MANDATORY DISCLOSURE

10.2 Name of Department : **CIVIL ENGINEERING**

Course : **DIPLOMA**

Level : **DIPLOMA**

1st Year approval by Council :

Year	2019-20	2018-19	2017-18	2016-17	2015-16	2014-15
Year wise Sanction Intake:	**120**	**120**	**120**	**120**	**60**	**60**
Year wise actual Admission	42	37	42	62	71	79
Cutoff Marks–General Quota	**47.40%**	**60.40%**	**50.80%**	**65.40%**	**37.00%**	**71.27%**
% Students passed with Distinction :		**20.18%**	**4.80%**	**26.92%**	**31.58%**	**28.94%**
% Students passed with First Class :		**20.18%**	**52.88%**	**49.04%**	**57.89%**	**44.74%**
Student Placed :	**00**	**00**	**01**	**02**	**04**	**04**
Average Pay Package Rs/Yr	**-**	**-**	**96,000/-**	**78,000/-**	**1,44,000/**	**1,00,000/-**
Student opted for Higher Studies :		**41**	**72**	**39**	**28**	**33**

Accredited status of the Course : **Not Accredited**

Doctoral Courses : **No**

Foreign Collaboration : **No**

Professional society Membership : **ISTE**

Professional Activities :

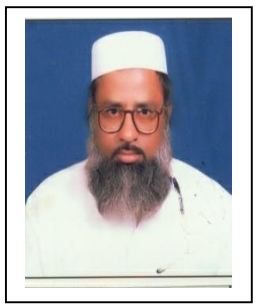
Consultancy Activities : **Consultancy of Civil Construction Work, Testing Work of Various Materials, Concrete Mix Design Work, Testing of Soil, Structural Audit Work of Buildings, Third Party Inspection of Water Tank, Third Party Audit of Civil Engineering Works Carried by Collector Office, Zilha Parishad, Nagarpalika's, Private Parties etc.**

Grants fetched :

Departmental achievement: **Four Faculty Members have completed their M.E.**

Distinguished Alumni

S.N.	Name	Achievement
1	Mr. Vartak Yogesh Manohar	RCC Consultant
2	Mr. Shelar Santosh	Executive Engineer P.W.D. Maharashtra
3	Mr. Lokhande Nitin	Architectural Consultant
4	Mr. Agane Nitin Dilip	Builder and Associates
5	Mr. Jedhe Pritam Chandrakant	Builder & Consultants
6	Mr. Darekar Hemant Dattatray	Govt. Contractor
7	Mr. Nikam Amol Panditrao	Executive Engg, Central Govt.
8	Mr. Chavan Sayaji	Builder
9	Mr Jadhav Mangesh	Builder
10	Mr. Gurav Sachin	Consultant
11	Mr. Kakade Sachin	Contractor and Political Leader
12	Mr. Sayyad Imran	Civil Engineer
13	Mr. Khatavkar Ajay Arvind	Industry Contractor
14	Mr. Joshi Tushar Vijay	Government Contractor (Class III)
15	Mr. Sakunde Ravindra Prabhakar	Builder



10.13 Name of the Teaching Staff	:**Sheikh Kausar Salluddin**		
Designation	: **H.O.D. (Civil Engg. Department)**		
Department	: **Civil Engineering**		
Date of Joining the Institute	:**01/09/1984**		
Qualification with Class	: **B.E.(I Class with Dist.) M.E.(I Class)**		
Total Experience in Years	: Teaching **– 35 Yrs**	Industry –	**Nil**
Paper Published	:National**–** **Nil**	International –	**Nil**
Paper Presented in Conference	:National **Nil**	International –	**Nil**
PhD. Guide?	:Field- **Nil**	University**–**	**Nil**
PhDs/Project Guided	:PhDs- **Nil**	Master Level –	**Nil**
Books Published/IPRs/Patents	:**Nil**		
Professional Memberships	: **ISTE LM7946, ISRM&TE 1360, MIE 130782/1)**		
Consultancy Activities	:**Nil**		
Awards	:**Nil**		
Grant Fetched	:**Nil**		
Interaction with Professional Institute	:**Nil**		

10.13 Name of the Teaching Staff	:**Patil Balasaheb Rangnath**	
Designation	: **Lecturer (Selection Grade)**	
Department	: **Civil Engineering**	
Date of Joining the Institute	:**29/08/1985**	
Qualification with Class	: **B.E.(IClass)**	
Total Experience in Years	: Teaching **–34 Yrs**	Industry **– Nil**
Paper Published	:National**– Nil**	International **– Nil**
Paper Presented in Conference	:National **Nil**	International **– Nil**
PhD. Guide?	:Field- **Nil**	University **– Nil**
PhDs/Project Guided	: PhDs- **Nil** Master Level **– Nil** Books	
Published/IPRs/Patents	:**Nil**	
Professional Memberships	: **ISTELM**	
Consultancy Activities	: **Civil Engineering Third Party Audit.**	
Awards	:**Nil**	
Grant Fetched	:**Nil**	
Interaction with Professional Institute	:**Nil**	

10.13 Name of the Teaching Staff	:**KumbharShaileshVishnu**	
Designation	: **Lecturer (SelectionGrade)**	
Department	: **Civil Engineering**	
Date of Joining the Institute	:**03/09/1986**	
Qualification with Class	: **B.E.(I Class) M.E.(IClass)**	
Total Experience in Years	: Teaching **–33 Yrs**	Industry **– Nil**
Paper Published	:National**– Nil**	International **– Nil**
Paper Presented in Conference	:National **Nil**	International **– Nil**
PhD. Guide?	:Field- **Nil**	University **– Nil**
PhDs/Project Guided	: PhDs- **Nil** Master Level **– Nil** Books	
Published/IPRs/Patents	:**Nil**	
Professional Memberships	: **ISTELM**	
Consultancy Activities	: **Geotechnical Engineering, Concrete Tech., Structural Consultancy**	
Awards	:**Nil**	
Grant Fetched	:**Nil**	
Interaction with Professional Institute	:**Taught to M.E. Vocational Management Course**	

10.13 Name of the Teaching Staff :**Godse SanjayNarayanrao**

Designation : **Lecturer (SelectionGrade)**

Department : **Civil Engineering**

Date of Joining the Institute :**01/09/1986**

Qualification with Class : **B.E.(I Class with Distinction) M.E.(I Class)**

Total Experience in Years	: Teaching –	**33 Yrs**	Industry–	**Nil**
Paper Published	:National–	**Nil**	International –	**Nil**
Paper Presented in Conference	:National	**Nil**	International –	**Nil**
PhD Guide?	:Field-	**Nil**	University–	**Nil**
PhDs/Project Guided	:PhDs-	**Nil**	Master Level –	**Nil**

Books Published/IPRs/Patents : **Nil**

Professional Memberships : **ISTELM**

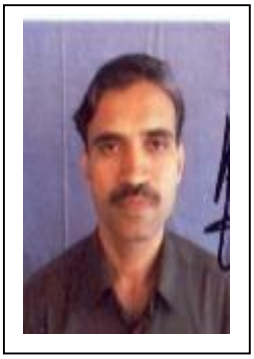
Consultancy Activities : **Architectural Consultancy , Structural Consultancy & Third Party Technical Audit Work, Construction Work etc.**

Awards :**Nil**

Grant Fetched :**Nil**

Interaction with Professional Institute :**Nil**

10.13 Name of the Teaching Staff :**Patil Arvind Anandrao**



Designation : **Lecturer (Selection Grade)**

Department : **Civil Engineering**

Date of Joining the Institute :**01/08/1990**

Qualification with Class : **B.E.(I Class) M.E.(IClass)**

Total Experience in Years : Teaching **–30 Yrs** Industry **– 02 Yrs**

Paper Published :National**– Nil** International **– Nil**

Paper Presented in Conference :National **03** International **– 01**

PhD. Guide? :Field**-** **Nil** University **– Nil**

PhDs/Project Guided : PhDs**-** **Nil** Master Level **– Nil** Books

Published/IPRs/Patents :**Nil**

Professional Memberships : **ISTE LM15943**

Consultancy Activities : **Testing of Construction Materials, Water Tank design of Govt. & Non Govt. agencies**

Awards :**Nil**

Grant Fetched :**Nil**

Interaction with Professional Institute :**Nil**

10.13 Name of the Teaching Staff : **Gujar Rajendra Thakordas**

Designation : **Lecturer (Selection Grade)**

Department : **Civil Engineering**

Date of Joining the Institute :**01/08/1989**

Qualification with Class : **B.E.(I Class withDist.)**

Total Experience in Years : Teaching **–31 Yrs** Industry **– Nil** Paper Published :National**– Nil** International **– Nil**

Paper Presented in Conference :National **01** International **– Nil**

PhD.Guide? :Field- **Nil** University **– Nil**

PhDs/Project Guided : PhDs- **Nil** Master Level **– Nil** Books Published/IPRs/Patents :**Nil**

Professional Memberships : **ISTE LM12661**

Consultancy Activities :**Nil**

Awards :**Nil**

Grant Fetched :**Nil**

Interaction with Professional Institute :**Nil**

10.13 Name of the Teaching Staff	: **Nalawade Pooja Prakash**		
Designation	:**Lecturer**		
Department	: **Civil Engineering**		
Date of Joining the Institute	: **01/07/2019**		
Qualification with Class	: **B.E.(I Class)**		
Total Experience in Years	: Teaching **– 06 Yrs**	Industry**–**	**01 Yr.**
Paper Published	:National**–** **Nil**	International **– Nil**	
Paper Presented in Conference	:National **Nil**	International **– Nil**	
PhD.Guide?	:Field- **Nil**	University**–**	**Nil**
PhDs/Project Guided	:PhDs- **Nil**	Master Level **– Nil**	
Books Published/IPRs/Patents	:**Nil**		
Professional Memberships	:**Nil**		
Consultancy Activities	:**Nil**		
Awards	:**Nil**		
Grant Fetched	:**Nil**		
Interaction with Professional Institute	:**Nil**		

10.13 Name of the Teaching Staff : **Nalawade Kajal Maruti**

Designation :**Lecturer**

Department : **Civil Engineering**

Date of Joining the Institute : **26/08/2019**

Qualification with Class :**B.E. CIVIL (I Class)**

Total Experience in Years : Teaching **– 03 Yrs** Industry**– 0 Yr**

Paper Published :National**–Nil** International **– Nil**

Paper Presented in Conference :National **Nil** International **– Nil**

PhD.Guide? :Field- **Nil** University **–Nil**

PhDs/Project Guided :PhDs- **Nil** Master Level **–Nil**

Books Published/IPRs/Patents :**Nil**

Professional Memberships : **Nil**

Consultancy Activities :**Nil**

Awards :**Nil**

Grant Fetched :**Nil**

Interaction with Professional Institute :**Nil**

10.13 Name of the Teaching Staff : **Sabale Purva Pramod**

Designation :**Lecturer**

Department : **Civil Engineering**

Date of Joining the Institute :**11/12/2018**

Qualification with Class :**B.E. CIVIL (I Class)**

Total Experience in Years : Teaching **– 3.5 Yrs** Industry**– 0 Yr**

Paper Published :National**–Nil** International **– Nil**

Paper Presented in Conference :National-**Nil** **I**nternational **– Nil**

PhD.Guide? :Field- **Nil** University **–Nil**

PhDs/Project Guided :PhDs- **Nil** Master Level **–Nil**

BooksPublished/IPRs/Patents :**Nil**

Professional Memberships : **Nil** Consultancy Activities :**Nil**

Awards :**Nil**

Grant Fetched :**Nil**

Interaction with Professional Institute :**Nil**

10.14 Name of the Teaching Staff : **Kadam Alok Bharat**

Designation :**Lecturer**

Department : **Civil Engineering**

Date of Joining the Institute : **01/07/2019**

Qualification with Class :**B.Tech CIVIL ((I Class with Dist.)**

Total Experience in Years : Teaching **– 02 year**

Industry **– 06 Months**

Paper Published :National**–Nil** International **– Nil**

Paper Presented in Conference :National **–Nil** International **–Nil**

PhD.Guide? :Field-**Nil** University **–Nil**

PhDs/Project Guided :PhDs**–Nil** Master Level **–Nil**

Books Published/IPRs/Patents :**Nil**

Professional Memberships :**Nil**

Consultancy Activities :**Nil**

Awards :**Nil**

10.14 Name of the Teaching Staff : **Kale Priyanka Prakash**

Designation : **Lecturer**

Department : **Civil Engineering**

Date of Joining the Institute : **24/12/2019**

Qualification with Class : **B.E CIVIL ((I Class)**

Total Experience in Years : Teaching **– 06 Month**

Industry **– 00 Months**

Paper Published :National**–Nil** International **– Nil**

Paper Presented in Conference :National **–Nil** International **–Nil**

PhD.Guide? :Field**-Nil** University **–Nil**

PhDs/Project Guided :PhDs**–Nil** Master Level **–Nil**

Books Published/IPRs/Patents :**Nil**

Professional Memberships :**Nil**

Consultancy Activities :**Nil**

Awards :**Nil**

10.14 Name of the Teaching Staff : **Mane Prajakta Shankarrao**

Designation	:**Lecturer**
Department	: **Civil Engineering**
Date of Joining the Institute	:**22/06/2018**
Qualification with Class	:**B.E CIVIL ((I Class)**
Total Experience in Years	: Teaching **– 05 Years**
	Industry **– 00 Months**
Paper Published	:National**–Nil** International **– Nil**
Paper Presented in Conference	:National **–Nil** International **–Nil**
PhD.Guide?	:Field-**Nil** University **–Nil**
PhDs/Project Guided	:PhDs**–Nil** Master Level **–Nil**
Books Published/IPRs/Patents	:**Nil**
Professional Memberships	:**Nil**
Consultancy Activities	:**Nil**
Awards	:**Nil**
Grant Fetched	:**Nil**
Interaction with Professional	:**Nil**

10.13 Institute Admission Quota **(CIVIL ENGINEERING DEPARTMENT)**

Sr. No.		2019-20	2018-19	2017-18	2016-17	2015-16	2014-15
1	**Entrance test / admission criteria**	**As per merit**	**As per merit**	**As per merit**	**As per merit**	**As per merit**	**As per merit**
2	**Cut off/Last candidate admitted**	**47.40%**	**43.80%**	**44.80%**	**51.40%**	**37.00 %**	**40.60%**
3	**Fees in Rs**	**63,200**	**51,000**	**60,000**	**67,200**	**64000**	**58100**
4	**Number of fee –Waivers offered**	**02**	**06**	**06**	**06**	**06**	**03**
5	**Admission Calendar**	**As per DTE Schedule**	**As per DTE Schedule**	**As per DTE Schedule**	**As per DTE Schedule**	**As per DTE Schedule**	**As per DTE Schedule**
6	**PIO quota**	**----**	**----**	**----**	**----**	**----**	**----**

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil Polytechnic, Satara
Department of Computer Engineering

Mandatory Disclosure

For each program the following details are to be given

1	Name of Program	Computer Engineering
2	Number of seats	60
3	Duration	3 years
4	Cut off marks/Rank of admission during the last three years	2017-18 :- Open - 72.00 % SC - 71.00% OBC - 67.08 % 2018-19 :- Open -55.60 % SC -60% OBC -60.60% NT -71.20% DT/VJ-84.80% 2019-20 :- Open -67.20 % SC -63.20% OBC -62.00% NT -62.60% DT/VJ-57.60% SB -73.20 %
5	Fee	
6	Placement facilities	
7	Campus placement in last three years with minimum salary, maximum salary & average salary	

Faculty Details (Branch wise list of faculty members)

1	Permanent Faculty	1Prof. Nalawade A. S
2	Adjunct Faculty	1. Mr. Urunkar O. R. 2. Mr. Phalke C. N. 3. Ms. Mujawar N. S.

		4. Mrs. Shinde M. A. 5. Mr. Gujar A. N. 6. Mr. Ghorpade B. S.
3	Permanent Faculty : Student Ratio	1:170
4	No. of faculty employed and left during the last three years	Employed-10 Left-04

Laboratory & Workshop details

1	List of major equipments/facilities in each laboratory/workshop	54
2	List of experimental setup in each laboratory /workshop	21

Teaching Learning Process

- Curricula & syllabus for each of the program as approved by the university
- Academic calendar of university
- Academic time table with the name of the faculty members handling the course
- Teaching load of each faculty
- Internal continuous evaluation system and place

Program: Computer Engineering
Course: Microprocessor
Course Code:22415 (CO 4I)

Chapter No	Topic/Details
1	1.1 8086 Microprocessor :silent features,Pin description 1.2 Architecture of 8086 :Functional Block diagram,Register organization 1.3 concept of pipelining 1.4.Memory segmentation physical address generation
2	2.1program development steps:Defining,problem and constraints,Writing Algorithm,FlowChart,Initialization checklist,Choosing instructions,converting algorithms to assembly language programs 2.2 assembly language programing tools:Editors,Assembler,Linker,Debugger 2.3 Assembler directives
3	3.1 Machine Language instruction format 3.2Addressing Modes 3.3Instruction set ,Group of instructions,Arithmetic Instruction,Logical Instruction,DataTransfer Instruction,Bit Manipulation Instruction,String operation Instruction,Program control transfer or branching instruction,process control instruction
4	4.1Model of 8086 assembly language programs 4.2 Programming using assembler:Arithmetic operations on Hex and BCD numbers,sum of series,smallest and largest number from array,sorting number in ascending and descending order,Finding odd even number,positive negative number in array,Block transfer,String operation-Length,Reverse,compare,concatenation,copy,count number of 1 and 0 in 16 bit number
5	5.1 Procedure :Defining and calling procedure PROC ,ENDP,Far and NEAR Directives Call and RET instruction Parameter passing methods,Assembly Language Programs using Procedure 5.2 Macro:Defining Macros,Macro and ENDM Directives,Macro with parameters Assembly Language programs using Maros

Program: Computer Engineering

Course: Microprocessor
Course Code:22415

Sr. No.	Name of Experiment/ Assignment/ Sheet/Job/Project Activity
1	Identify the various pins of the given microprocessor
2	use assembly language programming tools and functions
3	use different addressing mode instruction in program (a)write an assembly language program to add two given 8 and 16 bit number (b) write assembly language program to subtract two given 8 and 16 bit number
4	a)write an ALP for multiply two given 8 and 16 bit unsigned number b)write an ALP for multiply

	two given 8 and 16 bit signed number
5	a)Write an ALP to perform block transfer data using string instruction b)Write an ALP to perform block transfer data without using string instruction
6	a)write ALP to compare two string without using string instruction b)write an ALP to to compare two string using string instruction
7	a)Write an ALP to divide two unsigned number b)Write an ALP to divide two signed number
8	Write an ALP to add ,subtract,multiply,divide two BCD number
9	a)Write an ALP to find the sum of a series of Hexadecimal Numbers.(b)Write an ALP to find sum of series of BCD Numbers
10	a)Write an ALP to find the smallest number from an array of n numbers. b)Write an ALP to find the largest number from an array of n numbers.
11	a)Write an ALP to arrange number in array in ascending order.b)Write an ALP to arrange number in array in descending order.
12	a)Write an ALP to arrange String reverse order. b)write an ALP to find string length c)write an ALP to concatenation of two string
13	a)write an ALP to check given number ODD or EVEN.b)write an ALP to count ODD and EVEN number in array
14	a)write ALP to check a given number is Positive or Negative b)write ALP to count Positive and Negative number in Array
15	a)Write an ALP to count number of '1' in a given number b)Write an ALP to count number of '0' in a given number
16	An assembly language program using procedures a)Write an ALP for addition ,subtraction,multiplication and division.b) write an ALP using procedure to solve equation such as Z=(A+B)*(C+D)
17	An assembly language program using macros. a)Write an ALP for addition ,subtraction,multiplication and division b) write an ALP using MACRO to solve equation such as Z=(A+B)*(C+D)

Program: Computer Engineering

Course: Mobile Application Development
Course Code:22617

Chapter No	Topic Details
1	**Android and It's Tools** 1.1 Introduction to Android Open Handset alliance

	Android Ecosystem 1.2 Need of Android Features of Android 1.3 Tools & Software required for Developing an Android Application. 1.4 Android Architecture
2	**Installation and Configuration of Android** 2.1 Operating System Java JDK Android JDK 2.2 Android Development Tools (ADT) 2.3 Android Virtual Devices (AVDs) 2.4 Emulators 2.5 Dalvik Virtual Machine Difference between JVM & DVM 2.6 Steps to install & configure Android Studio & SDK
3	**Components & Layouts** 3.1 Control Flow: Directory Structure 3.2 Components of a Screen: Fundamental UI Design 3.3 Layouts:Linear Layout Absolute Layout Frame Layout Table Layout Relative Layout
4	**Designing User Interface with View** 4.1 Components: Text View,Edit Text Button,Image Button Toggle Button Radio Button And Radio Group Checkbox Progressbar 4.2 Views: List View,Grid View Image View,Scroll View Custom Toast Alert 4.3 Time & Date Picker
5	**Activity & Multimedia with Database** 5.1 Intent, Intent_Filter 5.2 Activity Lifecycle Broadcast Lifecycle 5.3 Content Provider,Fragments 5.4 Service: Features of Service Android Platform Service Defining New Service Service Lifecycle Permission Example of Service 5.5 Android System Architecture: Multimedia Framework Play Audio & Video,Text To Speech

	Sensors, Async Tasks 5.6 Audio Capture, Camera 5.7 Bluetooth, Animation 5.8 SQLite Database: Necessity of SQLite Creation & Connection
6	**Security & Application Deployment** 6.1 SMS Telephony 6.2 Location Based Services: Creating the Project Getting the MAPs API Key Displaying the MAP Displaying the zoom control Navigating to a specific location Adding Markers Getting Location Geocoding & reverse Geocoding Getting Location Data Monitoring Location 6.3 Android Security Model Declaring & Using Permissions Using Custom Permissions 6.4 Application Deployment: Creating a small Application Spinning of Application Deploying Application on Google Play store Become a publisher Developer Console

Program: Computer Engineering

Course: Mobile Application Development
Course Code:22617

Sr. No.	Name of Experience
1	Compare various operating systems with Android OS.
2	Install/configure java development Kit(JDK),android studio and android SDK.
3	Configure android Development tools (ADT) plug-in and create android virtual Device
4	Develop a program to display Hello World on the screen.
5	Develop a program to implement linear layout and absolute layout
6	Develop a program to implement frame layout,table layout and relative layout
7	Develop a program to implement Text View and Edit Text.
8	Develop a program to implement Auto complete Text View
9	Develop a program to implement Button,Image Button and Toggle Button
10	Develop a program to implement Login window using above UI control

11	Develop a program to implementCheck Box
12	Develop a program to implement Radio Button and Radio Group
13	Develop a program to implement Progress Bar
14	Develop a program to implement List View,Grid View,Image View,Scroll View
15	Develop a program to implement Custom Toast Alert
16	Develop a program to implement Date and Time Picker
17	Develop a program to Create an Activity
18	Develop a program to create new activity using explicit intent and implicit intent
19	Develop a program to implement service
20	Develop a program to implement broadcast Receiver
21	Develop a program to build Camera
22	Develop a program for providing Bluetooth connectivity
23	Perform Async task using SQLite
24	Create sample application with logic with login module (check username and password) TextView "login successful".and on login fail,alert user using Toast"Login fail"
25	Create login application Where you will have to validate username and password till till username and password is not validated,login button should remain disabled
26	Develop a program to a) Send SMS b)Receive SMS
27	Develop a program to send and receive email
28	Develop a map based application part I
29	Deploy map based application Part II

Program: Computer Engineering

Course: Java Programming
Course Code:22412 (CO 4I)

Chapter No.	Topic Details
1 Basic syntactic Construct in Java	**1.1 Java Features and the Java Programming Environment. Object Oriented, Compiled, Interpreted, Platform independent, Portable, Robust and Secure, Dynamic.** **1.2 Defining a class, creating object, accessing class members** **1.3 Java Tokens & Data types Constants & Symbolic Constants, variables, dynamic initialization, data types, array & string, scope of variable, type casting, standard default values.** **1.4 Operators & Expressions Arithmetic Operators, Relational Operators, Logical Operators, Increment & Decrement, Conditional Operators, Bit wise Operators, Instance of Operators, Dot**

	Operators, Operator precedence & associativity, Evaluation of Expressions, Type conversions in expressions, Mathematical Functions - min(), max(), sqrt(), pow(), exp(), round(), abs(). **1.5 Decision making & loopingIf statement, if else statement, nested if else statement, if else if ladder, the switch statement, nested switch statement, The ?: operator, The while statement, the Do while statement, the 'for' statement, break, continue & return statement, nested loops, labeled loops, for-each version of the for loop.**
2 Derived syntatical Construct in Java	**2.1 Constructors & methods, types of constructors, nesting of methods, argument passing the 'this' keyword, command line arguments, varargs: variable-length arguments, garbage collection, finalize() method, the objectclass.** **2.2 Visibility Control Public, Private, Protected, default, friendly private Protected access.** **2.3 Arrays & Strings Types of arrays, creating an array, strings, string classes & string buffer, vectors, wrapper, classes, enumerated types.**
3 Inheritance Interface and Package	**3.1 Inheritance : Concept Of Inheritance , Types Of Inheritance** **3.2 Inheritance, single Inheritance, multilevel Inheritance, Hierarchical Inheritance, method & constructor Overloading & overriding, dynamic method dispatch, final variables, final methods, use of super, abstract methods & classes, static members.** **3.3 Interface Define Interface, implementing interface , accessing interface, variables & methods, extending interfaces, interface references, nested interfaces** **3.4 Package Define package, type of package naming & creating packages, accessing package, import statement, static import, adding class & interfaces to a package**
4 Exception Handling And Multithreading	**4.1 Errors & Exception Types of errors, exceptions, try & catch statement, nested trystatement, throws & Finally statement, build-in exceptions, chained exceptions, creating own exception, subclasses.** **4.2 Multithreaded Programming Creating a Thread: By extending to thread class & byimplementing runnable Interface. Life cycle of thread: Thread Methods: wait(), sleep(), notify(), resume(), suspend(), stop().**

	Thread exceptions, thread priority & ethods, synchronization, inter-thread communication, deadlock.
5 Java Applets & Graphics Programming	**5.1 Introduction to applets Applet, Applet life cycle (skeleton), Applet tag, AddingApplet To HTML file, passing parameter to applet, embedding <applet>tags in java code, adding controls to applets.5.2 Graphics Programming Graphics classes, lines, rectangles, ellipse, circle, arcs, polygons, color & fonts, setColor(), getColor(),setForeGround(), setBackGround(), font class, variable defined by font class: name, pointSize, size, style, font methods: getFamily(), getFont(), setFontname(), getSize(), getStyle(), getAllFonts()& getavailable fontfamilyname() of the graphics environment class.**
6 Managing Input Out file in Java	**6.1 Introduction and concepts of Stream 6.2 Stream Classes 6.3 Byte Stream Classes 6.4 Character Stream Classes 6.5 Create File , Read File, Write File**

List Of Experiments

1	setup a java Programming Development Environment 1 Command Prompt 2 IDE(Eclipse)
2	Test JDK setup by implementing Small Program
3	Develop a program to demonstrate use of if Statements
4	Develop a program to demonstrate use of a) Switch- Case Statement b) Conditional if ()
5	Develop a program to demonstrate use of Looping Statement for
6	Develop a program to demonstrate use of while and do while
7	Develop a program to demonstrate use of Implicit Type casting I

8	Develop a program to demonstrate use of Implicit Type casting II
9	Develop a program to demonstrate use of Explicit Type casting
10	Develop a program to demonstrate use of Constructor & Multiple Constructor In same Program
11	Develop a program to demonstrate use of String Function Part I
12	Develop a program to demonstrate use of String Function Part II
13	Develop a program to implementation of Array In Java
14	Develop a program to implementation of Vector in Java
15	Develop a program to implementation of Wrapper Class to convert primitive to object
16	Develop a program to implementation of Wrapper class to convert object to Object
17	Develop a program to implementation of concept of Overriding
18	Develop a program to implementation of Single & Multi Level inheritance
19	Develop a program to implementation of Multiple Inheritance
20	Develop a program to import different classes in package

21	Develop a program to implementation of Multithreading operating Part I
22	Develop a program to implementation of Multithreading opration Part II
23	Develop a program to implementation of try, Catch block Part I
24	Develop a program to implementation of try, Catch block Part II
25	Develop a program to implementation of try, Catch and Finally

26	Develop a program to implementation of throw , throws part I
27	Develop a program to implementation of throw , throws part II
28	Develop a program to implementation of Minimum 2 applets. 1) Basic Applet 2) Use Control Loop
29	Write Program to create Animated shape Using Graphics 1) Lines & Rectangles 2) Circles & Ellipse 3) Arc 4)Polygon
30	Develop Program to draw following shape 1) Cone 2) Cylinder 3) Cube 4) Square Inside Circle 5)Circle Inside Square
31	Develop Program for implementation of I/O stream classes
32	Develop Program for implementation of File Stream Classes

Program: Computer Engineering

Course: Web Based Application Development Using PHP

Course Code:22619(CO 6I)

Theory Syllabus

Chapter No	Topic/Details
1	**Expressions and control statements in PHP** 1.1 History and Advantages of PHP, Syntax of PHP. 1.2 Variables, Data types, Expressions and Operators, constants. 1.3 Decision Making Control Statements- if, if-else, nested if, switch, break and continue statement. 1.4 Loop Control structures- while, do while, for and foreach.
2	**Arrays ,Functions and Graphics** 2.1 Creating and Manipulating Array,Types of Array-Indexed, Associative and Multidimensional arrays. 2.2 Extracting Data from arrays, implode, explode, and array flip. 2.3 Traversing Arrays 2.4 Functions and its types- User defined function, Variable function and Anonymous function. 2.5 Operations on string and string functions : str_word(), strlen(),strrev(), strpos(), str_replace(),ucwords(), strtoupper(), strtolower(), strcmp(). 2.6 Basic Graphics Concepts, Creating Images, Images with text, Scaling Images, Creation of PDF document.
3	**Apply Object Oriented Concepts in PHP** 3.1 Creating Classes and Objects 3.2 Constructor and Destructor 3.3 Inheritance, Overloading and Overriding, Cloning Object. 3.4 Introspection, Serialization
4	**Creating and Validating Forms** 4.1 Creating a webpage using GUI Components, Browser Role-GET and POST methods, Server Role 4.2 Form Controls : text box, text area, radio button, check box, list, buttons. 4.3 Working with multiple forms : -A web Page having many forms,-A form having multiple submit buttons. 4.4 Web Page Validation. 4.5 Cookies - Use of cookies, Attributes of cookies, create cookies, modify cookie value, and delete cookies. 4.6 Session - Use of Session, Start Session, get session variables,destroy session. 4.7 Sending Email.
5	**Database Operations** 5.1 Introduction to MySQL- create a database 5.2 Connecting to a MySQL database : MySQL database server from PHP 5.3 Database Operations : Insert data, Retrieving the query result 5.4 Update and delete operations on table data.

List of Experiments (WBP)

Sr. No.	Name of Experiment/ Assignment

1	a.Install and configure PHP,web server,MYSQL. b.Write a Program to print "Welcome to PHP". c.Write a simple PHP program using expressions and operators.
2	Write a PHP Program to demonstrate the use of Decision Making Control Structures using-a.If Statement b.If-else Statement c.Switch Statement
3	Write a PHP Program to demonstrate the use of Looping Structures using- a.While Statement b.Do while statement c.For Statement d.Foreach statement
4	Write a PHP program for creating and manipulating- a.Indexed array b.Associative array c. Multidimensional array
5	a. Write a PHP program to- i. calculate length of string ii.Count the number of words in string without string functions. b.Write a PHP Program to demonstrate the use of various built-in string functions.
6	Write a simple PHP program to demonstrate use of Simple function and Parameterized function.
7	Write a simple PHP program to create PDF document by using graphics content.
8	Write a PHP program to- a.Inheret members of super class in subclass b.Create constructor to initialize object of class by using object oriented concepts.
9	Write a simple PHP program on Introspection and Serialization.
10	Design a web page using following form controls: a.Text box ,b. Radio Button, c. Check Box, d. Buttons.
11	Design a web page using following form controls: a.List box ,b. Combo Button, c. Hidden List Box.
12	Design a web page with Data Validation.
13	Write a Simple PHP program to- a. Set Cookies and Read it. b.Demonstrate Session Management.
14	Write a Simple PHP Program for Sending and Receiving Plain text Message(e-mail).
15	Develop a Simple Application to- a.Enter Data in Database b. Retrieve and Present Data from Database
16	Develop a Simple Application to Update , Delete table Data from database.

Program: Computer Engineering
Course: GUI Based Application Development Using Vb.Net

Course Code:22034(CO 4I)

Theory Syllabus

Chapter No	Topic/Details
1	**Overview of GUI Programming** 1.1 Introduction to .Net Framework Components Common Language Runtime (CLR) Microsoft Intermediate Language (MSIL) Just-In-Time Compiler 1.2 Exploring VB.Net IDE 1.3 System Namespaces in VB.Net 1.4 Events and Event Handling
2	**Decision Control and Loop Control** 2.1 Data Types in VB.Net 2.2 Operators in VB.Net i. Arithmetic Operators ii. Logical Operators iii Bit Shift Operators iv. Relational Operators v. Assignment Operators 2.3 Control Structures i. IF Statement ii. IF-ELSE Statement iii. Select Case Statement 2.4 Loops in VB.Net i. For Loop ii. While Loop iii. Do Loop iv. For Each Loop 2.5 Form Controls in VB.Net and Its Properties-Button, Text box, Label, Radio button, Check box, List box, Combo Box, Picture box, Panel, Tab Control, Timer
3	**Object Oriented Programming in VB.Net** 3.1 Sub Procedures and Functions 3.2 Class and Objects in VB.Net 3.3 Constructors and Destructors in VB.Net 3.4 Inheritance in VB.Net, Simple Inheritance using Override Keyword 3.5 Overloading, Overriding and Shadowing 3.6 Exception Handling
4	**Data access in VB.Net** 4.1 Architecture of ADO.Net 4.2 Accessing Data with Server Explorer 4.3 Data Providers 4.4 Connections, Data Reader, Data Adapters and Datasets 4.5 Creating New Data Connections 4.6 Creating Dataset 4.7 Data Grid Control and Displaying Data in Data Grid 4.8 Data Access using Data Adapter

5	**Data Binding and Deployment** 5.1 Simple Data binding using Text Box. Check Box and Label. 5.2 Complex Data Binding using Combo box and List box. 5.3 Navigating Database 5.4 Deploying VB.Net Application

List of Experiments (WBP)

Exp. No.	Name of Experiment/ Assignment/ Sheet/Job/Project Activity
1	Install, Set up and use VB.Net IDE (Integrated Development Environment)
2	Use Existing Namespace and create user defined Namespace in VB.Net.
3	a) Write a Simple program to display a Welcome message using msgbox(). b) Develop programs to solve Arithmetic expressions.
4	Develop programs to demonstrate use of IF, IF-ELSE Control structures in VB.Net
5	Develop programs to demonstrate use of Case Control structures in VB.Net
6	Develop programs to demonstrate use of While, Do Loop in VB.Net.
7	Develop programs to demonstrate use of For, For-each Loops in VB.Net.
8	Develop a program using Text box, Label, Button
9	Develop a program using Radio Button Check box.

10	Develop a program using List box, Combo box.
11	Develop a program using Picture box, Panel.
12	Develop a program using Tab Control and Timer.
13	Write a program to perform validation using regular expression and error provider.
14	Write a program to perform validation using regular expression and error provider.
15	Write a program to demonstrate the use of Sub-procedures and Parameterized Sub-Procedures.
16	Write a program to demonstrate the use of Simple Function and Parameterized Functions.
17	Develop a program to create a class. Access members of class using its objects.
18	Create constructor to initialize object of class. Use Destructor to de-allocate memory using finalize method.
19	Develop a program to inherit members of super class in sub class using simple inheritance.
20	Develop a program to demonstrate Overloading a method.
21	Develop a program to demonstrate Overriding in inheritance.

22	Develop a program to demonstrate Shadowing in inheritance.
23	Construct a program to handle runtime errors by using Exception handling.
24	Write a program to fetch data from table and display in Data Grid.
25	Write a program to perform following operation using Data Adapter: Fill and Update data in Database.
26	Write a program to perform following operation using Data Adapter: Fetch data from multiple tables in Dataset.
27	Write a VB.Net Code to store and retrieve data in Database Table.
28	Write a program that uses Simple Data Binding using Text Box, Check Box and Label.
29	Write a program that uses Complex Data Binding using Combo box.
30	Write a program that uses Complex Data Binding using List box.
31	Write a program to Navigate across existing data in table.

32	Create Executable file of VB.Net Application and Deploy it to other computer.

Program: Computer Engineering
Course:DataCommunication and Computer Network

CourseCode:22414 (CO 4I)

Chapter No	Topic/Details
1	1.1 Process of data communication & its components: transmitter, receiver, medium, message, protocol. transmitter, receiver, medium, message, 1.2 protocol. Protocols, standards, standard organizations. Bandwidth, data transmission rate, baud rate, bits per second. 1.3 Modes of communication- simplex, half duplex, full duplex. 1.4Analog signals and digital signals, their transmissions. Analog signals and digital signals transmissions- analog to digital. Analog signals and digital signals transmissions- digital to analog. 1.5Fundamentals of computer network- definition, need, application, benefits. 1.6Classification of networks- LAN WAN MAN. 1.7 Network architectures- per-to-peer and client-server.
2	2.1Communication media- Guided media and unguided media. Guided media - twisted pair cable, Guided media -Coaxial cable,Guided media-Fiber optic cable , 2.2Unguided media- radio waves, Guided media- Microwaves, Guided media- Infrared, Guided media- satellite, 2.3Line-of-site transmission point to point, broadcasting 2.4Multiplexing and demultiplexing, Frequency division multiplexing, Time division multiplexing, 2.5Switching- Circuit switched networks, Packet switched networks,

3	3.1Types of errors- single bit error, Burst error, redundancy, 3.2 Error detection-Longitudinal redundancy check-LRC, Vertical redundancy check-VRC, Cyclic redundancy check-CRC Forward 3.3 error correction- forward error correction, 3.3 IEEE standards- 802.1, 802.2 IEEE standards- 802.3, 802.4,802.5 3.4Wireless LANs- 802.11 architectureMAC sublayer, addressing mechanism 3.5Bluetooth architecture- piconet, scatternet Bluetooth architecture- scatternet 3.6Mobile generations- 1G, 2G, 3G, 4G, 5G
4	4.1Network topologies: Introduction, definition, selection, criteria, Types of topology- 1.Bus 2.Ring 3.Star 4.Mesh 5.Tree 6.Hybrid 4.2 Network connecting devices- Hub, Switch, Router, Repeater, Bridge, Gateway, Modem, Wireless infrastructure Components
5	5.1OSI reference model- Layered architecture, peer-to-peer process- interfaces between layer, protocols, organization of layers, encapsulation. Layers of OSI model(Function and features of each layer)-physical layer, data link layer, network layer, transport layer, session layer, presentation layer, application layer. 5.2 TCP/IP model- layered architecture, data link layer- nodes and links, services, two categories of links, two sublayers, Link layer addressing- three types of addresses, address resolution protocol(ARP), Network layer- addresses: address space, classful and classless addressing, dynamic host configuration protocol(DHCP), network address resolution(NAT). Transport layer protocol- transport layer services, connectionless and connection oriented protocol. 5.3 Introduction- addressing mechanism in internet IP addressing: IP addressing class, classless IP addressing, subnet, masking, supernetting. 5.4IPv4 and IPv6. 5.5OSI and TCP/IP network model.

Program:Computer Engineering
Course:DataCommunication and Computer Network

CourseCode:22414 (CO 4l)

Sr. No.	Name of Experiment/ Assignment
1	Configure peer-to-peer network with at least three hosts
2	Create desired standard network cable including cross cable and test by using cable tester

3	Connect computers using given topology with wired media
4	Connect computers using wireless media
5	Write a C program for CRC error detection
6	Create a network using bluetooth(Piconet/Scatternet)
7	Share printer and folder in a network and transfer a file from one computer to another
8	Install operating system (Windows/Linux-redhat/ubantu)
9	Configure file server
10	Configure Client to file server and use file services
11	Configure static and dynamic ip adresses
12	Configure DHCP server
13	Run basic TCP/IP utilities and network commands: ipconfig,ping,tracert,netstat,pathping,route
14	Install wireshark and congigure as packet sniffer
15	Set access rights and security permossions for user
16	Creat IPv6 based small network using a simulator
17	Setting up a wireless network

Program: Computer Engineering
Course:WebPage Designing with HTML

CourseCode:22014 (CO 2I)

Chapter No	Topic/Details
1	Fundamentals of world wide web- WWW: web browsers, web services Types of sites: static, dynamic Web page structure: DOCTYPE, head, body Title and other meta tags with attributes Block level tags and horizontal rules: headings, paragraphs breaks divisors, centered text, block quotes preformatted text, types of address, HR tag
2	underline, strikethrough, superscript, subscript DIV tag displaying special characters Lists: ordered list unordered list definition list nested lists
3	URL, types of url, absolute urls, relative url pros and cons of relative and absolute url anchor tag: linking various documents for internal and external links Insert images, formatting images- sizing, alignment, border other attributes of IMG tag, insert image as background creating solid color background
4	Table tag with attributes, TABLE, TR, TH, TD border cell spacing, cell padding, width, align, bgcolor attributes types of frames with attributes, creating frames with FRAMESET- rows, cols
5	different types of stylesheets, benefits, adding sheets to document linking to stylesheet, inline style selectors: CLASS rules, ID rules CSS properties: font, text box, color and background creating and using external CSS files, internal and inline CSS background and color gradients in CSS setting font & text in CSS using table layout
6	different types of stylesheets, benefits, adding sheets to document linking to stylesheet, inline style selectors: CLASS rules, ID rules CSS properties: font, text box, color and background creating and using external CSS files, internal and inline CSS background and color gradients in CSS setting font & text in CSS using table layout

Program:Computer Engineering

Course:WebPage Designing with HTML

CourseCode:22014 (CO 2I)

Sr. No.	Name of Experiment/ Assignment
1	Create a web page using structure tags to display sample messages
2	Create a web page for displaying paragraph using block level tags, HR tags; part-I
3	Create a web page for displaying paragraph using block level tags, HR tags; part-II
4	Create a web page using text level tags and special characters
5	Create a web page for implementing different types of lists
6	Create a web page to a)link external page of different sites b)different location on same page c)specific location on different web page of same site
7	Create a web page to link a)external page of different websites b)to email id
8	Insert image on web page using attributes
9	Implement image as button and set as background
10	Create a web page to implement frame tags
11	Create a web page to implement table tags
12	Create a web page for demonstration of CSS by applying internal, external,inline style
13	Install web server and publish website on intranet
14	Publish website on internet by acquiring space on free hosting sites

Program: Computer Engineering

Course: Software Engineering
Course Code:22413 (CO 4I)

Chapter No.	Topic/Details
1	1.1 Software, Software Engineering as layered approach and it's characteristics, Types of Software 1.2 Software Development Framework. 1.3 Software Process Framework, Process models Perspective Process Models, Specialized Process Models. 1..4 Agile Software development: Agile process and it's Importance, Extreme Programming, Adaptive Software Development, Scrum, Dynamic Systems Development Method(DSDM), Crystal 1.5 Selection criteria for software process model.
2	2.1 Software Engineering Practices and it'sImportance, Core Principles. 2.2 Communication Practices,Planning Practices, Modelling Practices, Construction Practices, Software Deployment (Deployment Principles- statements & meaning of each principles) 2.3 Requirements Engineering : Requirement Gathering and Analysis, Types of requirements(Functional, Product, Organizational, External Requirements) Eliciting requirements, developing use cases, building requirement models, requirement negotiation, validation. 2.4 SRS (Software Requirements Specifications): Need/Importance of SRS, format and it's characteristics.

3	3.1 Translating requirement model into design model :data modelling. 3.2 Analysis modelling : Elements of Analysis model 3.3 Design Modelling : Fundamental Design,Concepts(Abstraction, Information hiding, structure, modularity, concurrency, verification, asthetics). 3.4. Design notations : Data flow diagram (DFD), Structured flowcharts, Decision Tables. 3.5 Testing – meaning and purpose, testing methods – black box and white box , levels of testing – Unit testing. 3.6 Test Documentation – Test case template, test plan, introduction to defect report, test summary report.
4	4.1 The management spectrum – 4P's 4.2 Metrics for size estimation: Line of code (Loc), Function Points(FP). 4.3 Project cost estimation approaches : overview of Heuristic, Analytical and empirical estimation. 4.4 COCOMO (Constructive cost model), COCOMO II 4.5 Risk Management : Risk Identification, Risk Assessment, Risk Containment, RMMM strategy.
5	5.1 Project Scheduling : Basic principles, work breakdown structure, activity network and critical path method , scheduling techniques (CPM, PERT) 5.2 Project tracking : Timeline charts, Earned value analysis, Gantt charts 5.3 Software quality management vs software quality Assurance . Phases of software quality assurance : Planning, activities, audit and review. 5.4 Quality evaluation standards: Six Sigma. ISO for Software, CMMI : Levels, Process areas. 5.5 Software security, Introduction to DevOps, Secure software engineering.

Program:Computer Engineering

Course: Software Engineering

CourseCode:22413 (CO 4l)

Sr. No.	Name of Experiment / Assignment/Job/Project Activity
1	Write problem statement to define project title with bounded scope of project.
2	Select relevant process model to define activities and related task set for assigned project.
3	Gather application specific requirements for assimilate into RE (Requirement engg. Model).
4	Prepare broad SRS (software requirement specification) for the above selected project.
5	Prepare use-cases and draw use- case diagram using software modelling tool.
6	Develop the activity diagram to represent flow from one activity to another for

	software development.
7	Develop data designs using DFD's (data flow diagram) , Decision tables and E-R diagram.
8	Draw class diagram, sequence diagram, collaboration diagram, state transition diagram for the assigned project.
9	Write test cases to validate the requirements of the assigned project from SRS document.
10	Identify risks involved in the project and prepare RMMM (Risk management, mitigation and monitoring plan)
11	Evaluate size of function using function point metric for the assigned project.

12	Estimate cost of project using COCOMO/ COCOMO II approach for assigned project.
13	Use CPM (Critical path method) / PERT (program evaluation and review techniques.) for scheduling the assigned project.
14	Prepare SQA plan that facilitates various attributes of quality of process.
15	Prepare SQA plan that facilitates various attributes of quality of product

Program: Computer Engineering
Course: Computer Peripheral and Hardware Maintenance
Course Code:22013 (CO 2I)

Chapter No.	Topic/Details

1	1.1 Computers: Desktop Computers, Tablet, Laptop, Mainframe, Supercomputer. 1.2 Features description: Hardware components of Desktop Systems, Laptops, and Tablets. 1.3 Types of Servers, Server Feature descriptions and its applications.
2	2.1 Motherboard : Components, Layout, Connections 2.2 Motherboards : Types and Features 2.3 Enhancing features of motherboard: Adding and or replacing components. 2.4 Troubleshooting problems of a motherboard.
3	3.1 Processor : Common Features, Types of Processors, Basic Structure of CPU, Different levels of cache, system bus, clock speed, packaging 3.2 Multiple Core Processors: Description, Two core processor architecture and multi-core processor architecture 3.3 Co-processors: Graphics, Math. 3.4 BIOS: Basic Input Output System Services, Bios Interaction, date and time, Boot device priority, boot setting configuration, password security.

4	4.1 Hard Disk Drive 4.2 Hard Disk Interfaces: EIDE, Serial ATA, SCSI, USB and IEEE 1394 (Firewire), RAID, Solid State Drive (laptop) 4.3 Disk structure : Heads, Tracks, Sectors, Cylinders, Cluster, Landing zone, MBR, Zone bit recording 4.4 Disk performance parameters Characteristics: Seeks and Latency, Data Transfer Rate 4.5 File system: FAT16, FAT32, NTFS, Unix file system, EXT2/EXT3, RAID
5	5.1 Troubleshoot I/O devices: Keyboard Switches, Mouse, Scanners, Webcam, Monitors, Printers, Speaker and Mike, LCD Projector 5.2 I/O Cables: Specification of I/O Cables, Types of I/O cables, Types of I/O Ports, Internal and External modem, Block diagram and specifications. 5.3 Network Interface: Definition of network interface, Types of network interface, troubleshooting of network connectivity, Antivirus

6	6.1 Purpose and Features of SMPS, Working of SMPS 6.2 Fault finding in power supply 6.3 Uninterrupted Power Supply: Characteristics of UPS, Types of UPS, online and offline 6.4 Preventive Maintenance of Power Supply

Program: Computer Engineering
Course: Computer Peripheral and Hardware Maintenance
Course Code:22013 (CO 2I)

Sr. No.	Name of Experiment / Assignment/Job/Project Activity
1	a. Identify desktop and server by its type and verify its specifications b. Identify type of laptop and verify its Specification
2	a. Identify hardware components on motherboard b. Troubleshoot common problems of motherboard.
3	Configure BIOS settings
4	Partition and manage hard disk: format hard drives with different file systems. (Part-I)
5	Partition and manage hard disk, format hard drives with different file systems. (Part-II)
6	Install Operating System – Windows family (such as Windows 7/ Windows 10,Windows server 12)

7	Install Operating System –Unix family (such as Linux/Ubuntu/Centos)
8	Troubleshoot Hard disk problems.
9	a. Install local printer (Software configuration settings on printer and troubleshooting) b. b. Share Printer in Network(Software configuration settings on printer and troubleshooting)
10	Set keyboard, mouse, monitor, Speaker, Microphone and LCD Projector
11	Install SMPS, measure voltage levels in main connectors of SMPS connecting various subsystems.
12	Assemble and Disassemble Desktop System (Part-I)
13	Assemble and Disassemble Desktop System (Part-I)
14	Troubleshoot computer system by diagnosing the problem
15	Use diagnostic software for fault finding and viruses
16	Undertake Preventive Maintenance of PC using vacuum cleaner and simple tools.

- Academic time table with the name of the faculty members handling the course

RAYAT SHIKSHAN SANSTHA'S

KARMAVEER BHAURAO PATIL POLYTECHNIC, SATARA.

COMPUTER ENGINEERING DEPARTMENT

TIME TABLE - 2019-2020(EVEN SEMESTER)

CLASS: -FYCO/ SYCO/TYCO **W.E.F. : 9/12/2019**

DAY	CLASS	10.30-11.30	11.30-12.30	1.15-2.15	2.15-3.15	3.30-4.30	4.30-5.30
MON	FYCO			B2-BEC		B1-CPH,B2-WPD,B3-PCI	
	SYCO	JPR(A)GAD(B)MIC(C)		DCC	SEN	MIC	Project Work
	TYCO	PWP	EDE	MAD(A) PWP(B)		CPE(A) WBP(B)	
TUE	FYCO	BEC		PCI	BEC		
	SYCO	JPR	MIC	SEN	DCC	GAD	Project Work
	TYCO	WBP	PWP	MAD	MGT	Project Work	
WED	FYCO	PCI		B1-WPD,B3-BEC		B1-PCI,B3-CPH	
	SYCO	GAD(A)SEN(B)JPR(C)		SEN	JPR	JPR(A)GAD(B)DCC(C)	
	TYCO	MAD	ETI	WBP(A) MAD(B)		EDE	MAD
THU	FYCO		PCI	B2-PCI		B1-CPH,B2-WPD,B3-PCI	
	SYCO	SEN(A) MIC(B) JPR(C)		DCC(A) JPR(B)GAD(C)		Project Work	
	TYCO	WBP	WBP	MGT	MAD	MAD(A)CPE(B)	
FRI	FYCO	B1-BEC,B2-CPH,B3-WPD			BEC	B1-WPD,B2-PCI,B3-CPH	
	SYCO	JPR	GAD	MIC(A) JPR(B)GAD(C)		MIC	DCC
	TYCO	PWP(A)MAD(B)		ETI	PWP	CPE(A)EDE(B)	
SAT	FYCO			B1-PCI, B2-CPH, B3-WPD			
	SYCO	GAD(A) DCC(B)SEN(C)		DCC	MIC	------	
	TYCO	MGT	ETI	EDE(A) CPE(B)			

FYCO : Lecture hall BF-03 **SYCO : Lecture hall BG-03**

Subj-Abbr	Subject Name & Code	Faculty Name& Lab.
JPR	Java Programming(22412)	Mr. Phalke C. N.
SEN	Software Engineering (22413)	Mr. Gujar A.N.
DCC	Data Communication & Computer Network (22414)	Ms.Shinde M.A.
MIC	Microprocessors (22415)	Mr. Ghorpade B.S
GAD	GUI Application Development using VB.Net (22034)	.Ms. Mujawar N.S

Sub-Abbr	Subject Name & Code	Faculty Name& Lab.
MGT	Management (22509)	Mr. Palekar A. P.
PWP	**Programming with Python** (22616)	Mr. Urunkar O.R.
MAD	Mobile Application Development (22617)	Mr. Ghorpade B.S
ETI	Emerging Trends in Computer & Information Technology (22618)	Prof. A. S. Nalawade
WBP	Web Based Application Development using PHP (22619)	Ms.Mujawar N.S
EDE	Enterpreneurship Development (22032)	Mr. Palekar A. P.
CPP	Capstone Project – Execution & Report Writting(22060)	Mr. Phalke C. N. Mr. Nalawade A. S.

TYCO : Lecture hall BF-04 and **Lecture hall** **BG-04(For Tuesday)**

TIME TABLE IN-CHARGE HEAD OF DEPARTMENT PRINCIPAL

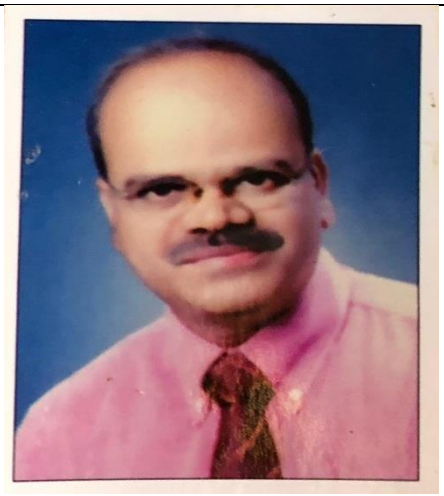
- Teaching load of each faculty

Faculty Workload (EVEN Semester) of Computer Department 2019-2020

FACULTY	CLASS	SUBJECTS	NO. of Lectures	Tutorial	Practical's	Subject Total	TOTAL WORKLOAD OF INDIVIDUAL FACULTY
Prof. Nalawade A. S.	FYCO	Basic Electronics	03	-	03*02=06	09	16
	TYCO	Emerging Trends in Computer and Information Technology	03	-	-	03	
	TYCO	Capstone Project Execution and Report Writing	-	-	01*04=04	04	
Mr. Urunkar O.R	FYCO	Programming in 'C'	03	02	03*02=06	11	18
	TYCO	Programming with Python	03	-	02*02=04	07	
Ms. Mujawar N.S.	SYCO (A,B)	GUI Application Development using VB.Net	02	-	03*04=12	14	21
	TYCO	Web Based Application Development using PHP	03	-	02*02=04	07	
Mr. Phalke C.N.	SYCO	Java Programming	03	-	03*04=12	15	19
	TYCO	Capstone Project Execution and Report Writing	-	-	01*04=08	04	
Mr. Gujar A.N.	FYCO	Computer Peripherals and Hardware Maintenance	02	-	03*02=06	08	17
	SYCO	Software Engineering	03	-	03*02=06	09	
Mr. Ghorpade B.S.	SYCO	Microprocessor	04	-	03*02=06	10	21
	TYCO	Mobile Application Development	03	-	02*04=08	11	
Ms. Shinde M.A.	FYCO	Web Page Designing with HTML	02	-	03*02=06	08	18
	SYCO	Data Communication and Computer Network	04	-	03*02=06	10	
	Total Workload of all faculty						130

Head of the Computer Engg. Dept. (Diploma)

8. **Profile of Faculty for each. Faculty give a page covering with Passport size photograph**

Name of Teaching Staff	Ashok Shrirang Nalawade	
Date of Birth	02/06/1961	
Unique id		
Education Qualification	M.Sc.(Electronics)	
Work Experience a Teaching	33 yrs	
Research	nil	
Industry	1.5 yrs	
others	nil	
Area of Specialization	Electronics & Computer Engg.	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	Emerging Trends in computer field , Digital Techniques Computer peripheral and hardware maintenance, Fundamentals of ICT, , management, Basic Electronics	
Research guidance a No. of papers published in National/ International Journals/ Conferences	Nil	
Master	No	
Ph.D.	No	
Projects Carried out	Nil	
Patents	Nil	
Technology Transfer	Nil	
Research Publications	Nil	
No of Books published with details	02	**1)Digital techniques & computer** **2)Electronics Measurements**

8. **Profile of Faculty for each. Faculty give a page covering with Passport size photograph**

Name of Teaching Staff	Atul Narayan Gujar	
Date of Birth	02/07/1986	
Unique id		
Education Qualification	B. E. Computer	
Work Experience a Teaching	8	
Research	nil	
Industry	nil	
others	nil	
Area of Specialization	Computer Engg.	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	Software Engg., Software Testing, Computer peripheral and hardware maintenance, Fundamentals of ICT, Computer security, Linux programming, computer networks, management, Environmental studies.	
Research guidance a No. of papers published in National/ International Journals/ Conferences	Nil	
Master	No	
Ph.D.	No	
Projects Carried out	Nil	
Patents	Nil	
Technology Transfer	Nil	
Research Publications	Nil	
No of Books published with details	Nil	

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	**Mr. Urunkar Omkar Rajendra**	
Date of Birth	**11/12/1989**	
Unique id	**401383173544**	
Education Qualification	**M.E Computer**	
Work Experience a Teaching	**8 Years**	
Research	**No**	
Industry	**No**	
others	**No**	
Area of Specialization	**Computer Networks**	
Courses taught at	**PCI, DSU,OOP,PWP,MAN**	

Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level		
Research guidance a No. of papers published in National/ International Journals/ Conferences	**5**	
Master	**M.E**	
Ph.D.	**-**	
Projects Carried out	**1**	
Patents	**0**	
Technology Transfer	**0**	
Research Publications	**0**	
No of Books published with details	**0**	

Name of Teaching Staff	**Mrs. Mujawar Nilofar Shabbir**	
Date of Birth	**17/10/1988**	
Unique id	**365110855283**	
Education Qualification	**M.E I.T.**	
Work Experience a Teaching	**6 Years**	
Research	**No**	
Industry	**2**	
others	**No**	
Area of Specialization	**Information Technology**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**GAD, SEN, AMI, WBP, CHM, STE**	
Research guidance a No. of	**3**	

papers published in National/ International Journals/ Conferences		
Master	**M.E**	
Ph.D.	**-**	
Projects Carried out	**1**	
Patents	**0**	
Technology Transfer	**0**	
Research Publications	**0**	
No of Books published with details	**0**	

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	**Mrs. Mohini Ashok Shinde**	
Date of Birth	**06/09/1990**	
Unique id		
Education Qualification	**ME(Computer Network)**	
Work Experience a Teaching	**07**	
Research	**-**	
Industry	**-**	
others	**-**	
Area of Specialization	**Computer Networks**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**OSY, WPD,DCC, ICT,STE, CHM, MAP,DTE, WSP, EDP**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**02**	
Master	**ME(Computer Networks)**	
Ph.D.	**-**	
Projects Carried out	**-**	
Patents	**-**	
Technology Transfer	**-**	
Research Publications	**-**	
No of Books published with details	**-**	

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name	**Phalke C N**	
Date of Birth	**18/12/1987**	
Unique id	**-**	

Education Qualification	**ME**	
Work Experience a Teaching	**3**	
Research		
Industry	**1.6**	
others		
Area of Specialization	**Programming**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**Java Programming , Advanced Java Programming**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**Nil**	
Master	**YES**	
Ph.D.	**NO**	
Projects Carried out	**CL DL web Application**	
Patents		
Technology Transfer	**No**	
Research Publications	**No**	
No of Books published with details	**No**	

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	Mr Ghorpade B.S.	
Date of Birth	27/05/87	
Unique id	-	
Education Qualification	B.E.	
Work Experience a Teaching	9	
Research	-	
Industry	-	
others	-	
Area of Specialization	Compute Eng.	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	1.Microprocessor (22415) 2.Mobile Application Development(22617) 3.Computer Graphics(22318) 4.Envirmental Studies(22447)	
Research guidance a No. of papers published in National/ International Journals/ Conferences	Nil	
Master	-	
Ph.D.	-	
Projects Carried out	-	

Patents	-	
Technology Transfer	-	
Research Publications	-	
No of Books published with details	1.Microprocessor	

- **Name of Program** -: Diploma in Electrical Engineering.
- **Number of Seats** -: 60
- **Duration**:-3 years
- **Cut Off Marks:-**

	Category	2017-18	2018-19	2019-20
Cut off Marks	Open	70.80%	60.40%	44.20%
	OBC	67.20%	75.20%	76.80%
	SC	57.60%	55.40%	46.80%
	VJ/DT	75.8%	--	57.20%
	NT-C	64%	62.20%	45.40%
	ST	Nil	Nil	Nil

- **Fee:** Academic Year - (2019-2020) Rs. 62,000/-
- **Placement Facility**:

Campus Placement in Last three years with minimum salary, maximum salary, average salary

2017-18				
Company Name	**Name of Students**	**Minimum Salary**	**Maximum Salary**	**Average salary**
Kirloskar Pneumatic Company Ltd. Pune	Mr. Vaibhav Rajendra Chavan	10,500/-	12,500/-	11,500/-
Vishwa Emotors.	1.Shubham Tapase 2.Rahul Pawar. 3.Suraj Ghadage 4.Umesh Babar 5.Aniket Chake. 6.Piyush Karande. 7.Mahesh Pawar. 8.Pratik Pawar 9.Sushant Pawar 10.Priti Mane 11.Sanee Dhaigude	7,000-	8,500/-	10,000
Cooper Corporation Pvt. Ltd.,Satara	1.Suraj Botalji 2.Rakesh Kulal 3. NilkanthChangan	10,000/-	12,500/-	11,000/-
2018-19				
T. E. Connectivity, Shirwal	1.Gourihar HaribhauSakhare 2.Tushar Kumbhar	10,000/-	12,500/-	11,000/-
Finolex J Power Systems Pvt. Ltd,Shirwal.	1.Bhosale Sidharth Balkrishna 2. Chalke Prashant Sharad 3. Gardi Suraj Dilip 4. Palange Tejas Prabhakar 5.Lohar Shubham Sanjay 6.More Nimesh Suresh	10,500/-	12,500/-	11,500/-

	7.Thorat Aba Balu 8.Shinde Nikhil Suryabhan 9.Sonavalkar Anup 10.SawantRiteej 11.Chavan Santosh			

- Name and duration of Programing(s) having Twinning and Collaboration with Foreign University(s) and being run in the same Campus along with status of their AICTE approval, If there is Foreign Collaboration, give the following details: Details of the Foreign University :- **Nil**
- Name of the University:- **NA**
- Address:- **NA**
- Website Accreditation status of the University in its Home Country:- **NA**
- Ranking of the University in the Home Country :- **NA**
- Whether the degree offered is equivalent to an Indian Degree? If yes, the name of the agency Which has approved equivalence? If no, implications for students in terms of pursuit of higher Studies in India and abroad and job both within and outside the country. :- **NA**
- Nature of Collaboration:- **NA**
- Conditions of Collaboration:- **NA**
- Complete details of payment a student has to make to get the full benefit of Collaboration:- **NA**
- For each Programme Collaborated provide the following:- **NA**
- Programme Focus :- **NA**
- Number of seats:- **NA**
- Admission Procedure :- **NA**
- Fee:- **NA**
- Whether the Collaboration Programme is approved by AICTE? If not whether the Domestic/Foreign. University has applied to AICTE for approval:- **NA**

- **Faculty :**

Sr. No.	Name of Faculty
1	Mrs. Patil P. S.
2	Mr. Bhujbal M.D
3	Mr. Bhongale R.S
4	Mr. Bhosale V.B
5	Mr. Raut Y.B
6	Mr. Borate A.D
7	Miss. Salunkhe S.S
8	Miss. Mane A.C

- **Permanent Faculty:** 1. Mrs. Patil P. S.
- **Adjunct Faculty:** Nil
- **Regular Faculty: Student Ratio =** 1:21
- **Number Of Faculty Employed And Left During The Last Three Years**: 3

Sr. No.	Name of Faculty
1	Mr. Thorat P. C.
2	Miss. Gadhave Neha
3	Mr. Dandekar A. C.

➢ Major Equipments:

S.N.	Name of Equipment	Date of purchase	Qty	Price of Equipment	DSR No	Remark
Name of Lab: Basic Electrical Lab						
1	IDMT over current relay kit	27/03/15	01	43875.00	EE164	
Name of Lab: AC Machine Lab						
1	Three phase dimmerstat 0-440 V 15 Amp MDE make	31/03/2010	1	22500.00	2273	
2	Three phase dimmerstat 0-440 V 15 Amp MDE make	31/03/2010	1	22500.00	2274	
3	Variable Inductive load bank 3 Phase 10Amp	31/03/2010	1	22500.00	2316	
4	3 Phase Induction motor 1500 rpm 415 V With DOL Starter & Loading Arrangement Crompton Grives Make Sr. No.16321	30/10/2010	1	22148.00	2428	
5	Parallel Operation of three Phase alternator DC shunt Motor Three Phase Alternator DC shunt Motor. 230 V 1500 rpm 2KVA 415 V 3 Ph 50 Hz	11/03/2013	1	91605.00	EE01	
6	Synchronizing control panel with starter phase sequence indicator synchroscope frequency meter	11/03/2013	1	43524.00	EE02	
7	Synchronous motor coupled to DC shunt generator 2.2Kw 220v 1500rpm complete base frame coupling arrangement	11/03/2013	1	51475.00	EE05	
8	AC slipring Induction motor with brake pulley loading arrangement 3PH-415V-1440rpm star connected with brake pulley loading arrangement with rotor	11/03/2013	1	41803.00	EE014	
9	AC squirrel cage induction motor coupled to DC shunt generator with Stardelta starter(manual semiautomatic starter) 5HP 3PH 415V 1440rpm star connected to 3KW 220v 1500 rpm DC shunt generator	11/03/2013	1	46453.00	EE015	
10	AC slip ring induction motor with rotor resistance starter or with star delta starter(manual semi automatic) 3HP 3PH 415V 1440rpm star connected coupled to 2,2KW 220V DC shunt generator	11/03/2013	1	60915.00	EE017	
11	AC squirrel cage induction motor with Auto transformer starter 5 HP 3 Phase 415 V 1440 rpm star connected coupled to 3 KVA 415V 3 Phase 1500 rpm 50Hz 4 Pole rotor wound /starter excited/Separately excited manually regulated alternator	11/03/2013	1	59985.00	EE019	
12	Connection panel for AC squirrel cage	11/03/2013	1	21855.00	EE021	

S.N.	Name of Equipment	Date of purchase	Qty	Price of Equipment	DSR No	Remark
	three phase induction motor with mechanical loading arrangement with connection terminal & circuit dia with three phase auto transformer starter					
13	Distribution panel made from ms cubic type made from 16/18 CRCA sheet with power coating complete with internal wiring busbar section mounted on ms frame metering 0-100 Amp type with ASS with CTS 1 Set 0-500 V AC voltmeter type with VSS 1 set RYB solid state indicating lamp 3 Nos incomer 1:100Amp 4 pole 16 KVA MCB 1Nos terminal magnetic type 1 out goings 1:16 Amp f.p. MCB 12No's 32Amp MCB 1 No's incomer 32 Amp 1 Nos out goings 2 : DC outgoings 16 Amp MCB 12No's	11/03/2013	1	55753.00	EE023	
14	Variable resistive load 3 phase 415V 12 Amp/ph resistive load bank provided with switches & insulated terminals	11/03/2013	1	19995.00	EE024	
15	Oil testing kit	08/03/2015	1	21340.00	EE86	
Name of Lab: D C Machine Lab						
1	DC shunt motor 5 HP 220 volt,1500 RPM with breake and pulley arrangement with 3 point starter MDE make Sr.No.2010/10/02	30/10/2010	01	36914	2427	
2	DC shunt motor generator set DC shunt motor 3 HP ,220 volt 1500 RPM Sr.No.2010/10/30 coupled to DC shunt generator 3 KVA 220 volt 1500 RPM Sr.No.2010/10/31 complete base frame coupling arrangement MDE make	30/10/2010	01	51680	2429	
3	Transformer rectifier unit input 3 HP 415 volt AC supply output 230 volt 20 amp DC supply transformer with different tapping on primary with tap changing with LED lamps digital metering MCB and load MDE make	30/10/2010	01	37,898	2430	
4	DC series motor with DC shunt generator 3 phase 220 volt,12 amp 1500 RPM series wound 220 volt excitation DC motor (with) 2 point coupled with 2.2 KW/220 volt 1500 RPM DC shunt generator	11/03/2013	01	48,825	EE10	
5	DC shunt motor coupled with manually regulated alternator set DC shunt motor with 3 point starter 3	11/03/2013	01	55,102.50	EE12	

S.N.	Name of Equipment	Date of purchase	Qty	Price of Equipment	DSR No	Remark
	HP/220 volt/1500 RPM coupled to 2 KVA /415volt/3 phase/1500 RPM/50HZ/four pole/rotor wound starter excited manually regulated alternator with coupling					
Name of Lab: Electronics Lab						
1	50MHz (1GS/95 RTS,10GSA/S ETS)-DSO Model DS 1052E Sr.No-1214228	25/02/2015	01	23750.00	EE103	
2	Speed control of DC shunt Series Motor Using SCR plot Speed armature Volt characteristic	13/03/2015	01	22373.00	EE75	
3	Speed control of three phase Induction Motor Using PWM Inverter	13/03/2015	01	35269.00	EE76	
Name of Lab: Measurement & Instrumentation lab						
1	Variable choke coil load	30/03/2015	1	27563.00	EE135	

➢ List of Experimental Setups in Each Laboratory:

- **Name of Lab:** D.C. Machine Lab

Sr. No	Name of Experiment
Subject: Electrical Material & Wiring	
1	Use different electrical safety accessories and practices.
2	Use different types of electrical or electronic tools.
3	Test the working of the given components: I. single pole one way and two way switches and ii. MCB using relevant tools and instruments.
4	Test the working of the given components i. RCB and ii. . ELCB using relevant tools and instruments.
5	Measure conductor resistance of cables using Kelvin's double bridge.
6	Use the megger to measure insulation resistance of cables .
7	Use the wheatstone's bridge to measure resistance of a bundle conductor (to determine per unit length resistance).
8	Use the wheatstone's bridge to measure resistance of a bundle conductor (to determine per unit length resistance). (two specimen of different cross section area.)
9	Select and place relevant fuses in different lighting circuits..
10	Use the coil over arrangement to determine the iron losses per unit weight of first electromagnetic specimen.
11	Use the coil over arrangement to determine the iron losses per unit weight of second electromagnetic specimen.
12	Select insulating materials for specific applications from given samples (at least five)
13	Investigate (and record observations) a cable failure by insulation breakdown(i.case)
14	Investigate (and record observations) a cable failure by insulation breakdown(ii.case)
15	Dielectric strength test of one insulating oil sample.
16	Dielectrics strength test of two different insulating oil samples of varied usage.
17	Prepare staircase wiring and test it
18	Prepare godown wiring and test it
19	Prepare switchboard containing four switches four socket arrangements(with fuse,indicator , internal wiring.)

Sr. No	Name of Experiment
20	Prepare fluorescent tube light fixture wiring and test it.
21	Perform cable laying from incoming bus to a machine installation .
22	Cable from incoming main to a residential unit.
23	Trace laid down cables and identify the path .
24	Prepare cable joints(different joints)
25	Perform Lug crimping for a cable leads of a specific size.
26	Perform Lug crimping for a cable leads of a size other than above.
27	Perform compound filling and water proof taping of cable joint.
28	Perform plate earthing for a machine laboratory
29	Perform plate earthing for a computer centre
30	Perform plate earthing for a building
31	Test/measure earthing system resistance of a computer centre
32	Test/measure earthing system resistance of a building
Subject: Electrical Motors & Transformers	
1	Dismantle a D C machine
2	Reverse the direction of rotation of DC Shunt motor.
3	Perform the break Test on DC Shunt motor.
4	Control the speed of DC Shunt motor by different methods.
5	Control the speed of DC series motor by different methods.
6	Check the functioning of Single Phase Transformer.
7	Determine the efficiency and regulation of Single Phase Transformer by direct loading test.
8	Perform the open circuit and short circuit test on Single Phase Transformer to determine equivalent circuit constants.
9	Perform the open circuit and short circuit test on Single Phase Transformer to determine the voltage regulation and efficiency .
10	Perform the Polarity test on Single Phase Transformer whose polarity markings are masked.
11	Perform the phasing out test on Three Phase Transformer whose polarity markings are masked
12	Connect the Auto transformer in step up and step down modes noting the Input/ Output readings.
13	Check the functioning of Isolation Transformer
14	Check the operation of Pulse Transformer

- **Name of Lab: AC Machine Lab**

Subject: Maintenance of Electrical Equipments	
1	Perform the no load test, measure winding resistance for a single phase induction motor and determine its performance. (as per relevant IS)
2	Perform no load and blocked rotor test on three phase induction motor to determine the equivalent circuit. (as per relevant IS)
3	For the motor tested in practical S no. 2 plot the circle diagram & plot the performance.
4	Perform the brake load test on the three phase Induction Motor
5	Perform open circuit voltage ratio test on the three phase slip ring Induction motor.
6	Perform the phasing out and polarity tests on the three phase transformer.
7	Perform the open circuit and short circuit tests on the single phase transformer and determine its performance (regulation and efficiency).
8	Perform the open circuit and short circuit tests on the three phase transformer and determine its performance (regulation and efficiency).
9	Prepare the maintenance schedule for trouble shooting chart for the s1ngle phase IM .
10	Prepare the maintenance schedule for trouble shooting chart for _the three phase induction motor.
11	Prepare maintenance schedule for trouble shooting chart for 3ph Transformers.
12	Conduct the dielectric strength test on transformer oil (sample 1). (as per relevant IS)

Subject: Utilization of Electrical Energy	
1.	Identify different lighting accessories required for various types of lamps
2.	Identify different lighting accessories required for various types of lamp fitting
3.	Measure illumination a different places in college using lux meter
4.	Identify he different components required for various types of heating furnaces
5.	Observe construction & working various heating furnaces by watching video programs
6.	Identify different accessories & Safety devices required for various welding system
7.	Prepare a report of specification of various electrical welding machines available in college workshop
8.	Visit a small manufacturing unit to observe various electrical drives Prepare a technical report
9.	Prepare a comparative chart of two different manufacturing company in India for any two lift / elevators with technical data
10.	Prepare a comparative chart of two different manufacturing company in india for any two lift / elevators with technical data
11.	prepare a report / chart on various types of traction system
12.	prepare a report / chart on speed time curve
13.	improve the power factor of available inductive load using static capacitor
14.	prepare a report based on comparative study of various tariff structure of Maharashtra
15.	prepare energy meter bill based on energy consumption of resistance / institute
16.	prepare a technical report after visiting an industry various power factor improvement devices used (otherwise from internet)

- **Name of Lab: Basic Electronics Lab**

Subject: Energy Conservation & Audit	
1	Identify star labeled electrical apparatus and compare the data for various star ratings.
2	Determine the '% loading" along with the related efficiency for different loads of given Induction motor (30 to l 10 percent in steps of 10%).
3	Determine the reduction in power consumption in star mode operation of induction motor compared to delta mode.
5	Compare power consumption of different types of TL with choke, electronic ballast in LED lamps by direct measurements.
6	Determine the reduction in power consumption by replacement of lamps in a class room / laboratory.
7	Determine the reduction in power consumption by replacement of Fans and regulators in a class room / laboratory.
9	Collect electricity bill of a commercial consumer and suggest suitable tariff for conservation and reduction of its energy bill.
10	Collect electricity bill of a residential consumer and suggest suitable means for conservation and reduction of the energy bill.
12	Prepare a sample energy audit questionnaire for the given industrial facility.
13	Prepare an energy audit report (phase-I)
14	Prepare an energy audit report (phase-II)
15	Prepare an energy audit report (phase-III)
Subject: Digital Electronics & Microcontroller	
01	Construct. AND, OR, NOT gates using universal gates.
02	Build the logic circuit on breadboard to check the De Morgan's theorems.
03	Design Half adder and Half subtractor using Boolean expressions,
04	Build / test function of RS flip-flop using NAND Gate
05	Build / test function of MS JK flip flop using 7476.
06	Use IC 7476 to construct and test the functionality of D and T flipflop;

07	Implement 4 bit ripple counter using 7476
08	Implement 4bit universal shift register.
09	Identify various blocks of 8051 microcontroller.
10	Write an assembly language program(ALP) to perform arithmetic operations on 8-bit data:- addition, subtraction, multiplication and division.
11	Write an ALP to transfer data from source to destination location of Internal data memory.
12	Write an ALP to transfer data from source to destination location of external data memory.
13	Write an ALP to exchange data from source to destination memory location
14	Interface LED with 8051 to tum on the LED.
15	Interface 7-seyment display to display decimal number from 0 to9
16	Interface the given keyboard with 8051and display the key pressed.
17	Inteface LCD with 8051 microcontroller to display the alphabets and decimal number
18	Interface stepper motor and write ALP to rotate stepper motor in clockwise and anti-clockwise direction at given angles.

- **Name of Lab: Basic Electrical Lab**

Subject: Electrical Circuit & Networks	
1.	Use dual trace oscilloscope to determine AC voltage and current response in given R,L.C circuit,
2.	Use voltmeter, ammeter, wattmeter to determine active, reactive and apparent power consumed in given R-L series Circuit. Draw phasor diagram.
3.	Use voltmeter, ammeter to determine active, reactive and apparent power consumed in given R-C series circuit. Draw phasor diagram
4.	Use voltmeter, ammeter to determine active, reactive and apparent power consumed in given R-L-C series circuit. Draw phasor diagram
5.	Use variable frequency supply to create resonance in given series R—L-C circuit by using variable inductor or variable capacitor.
6.	Use voltmeter, ammeter, and wattmeter to determine current, p.f, active, reactive and apparent power in R-C parallel A.C. circuit.
7.	Use voltmeter, ammeter, wattmeter, p.f meter to determine current, p.f., active, reactive and apparent power for given R—L-C parallel circuit with series connection of resistor and inductor in parallel with capacitor.
8.	Use variable frequency supply create resonance in given parallel R- L-C circuit by using variable inductor or capacitor
9.	Use voltmeter, ammeter, wattmeter, p.f meter to determine line and phase quantities of voltage and current for balanced three phase star and delta connected load and calculate active, reactive, and apparent power. Draw phasor diagram.
10.	Use voltmeter, ammeter, wattmeter, p.f meter to determine line and phase quantities of voltage and current for unbalanced three phase star and delta connected load and calculate active, reactive, and apparent power. Draw phasor diagram.
11.	Use voltmeter, ammeter to determine current through the given branch of an electric network by applying mesh analysis.
12.	Use voltmeter, ammeter to determine current through the given branch of a electric network by applying node analysis.
13.	Use voltmeter, ammeter to determine current through the given branch and voltage across the given element of circuit by applying superposition theorem.
14.	Use voltmeter, ammeter to determine equivalent circuit parameter in a given circuit by applying Thevenin's theorem
15.	Use voltmeter, ammeter to determine equivalent circuit parameter in a given circuit by applying Norton's theorem
16.	Use voltmeter, ammeter to determine load resistance for maximum power transfer for a given circuit by applying maximum power transfer theorem.

Subject: Illumination and Electrification of Buildings	
1.	Conduct illumination level assessment in work place using lux meter.
2.	Prepare the relevant dimmer type of transformer.
3.	Measure the illumination output of incandescent lamp and CFL lamp.
4.	Estimate and compare luminous efficiency if incandescent lamp and CFL lamp.
5.	Indentify the given type of dimmer transformer and their parts.
6.	Build a single lamp by single switch
7.	Build a single lamp by two point method.
8.	Build a single lamp by three point method.
9.	Build a single lamp by four point method.
10.	Understand energy efficient illumination equipment.
Subject: Estimating & Contracting	
1	Draw plan of electrical installation scheme for 1 BHK residential unit using Auto-cad and prepare list of materials required..
2	Draw plan of electrical installation scheme for small commercial unit using Auto-cad. Also, determine rating of main and sub- distribution board..
3	Draw plan of electrical installation scheme for small factory / industrial unit using Auto-cad and type andrating of starter, protective relay.
4	Draw plan by using Auto-cad and Estimate the size/ rating of electrical installation system for HT (11kV) scheme..
5	Draw plan of electrical service installation scheme for LT (415V) 7 line connection using Auto-cad. Prepare the list material required.
6	Design public lighting installation scheme and Draw plan for the designed lighting scheme using Auto-cad
7	Prepare tender documents, quotations, and bills for specified work.

- **Name of Lab: Measurement Lab**

Subject: Electrical and electronic measurement	
1	Identity fy symbol,dial type,accuracy
2	Identify PMMC,MI
3	Troubleshoot PMMC,MI
4	Measuring AC,DC quantities
5	Extend renge of ammeter,voltmeter using CT & PT
6	Clamp on meter
7	Electrodynamometer wattmeter
8	Troubleshoot in electrodynamometer wattmeter
9	Two wattmeter method
10	Calibrate energy meter
11	Troubleshoot in energy meter
12	Use digital multimeter
13	Use bridge for low resistance method
14	Use bridge for medium and high resistance method
15	Use meggar for insulation measurement
16	Use earth tester for earth resistance testing
17	Single wattmetrer for active power measurement
18	Use CRO for measurement of supply frequency
19	Use TRI-Vector meter for measuremnt of KW
Subject: Industrial measurement	
1	Linear displacement measurement using potentiometer
2	Angular displacement measurement using potentiometer

3	Displacement measurement using LVDT
4	Weights measurement using strain guage
5	Pressure measurement using bourden tube
6	Dead weight tester
7	Assemble/dismantle digital pressure measurement sys
8	Flow measurement using orifice plate
9	Flow measurement using venturi tube
10	Flow measurement using rotmeter
11	Levele measurement using capcitance transducer
12	Levele measurement using air purge method
13	Measurement of temperature measurement using RTD
14	Measurement of temperature measurement using thermocouple
15	Calibration of RTD
16	Calibration of thermocouple

- **Profile Of Faculty For Each Faculty Gives A Page Covering With Passport Size Photograph:**

Name of Teaching Staff	Mrs.Patil Pooja Sarjerao	
Date of Birth	14/01/1963	
Unique id	395169447965	
Education Qualification	B.E Electrical	
Work Experience a Teaching	34 Years	
Research	-	
Industry	-	
others	-	
Area of Specialization	Electrical Machines	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	AC Machines DC machines and Transformers	
Research guidance a No. of papers published in National/ International Journals/ Conferences		
Master	-	
Ph.D.	-	
Projects Carried out	-	
Patents	-	
Technology Transfer	-	
Research Publications	-	
No of Books published with details	-	

Name of Teaching Staff	Mr. Bhujbal Mahesh Dilip	
Date of Birth	08/11/1987	
Unique id	457455345633	
Education Qualification	B.E Electrical	
Work Experience a Teaching	09 Years	
Research	-	
Industry	1 Year	
others	-	
Area of Specialization	Electrical Machines, Electrical Circuits and Networks, Electrical Power System	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	Energy conservation and Audit Switchgear and Protection Testing and maintenance of electrical machines Electrical power transmission and distribution	
Research guidance a No. of papers published in National/ International Journals/ Conferences		
Master	Appeared for M.E power System	
Ph.D.	-	
Projects Carried out	-	
Patents	-	
Technology Transfer	-	
Research Publications	-	
No of Books published with details	-	

Name of Teaching Staff	Mr.Bhongale Rajeev Sopan	
Date of Birth	27/04/1986	
Unique id	863722088931	
Education Qualification	B.E. Electronics	
Work Experience a Teaching	10 Years	
Research	No	
Industry	No	
others	--	
Area of Specialization	Electrical power generation	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	Electrical power generation, electrical material and wiring, Elements of electrical engineering, Electrical estimation and contracting, Modern Electric Traction.	
Research guidance a No. of papers published in National/ International	--	

Journals/ Conferences		
Master	Appeared	
Ph.D.	--	
Projects Carried out	--	
Patents	--	
Technology Transfer	--	
Research Publications	--	
No of Books published with details	--	

Name of Teaching Staff	Mr.Bhoasle Vishal Balasaheb	
Date of Birth	15/03/1988	
Unique id	630850874076	
Education Qualification	M.E Electronics	
Work Experience a Teaching	9 Years	
Research	-	
Industry	1 Year	
others	-	
Area of Specialization	Signal Processing	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	Power electronics Elements of electronics Digital systems and microcontroller Electrical measurements	
Research guidance a No. of papers published in National/ International Journals/ Conferences	02	
Master	M.E Signal Processing	
Ph.D.	-	
Projects Carried out	-	
Patents	-	
Technology Transfer	-	
Research Publications	02	
No of Books published with details	-	

Name of Teaching Staff	Mr.Raut Yogeshkumar Balkrishna	
Date of Birth	15/06/1989	
Unique id	596878708911	
Education Qualification	B.E Electrical	
Work Experience a Teaching	8 Years	
Research	-	
Industry	-	
others	-	
Area of Specialization	Control System, Electrical Machines,	

	Electrical Circuits and Networks	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	Electrical Circuits and Networks Utilization of Electrical energy Illumination and electrification of Buildings Fundamentals of Electrical Engineering	
Research guidance a No. of papers published in National/ International Journals/ Conferences	3 Papers	
Master	Appeared for M.E Control System	
Ph.D.	-	
Projects Carried out	-	
Patents	-	
Technology Transfer	-	
Research Publications	2 Papers published in international journals and 1 in international conference	
No of Books published with details	-	

Name of Teaching Staff	Mr.Borate Achyut Dashrath	
Date of Birth	10/10/1986	
Unique id	990564379935	
Education Qualification	B.E Electrical	
Work Experience a Teaching	05 Years	
Research	-	
Industry	1 Year	
others	-	
Area of Specialization	Electrical Measurements and instrumentation	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	Electrical and Electronic measurements Industrial Instrumentation Basic electrical and electronics Management	
Research guidance a No. of papers published in National/ International Journals/ Conferences		
Master	Appeared for M.E power System	
Ph.D.	-	
Projects Carried out		
Patents	-	
Technology Transfer	-	
Research Publications	-	
No of Books published with details	-	

Name of Teaching Staff	Miss.Salunkhe Supriya Sanjay	
Date of Birth	08/05/1995	
Unique id	684779734334	
Education Qualification	B.E Electrical	
Work Experience a Teaching	0.5 Years	
Research	-	
Industry		
others	-	
Area of Specialization	Electrical	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	Electrical Substation practices	
Research guidance a No. of papers published in National/ International Journals/ Conferences		
Master	-	
Ph.D.	-	
Projects Carried out	-	
Patents	-	
Technology Transfer	-	
Research Publications	-	
No of Books published with details	-	

Name of Teaching Staff	Miss. Mane Aparna Chandrashekhar	
Date of Birth	10/03/1994	
Unique id	329620983294	
Education Qualification	B.E Electrical	
Work Experience a Teaching	0.5 Years	
Research	-	
Industry		
others	-	
Area of Specialization	Electrical	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	Electrical Machines and Transformers	
Research guidance a No. of papers published in National/ International Journals/ Conferences	-	
Master	-	
Ph.D.	-	

Projects Carried out	-	
Patents	-	
Technology Transfer	-	
Research Publications	-	
No of Books published with details	-	

- **Time Table –2019-2020 (Odd semester) :**

CLASS: - SYEE/TYEE

DAY	CLASS	10.30-11.30	11.30-12.30	12.30 -1.15	1.15-2.15	2.15-3.15		3.30-4.30	4.30-5.30
MON	SYEE	ECI (RYB)	EEM (ADB)		FPE (VBB)	EMW (RSB)		FPE-A,(VBB) EMWB(RSB), EEM-C(ADB)	
	TYEE	MAN (VBB)	SAP (MDB)		IEB (RYB)	IAM (ADB)		IAM-A(PSP) , IEB-B(RYB)	
TUE	SYEE	ECI (RYB)	EPG (RSB)		FPE (VBB)	EEM (ADB)		EMW-A,(RSB) EEM-B(ADB), EMW-C(ACD)	
	TYEE	MAN (VBB)	SAP (MDB)		IAM (PSP)	ECA (MDB)		IEB-A(RYB), SAP-B(MDB)	
WED	SYEE	EMW (RSB)	FPE (VBB)	B	EPG (RSB)	ECI (T) (RYB)		EEM-A(ADB), EPG-B(RSB) ECI-C(RYB)	
	TYEE	EDE (ACD)	SAP (MDB)	R	IAM (PSP)	MAN (VBB)		ECA-A(MDB) IAM-B(PSP)	
THU	SYEE	EEM (ADB)	EPG (RSB)	E	EMW-A(RSB) ECI-B(RYB) FPE-C(VBB)			ECI (RYB)	ECI (RYB)
	TYEE	IEB (RYB)	MAN (VBB)	A K	IAM (PSP)	ECA (MDB)		EDE-A(ACD) ECA-B(MDB)	
FRI	SYEE	EMW (MDB)	EEM (ADB)		EPG (RSB)	FPE (VBB)		ECI- A(RYB) EMW- B(RSB) EEM-C(ADB)	
	TYEE	EDE (ACD)	IEB (RYB)		IAM (PSP)	ECA (MDB)		EDE-B(ACD) , SAP-A(MDB)	
SAT	SYEE	ECI(T) (RYB)	EMW (RSB)		EPG-A(RSB) FPE-B(VBB) EMW-C(RSB)				
	TYEE	IAM (PSP)	SAP (MDB)		CPP-A(MDB) CPP-B(PSP)				

SUBJECT ABRIVATIONS

Sr No	SYEE(AF-07)		Sr No	TYEE(AF-08)	
	Name of Subject	Abbreviation		Name of Subject	Abbreviation
1	Electrical Circuits	ECI (RYB)	1	Management	MAN (VBB)
2	Fundamental Of Power Electronic	FPE (VBB)	2	Industrial AC Machines	IAM (PSP)
3	Electrical & Electronic Measurement	EEM (ADB)	3	Switch And Protection	SAP (MDB)
4	Electrical Power Generation	EPG (RSB)	4	Energy Conservation And Audit	ECA (MDB)
5	Electrical Material &Wirings	EMW (RSB)	5	Illumination And	IEB

				Electrification Of Buildings	(RYB)
			6	Entrepreneurship Development	EDE (ACD)
			7	Industrial Training	ITR (MDB)
			8	Capstone Project Planning	CPP

Name of faculty	Abbreviation
Mrs.Patil P.S.	(PSP)
Mr.Bhujbal M.D.	(MDB)
Mr.Bhongle R.S.	(RSB)
Mr.Bhosale V.B	(VBB)
Mr.Raut Y.B.	(RYB)
Mr.Borate A.D.	(ADB)
Mr.dandekar A.C.	(ACD)

➢ Time Table - 2019-2020 (Even Semester)

Class: - SYEE/TYEE

DAY	CLASS	10.30-11.30	11.30-12.30	12.30-1.15	1.15-2.15	2.15-3.15	3.15 - 3.30	3.30-4.30	4.30-5.30
MON	SYEE	IME (ADB)	DEM (VBB)	B R E A K	CNE (SSS)	EPT (MDB)	B R E A K	DEM-A(AF-04), (VBB) IME-B(ADB)	
	TYEE	ESP	MEE		ETE	UEE		ESP-A(AF-03), CPE-B(AG-15)	
TUE	SYEE	EPT(T)	IME (ADB)		CNE(T) (SSS)	CNE (SSS)		DEM-C(AF-04) (VBB)	
	TYEE	ESP	UEE		ETE	MEE		ESP-B(AF-03) CPE-C(SSS)	
WED	SYEE	CNE (SSS)	EPT (T) (MDB)		DEM (VBB)	EST (ACM)		IME	
	TYEE	EEC	EEC		CPE-A(AG-15), EEC-B(AF-04)			UEE-A(AG-14), CPE-B(AG-15)	
THU	SYEE	CNE-A(SSS) EDC-B(ACM) EDC-C(ADB)			EDC-A(ACM) CNE-B((SSS) EDC-C(ADB)			DEM (VBB)	EPT
	TYEE	UEE	EEC		MEE-A(AG-15), UEE-B(AG-14)			EEC-A(AF-04) CPE-C(AG-15)	
FRI	SYEE	EPT (MDB)	CNE(T) (SSS)		EDC-AACM) DEM-B(AF-04) (VBB) IME-C(ADB)			DEM	EST
	TYEE	ETE	ESP		CPE-A, MEE-B(AG-15)				
SAT	SYEE	CNE (SSS)	EST (ACM)		IME-A (ADB) EDC-B(C.C.) CNE-C(AG-15) (SSS)				
	TYEE	UEE	MEE						

SUBJECT ABRIVATIONS

SR NO	SYEE(AF-07)		SR NO	TYEE(AF-08)	
	Name Of Subject	Abbreviation		Name Of Subject	Abbreviation
1	Electric Motor And Transformers	CNE (SSS)	1	Maintenance Of Electric Equipment	MEE (MDB)
2	Electrical Power Transmission And Distribution	EPT (MDB)	2	Electric Substation Practices	ESP (ACM)
3	Industrial Measurement	IME (ADB)	3	Electrical Estimation And Contracting	EEC (RSB)
4	Digital Electronics &Microcontroller Application	DEM (VBB)	4	Utilization Of Electrical Energy	UEE (YBR)
5	Enviornmental Studies	EST (ACM)	5	Emerging Trend In Electrical Engineering	ETE (ADB)
6	Electrical Drawing And CAD	EDC (ADB)	6	Capstone Project	CPE (SSS) (MDB) (ADB)

Name of faculty	Abbreviation
Mr.Bhujbal M.D.	(MDB)
Mr.Bhongle R.S.	(RSB)
Mr.Bhosale V.B	(VBB)
Mr.Raut Y.B.	(RYB)
Mr.Borate A.D.	(ADB)
Miss Mane A.C.	(ACM)
Miss.Salunkhe S.S.	(SSS)

- **Teaching Load:**

Load Distribution of Electrical Engineering Department:

- **Odd Semester Academic Year 2019-20**

Sr.No	Name Of Faculty	Class	Subject	Load L+T+P	Total Load
01	Mrs. Patil P.S.	TYEE	Industrial Ac Machine	03+00+04=07	**09**
		TYEE	Capstone Project Planning	00+00+02=02	
02	Mr.Bhujbal M.D	TYEE	Switch Gear & Protection	04+00+04=08	**17**
		TYEE	Energy Conservation And Audi	03+00+04=07	
		TYEE	Capstone Project Planning	00+00+02=02	
03	Mr.Bhongale R.S.	SYEE	Electrical Power Generation	04+00+06=10	**19**
		SYEE	Electrical Material And Wiring	03+00+06=09	

04	Mr.Bhosale V.B.	TYEE	Mangement	03+00+00=03	**19**
		SYEE	Fundamental Of Power Electronics	04+00+06=10	
		FYEE	Fundamental Of Electrical	02+00+04=06	
05	Mr.Raut Y.B.	TYEE	Illumination And Electrification Of Building	03+00+04=07	**19**
		SYEE	Electrical Circuit	04+02+06=12	
06	Mr.Borate A.D.	SYEE	Electrical And Electronic Measurement	04+00+06=10	**19**
		SYME	Basic Electrical And Electronics	04+00+05=09	
07	Mr.Dandekar A.C.	TYCO	Industrial Ac Machine	03+00+00=03	**15**
		TYEE	Entrepreneurship Development	02+00+04=06	
		SYEE	Electrical Material And Wiring	00+00+06=06	
Total					**117**

- **Even Semester Academic Year 2019-20**

Sr.No	Name Of Faculty	Class	Subject	Load L+T+P	Total Load
01	Mrs. Patil P.S.	SYEE	Electric Motor And Transformers	00+00+06=06	**08**
		TYEE	Capstone Project	00+00+02=02	
02	Mr.Bhujbal M.D	TYEE	Maintenance Of Electric Equipment	03+00+04=07	**14**
		TYEE	Capstone Project	00+00+02=02	
		SYEE	Electrical Power Transmission And Distribution	03+02+00=05	
03	Mr.Bhongale R.S.	TYEE	Electrical Estimation And Contracting	03+00+04=07	**17**
		FYCO	Elements Of Electronic Engineering	04+00+06=10	
04	Mr.Bhosale V.B.	SYEE	Digital Electronics &Microcontroller Application	04+00+06=10	**17**
		FYEE	Elements Of Electronics	03+00+04=07	
05	Mr.Raut Y.B.	FYEE	Fundamental Of Electrical Engg.	04+02+04=10	**18**
		TYEE	Utilization Of Electrical Energy	04+00+04=08	

06	Mr. Borate A.D.	TYEE	Emerging Trend In Electrical Engineering	03+00+00=03	**18**
		SYEE	Industrial Measurement	03+00+06=09	
		SYEE	Electrical Drawing And CAD	00+00+04=04	
		TYEE	Capstone Project	00+00+02=02	
07	Miss.Salunkhe S.S.	TYEE	Capstone Project	00+00+08=08	**20**
		SYEE	Electric Motor And Transformers	06+00+06=12	
08	Miss.Mane A.C.	TYEE	Electric Substation Practices	03+00+04=07	**18**
		SYEE	Enviourment Studies	03+00+00=03	
		SYEE	Electrical Drawing And CAD	00+00+08=08	
Total					**122**

- **Internal Contentious evaluation system & Place:**
  As per CIAN norms by MSBTE carried in the institute.

- **Best Practices Adopted if Any:**
  1. Students are motivated to undertake Industry Sponsored Projects and Application Oriented Projects.
  2. Faculty guardian scheme is implemented.
  3. Continuous assignments and question paper solution completion work is given to students.
  4. Industry expert lectures, EDP programs, Personality development program, Visits and vocational Industrial trainings are arranged regularly.
  5. Students are motivated to participate in Technical Paper Presentation, Quiz Competition & Project Competition in and outside Institutes.
  6. Parent meetings are organized every term.

Rayat Shikhshan Sanstha's

Karmaveer Bhaurao Patil Polytechnic, Satara

Department of Electronics and Telecommunication

Mandatory Disclosure.

For each Programme the following details are to be given:

- Name :- **Electronics and Telecommunication**
- Numbers of seats:-**180**
- Duration:- **3 years**
- Cut off marks/rank of admission during the last three years

Year	**2019-20**	**2018-19**	**2017-18**
Cutoff Marks	**Open-50.00%**	**Open-73.80%** **NT-65.20%** **SC-82.20%**	**Open-71.40%** **SC-58.41%**

Faculty

- Branch wise list Faculty members:

Sr.No	Name of Faculty	Designation
1	Jagtap J.B.	In charge HOD
2	Gade M.R.	Lecturer
3	Nevase A.M.	Lecturer
4	Nalage V.V.	Lecturer
5	Salunkhe M.S.	Lecturer
6	Barge S.R.	Lecturer
7	Yadav T.D.	Lab Assistant

- Permanent Faculty: 01
- Adjunct Faculty :-05
- Permanent Faculty: Student Ratio :- 1:30
- Number of Faculty employed and left during the last three years :- 03

• Internal Continuous Evaluation System and place

1. Student Feedback
2. Suggestion box
3.

20. Best Practices adopted, if any: -

1. Half yearly Newsletter in the month of September and March
2. Hands-on Workshop for Student
3. Remedial Lectures.
4. Suggestion Box

Laboratory and Workshop

• List of Major Equipment/Facilities in each Laboratory/ Workshop

SN	Name of the Equipments
1	Microwave test bench NV 9004
2	1.5 – 225 MHz, FM/AM signal generator, Model no 2023, Sr No.11 93/3
3	1.5 – 225 MHz, FM/AM signal generator, Model no 2023, Sr No.11 93/3

List of Experimental Setup in each Laboratory/ Workshop

Second Semester

Sr. No	Name of Experiment
Basic Electronics (22216)	
1	Test the performance of PN junction diode .
2	Test the performance of zener diode.
3	Test the performance of photo diode by varying the light intensity
4	Build/test half wave rectifier on breadboard
5	Build/test half wave rectifier on breadboard with filter- Part I/Part II
6	Build/ test full wave rectifier on breadboard using two diodes.
7	Build/ test full wave bridge rectifier on breadboard .
8	Use LC filter with full wave rectifier to measure ripple factor.
9	Use π filter with bridge rectifier to measure ripple factor.
10	Assemble positive clipper circuit on breadboard and test the performances.
11	Build the combinational Clipper on breadboard and test the performance. - Part I
12	Build positive clamper on breadboard and test the performance. - Part I/Part II
13	Build Negative clamper on breadboard test the performance
14	Identify the terminals of the PNP and NPN transistor using different methods . - Part I/Part II
15	Find specifications of a given transistor using data sheets.
16	Test the performance of BJT working in CE mode
17	Test the performance of BJT working in CB mode
18	Test the assembled BJT voltage divider bias circuit for given input. - Part I/Part II
19	Test the performance of FET drain characteristics , transfer characteristics and calculate trans-conductance. - Part I /Part II
20	Build / test zener voltage regulator for the given voltage
21	Test the performance of transistorized series voltage regulator for the given load regulation.
22	Test the performance of transistorized shunt voltage regulator for the given load regulation
23	Test the various blocks of regulated dc power supply
24	Find out faults at different stages of regulated dc power supply.
25	Trouble shoot given DC regulated power supply. - Part I/Part II
C programming Language (22218)	
1	WCP to display formatted o/p
2	WCP using logical & Bitwise operator
3	Evaluate scientific expressions
4	Evaluate scientific problems
5	Implement decision making
6	Implement decision control (if)
7	Implement decision control (if-else)
8	Implement switch-case control

9	Implement loop control (for)
10	Implement loop control
11	Print Result Sheet
12	Processing elements of Array
13	WCP using array
14	WCP using multidimensional array
15	Perform operations in string
16	Implement string
17	WCP to perform library function
18	WCP for user defined function
19	WCP using Pointer
20	Perform operation on array using pointer
21	WCP for call by function & call by reference
22	Implement concept of Pointer
23	Implement Structure in C
24	Implement operations carried on Structure

Third Semester

Sr. No	Name of Experiment
Applied Electronics (22329)	
1	Build/ test the performance of single stage low power common emitter amplifier.
2	Simulate/test out put wave formof single stage common emitter amplifier(CE) using simuation software
3	simulate/test the output waveform of of single stage common source FET amplifier using simulation software.
4	Build/test the performance of single stage common souce FET amplifier.
5	Build/test the performance of two stage RC coupled common emitter amplifier using transistor..
6	Build/test the performance of two stage direct coupled amplifier using transistor..
7	Build/test the performance pf transormer coupled amplifier(Part I)
8	Build/test the performance pf transormer coupled amplifier(Part II)
9	Build/test the performance of single tuned amplifier using transistor.
10	Build/test the performance of double tuned common emitter amplifier(Part I)
11	Build/test the performance of double tuned common emitter amplifier(Part II)
12	Build/test the performance parmeters of single stage class A power amplifier.
13	Build/test the performance parmeters of class B push pull amplifier using transistor.
14	Build/test the performance of audio power amplifier.
15	use transistor to build/test voltage series feedback amplifier parameter with and without feedback.
16	use transistor to build/test voltage shunt feedback amplifier parameter with and without feedback
17	Test the effect of positive and negative feedback on the given amplifier.(part I)
18	Test the effect of positive and negative feedback on the given amplifier.(part II)
19	Build RC phase shift oscillator and measure the genrated frequency using CRO.
20	Build Crystalt oscillator and measure the genrated frequency using CRO.
21	Simulate hartly oscillator using any relevant simulation software
22	Generate a waveform using Millers sweep generator and measure sweep time and retrace time.
23	Simulate dual voltage regulator using IC 78XX and 79XX for the specified regulated output voltage
24	Build dual voltage regulator for the spcified regulated output voltage.
25	Build low voltage regulator using IC 723 for the given regulated output voltage (2v to 7v)
26	Build high voltage regulator using IC 723 for the given regulated output voltage (2v to 7v)
27	Test the performance parameters of voltage regulator using IC LM 317

Sr. No	Name of Experiment
Digital Techniques (22320)	
1	Introduction to Laboratory
2	Test the functionality of Logic Gates & Test the functionality of Universal Logic Gates
3	Construct basic gates using universal gate
4	Verify De-Morgan's Theorems.
5	Design Half adder and Half subtrator using Boolean Expressions.
6	Design Full adder and Full subtrator.
7	Construct and test BCD to 7 Segment decoder using IC 7447/7448.
8	Verify operation of Multiplexer (MUX).
9	Functionality of Demultuplexer (DEMUX).
10	Test functionality of RS flip flop using NAND gate.
11	Test functionality of MS JK Flip flop.
12	Test the functionality of D and T flip flop.
13	4 Bit ripple counter.
14	Decade counter using IC 7490.
15	4 Bit Universal Shift Register.
16	R-2R resistive network.

Sr. No	Name of Experiment
Principles of Electronic Communication (22334)	
1	Use simple wires,switches and LEDs to establish simplex and half duplex communication link
2	
3	Use simple wires,switches and LEDs to establish full duplex communication link
4	
5	Observe the AM modulated waveforms genrated for diffrent carrier frequencies.
6	
7	Genrate AM wave and measureits modulation index.
8	
9	use any simulation software to genrate AM wave.
10	
11	Use voltage controlled oscillator to genrate FM wave and measure the frequency deviation.
12	
13	Genrate FM wave and measure its modulation index.
14	
15	Use any simulation sofware to genrate FM wave.

Fourth Semester

Sr.No	Name of Experiment
Basic Power Electronics (22427)	
1	Measure hoding current (IH)and latching current (IL) of a given SCR from its V-I characteristics curve.
2	Test the performance of given IGBT.
3	Determine breakover voltage of given DIAC from its V-I curve.
4	Test the effects of variation of resistor, capacitor in R and RC triggering circuits of firing angle of SCR.
5	Test the effects of variation of R on firing angle in synchrinized UJT triggering circuits.
6	Test the performance of Class C-Complimentary type commutation circuit
7	Test the performance of half wave controlled rectifier with R,RL load and measure load voltage.
8	Determine firing angle and output voltage of 3-phase half wave controlled rectifire using Delta-star transformer.

9	Test the performance of full wave controlled rectifier with R,RL load and measure load voltage.
10	Find output voltages of step-up chopper for different values of duty cycles.
11	Test parallel inverter to the measure frequency and output voltages.
12	Measure output voltages of step-down chopper for different values of duty cycles. Part I
13	Measure output voltages of step-down chopper for different values of duty cycles. Part II
14	Build/Test SMPS for mobile phone charging. Part I
15	Build/Test SMPS for mobile phone charging. Part II
16	Build Light dimmer circuit using TRIAc test the effect of resistance variation on intensity of lamp.

Sr. No	**Name of Experiment**
Linear Integrated Circuits (22423)	
1	Use relevant instruments to measure the differential input resistance, input offset voltage, output offset voltage and common mode rejection ratio (CMRR) of IC 741.
2	Measure the Output voltage Swing parameter of Op-amp IC 741
3	Use relevant instruments to determine gain of the Inverting amplifier and Non-inverting amplifier consist of IC 741.
4	Build/Test adder and subtractor circuit consists of IC 741.
5	Build/Test Integrator circuit consists of IC 741.
6	Build/Test Differentiator circuit consists of IC 741.
7	Build/Test Voltage to Current converter and Current to voltage converter circuit consists of IC 741
8	Build/Test comparator circuit consists of IC 741 as Zero Crossing detector and active positive peak detector.
9	Build/Test Instrumentation amplifier circuit using IC LM324.
10	Use relevant instruments to measure the bandwidth and cut off frequency of the given first order low pass Butterworth filter.
11	Use relevant instruments to measure the bandwidth and cut off frequency of the given first order high pass Butterworth filter.
12	Build/Test Monostable Multivibrator using IC 555 for the given specifications.
13	Use relevant instruments to measure the bandwidth and cut off frequency of the given notch filter.
14	Use relevant instruments to measure the frequency of oscillation of the given RC Phase shift oscillator circuit using IC 741.
15	Measure the frequency of Oscillation of the given wein bridge oscillator circuit using IC 741.
16	Build/Test Astable Multivibrator using IC 555 for the given specifications.

Sr. No	**Name of Experiment**
Maintenance of Electronics Equipments (22036)	
1	Create new file using given EDA tool to develop the layout of regulated power supply circuit.
2	Measure dc current and dc voltage of the given circuit using Node Analysis through EDA simulation tool.
3	Simulate/Test half wave rectifier circuit using EDA tool.
4	Measure AC current and voltage of RL, RC and RLC in an ac circuit with EDA tool.
5	Use EDA tool to draw and simulate schematic circuit of full wave rectifiers.
6	Use EDA tool to simulate two stage RC coupled/transformer coupled/ dc coupled amplifier.
7	Use EDA tool to draw and simulate given circuit of inverting/non-inverting amplifier using IC 741.
8	Use EDA tool to simulate 3 bit adder to match truth table.
9	Use EDA tool to simulate 4:1 multiplexer, 1:8 demultiplexer to match the truth table.
10	Use EDA tool to simulate BCD to Seven segment decoder.
11	Develop the PCB of Power Supply Circuit using layout.

12	Identify/Test various ICs (Analog & Digial) using IC Tester (Analog & Digital).
13	Assemble various parts of computer system and install operating system, application software and antivirus on a computer system.
14	Troubleshoot the data projector.
15	Troubleshoot the circuit breaker (MCB & ELCB).
16	Install DTH receiver (Indoor & Outdoor Unit).
17	Troubleshoot the regulated power supply circuit of the given equipment.
18	Troubleshoot the given mixer/grinder with fractional horse power.
19	Troubleshoot the domestic water level controller.
20	Troubleshoot the electronic weighing machine.
21	Troubleshoot the emergency light system.
22	Troubleshoot the photo voltaic solar pannel power system.
23	Prepare the work order for the maintenance of the given equipment.
24	Prepare Bin card for the maintenance of given equipment.
25	Install closed circuit television (CCTV).
26	Install online/offline UPS.
27	Test the performance of the given (fractional horse power) DC Motors.
28	Test the performance of the given Stepper Motor.

Sr. No	**Name of Experiment**
Digital communication system (22428)	
1	To construct the circuit for Generation of hamming code for 4 bits data.
2	To construct the circuit for one bit error correction using hamming code.
3	Generate:(a) Unipolar -NRZ, RZ b)Bipolar-NRZ(AMI),Manchester codes for given data. (b) Bipolar- NRZ (AMI), Manchester for gi vcn data.
4	Observe the effect of average DC value and bit duration for unipolar non return zero(UPNRZ) and polar return zero(PRZ).
5	Detect error by VRC techniques using relevant simulation tool.
6	Detect error by LRC techniques using relevant simulation tool.
7	Test the performance of natural and flat top sampling circuit.
8	Test the performance of sampling circuit for variation in sampling frequency.
9	Test the performance of the Pulse Code modulator/demodulator circuits.
10	Test the performance of the delta modulator/demodulator circuits.
11	Test the performance of the Adaptive delta modulator/demodulator circuits.
12	Test the performance of the differential pulse code modulator(DPCM) modulator/demodulator circuits.
13	Write a program using a relevant simulation tool to observe sampling process for sampling rate less than,equal to and greater than the Nyquist rate.
14	Test the performance of the Amplitude Shift keying(ASK) modulator/demodulator circuits.
15	Test the performance of the Amplitude Shift keying(ASK) using relevant simulation software.
16	Test the performance of the Binary Phase Shift keying(BPSK) modulator and demodulator circuits.
17	Test the performance of Frequency Shift keying(FSK) modulator and demodulator circuits.
18	Test the performance of the Differential Shift keying(DPSK) modulator/demodulator circuits.
19	Test the performance of Quadrature Phase Shift keying(QPSK) modulator and demodulator circuits.
20	Test the performance of Quadrature Amplitude modulation(QAM) modulator and demodulator circuits.
21	Test the performance for 4-input time division multiplexing circuit.
22	Test the performance for 2-input frequency division multiplexing(FDM) circuit.
23	Generate a TDM signal using relevant simulation software.
24	Generate a FDM signal using relevant simulation software.
25	Generate PN sequence for given maximum length.
26	Generate PN sequence for given maximum length using relevant simulation software.
27	Generate two channel CDMA_DSSS signal and demodulate it.
28	Generate two channel CDMA_FHSS signal and demodulate it.

Sr. No	Name of Experiment
Microcontroller and Applications (22426)	
1	Identify blocks of 8051 Development Board
2	WAP with different Addressing Modes
3	WAP for Arithmatic Operations
4	WAP for Data Transfer
5	WAP for Smallest/Largest
6	WAP for Ascending/Descending Order
7	WAP for Delay Using Register (S/W-Delay)
8	WAP for Serial Transfer
9	WAP to to turn LED ON/OFF
10	WAP for Square Wave generation (H/W Delay)
11	WAP to display patterns on 4X4 LED Matrix
12	WAP to Display data on 7-Segment Display
13	WAP to turn Realy ON/OFF
14	WAP to display data on LCD
15	WAP to display key pressed
16	WAP to read ADC
17	WAP to generate pattern via DAC
18	WAP to RUN Stepper Motor

Fifth Semester

Sr. No	Name of Experiment
Microwave and Radar (22535)	
1	Use the frequency meter with microwave test bench setup to determine the frequency and wavelength of waveguide for TE10 mode
2	Use freeware/open source simulation tools to perform Practicals related to microwave waveguide
3	Use the microwave test bench setup to ensure power division in microwave tees E-plane, H-plane and E-H plane
4	Determine coupling factor and insertion loss for the given circulator
5	Measure VSWR for the given Microwave load.
6	Measure attenuation of the given attenuator.
7	Determine the directivity, insertion loss and coupling factor for the given Multi- Hole Directional Coupler.
8	Use given microwave test bench setup to measure the gain of the horn antenna.
9	Use the microwave test bench setup to test the performance of the given Reflex Klystron tube.
10	Test the performance parameter of the given type of microwave active components on freeware/open source simulation tools.
11	Test the performance of Gunn Diode for the following aspects i. V-1 characteristics ii. Output power and frequency as a function of voltage
12	Use Doppler RADAR to detect the maximum range
13	Determine the velocity of the moving object with the help of RADAR range.
14	Use RADAR system to measure the distance traveled by any object.
15	Use freeware/open source simulation tools to performance Practical related to RADAR communication

Sr. No	Name of Experiment
Control Systems & PLC (22531)	
1	Use potentiometer as error detector.
2	Determine error of angular position of DC servo system.

3	Identify and test different parts of PLC.
4	Develop ladder diagram to test the functionality of the logic gates.
5	Develop ladder diagram to test Demorgan's Theorem
6	Develop ladder diagram for Adder and Subtractor by using PLC.
7	Develop ladder diagram for ON-OFF control of lamp using Timer and counter.
8	Develop ladder diagram for traffic light control system.
9	Develop ladder diagram for stepper motor control.
10	Develop ladder diagram for temperature controller.
11	Test the step response of R-C (First order) Circuit,
12	Test the functionality of temperature control with on-off controller.
13	Use PI controller to control temperature of given process.
14	Use PD controller to control temperature of given process.
15	Use PID controller to control temperature of given process.
16	Test the step response of R-L-C (Second order) Circuit.

Sr. No	**Name of Experiment**
Mobile and Wireless Communication (22533)	
1	Identify different sections & components of mobile phone such as ringer section, dialer section, receiver a7 transmitter section, camera, microphone, speakers, flash light
2	Identify the inbuilt sensorsof mobile phone & test their performance
3	Perform cold test of different sections of mobile phone unnit
4	test the supply of the transmitter/ receiver sections of mobile phone unit
5	Test the battery charger section & power management unit of mobile phone unit
6	Test he LCD & SIM section of mobile phone unit
7	Test the user interface section of mobile phone unit
8	Troubleshoot the Battery charger, LCD & SIM card section of mobile phone unit
9	Troubleshoot the speaker , ringer, microphone, vibrator problem of mobile phone unit
10	Determine the coverage area of a split cell which has radius half the radius of original cell
11	Determine the channel capacity of a cellular system service area compraised of 4/7/12 microcells with 8/12/16 channels per microcell
12	Determine the channel capacity if each microcell in the above lab exercise split into 4 minicells & each minicell further split into 4 microcell
13	For the 7-cell cluster & 168-voice channels cellular system, determine the assignment of voice channel to each cell if Omnidirectional antenna is used at the cell site
14	For the 7-cell cluster & 168-voice channels cellular system, determine the assignment of voice channel to each sector if 3 sector 120 degree & 6 sector 60 degree antenna is used at the cell site
15	Perform installation, registration, activation & authentication of mobile application on mobile handset
16	Read/ retrieve the contents of SIM card using relevant software
17	Execute call control commands using relevant software
18	Execute Network service commands using relevant software
19	Execute Security commands using relevant software
20	Execute Phone book commands using relevant software
21	Execute short message commands using relevant software
22	Execute data commands using relevant software
23	Execute specific AT commands using relevant software
24	Execute AT commands for call control in 3G/4G network
25	Execute AT commands for Video call & phone camera related commaands in 3G/ 4G network
26	Execute AT commands for Microphone & loudspeaker volum control related commaands in 3G/ 4G network
27	Build a Personal Area Network of mobile devices usng bluetooth
28	Test the hard reset function, hotspot & other networking functions of the given smart phone
29	Identify different sections & components of mobile phone such as ringer section, dialer section, receiver a7 transmitter section, camera, microphone, speakers, flash light

Sixth Semester

Sr. No	Name of Experiment
Optical Networks and Satellite Communication (22647)	
1	Identify various layers and parts of an optical fiber cable.
2	Test the performance of Pulse width modulator and demodulator (PWM) where optical fiber cable is used as transmission media
3	Test the performance of the given photo-diode (Detector) use LED as an optical source.
4	Test performance of given photo-diode (Detector) use LASER as optical source
5	Calculate bandwidth of optical fiber for Analog Link
6	Observe the change in power level of optical fiber due to cleaning effect in the fiber.
7	Calculate Numerical Aperture (NA) and acceptance angle for the given optical fiber cable.
8	Connect the given Optic cable with relevant optical connector and test the performance of cable.
9	Measure attenuation losses for the given length of optical fiber cable.
10	Measure bending losses of the given optical fiber optic cable.
11	Test the performance of audio satellite link for the specified uplink and downlink frequency.
12	Develop a program using a relevant simulation tool to calculate the time period of a satellite for the given velocity and altitude based on Kepler's third law.
13	Detect the satellite link fail operations and re-establish the link.
14	Establish a link to transmit and receive three separate signals (audio, video, tone) simultaneously through satellite link.

Sr. No	Name of Experiment
VLSI with VHDL (22062)	
1	Identify internal block and pin configuration of FPGA & CPLD using datasheet.
2	Develop flow chart of CMOS IC fabrication using relevant website.
3	Install EDA tool (VHDL) for VLSI application.
4	Implement any two gates using Data flow and Behavioral model.
5	Implement Half /full adder / subtractor using FPGA
6	Implement 8:1 multiplexer using FPGA
7	Implement 1:8 Demultiplexer using FPGA
8	Implement T& D-flip-flop using FPGA
9	Implement 2:4 Decoder using FPGA
10	Implement 8:3 Encoder using FPGA
11	Implement up-counter using FPGA
12	Implement synchronous counter using FPGA
13	Implement binary to gray code converter using FPGA.
14	Build /Test DAC and ADC using FPGA.
15	Implement Stepper motor controller using FPGA.
16	Implement four Bit ALU or sequence generator using FPGA.

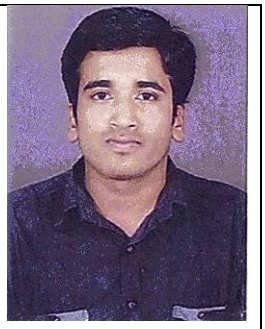
Teaching Learning Process

- Curriculum and syllabus for each of the Programme as approved by the University
- Academic Calendar of the University
- Academic Time Table with the name of the Faculty members handling the Course

Name of Teaching Staff	**Mr. Jagtap Jayawant Bhimrao**	
Date of Birth	**14/11/1963**	
Unique id	**464389167208**	
Education Qualification	**M.E. Instrumentation**	
Work Experience a Teaching	**30 year**	
Research	**Nil**	
Industry	**Nil**	
others	**Nil**	
Area of Specialization	**Instrumentation**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**C Programming Language,Electronic Measurement and Instrumentation ,Microcontroller and Applications,Embedded systems**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**2**	
Master	**Instrumentation**	
Ph.D.	**Nil**	
Projects Carried out	**Nil**	
Patents	**Nil**	
Technology Transfer	**Nil**	
Research Publications	**Nil**	
No of Books published with details	**Nil**	

Name of Teaching Staff	**Gade Mangesh Ramesh**	
Date of Birth	**22/07/1985**	
Unique id	**263745003631**	
Education Qualification	**M.E. Electronics and Tele.**	
Work Experience a Teaching	**10 Years**	
Research	**--**	
Industry	**01 Year**	
others	**--**	
Area of Specialization	**Signal Processing**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**Basic Electronics, Applied Electronics, Basic Power Electronics, Microwave and Radar, Optical Network and Satellite Communication.**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**04**	
Master	**Signal Processing**	
Ph.D.	**Nil**	
Projects Carried out	**Nil**	
Patents	**Nil**	
Technology Transfer	**Nil**	
Research Publications	**Nil**	
No of Books published with details	**Nil**	

Name of Teaching Staff	**Nevase Amit Madhukar**	
Date of Birth	**03/01/1989**	
Unique id	**291749840909**	
Education Qualification	**M.E. VLSI & Embedded Systems**	
Work Experience a Teaching	**09 Years**	
Research	**--**	
Industry	**01 Year**	
others	**--**	
Area of Specialization	**VLSI & Embedded Systems**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**Digital Techniques, Control System & PLC, Linear Integrated Circuits, Maintenance of Electronics Equipment's and EDA Tool Practices, VLSI with VHDL, Electronic Engineering Materials**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**02**	
Master	**VLSI & Embedded Systems**	
Ph.D.	**Nil**	
Projects Carried out	**Nil**	
Patents	**Nil**	
Technology Transfer	**Nil**	
Research Publications	**Nil**	
No of Books published with details	**Nil**	

ame of Teaching Staff	**Mr.Nalage Vipul Vijaykumar**	
Date of Birth	**05/11/1993**	
Unique id	**362483435846**	
Education Qualification	**M.E.Electronics & Telecommunication**	
Work Experience a Teaching	**4**	
Research	**--**	
Industry	**--**	
others	**--**	
Area of Specialization	**Electronics**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**Elements of Electrical Engineering, Basic Electronics and Mechatronics,Electric Circuits and Networks, Consumer Electronics , Computer Networking and Data Communication,Management**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**4**	
Master	**Electronics**	
Ph.D.	**Nil**	
Projects Carried out	**Nil**	-
Patents	**Nil**	
Technology Transfer	**Nil**	
Research Publications	**Nil**	
No of Books published with details	**Nil**	

Name of Teaching Staff	**Ms.Salunkhe Madhavi Shrirnag**	
Date of Birth	**21/02/1989**	
Unique id	**827701564417**	
Education Qualification	**M.E. Electronics**	
Work Experience a Teaching	**6 years**	
Research	**Nil**	
Industry	**Nil**	
others	**Nil**	
Area of Specialization	**Electronics**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**Principles of Electronic Communication, Digital Communication , Mobile and Wireless Communication, Emerging trends in Electronics, Entrepreneurship Development, Capstone Project**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**3**	
Master	**Electronics**	
Ph.D.	**Nil**	
Projects Carried out	**Nil**	
Patents	**Nil**	
Technology Transfer	**Nil**	
Research Publications	**Nil**	
No of Books published with details	**Nil**	

Name of Teaching Staff	**Miss. Barge Snehal Ramesh**	
Date of Birth	**15/07/1995**	
Unique id	**865454848352**	
Education Qualification	**B. Tech Electronics and Tele.**	
Work Experience a Teaching	**Nil**	
Research	**Nil**	
Industry	**1 year**	
others	**Nil**	
Area of Specialization	**Nil**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**Elements of Electrical Engineering, Management**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**Nil**	
Master	**Nil**	
Ph.D.	**Nil**	
Projects Carried out	**Nil**	
Patents	**Nil**	
Technology Transfer	**Nil**	
Research Publications	**Nil**	
No of Books published with details	**Nil**	

First Year

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil Polytechnic, Satara.
DEPT. - ELECTRONICS AND TELECOMMUNICATION (EJ)
First Year Electronics & Telecommunication Engineering

TIME TABLE - 2019-2020 W.E.F.: 09/12/2019

DAY	CLASS	09.30-10.30	10.30-11.30	11.30-12.30	12.30-01.15	01.15-02.15	02.15-03.15	03.15-03.30	03.30-04.30	04.30-05.30
MON	FY	CPR (JBJ)	CPR (JBJ)	AME	LUNCH BREAK	AME	EEM (AMN)	TEA BREAK	EEC (VVN)	
TUE	FY		CPR (JBJ)	AME		BEL (MRG)	EEM (AMN)		EEC (VVN)	AME
WED	FY	EEM (AMN)	AME	CPR (JBJ)		EEM (AMN)	EEC (VVN)		CPR (JBJ)	
THU	FY		BEL (MRG)			BEL (MRG)	EEC (VVN)		BCC	
FRI	FY	BEL (MRG)	BEL (MRG)	CPR (JBJ)		CPR (JBJ)			AME	AME*
SAT	FY		BEL (MRG)			BEL (MRG)	EEC (VVN)			

Subject Abbr Code	Subject Name	Class	Name of the Subject In-charge	Name of Laboratory
AME 22210	Applied Mathematics	FYEJ	Miss. Jadhav S. B. (SBJ)/Miss. Yadav V. K. (YVK)	———
EEC 22215	Elements of Electrical Engineering	FYEJ	Mr. Nalage V. V. (VVN)	Electical Department- Machine Lab
BEL 22216	Basic Electronics	FYEJ	Mr. Gade M. R. (MRG)	Electronic Workshop Laboratory (AF-14)
EEM 22217	Electronics Engineering Materials	FYEJ	Mr. Nevase A. M. (AMN)	———
CPR 22218	C Programming Language	FYEJ	Mr. Jagtap J. B. (JBJ)	Computer Laboratory (ENTC Dept) (AF-13)
BCC 22009	Business Communication Using Computers	FYEJ	Mr. Kamble T. P. (TPK)	Langauage Laboratory (BF-11)

Time Table In-Charge

Head of Department (E&TC)

HC Principal

Second Year

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil Polytechnic, Satara.

TIME TABLE - 2019-2020

DEPT. - ELECTRONICS AND TELECOMMUNICATION (EJ)

W.E.F.: 05/12/2019

Second Year Electronics & Telecommunication Engineering

DAY	CLASS	09.30-10.30	10.30-11.30	11.30-12.30	12.30-01.15	01.15-02.15	02.15-03.15	03.15-03.30	03.30-04.30	04.30-05.30
MON	SY		BPE (MRG)		LUNCH BREAK	CEL (VVN)	CEL (VVN)	TEA BREAK	LIC (AMN)	
TUE	SY	BPE (MRG)	LIC (AMN)	LIC (AMN)		DCS (MSS)	DCS (MSS)		MET (AMN)	
WED	SY	MAA (JBJ)	MAA (JBJ)	BPE (MRG)		MAA (JBJ)			CEL (VVN)	
THU	SY	LIC (AMN)	LIC (AMN)	MAA (JBJ)		MAA (JBJ)	DCS (MSS)		MET (AMN)	
FRI	SY	DCS (MSS)	DCS (MSS)	BPE (MRG)		BPE (MRG)	CEL (VVN)		DCS (MSS)	
SAT	SY		LIC (AMN)	MAA (JBJ)		DCS (MSS)				

Subject Abb/ Code	Subject Name	Class	Name of the Subject Incharge	Name of Laboratory
LIC 22423	Linear Integrated Circuits	SYEJ	Mr. Nevase A. M. (AMN)	Analog Electronics Laboratory (AF-15)
CEL 22425	Consumer Electronics	SYEJ	Mr. Nalage V. V. (VVN)	Advance Comm Laboratory (AF-17)
MAA 22426	Microcontroller and Applications	SYEJ	Mr. Jagtap J. B. (JBJ)	Computer Laboratory (ENTC Dept) (AF-13)
BPE 22427	Basic Power Electronics	SYEJ	Mr. Gade M. R. (MRG)	Analog Electronics Laboratory (AF-15)
DCS 22428	Digital Communication Systems	SYEJ	Ms. Salunkhe M. S. (MSS)	Advance Comm Laboratory (AF-17)
MET 22036	Maintenance of Electronics Equipment and EDA Tools Practices	SYEJ	Mr. Nevase A. M. (AMN)	Computer Laboratory (ENTC Dept) (AF-13)

Time Table In-Charge

Head of Department (E&TC)

I/c. Principal

Third Year

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil Polytechnic, Satara.
DEPT. - ELECTRONICS AND TELECOMMUNICATION (EJ)
Third Year Electronics & Telecommunication Engineering

TIME TABLE - 2019-2020

W.E.F.: 09/12/2019

DAY	CLASS	09.30-10.30	10.30-11.30	11.30-12.30	12.30-01.15	01.15-02.15	02.15-03.15	03.15-03.30	03.30-04.30	04.30-05.30
MON	TY	VWV (AMN)	VWV (AMN)	ETE (MSS)	LUNCH BREAK	ONS (MRG)		TEA BREAK	EDE (MSS)	
TUE	TY	ETE (MSS)	ONS (MRG)	ETE (MSS)		MAN (VVN)	CND (VVN)			
WED	TY	EDE (MSS)	CPE (MSS)			ONS (MRG)	ONS (MRG)		CPE (MSS)	
THU	TY	ONS (MRG)	EDE (MSS)	ETE (MSS)		MAN (VVN)	VWV (AMN)		CND (VVN)	CND (VVN)
FRI	TY		VWV (AMN)			MAN (VVN)	EDE (MSS)		CND (VVN)	
SAT	TY									

Subject Abb/ Code	Subject Name	Class	Name of the Subject In-charge	Name of Laboratory
MAN 22509	Management	TYEJ	Mr. Nalage V. V. (VVN)	———
CND 22634	Computer Networking and Data Communication	TYEJ	Mr. Nalage V. V. (VVN)	Computer Laboratory (ENTC Dept) (AF-13)
ETE 22638	Emerging Trends in Electronics	TYEJ	Ms. Salunkhe M. S. (MSS)	———
ONS 22647	Optical Network and Satellite Communication	TYEJ	Mr. Gade M. R. (MRG)	Advance Comm Laboratory (AF-17)
EDE 22532	Entrepreneurship Development	TYEJ	Ms. Salunkhe M. S. (MSS)	Computer Laboratory (ENTC Dept) (AF-13)
CPE 22000	Seminar, Project - Execution & Report Writing	TYEJ	Ms. Salunkhe M. S. (MSS)	Computer Laboratory (ENTC Dept) (AF-13)
VWV 22062	[illegible]	TYEJ	Mr. Nevase A. M. (AMN)	Computer Laboratory (ENTC Dept) (AF-13)

Time Table In-Charge

Head of Department (E&TC)

H.C. Principal

• Teaching Load of each Faculty

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil Polytechnic, Satara
Department of Electronics & Telecommunication Engineering

Workload Distribution 2019-20 (EVEN SEMESTERS)

Sr. No.	Name of Faculty	Class	Subject	Subject Code	TH	PR	Total
1	Jagtap J. B.	EJ2I	C Programming Language CPR	22218	4	4	14
		EJ4I	Microcontroller and Applications MAA	22426	4	2	
2	Gade M. R.	EJ2I	Basic Electronics BEL	22216	4	4	18
		EJ4I	Basic Power Electronics BPE	22427	3	2	
		EJ6I	Optical Network and Satellite Communication ONS	22647	3	2	
3	Nevase A. M.	EJ2I	Electronics Engineering Materials EEM	22217	3		17
		EJ4I	Linear Integrated Circuits LIC	22423	4	2	
		EJ4I	Maintenance of Electronics Equipment and EDA Tools Practices MET	22036		4	
		EJ6I	VLSI with VHDL VWV	22062	2	2	
4	Ms. Salunkhe M. S.	EJ4I	Digital Communication Systems DCS	22428	4	4	19
		EJ6I	Emerging Trends in Electronics ETE	22636	3		
		EJ6I	Entrepreneruship Development EDE	22032	2	2	
		EJ6I	Capstone Project - Execution & Report Writing CPE	22060		4	
5	Nalage V. V.	EJ2I	Elements of Electrical Engineering EEC	22215	4	2	19
		EJ4I	Consumer Electronics CEL	22425	3	2	
		EJ6I	Management MAN	22509	3		
		EJ6I	Computer Networking and Data Communication CND	22634	3	2	

Head of Department

I/c Principal

Program Details

Name of Program	Mechanical Engineering
No. of seats	120
Duration	3 years
Cut off marks 2019-20	46.40 %
Cut off marks 2018-19	57.20 %
Cut off marks 2017-18	53.20 %
Fee	Rs. 62000/-
Placement Facilities	
Campus Placement 2019-20	16
Campus Placement 2018-19	44
Campus Placement 2017-18	17

Name and duration of Programing(s) having Twinning and Collaboration with Foreign Universities and being run in the same Campus along with status of their AICTE approval, if there is Foreign Collaboration	Not Applicable
Details of the Foreign University	Not Applicable
Name of the University	Not Applicable
Address	Not Applicable
Website Accreditation status f the University in its Home Country	Not Applicable
Ranking of the University in the Home Country	Not Applicable
Whether the degree offered is equivalent to an Indian Degree? If yes, the name of the agency which has approved equivalence. If no, implications for students in terms of pursuit of higher studies in India and abroad and job both within and outside the country	Not Applicable
Nature of Collaboration	Not Applicable
Conditions of Collaboration	Not Applicable
Complete details of payment a student has to make to get the full benefit of Collaboration	Not Applicable

Details For each Programme Collaborated

Name of Program	Civil Engineering	Computer Engineering	Electrical Engineering	Electronics and Tele-communication Engineering	Mechanical Engineering
Programme Focus	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Number of seats	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Admission Procedure	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Fee	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Placement Facility	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Placement Records for last three years with minimum salary, maximum salary and	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

average salary					

7. Faculty

- **Branch wise list Faculty members**

Sr. No.	**Name of The Faculty**
01	Mr. N. B. Devi
02	Mr. S. B. Sabnis
03	Mr.S. G. Sherkar
04	Mr. P. V. Zore
05	Mr. S. S. Yewale
06	Mr. D. R. Waghmode
07	Mr. S. S. Jadhav
08	Mr. K. B. Dhanawade
09	Mr. R. V. Kumbhar
10	Mr. N. F. Momin
11	K. H. Sakhare

- Permanent faculty: 3
- Adjunct Faculty: Nil
- Permanent Faculty: Student Ratio: 1: 120
- Number of faculty employed and left during the last three years:

- **Laboratory and Workshop**

List of Major Equipment / Facilities in each Laboratory / Workshop:

Name of Lab	List of Major Equipments
Automobile Lab.	Single Plate Coil Spring Clutch Daiphargm Spring Clutch
Measurement and Control Lab.	Multidigital Stroboscope Rotameter Trainer Level Measurement (Cap. Tran.) Displacement Mea. M/C
Fluid Mechanics	Pelton Wheel Test Rig Centrifugal Pump Test Rig Pipe Friction Apparatus Bernoullis' Theorm
Industrial Fluid Power Lab	Hydraulic Trainer Kit Pneumatic Trainer Kit Dead Weight Pressure Tester
Metrology and Quality Control Lab	Profile Projector, Surface Roughness Meas. Unit, Angle Gauges,Slip Gauge Box, Float. Carriaage Dia.
Power Engineering Lab.	Air Compressor Test Rig Single Cylinder Four Stroke Petrol Engine Test Rig Vapour Compression Refrigeration Test Rig
Theory of Machines Lab	Static & Dynamic Balancing Apparatus Single Plate Dry Clutch Spring Type Model Gears (Model)
Thermal engineering Lab.	Thermal Conductivity Of Metal Rod Stefen Boltzman Apparatus
Mechanical Engineering Materials Lab.	Metallurgical Microscope, Digital Peel Tester, Digital Rockwell Hardness Tester

- **List of Experimental Setup in each Laboratory / Workshop**

Sr. No.	Name of Equipment	Nos.
Carpentry Lab		
1	Carpentry Bench Vice	16
2	Bench Grinder	1
3	Carpentry Working Table	4
4	Wood Turning Lathe	1
5	Jig Saw	1
6	Wood Planer Cum Thickness Planer	1
7	Circular Saw	1
8	Pillar Drilling Machine	1
Fitting Lab		
1	Pipe Vice	5
2	Ratchet Type Dies	8
3	Plumbing Working Table	1
Sheet Metal Lab		
1	Hand Shearing Machine	1
Machine Shop Lab		
1	Shaping Machine	2
2	Lathe Machine	15
3	Milling Machine	1
4	Dell Vestro Lap Top	1
5	Printer	1
6	Hack Saw Machine	1
7	Micrometer	2
8	Dial Gauge Indicator	1
9	Magnetic Stand	1
10	Vernier Caliper	8
11	Four Jaw Chuck	1
12	Taper Turning Attachment	1
13	Grinding Attachment	1
Smithy Shop Lab		
1	Smith Hearth	2
2	Anvil	2
Welding Shop Lab.		
1	Bench Vice	5
2	Arc Welding Transformer	2
3	Cut Off Machine	1
4	Welding Working Table	2
5	Small Angle Grinder	1

Sr. No.	Name of Equipment	Nos.
Metrology And Quality Control Lab		
1	Surface Roughness Tester	1
2	Vernier Calliper 0-150mm	1
3	Vernier Caliliper 0-150mm	1
4	Vernier Calliper 0-150mm	1
5	Vernier Calliper 0-150mm	1
6	Vernier Calliper 0-150mm	1
7	Vernier Calliper 0-150mm	1
8	Digital Vernier Calliper 0-150mm	1
9	Digital Vernier Calliper 0-150mm	1
10	Outside Micrometer 0-25mm	1
11	Outside Micrometer 0-25mm	1
12	Outside Micrometer 0-25mm	1
13	Outside Micrometer 25-50mm	1
14	Outside Micrometer 25-50mm	1
15	Outside Micrometer 25-50mm	1
16	Vernier Height Gauge 0-300mm	1
17	Screw Pitch Gauge	1
18	Ring Gauge	1
19	Thread Plug Gauge	1
20	Plunger Type Dial Indicator	1
21	Plunger Type Dial Indicator	1
22	Lever Type Dial Indicator	1
23	Slip Gauge Box	1
24	Monochromatic Light Unit	1
25	Floating Carriage Diameter Measuring Machine	1
26	Dial Indicator Stand	1
27	Dial Indicator Stand	1
28	Surface Plate	1
29	Straight Edge Length	1
30	Filler Gauge	1
31	Radius Gauge	1
32	Depth Vernier Caliper	1
33	Dial Vernier Caliper	1
34	Inside Micrometer	1
35	Tube Micrometer	1
36	Adjustable Snap Gauge	1
37	Comparator Stand	1
38	Pneumatic Comparator	1
39	Sine Bar	1
40	Screw Thread Micrometer	1
41	Gear Tooth Vernier Calliper	1

Sr. No.	Name of Equipment	Nos.
42	Profile Projector Model	1
43	Vernier Bevel Protractor	1
44	Angle Gauges Kit	1
45	Non Magnetic V Block	1
46	Parallel Test Mandrel	1
Theory Of Machines Lab		
1	Hook Joint(Double)	1
2	Gears(Model)	1
3	Belt Drive Loose & Fast Pulley	1
4	Disc Brake(Model)	1
5	Band & Block Brake(Model)	1
6	Single Plate (Dry) Clutch Spring Type (Model)	1
7	Single Plate(Diaphram) Type Clutch	1
8	Statik & Dynamic Balancing Apparatus	1
9	Chain Drive(Model)	1
Automation Lab.		
1	Projector Epson EBX31	1
2	Optoma DLP Projector	1
3	Dell Vostro 1550	1
4	Dell Optiplex 390	1
5	Printer Canon	1
Automobile Lab		
1	Single Plate Coil Spring Clutch	1
2	Diaphram Spring Clutch	1
Industrial Fluid Power Lab.		
1	Hyadraulic Trainer Kit	1
2	Pneumatic Trainer Kit	1
3	Dead Weight Pressure Tester With Bourdon Pressure Gauge	1
Power Engineering Lab.		
1	Cross Section Of Four Stroke Four Cylinder Diesel Engine	1
2	Cut Section Of Two Stroke Single Cylinder Petrol Engine	1
3	Two Stage Recipo Air Compressor Test Rig	1
4	Single Cylinder Four Stroke Petrol Engine Test Rig	1
5	Vapour Compression Refrigeration System Test Rig	1
6	Four Stroke Multi Cylinder Petrol Engine Test Rig	1

Sr. No.	Name of Equipment	Nos.
Thermal Engineering Lab.		
1	Thermal Conductivity Of Metal Rod	1
2	Experimental Setup Of Stefan Boltzmans Law	1
Measurement And Control Lab.		
1	Multidigital Stroboscope Cum Tachometer For Speed Measurement	1
2	Strain Gauge Trainer (Strain/Force Measurement)	1
3	Rotameter Trainer For Floe Measurement	1
4	Displacement Measurement Using Inductive Transducer Sensor	1
5	Thermocouple	1
6	Capacitive Transducer Sensor	1
Fluid Mechanics And Machinery Lab.		
1	Stop Watches 1/10 Sec. Accuracy	1
2	Apparatus For Verification Of Bernoulli﷿S Theorem	1
3	Reynolds﷿ Apparatus	1
4	Pipe Friction Apparatus	1
5	Venturimeter	1
6	Water Collecting Tank	1
7	Piezometer One Meter Long	1
8	U Tube Manometer U Shaped Borosil Glass	1
9	Centrifugal Pump Cut Section Model	1
10	Reciporocating Pump Cut Section Model	1
11	Pelton Wheel Test Rig	1
12	Venturimeter Test Rig	1
13	Orifice Tank Test Rig	1
14	Centrifugal Pump Test Rig	1
Mechanical Engineering Materials Lab.		
1	Metallurgical Microscope	1
2	Polishing Machine	1
3	Muffle Furnace	1
4	Digital Peel Tester	1
5	Abrasive Belt Grinder	1
6	Standard Metallurgical Microstructure Set	1
7	Deep Quench	2
8	Digital Rockwell Hardness Tester	1

- **Academic Time Table the name of the Faculty members handling the course:**

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil Polytechnic, Satara.

Mechanical Engineering Department

Time Table - 2019-2020(Odd Semester)

Class: -SYME A **Date :26/06/2019**

DAY	9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.15	1.15-2.15	2.15-3.15	3.15-3.30	3.30-4.30	4.30-5.30
MON	SOM(TU) (KBD)	BEE (VVN)	MEM (SSY)		SOM(TU) (KBD)	BEE (ADB)		**EME(A1), MEM(A2)**	
TUE		TEN (DRW)	SOM (KBD)		BEE (ADB)	MWM (PVZ)		**MWM(A1),TEN(A2)**	
WED		**SOM(A1),MWM(A2)**		B R E A K	BEE (VVN)	SOM (KBD)	B R E A K	EME (NBD)	MEM (SSY)
THU		TEN (DRW)	EME (NBD)		MWM (PVZ)	MWM (PVZ)		**BEE(A1),EME(A2)**	
FRI		MEM (SSY)	TEN (DRW)		**MWM(A1),SOM(A2)**			**MEM (A1), MWM(A2)**	
SAT		SOM (KBD)	EME (NBD)		**TEN (A1),BEE(A2)**			**Practice Test**	

Sub-Abbr	Subject Name & Code	Faculty Name		Practical Batches
SOM	Strength of Materials (22306)	Mr. Dhanawade K.B.		A1, A2, Civil Department -
BEE	Basic Electrical & Electronics Engineering (22310)	Mr. V.V.Nalage/Borate A.D		A1, A2, – VVN (1st , 3rd, ,5th week) A1, A2, – ADB (2nd , 4th week)
TEN	Thermal Engineering (22337)	Mr. D. R. Waghmode		A1, A2-DRW,
MWM	Mechanical Working Drawing (17341)	Mr.P.V.Zore		A1, A2 – PVZ
EME	Engineering Metrology (22342)	Mr. N.B.Devi		A1, A2 – NBD
MEM	Mechanical Engineering Materials (22343)	Mr. S.S.Yewale		A1, A2 –SSY

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil Polytechnic, Satara.

Mechanical Engineering Department

Time Table - 2019-2020(Odd Semester)

Class: -SYME B **Date : 26/07/2019**

DAY	9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.15	1.15-2.15	2.15-3.15	3.15-3.30	3.30-4.30	4.30-5.30
MON	SOM(TU) (PVZ)	EME (SSJ)	MEM (NFM)	B R E A K	SOM (PVZ)	MWM (SSY)	B R E A K	**SOM(B1),MEM(B2) MWM(B3)**	
TUE		**MWM(B1),BEE(B2) MWM(B3)**			BEE (VVN)	MWM (SSY)		MEM (NFM)	TEN (KBD)
WED		MWM (SSY)	BEE (ADB)		BEE (ADB)	SOM (PVZ)		TEN (KBD)	SOM(TU) (PVZ)
THU		**MWM(B1),TEN(B2) EME(B3)**			**MEM (B1),SOM(B2) TEN(B3)**			EME (SSJ)	MEM (NFM)
FRI		SOM (PVZ)	TEN (KBD)		**EME(B1),MWM(B2) BEE(B3)**			BEE (VVN)	EME (SSJ)
SAT		**BEE(B1),EME(B2) SOM(B3)**			**TEN(B1),MWM(B2) MEM (B3)**			**MEM/BEE/TEN/MWM/ EME/SOM (Extra Lecture)**	

Sub-Abbr	Subject Name & Code	Faculty Name		Practical Batches
SOM	Strength of Materials (22306)	Mr.P.V. Zore		B1, B2, B3- Civil Department
BEE	Basic Electrical & Electronics Engineering (22310)	Mr. V.V.Nalage/ Borate A.D		B1, B2,B3 – VVN (1^{st} , $3^{rd,}$,5^{th} week) B1, B2, – ADB (2^{nd} , 4^{th} week)
TEN	Thermal Engineering (22337)	Mr.K.B.Dhanawade		B1, B2 –KBD,B3– DRW
MWM	Mechanical Working Drawing (17341)	Mr.S.S.Yewale		B1,B2-SSY ,B3-PVZ
EME	Engineering Metrology (22342)	Mr. S.S. Jadhav		B1,B2,B3-SSJ
MEM	Mechanical Engineering Materials (22343)	Mr.N.F.Momin		B1,B2,B3-NFM

Rayat ShikshanSanstha's

Karmaveer Bhaurao Patil Polytechnic, Satara.

Mechanical Engineering Department

Time Table - 2019-2020 (Odd Semester)

Class: -TYME **w.e.f : 26/06/2019**

DAY	9.30-10.30	10.30-11.30	11.30-12.30	12.30 -1.15	1.15-2.15	2.15-3.15	3.15-3.30	3.30-4.30	4.30-5.30
MON		PER (SGS)	PPE (DRW)		MAN (SSJ)	EMD (SSB)		**SMA (A1) PER(A2)**	
TUE		AMP (RVK)	EMD (SSB)		**EMD (A1), CPP (A2))**			MAN (SSJ)	
WED		PPE (DRW)	AMP (RVK)	B R E A K	**CPP(A1) AMP (A2)**		B R E A K	**PPE (A1),AMP (A2)**	
THR		AMP (RVK)	EMD (SSB)		**AMP(A1) SMA(A2)**			**AMP(A1),EMD (A2)**	
FRI		MAN (SSJ)	PER (SGS)		**PER(A1) SMA(A2)**			**SMA(A1) PPE (A2)**	
SAT		PPE (DRW)	PER (SGS)		EMD (SBS)	AMP (RVK)			

Sub-Abbr	Subject Name & Code	Faculty Name		Practical Batches
MAN	Management (22509)	Mr.S.S.Jadhav		
PER	Power Engineering and Refrigeration (22562)	Mr. S.G.Sherkar		A1 - SGS, A2 - DRW
AMP	Advanced Manufacturing Process (22563)	Mr. R.V.Kumbhar		A1, A2- RVK
EMD	Elements of Machine Design (22564)	Mr. S.B.Sabnis		A1- NBD, A2 - SBS
PPE	Power Plant Engineering (22566)	Mr. D.R.Waghmode		A1, A2 - DRW -
CPP	Capstone Project Planning (22050)	Mr. N.B.Devi		A1, A2 – NBD
SMA	Solid Modeling and Additive Manufacturing (22053)	Mr. K.B.Dhanawade		A1, A2- KBD

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil Polytechnic, Satara.

Mechanical Engineering Department

Time Table - 2019-2020 (Even Semester)

Class: -SYME A **Date : 09/12/2019**

DAY	9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.15	1.15-2.15	2.15-3.15	3.15-3.30	3.30-4.30	4.30-5.30
MON		CAD (A1) (KBD) Computer Lab FOM (A2) (DRW) Language Lab			MPR(SGS) CG09	MEM(PVZ) CG09		FMM(NBD) CG09	FOM(DRW) CG09
TUE		FMM(NBD) CG09	TOM(SSY) CG09		EST(SKH) CG09	MEM(PVZ) CG09			
WED		TOM(A1) (SSY) BF07 MPR(A2)(SBS) CG04			FMM(A1) (NBD)BG12 CAD(A2)(PVZ)Comp Lab			FMM(NBD) CG09	EST(SKH) CG09
THU		MPR(SGS) CG09	FMM(NBD) CG09		EST(SKH) CG09	MEM(PVZ) CG09		MPR(A1) (SGS) CG04 CAD(A2)(PVZ) Computer Lab	
FRI		FOM(A1) (SKH) Computer Lab FMM(A2) (NBD) BG12			CAD(A1) (KBD) Comp Lab MEM(A2)(PVZ) BF06			FOM (DRW) CG09	TOM(SSY) CG09
SAT		TOM(SSY) CG09	MPR(SGS) CG09		MEM(A1) (PVZ) BF06 TOM(A2)(SSY) BF07			Extra Lectures for Backlog Subjects	

Sub-Abbr	Subject Name & Code	Faculty Name		Practical Batches
EST	Environmental Studies	Sakhare K H		
MPR	Manufacturing Processes	Sherkar S.G.		A1,A2-SGS
FOM	Fundamentals Of Mechatronics	Waghmode D R		A1-SKH, A2-DRW
MEM	Mechanical Engineering Measurements	Zore P V		A1,A2- PVZ
FMM	Fluid Mechanics & Machinery	Devi N.B.		A1,A2 - NBD
TOM	Theory of Machines	Yewale S.S.		A1,A2- YSS
CAD	Computer Aided Drafting			A1-KBD,A2-PVZ

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil Polytechnic, Satara.

Mechanical Engineering Department

Time Table - 2019-2020(Even Semester)

Class: -SYME B **Date :09/12/2019**

DAY	9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.15	1.15-2.15	2.15-3.15	3.15-3.30	3.30-4.30	4.30-5.30
MON		TOM (PVZ) CG06	EST (SKH) CG06		CAD (B1) (YSS) Comp Lab MPR (B2) (NFM)CG04 MEM (B3) (DRW) BG06			FOM (B1) (SKH) Ele. lab CAD (B2) (PVZ) CompLab FMM (B3) (KBD) BF12	
TUE		EST (SKH) CG06	FMM (KBD) CG06		MPR (NFM) CG06	MEM (DRW) CG06		TOM (PVZ) CG06	
WED		MEM (B1) (DRW) BF06 FMM (B2) (KBD) BG12 CAD (B3) (SSJ) Comp Lab			FMM (KBD) CG06	FOM (SKH) CG06		CAD (B1) (YSS) Computer Lab TOM (B2) (RVK) BF07 MPR (B3) (SKH)	
THU		MPR (B1)(NFM) CG04 FOM (B2) (SKH) Lang lab TOM (B3) (RVK)			FMM (KBD) CG06	MPR (NFM) CG06		FOM (SKH) CG06	
FRI		TOM (PVZ) CG06	MPR (NFM) CG06		MEM (DRW) CG06	EST(SKH) CG06		TOM (B1) (RVK) BF07 CAD (B2) (PVZ) Comp Lab FOM (B3) (SKH) Lang lab	
SAT		FMM (B1) (KBD) BG12 MEM (B2) (DRW) BF06 CAD (B3) (SSJ) Comp Lab			MEM (DRW) CG06	FMM (KBD) CG06		Extra Lectures for Backlog subjects	

Sub-Abbr	Subject Name & Code	Faculty Name		Practical Batches
EST	Environmental Studies	Sakhare K H		
MPR	Manufacturing Processes	Momin N.F.		B1,B2,B3- NFM
FOM	Fundamentals Of Mechatronics	Sakhare K H		B1,B2,B3- SKH
MEM	Mechanical Engineering Measurements	Waghmode D R		B1,B2,B3- DRW
FMM	Fluid Mechanics & Machinery	Dhanawade K B		B1,B2,B3- KBD
TOM	Theory of Machines	Zore P.V.		B1,B2,B3- RVK
CAD	Computer Aided Drafting			B1-YSS,B2 PVZ, B3-SSJ

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil Polytechnic, Satara.

Mechanical Engineering Department

Time Table - 2019-2020(EVEN Semester)

Class: -TYME **Date :09/12/2019**

DAY	9.30-10.30	10.30-11.30	11.30-12.30	12.30-1.15	1.15-2.15	2.15-3.15	3.15-3.30	3.30-4.30	4.30-5.30
MON		IHP (SSY) CG08	IEQ (SSJ) CG08		AEN (SBS) CG08	ETM (RVK) CG08		CPE (A1) (SBS) CG08 EDE (A2) (SSJ) BG01	
TUE		IEQ (SSJ) CG08	RET (RVK) CG08		EDE (A1) (SSJ) BG06 CPE (A2) (NBD) CGO6				
WED		RET (A1) (RVK) CG08 CPE (A2) (NBD) CGO6			AEN (SBS) CG08	IEQ (SSJ) CG08		AEN (A1) (SBS) BG01 IEQ (A2) (SSJ) BF06	
THU		IHP (SSY) CG08	EDE (SSJ) CG08		IHP (A1) (SSY) BG06 RET (A2) (RVK)CG08			CPE (A1) (SBS) CG08 IHP (A2) (SSY) BG06	
FRI		EDE (SSJ) CG08	ETM (RVK) CG08		IHP (SSY) CG08	ETM (RVK) CG08		IEQ (A1) (SSJ) BF06 AEN(A2) (SBS) BG01	
SAT		RET (RVK) CG08	AEN (SBS) CG08		RET (RVK) CG08			Extra Lectures for Backlog Subjects	

Sub-Abbr	Subject Name & Code	Faculty Name		Practical Batches
ETM	Emerging trends in Mechanical Engineering (22652)	Kumbhar R.V.		A1,A2-RVK
IHP	Industrial Hydraulics and pneumatics (22655)	Yewale S.S.		A1,A2-SSY
AEN	Automobile Engineering (22656)	Sabnis S.B.		A1,A2-SBS
IEQ	Industrial Engineering and Quality Control (22657)	Jadhav S.S.		A1,A2-SSJ
RET	Renewable Energy Technology (22661)	Kumbhar R.V.		A1,A2-RVK
EDE	Enterpreneurship Development (22032)	Jadhav S.S.		A1,A2-SSJ
CPE	Capstone project execution and report writing (22060)	Sabnis S.B./ Devi N.B.		A1-SBS, A2-NBD

Department of Mechanical Engineering

Faculty Wise Teaching Load Distribution 2019-2020 Odd Semester

CLASS	BATCHES	SUBJECT	LECTURES	PRACTICALS	TOTAL
Shri. N. B. Devi					
ME3I	A1, A2	EME	3 (A)	2 X 2	07
CE1I	A1	WPM	-	4 X 1	04
ME5I	A1, A2	CPP	-	2 X 2	04
				TOTAL	**15**
Shri. S. B. Sabnis					
ME5I	A1, A2	EMD	4	2 X 2	08
EE1I	C1, C2	WPM		4 X 2	08
				TOTAL	**16**
Shri. S.G.Sherkar					
ME5I	A1, A2	PER	3	2 X 2	07
ME1I	E1, E2	WPM		4 X 2	08
				TOTAL	**15**
Shri. P.V.Zore					
ME3I	A1, A2, B3	MWM	3 (A)	4 X 3	15
ME3I		SOM	3 (B) 2 (Tu)		05
				TOTAL	**20**
Shri. D.R.Waghmode					
ME5I	A1, A2	PPE	3	2 X 2	07
ME3I	A1, A2, B3	TEN	3 (A)	2 X 3	09
EE1I	C2	EGG		4 X 1	04
				TOTAL	**20**

Shri. S. S. Jadhav					
ME5I		MAN	3	-	03
ME3I	B1, B2, B3	EME	3 (B)	2 X 3	09
CE1I	A2	EGG		4 X 1	04
CO1I	B1	EGG		4 X 1	04
				TOTAL	**20**
Shri. K.B.Dhanawade					
ME3I	B1, B2	TEN	3 (B)	2 X 2	07
ME3I		SOM	3 (A) + 2 (Tu)	-	05
ME5I	A1, A2	SMA	-	4 X 2	08
				TOTAL	**20**
Shri. S.S.Yewale					
ME3I	A1, A2, B1	MEM	3 (A)	2 X 3	09
ME3I	B1, B2	MWM	3 (B)	4 X 2	11
				TOTAL	**20**
Shri. R.V.Kumbhar					
ME5I	A1, A2	AMP	4	4 X 2	12
CE1I	A1	EGG	2 (A)	4 X 1	06
EJ1I	D1	WPE	-	2 X 1	02
				TOTAL	**20**
Shri. N.F.Momin					
ME3G	B1, B3	MEM	3 (B)	2 X 2	07
ME1I	E1, E2	EGG	2 (E)	4 X 2	10
CE1I	A2	WPM	-	4 X 1	04
				TOTAL	**21**
Miss K. H. Sakhare					
EE1I	C1	EGG	2 (C)	4 X 1	06
CO1I	B2, B3	EGG	2 (B)	4 X 2	10

EJ1I	D1	EGG		4 X 1	04
				TOTAL	**20**

Department of Mechanical Engineering

Faculty Wise Teaching Load Distribution 2019-2020 Even Semester

CLASS	BATCHES	SUBJECT	LECTURES	PRACTICALS	TOTAL
Shri. N. B. Devi					
ME4I	A1, A2	FMM	4 (A)	2 X 2	08
ME6i	A2	CPE		4 X 1	04
				TOTAL	**12**
Shri. S. B. Sabnis					
ME6I	A1, A2	AEN	3	2 X 2	07
ME6I	A1	CPE		4 X 1	04
ME4I	A2	MPR		2 x 1	02
				TOTAL	**13**
Shri. S. G. Sherkar					
ME4I	A1	MPR	3 (A)	2 X 1	05
ME2I	E1, E2	MEW		4 X 2	08
				TOTAL	**13**
Shri. P. V. Zore					
ME4I	A1, A2	MEM	3 (A)	2 X 2	07
ME4I		TOM	3 (B)		03
Me4I	A2, B3	CAD		4 x 2	08
				TOTAL	**18**
Shri. S. S. Yewale					
ME4I	A1, A2	TOM	3 (A)	2 X 2	07
ME6I	A1, A2	IHP	3	2 X 2	07
ME4I	B1	CAD		4 x 1	04
				TOTAL	**18**

Shri. D. R. Waghmode					
ME4I	B1, B2, B3	MEM	3 (B)	2 X 3	09
	A1	FOM	2 (A)	2 X 1	04
EE2I	C1, C2	BME		2 x 2	04
				TOTAL	**17**
Shri. S. S. Jadhav					
ME6I	A1, A2	IEQ	3	2 x 2	07
ME4I	B2	CAD		4 x 1	04
ME4I	A1	EDE	2	2 X 2	06
				TOTAL	**17**
Shri. K. B. Dhanawade					
ME4I	B1, B2, B3	FMM	4 (B)	2 X 3	10
EE2I		BME	3 (D)		03
ME4I	A1	CAD		4 X 1	04
				TOTAL	**17**
Shri. R. V. Kumbhar					
ME6I	A1, A2	RET	3	2 X 2	07
ME6I		ETM	3		03
ME4I	B1, B2, B3	TOM		2 X 3	06
				TOTAL	**16**
Shri. N. F. Momin					
ME2I	E1, E2	EDR	3 (E)	4 X 2	11
ME4I	B1, B2	MPR	3 (B)	2 X 2	07
				TOTAL	**18**
Miss K. H. Sakhare					
ME4I	A2, B1, B2, B3	FOM	2 (B)	2 X 4	10

ME4I		EST	3 (A) + 3 (B)	-	06
ME4I	B3	MPR		2 X 1	02
				TOTAL	**18**

Internal Continuous Evaluation System and place: Internal Continuous Evaluation System is based on progressive assessment of each experiment in Laboratory.

10. Admission

- **Number of seats sanctioned with the year of approval:** 120 Year: 2019-20
- **Number of Students admitted under various catagories each year in the last three years:**
- Number of application received during last two years for admission under Management Quota and number admitted:

11 Admission Procedure

- Mention the admission test being followed, name and address of the Test Agency and its URL (website):
  Admission test being followed: SSC or equivalent
  Name and address of the Test Agency: Directorate of Technical Education in Maharashtra, Mumbai
  Its URL (website): www.dtemaharashtra.gov.in

- Number of seats allotted to different Test Qualified candidate separately (AIEEE/ CET (State conducted test/ University tests/ CMAT/ GPAT)/ Association conducted test): Not Applicable
- Calendar for admission against Management/vacant seats:
  Last date of request for applications: 14/082019
  Last date of submission of applications: 14/08/2019
  Dates for announcing final results: 16/08/2019
  Release of admission list (main list and waiting list shall be announced on the same day): 16/08/2019
  Date for acceptance by the candidate (time given shall in no case be less than 15 days): 16/08/2019
  Last date for closing of admission: 30/08/2019
  Starting of the Academic session: 01/08/2019
  The waiting list shall be activated only on the expiry of date of main list: 16/08/2019
  The policy of refund of the Fee, in case of withdrawal, shall be clearly notified: As per Information Broacher published by Directorate of Technical Education in Maharashtra, Mumbai.

13. List of Applicants

- **List of candidate whose applications have been received along with percentile/percentage score for each of the qualifying examination in separate categories for open seats.: List in on available on website** www.dtemaharashtra.gov.in
- **List of candidate who have applied along with percentage and percentile score for Management quota seats: Nil**

14. Results of Admission Under Management seats/Vacant seats

- Composition of selection team for admission under Management Quota with the brief profile of members (This information be made available in the public domain after the admission process is over)

Composition of selection team for admission under Management Quota

Sr. No.	Name of Faculty	Designation	Admission Committee
1	Prof. K. S. Sheikh	I/c Principal	Chairman
2	Prof. Dr. K. C. Shaikh	Lecturer (Selection Grade)	Member
3	Prof. N. B. Devi	I/c HOD (Mech.)	Member
4	Prof. D. N. Balte	I/c HOD (General)	Member
5	Prof. P. S. Patil	I/c HOD (Electrical)	Member
5	Prof. J. B. Jagtap	I/c HOD (Electronics and Telecommunications)	Member

- Score of the individual candidate admitted arranged in order or merit.
- List of candidate who have been offered admission.

First Year Diploma Final Merit List for A-CAP Admission (SSC)
Academic Year 2019- 20

Merit No	Application ID	Name of Candidate	Category	Gender	SSC % marks	SSC % Maths marks	Remark
1	DEN19193597	Pawar Sanket Jitendra	OPEN	M	81.20	65	
2	DEN19184605	Barge Prathmesh Nandu	OPEN	M	80.60	91	
3	DEN19192721	Shinde Hrutik Dnyaneshwar	OPEN	M	73.60	67	
4	DEN19196182	Ingawale Omkar Suryakant	OPEN	M	67.20	49	
5	DEN19193954	Jadhav Mayur Subhash	OPEN	M	64.40	60	
6	DEN19196232	Uday Rajendra Pharande	OBC	M	63.20	57	
7	DEN19192256	Suryawanshi Sakshi Maruti	OPEN	F	59.00	39	
8	DEN19192269	Palande Sahil Sunil	OPEN	M	54.80	59	
9	DEN19192556	Surve Vedant Dilip	OPEN	M	49.20	53	
10	DEN19196681	Mhaskar Manish Sandip	OPEN	M	77.20	77	
11	DEN19198117	Shinde Prerana Vilas	OPEN	F	73.60	55	
12	DEN19198671	Kadam Sakshi Sudhakar	OPEN	F	63.20	69	
13	DEN19166197	Kadam Tejas Prakash	OBC	M	73.00	80	

Direct Second Year Diploma Final Merit List for A-CAP Admission (HSC Sci)
Academic Year 2019- 20 (G-1)

Merit No	Application ID	Name of Candidate	Category	Gender	Qualifying Exam % Marks	SSC % Maths Marks	Remark
1	DSD19156622	Mulik Satyam Laxman	OPEN	M	67.44	57.33	
2	DSD19161366	Chavan Sanket Krishna	OPEN	M	66.50	68	
3	DSD19153180	Dadas Adarsh Anil	OPEN	M	60	63	
4	DSD19158032	Bhoite Rohit Eknath	SC	M	58.92	56	
5	DSD19156216	Mahadik Mahesh Mansing	OPEN	M	56.62	91	
6	DSD19154793	Jambhale Abhishek Sunil	OPEN	M	55.69	82	
7	DSD19158794	Malave Vrushali Nandkumar	NT-D	F	54.92	68	
8	DSD19161058	Walekar Pradnyesh Tarachand	OPEN	M	53.50	73.33	
9	DSD19155036	Pawar Rajat Vivekanand	SEBC	M	53.38	73	
10	DSD19161673	Awale Atharva Sandipan	SC	M	52.92	76	
11	DSD19158273	Bagwan Nida Firoj	OBC	F	51.69	80	
12	DSD19158180	Shinde Ajay Dada	OBC	M	51.54	97	
13	DSD19157027	Shahnawaz Alam	OPEN	M	51.2	96	
14	DSD19132757	Jadhav Sayali Hanmant	OPEN	F	50.31	44	
15	DSD19126677	Chavan Pranit Nitin	OPEN	M	51.08	67	
16	DSD19113275	Chavan Abhiraj Subhash	OPEN	M	50.62	35	
17	DSD19161035	Waydande Ravish Vishwanath	SC	M	49.85	54	
18	DSD19155721	Nalawade Abhay Laxman	OPEN	M	49.08	61	
19	DSD19154450	Sakhare Apurv Rudraling	OBC	M	49.08	66	
20	DSD19160711	Mhaskar Manish Sandip	OPEN	M	48.46	77	
21	DSD19160990	Devare Vaibhav Laxman	OPEN	M	48.46	68	
22	DSD19153939	Khan Moin Ayaz	OPEN	M	48.46	67	
23	DSD19156949	Sabale Prajwal Anil	OPEN	M	47.38	78	
24	DSD19157502	Khamkar Tejas Rohidas	OPEN	M	44.62	63	
25	DSD19158135	Dhumal Prasad Chandrashekhar	OPEN	M	44.15	51	
26	DSD19161140	Kadam Disha Dattatray	OPEN	F	43.08	65	

Direct Second Year Diploma Final Merit List for A-CAP Admission HSC (Bifocal/ Technical)

Academic Year 2019- 20 (G-2)

Merit No	Application ID	Name of Candidate	Category	Gender	Qualifying Exam Marks	SSC Maths Marks	Remark
1	DSD19153821	Jagadale Sangram Jagadish	OPEN	M	53.85	56	
2	DSD19159109	Doiphode Rushikesh Machinranath	OPEN	M	49.54	35	

Direct Second Year Diploma Final Merit List for A-CAP Admission ITI (CTS/ ATS)/ ITI COE
Maharashtra State Vocational Board Education Course

Academic Year 2019- 20 (G-3)

Merit No	Application ID	Name of Candidate	Category	Gender	Qualifying Exam % Marks	SSC % Maths Marks	Remark
1	DSD19155299	Mule Avdhut Eknath	OPEN	M	75.31	75	Electrician
2	DSD19158848	Sutar Vaibhav Balasaheb	OPEN	M	73.65	78.67	Draughtsman Mechanical
3	DSD19156622	Mulik Satyam Laxman	OPEN	M	67.44	57.33	Architect Draftsman
4	DSD19155291	Mane Sanjay Navnath	OPEN	M	61.15	47.33	Wireman

Direct Second Year Diploma Final Merit List for A-CAP Admission HSC (Vocational/ MCVC)

Academic Year 2019- 20 (G-4)

Merit No	Application ID	Name of Candidate	Category	Gender	Qualifying Exam Marks	SSC Maths Marks	Remark
1	DSD19135562	Kamble Pranav Santosh	SC	M	52	35	Electronics Technology(EA/ EB/ EC)

- Waiting list of the candidate in order of merit to be operative from the last date of joining of the first list candidate: Nil
- List of the candidate who joined within the date, vacancy position in each category before operation of waiting list.

First Year Diploma Final Merit List for A-CAP Admission (SSC)
Academic Year 2019- 20

Merit No	Application ID	Name of Candidate	Category	Gender	SSC % marks	SSC % Maths marks	Remark
1	DEN19193597	Pawar Sanket Jitendra	OPEN	M	81.20	65	FYME
2	DEN19184605	Barge Prathmesh Nandu	OPEN	M	80.60	91	
3	DEN19192721	Shinde Hrutik Dnyaneshwar	OPEN	M	73.60	67	FYEE
4	DEN19196182	Ingawale Omkar Suryakant	OPEN	M	67.20	49	FYCE
5	DEN19193954	Jadhav Mayur Subhash	OPEN	M	64.40	60	FYME
6	DEN19196232	Uday Rajendra Pharande	OBC	M	63.20	57	
7	DEN19192256	Suryawanshi Sakshi Maruti	OPEN	F	59.00	39	FYEE
8	DEN19192269	Palande Sahil Sunil	OPEN	M	54.80	59	FYEE
9	DEN19192556	Surve Vedant Dilip	OPEN	M	49.20	53	FYME
10	DEN19196681	Mhaskar Manish Sandip	OPEN	M	77.20	77	
11	DEN19198117	Shinde Prerana Vilas	OPEN	F	73.60	55	FYEJ
12	DEN19198671	Kadam Sakshi Sudhakar	OPEN	F	63.20	69	FYEJ
13	DEN19166197	Kadam Tejas Prakash	OBC	M	73.00	80	FYCE

Direct Second Year Diploma Final Merit List for A-CAP Admission (HSC Sci)
Academic Year 2019- 20 (G-1)

Merit No	Application ID		Category	Gender	Qualifying Exam % Marks	SSC % Maths Marks
1	DSD19156622	Mulik Satyam Laxman	OPEN	M	67.44	57.33
2	DSD19161366	Chavan Sanket Krishna	OPEN	M	66.50	68
3	DSD19153180	Dadas Adarsh Anil	OPEN	M	60	63
4	DSD19158032	Bhoite Rohit Eknath	SC	M	58.92	56
5	DSD19156216	Mahadik Mahesh Mansing	OPEN	M	56.62	91
6	DSD19154793	Jambhale Abhishek Sunil	OPEN	M	55.69	82
7	DSD19158794	Malave Vrushali Nandkumar	NT-D	F	54.92	68
8	DSD19161058	Walekar Pradnyesh Tarachand	OPEN	M	53.50	73.33
9	DSD19155036	Pawar Rajat Vivekanand	SEBC	M	53.38	73
10	DSD19161673	Awale Atharva Sandipan	SC	M	52.92	76
11	DSD19158273	Bagwan Nida Firoj	OBC	F	51.69	80
12	DSD19158180	Shinde Ajay Dada	OBC	M	51.54	97
13	DSD19157027	Shahnawaz Alam	OPEN	M	51.2	96
14	DSD19132757	Jadhav Sayali Hanmant	OPEN	F	50.31	44
15	DSD19126677	Chavan Pranit Nitin	OPEN	M	51.08	67
16	DSD19113275	Chavan Abhiraj Subhash	OPEN	M	50.62	35
17	DSD19161035	Waydande Ravish Vishwanath	SC	M	49.85	54
18	DSD19155721	Nalawade Abhay Laxman	OPEN	M	49.08	61
19	DSD19154450	Sakhare Apurv Rudraling	OBC	M	49.08	66
20	DSD19160711	Mhaskar Manish Sandip	OPEN	M	48.46	77
21	DSD19160990	Devare Vaibhav Laxman	OPEN	M	48.46	68
22	DSD19153939	Khan Moin Ayaz	OPEN	M	48.46	67
23	DSD19156949	Sabale Prajwal Anil	OPEN	M	47.38	78
24	DSD19157502	Khamkar Tejas Rohidas	OPEN	M	44.62	63
25	DSD19158135	Dhumal Prasad Chandrashekhar	OPEN	M	44.15	51
26	DSD19161140	Kadam Disha Dattatray	OPEN	F	43.08	65

Direct Second Year Diploma Final Merit List for A-CAP Admission HSC (Bifocal/ Technical)

Academic Year 2019- 20 (G-2)

Merit No	Application ID	Name of Candidate	Category	Gender	Qualifying Exam Marks	SSC Maths Marks
1	DSD19153821	Jagadale Sangram Jagadish	OPEN	M	53.85	56
2	DSD19159109	Doiphode Rushikesh Machinranath	OPEN	M	49.54	35

Direct Second Year Diploma Final Merit List for A-CAP Admission ITI (CTS/ ATS)/ ITI COE Maharashtra State Vocational Board Education Course

Academic Year 2019- 20 (G-3)

Merit No	Application ID	Name of Candidate	Category	Gender	Qualifying Exam % Marks	SSC % Maths Marks	Remark
1	DSD19155299	Mule Avdhut Eknath	OPEN	M	75.31	75	Electrician (EE)
2	DSD19158848	Sutar Vaibhav Balasaheb	OPEN	M	73.65	78.67	Draughtsman Mechanical (ME)
3	DSD19156622	Mulik Satyam Laxman	OPEN	M	67.44	57.33	Architect Draftsman (CE)
4	DSD19155291	Mane Sanjay Navnath	OPEN	M	61.15	47.33	Wireman (EE)

Direct Second Year Diploma Final Merit List for A-CAP Admission HSC (Vocational/ MCVC)

Academic Year 2019- 20 (G-4)

Merit No	Application ID	Name of Candidate	Category	Gender	Qualifying Exam Marks	SSC Maths Marks	Remark
1	DSD19135562	Kamble Pranav Santosh	SC	M	52	35	Electronics Technology(EA/ EB/ EC)

20. Best Practices adopted, if any: Nil

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	**Devi Narendra Balkrishnadas**	 Photo
Date of Birth	**13-09-1964**	
Unique id	**1-481876541**	
Education Qualification	**M.E.(Mechanical - Production)**	
Work Experience a Teaching	**32 years**	
Research	**--**	
Industry	**02**	
others	**--**	
Area of Specialization	**Production**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**Fluid Mechanics and Machinery, Engineering Metrology, Industrial Fluid Power Mechanical Engineering Materials**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**02**	
Master	**M. E. (Mechanical – Production)**	
Ph.D.	**--**	
Projects Carried out	**--**	
Patents	**--**	
Technology Transfer	**--**	
Research Publications	**--**	
No of Books published with details	**Mechanical Engineering Materials**	

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	**Sabnis Sanjay Balkrishna**	 Photo
Date of Birth	**29-11-1963**	
Unique id	**1-481876533**	
Education Qualification	**B.E.(Mechanical)**	
Work Experience a Teaching	**32 years**	
Research	**--**	
Industry	**01**	
others	**--**	
Area of Specialization	**Mechanical**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**Mechanical Engineering Drawing, Automobile Engineering, Elements of Machine Design, Production Engineering & Robotics.**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**--**	
Master	**--**	
Ph.D.	**--**	
Projects Carried out	**--**	
Patents	**--**	
Technology Transfer	**--**	
Research Publications	**--**	
No of Books published with details	**Engineering Graphics for 1st Year Engineering students.**	

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	**Sachin Ganesh Sherkar**	
Date of Birth	**13.03.1964**	
Unique id	**I-481876537**	
Education Qualification	**B.E. Mech**	
Work Experience a Teaching	**31 years**	
Research	**Nil**	
Industry	**3 years**	
others	**Nil**	
Area of Specialization	**Mech Prod.**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**At diploma level-** Engg Graphics, Manufacturing process, Power Engg.	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**02.**	
Master	**Appeared**	
Ph.D.	**Nil**	
Projects Carried out	**At diploma level**	
Patents	**Nil**	
Technology Transfer	**Nil**	
Research Publications	**Nil**	
No of Books published with details	**Nil**	

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	**Mr. Prathamesh Vijay Zore**	
Date of Birth	**17/03/1987**	
Unique id	**959453149748**	
Education Qualification	**B.E.(Mechanical)**	
Work Experience a Teaching	**07 Years**	
Research	**Nil**	
Industry	**Nil**	
others	**Nil**	
Area of Specialization	**Mechanical Engineering**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**Mechanical Working Drawing, Theory of machines, Computer Aided Drafting, Design of Machine Elements, Mechanical Engg. Measurements**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**Nil**	
Master	**M.E. Heat Power (Appeared)**	
Ph.D.	**Nil**	
Projects Carried out	**Nil**	
Patents	**Nil**	
Technology Transfer	**Nil**	
Research Publications	**Nil**	
No of Books published with details	**Nil**	

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil Polytechnic, Satara.

Faculty Profile

Name of Teaching Staff	YEWALE SAMEER SHIVAJI	
Date of Birth	08/03/1991	
Unique id		
Education Qualification	B.E(Mechanical),M.E (Heat Power)	
Work Experience a Teaching	7	
Research	Experimental Investigation of Performance and Emission Characteristics of Diesel Fuelled With Mexicana Methyl Ester.	
Industry	-	
others	-	
Area of Specialization	Heat Power	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	Mechanical Working Drawing, Mechanical Engineering materials, Theory Of Machine, Industrial Fluid Power, Engineering graphics, Thermal Engineering, Heating ventilation And Air-conditioning	
Research guidance a No. of papers published in National/ International Journals/ Conferences	01	
Master	M.E- Heat Power	
Ph.D.	-	
Projects Carried out	-	
Patents	-	
Technology Transfer		
Research Publications	Experimental Investigation of Performance and Emission Characteristics of Diesel Fuelled With Mexicana Methyl Ester.	
No of Books published with details	-	

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	**Waghmode Dattatray Ramchandra**	 Photo
Date of Birth	**10th Oct 1990**	
Unique id	**332724787663**	
Education Qualification	**ME Heat Power**	
Work Experience a Teaching	**7**	
Research	**Performance and Emission Analysis of a Diesel Engine Fuelled with Waste Turmeric oil**	
Industry	**No**	
others		
Area of Specialization	**Heat power**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**Thermal engg, mechanical engg measurement,power plant engg, fundamental of mechatronics**	
Research guidance a No. of papers published in National/ International Journals/ Conferences		
Master		
Ph.D.		
Projects Carried out		
Patents		
Technology Transfer		
Research Publications		
No of Books published with details		

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	**Mr. S.S.Jadhav**	
Date of Birth	**09-Feb-1987**	
Unique id	**1-2071001824**	
Education Qualification	**M.E.(Heat Power), M.B.A (Operations)**	
Work Experience a Teaching	**07 years**	
Research	**-**	
Industry	**-**	
others	**-**	
Area of Specialization	**Mechanical Engineering**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**Management, Engineering Metrology, Industrial Engineering and Quality Control, Autocad, Solid Modeling**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**03**	
Master	**Yes**	
Ph.D.	**-**	
Projects Carried out	**Experimental Investigation of Multinozzle vortex tube using Air as Working fluid**	
Patents	**-**	
Technology Transfer	**-**	
Research Publications	**03**	
No of Books published with details	**-**	

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	**DHANAWADE KISHOR BABANRAO**	
Date of Birth	**06/02/1986**	
Unique id	**1-2071001784**	
Education Qualification	**M.E.(MECHANICAL)**	
Work Experience a Teaching	**7 YEARS**	
Research	**IN I.C.ENGINE AREA**	
Industry	**-**	
others	**-**	
Area of Specialization	**HEAT POWER ENGG.**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**THERMAL ENGG. , BASIC MECHANICAL ENGG. , FLUID MECHANICS AND MACHINEARY,COMPUTER AIDED DRAFTING,AUTOMOBILE ENGG.,SOLID MODELLING**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**01**	
Master	**M.E.(HEAT POWER), MCAD**	
Ph.D.	**-**	
Projects Carried out	**Influence of N-Butanol additives with Terminalia Methyl Ester as a fuel on Engine Emission Characteristics**	
Patents	**-**	
Technology Transfer	**-**	
Research Publications	**-**	
No of Books published with details	**-**	

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	**Mr. Raviindra V. Kumbhar**	 Photo
Date of Birth	**10/05/1989**	
Unique id	**804004008235**	
Education Qualification	**BE PRODUCTION ENGG**	
Work Experience a Teaching	**6 YEARS**	
Research	**-**	
Industry	**3 YEARS**	
others	**-**	
Area of Specialization	**DESIGN ENGG**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**EGG/ AMP/EME/CNC/RET/TOM/EGM**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**-**	
Master	**Appearing**	
Ph.D.	**-**	
Projects Carried out	**-**	
Patents	**-**	
Technology Transfer	**-**	
Research Publications	**-**	
No of Books published with details	**-**	

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	**Mr. Momin Nihal Faiyaz**	
Date of Birth	**18/06/1990**	
Unique id		
Education Qualification	**BE PRODUCTION**	
Work Experience a Teaching	**7 Yrs.**	
Research	**-**	
Industry	**-**	
others	**-**	
Area of Specialization	**Production**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**EGG (22002),EDR(22207), MEM(22343),MPR (22446), AMP(17527)**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**1**	
Master	**Appearing**	
Ph.D.	**-**	
Projects Carried out	**Experimentation work is running**	
Patents		
Technology Transfer	**-**	
Research Publications	**-**	
No of Books published with details	**-**	

8. Profile of Faculty for each. Faculty give a page covering with Passport size photograph

Name of Teaching Staff	**Komal Haribhau Sakhare**	 Photo
Date of Birth	**27/2/1991**	
Unique id	**520647169630**	
Education Qualification	**B.E. Mechanical engineering**	
Work Experience a Teaching	**5 years**	
Research	**No**	
Industry	**No**	
others	**No**	
Area of Specialization	**Mechanical engineering**	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate / Post Graduate Diploma Level	**Fundamentals of Mechatronics** **Measurements and Control** **Industrial Fluid Power** **Engineering Graphics** **Environmental studies**	
Research guidance a No. of papers published in National/ International Journals/ Conferences	**No**	
Master	**No**	
Ph.D.	**No**	
Projects Carried out	**No**	
Patents	**No**	
Technology Transfer	**No**	
Research Publications	**No**	
No of Books published with details	**No**	

10.13 Name of theTeachingStaff :**Balte Dhondiram Namdev**

Designation : **Lecturer (Selection Grade)**

Department : **General Engineering**

Date of Joining the Institute :**20/10/1983**

Qualification with Class :**B.Sc.(I Class) M.Sc.(I Class)**

Total Experience in Years : Teaching **–36.5Yrs** Industry**– Nil**

Paper Published :National**– Nil** International **– Nil**

Paper Presented in Conference :National **Nil** International **– Nil**

PhD. Guide? :Field**- Nil** University**– Nil**

PhDs/ProjectGuided : **-** **Nil** Master Level **– Nil**

Books Published/IPRs/Patents : **Engineering Physics –Mahalaxmi Publication**

Professional Memberships : **ISTE LM17140**

Consultancy Activities :**Nil**

Awards :**Nil**

Grant Fetched :**Nil**

Interaction with Professional Institute :**Nil**

10.13	Name of theTeaching Staff	:**Shaikh Karim Chandulal**
	Designation	: **Lecturer (Selection Grade)**
	Department	: **General Engineering**
	Date of JoiningtheInstitute	:**20/11/1987**
	Qualification with Class	:**B.Sc.(I Class) M.Sc.(I Class) M.Phil, P.hd**
	Total Experience in Years	: Teaching **–32Yrs** Industry**– Nil**
	Paper Published	:National**– 04** International **– 02**
	Paper Presented in Conference	:National **04** International **– Nil**
	PhD.Guide?	:Field**- Nil** University**– Nil**
	PhDs/Project Guided	: **- Nil** Master Level **– Nil**
	Books Published/IPRs/Patents	: **2**
	Professional Memberships	: **ISTELM16745**
	Consultancy Activities	:**Nil**
	Awards	: **First in University (Dept. of Chemistry)**
	Grant Fetched	:**Nil**
	Interaction with Professional Institute	:**Nil**

10.13	Name of theTeaching Staff	:**Palekar Abasaheb Pandurang**
	Designation	: **Lecturer (Selection Grade)**
	Department	: **General Engineering**
	Date of Joining the Institute	:04**/09/1989**
	Qualification with Class	:**B.Sc.(I Class) M.Sc.(II Class)**
	Total Experience in Years	: Teaching **–32 Yrs** Industry**– Nil**
	Paper Published	:National**– Nil** International **– Nil**
	Paper Presented in Conference	:National **Nil** International **– Nil**
	PhD. Guide?	:Field**- Nil** University**– Nil**
	PhDs/ProjectGuided	: **-** **Nil** Master Level **– Nil**
	Books Published/IPRs/Patents	: **Engineering Physics –Mahalaxmi Publication**
	Professional Memberships	: **ISTE LM16741**
	Consultancy Activities	:**Nil**
	Awards	:**Nil**
	Grant Fetched	:**Nil**
	Interaction with Professional Institute	:**Nil**

10.13 Name of the Teaching Staff :**Mr. KambleTushar Pradeep**

Designation : **Lecturer (Adhoc)**

Department : **General Engineering**

Date of Joining the Institute :**01/ 07/ 2019**

Qualification with Class : **M.A. (Bt), B.Ed.(I Class)**

Total Experience in Years : Teaching **–7Yrs** Industry **– Nil**

Paper Published :National**– Nil** International **– Nil**

Paper Presented in Conference :National **Nil** International **– Nil**

PhD. Guide? :Field**-** **Nil** University **– Nil**

PhDs/Project Guided : **-** **Nil** Master Level **– Nil**

Books Published/IPRs/Patents: **Nil**

Professional Memberships :**Nil**

Consultancy Activities :**Nil**

Awards : **Best Student Award 2009'S.V.C.E.Pune**

Grant Fetched :**Nil**

Interaction with Professional Institute :**Nil**

10.13 Name of the Teaching Staff :**Miss. Jadhav Swati Balkrishna**

Designation :**Lecturer (Adhoc)**

Department : **General Engineering**

Date of Joining the Institute : **01/ 07/ 2019**

Qualification with Class : **M.Sc.(II Class), B. Ed**

Total Experience in Years : Teaching **– 7 Yrs** Industry **– Nil**

Paper Published : National**– Nil** International **– Nil**

Paper Presented in Conference :National **Nil** International **– Nil**

PhD. Guide? : Field**- Nil** University **– Nil**

PhDs/Project Guided :- **Nil** Master Level **– Nil**

Books Published/IPRs/ Patents :- **Nil**

Professional Memberships **Nil**:

Consultancy Activities :**Nil**

Awards :**Nil**

Grant Fetched :**Nil**

Interaction with Professional Institute :**Nil**

10.13 Name of the Teaching Staff : **Mrs. Jadhav Vishranti Vijay**

Designation	:**Lecturer (Adhoc)**	
Department	: **General Engineering**	
Date of Joining the Institute	: **01/07/2019**	
Qualification with Class	: **M.Sc.(I Class), B.Ed**	
Total Experience in Years	: Teaching **–11Yrs**	Industry **– Nil**
Paper Published	: National**– Nil**	International **– Nil**
Paper Presented in Conference	:National **Nil**	International **– Nil**
PhD. Guide?	: Field**- Nil**	University **– Nil**
PhDs/Project Guided	:- **Nil**	Master Level **– Nil**

Books Published/IPRs/ Patents :- **Nil**

Professional Memberships: - **Nil**

Consultancy Activities : **Nil**

Awards : **Nil**

Grant Fetched : **Nil**

Interaction with Professional Institute : **Nil**

10.13 Name of the Teaching Staff : **Mrs. Gawade Vaishali Navnath**

Designation	:**Lecturer (Adhoc)**	
Department	: **General Engineering**	
Date of Joining the Institute	: **10/ 01/ 2020**	
Qualification with Class	: **M.A. (II Class), B. Ed**	
Total Experience in Years	: Teaching **– 4Yrs**	Industry **– Nil**
Paper Published	: National**– Nil**	International **– Nil**
Paper Presented in Conference	:National **Nil**	International **– Nil**
PhD. Guide?	: Field**-** **Nil**	University **– Nil**
PhDs/Project Guided	:- **Nil**	Master Level **– Nil**

Books Published/IPRs/ Patents :- **Nil**

Professional Memberships **Nil**:

Consultancy Activities :**Nil**

Awards :**Nil**

Grant Fetched :**Nil**

Interaction with Professional Institute :**Nil**

10.13 Name of the Teaching Staff :**Miss. Yadav Varsha Kantaram**

Designation	:**Lecturer (Adhoc)**	
Department	: **General Engineering**	
Date of Joining the Institute	: **01/07/2019**	
Qualification with Class	: **M.Sc. (I Class), B. Ed(App).**	
Total Experience in Years	: Teaching **–1 Yrs.**	Industry **– Nil**
Paper Published	: National**– Nil**	International **– Nil**
Paper Presented in Conference	: National **Nil**	International **– Nil**
PhD. Guide?	: Field**- Nil**	University **– Nil**
PhDs/Project Guided	:-**Nil**	Master Level **– Nil**

Books Published/IPRs/ Patents :- **Nil**

Professional Memberships : **Nil**

Consultancy Activities : **Nil**

Awards : **Nil**

Grant Fetched : **Nil**

Interaction with Professional Institute : **Nil**

10.13 Name of the Teaching Staff :**Miss. Bagwan Saltanat Aliakabar**

Designation	:**Lecturer (Adhoc)**	
Department	: **General Engineering**	
Date of Joining the Institute	: **01/07/2019**	
Qualification with Class	: **M.A. (I Class) B. Ed**	
Total Experience in Years	: Teaching **–10 Yrs.**	Industry **– Nil**
Paper Published	: National**– Nil**	International **– Nil**
Paper Presented in Conference	: National **Nil**	International **– Nil**
PhD. Guide?	: Field**- Nil**	University **– Nil**
PhDs/Project Guided	:-**Nil**	Master Level **– Nil**

Books Published/IPRs/ Patents :- **Nil**

Professional Memberships : **Nil**

Consultancy Activities : **Nil**

Awards : **Nil**

Grant Fetched : **Nil**

Interaction with Professional Institute : **Nil**