distribution, Acceptance Rejection Technique Optimization Via Simulation: Meaning, difficulty, Robust Heuristics, Random Search
04	Analysis of Simulation Data Input Modelling: Data collection, Identification and distribution with data, parameter estimation, Goodness of fit tests, Selection of input models without data, Multivariate and time series analysis. Verification and Validation of Model – Model Building, Verification, Calibration and Validation of Models.



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05	Output Analysis – Types of Simulations with Respect to Output Analysis, Stochastic Nature of output data, Measures of Performance and their estimation, Output analysis of terminating simulation, Output analysis of steady state simulations. Simulation Softwares: Selection of Simulation Software, Simulation packages, Trend in Simulation Software
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## Schedule For PROJECT PERFORMED BY USING SIMULATION SOFTWARE (E&Tc. Engg.Dept.)

Date	Days	Time	Course Content
01/07/2020	Wednesday	03 pm to 5 pm	Introduction to Simulation: Simulation, Advantages, Disadvantages, Areas of application
02/07/2020	Thursday	03 pm to 5 pm	System environment, components of a system, Model of a system, types of models, steps in a simulation study.
03/07/2020	Friday	03 pm to 5 pm	Simulation Examples: Simulation of Queuing systems, Simulation of Inventory System, Other simulation examples.
04/07/2020	Saturday	03 pm to 5 pm	General Principles: Concepts in discrete - event simulation, event scheduling/ Time advance algorithm, simulation using event scheduling
06/07/2020	Monday	03 pm to 5 pm	Random Numbers: Properties, Generations methods,
07/07/2020	Tuesday	03 pm to 5 pm	Tests for Random number- Frequency test, Runs test, Autocorrelation test.
08/07/2020	Wednesday	03 pm to 5 pm	Random Variate Generation: Inverse Transform Technique- Exponential, Uniform, Weibull, Triangular distributions,
09/07/2020	Thursday	03 pm to 5 pm	Direct transformation for Normal and log normal Distributions, convolution methods- Erlang distribution, Acceptance Rejection Technique
10/07/2020	Friday	03 pm to 5 pm	Optimization Via Simulation: Meaning, difficulty, Robust Heuristics, Random Search
11/07/2020	Saturday	03 pm to 5 pm	Analysis of Simulation Data Input Modelling: Data collection, Identification and distribution with data, parameter estimation,
13/07/2020	Monday	03 pm to 5 pm	Goodness of fit tests, Selection of input models without data, Multivariate and time series analysis.
14/07/2020	Tuesday	03 pm to 5 pm	Verification and Validation of Model – Model Building, Verification, Calibration and Validation of Models.



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15/07/2020	Wednesday	03 pm to 5 pm	Output Analysis – Types of Simulations with Respect to Output Analysis, Stochastic Nature of output data, Measures of Performance and their estimation,
16/07/2020	Thursday	03 pm to 5 pm	Output analysis of terminating simulation, Output analysis of steady state simulations.
17/07/2020	Friday	03 pm to 5 pm	Simulation Software's: Selection of Simulation Software, Simulation packages, Trend in Simulation Software

  
Program Coordinator



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## ATTENDANCE SHEET

TOPIC NAME: - PROJECT PERFORMED BY USING SIMULATION SOFTWARE

Academic Year: -2020-2021

Period Form To 01/07/2020 To 17/07/2020

Roll No	Name of Student	Date															% Of Attendance
		01-07-2020	02-07-2020	03-07-2020	04-07-2020	06-07-2020	07-07-2020	08-07-2020	09-07-2020	10-07-2020	11-07-2020	13-07-2020	14-07-2020	15-07-2020	16-07-2020	17-07-2020	
1	Surnar Sujay Dnyanoba	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
2	Pakhale Aniket Prafulla	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	

Program Co Ordinator



Principal  
Dattakala Group of Institutions  
Faculty of Engineering  
Swami-Chincholi, Tal-Daund, Dist-Pune 413130

Dattakala Group of Institution's  
Faculty of Engineering

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs.

Pakhale Aniket Prafulla

Studying in **E& TC Engineering** branch has been Participated in value  
added Program **PROJECT PERFORMED BY USING SIMULATION SOFTWARE**  
held in Academic year **2020-21**

  
COORDINATOR



  
PRINCIPAL

Dattakala Group of Institution's  
Faculty of Engineering

# C E R T I F I C A T E

This is to certify that Mr./Miss/Mrs.

Surnar Sujay Dnyanoba

Studying in **E& TC Engineering** branch has been Participated in value added Program **PROJECT PERFORMED BY USING SIMULATION SOFTWARE** held in Academic year **2020-21**

  
COORDINATOR



  
PRINCIPAL