2.3.2 Teacher use ICT enabled tools for effective teaching learning process.

In ever changing and, technology driven world it is essential for the students to learn and master the latest technologies in order to be industry ready. Adopting modern teaching methods is crucial for ensuring that students receive a high-quality education that prepares them for the future. ICT is the most effective mode of communication used in teaching-learning process to improve the students learning ability, attention, interest, creativity and think critically. As a result, teachers are combining technology with traditional mode of instruction to engage students in long term learning.

At JJMCOE for years we have been using ICT tools for delivering lectures and practical's. The institute has excellent infrastructure with respect to ICT tools, like projectors, Desktop, Printers, Scanners, Seminar-hall, Smart boards, MOOCK etc. Faculty make use of electronic resources from platforms such as DELNET, NPTEL, SWAYAM, COURSERA, and the Digital Library.

Faculties use PPT's in their teaching by using LCD's and projectors. They are also equipped by digital library, online search engines and websites to prepare effective presentations. Online expert lectures by Industrial persons are conducted on various platform like Google meet, ZOOM, etc. Subject resources like notes, PPT's and assignments are provided on Google Classroom.

criteria-2 Sajane sir

Learning Method and ICT tools used

Sr No.	Learning method	ICT tool
1	Class Room Learning	PPTs / Study material — SSK ✓
2	Blended Learning	• NPTEL videos • You tube and other academy videos — PPB ✓ • Value Added Courses — PPB ✓ • Google meet / Microsoft Teams for online lectures → SSK ✓ • E-journal & E-books • Open source Library → SSK ✓
3	Experiential / Field learning	• Study of software in syllabus • Virtual Labs → SPPB ✓ • Industrial visits — THM ✓ • Inplant Training — THM ✓ • Internship — THM ✓
4	Participative Learning	• Augmentation Programs — MSP ✓ • Projects → SRM • Mini Project — AOS • Seminar → SRM • STTP/FDP attended • STTP/FDP Organized → MDP → to be shared by link on 6.3.2, 6.3.3 • Expert / Guest Conducted → SRM • Participation in Tech event → ATK ✓
5	Problem Solving Methodologies by ICT	• Tutorial • Assignment • Quizzes • ERP Software → SSK ✓

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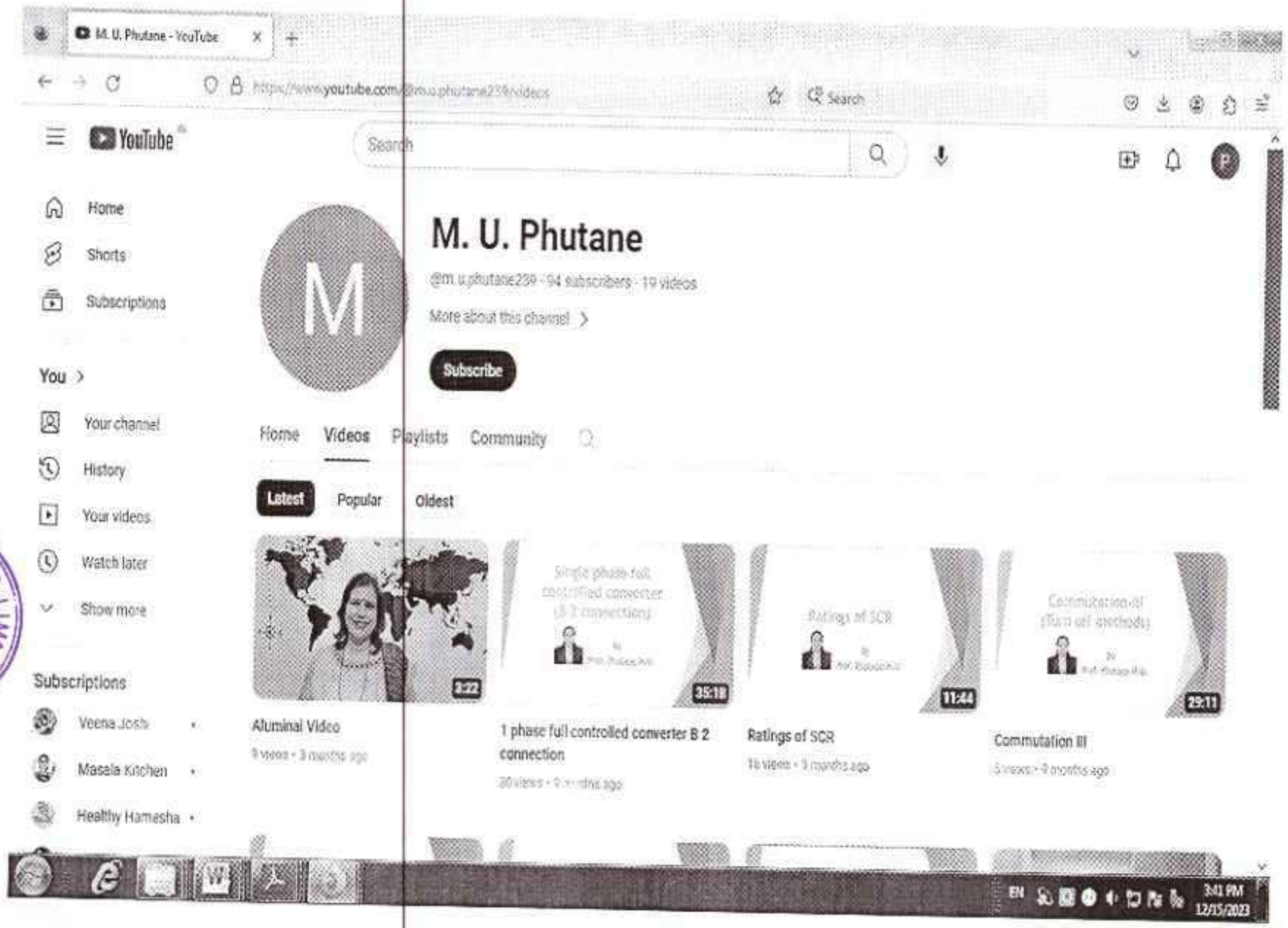

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Dr. J. J. Magdum College of Engineering, Jaysingpur

(NAAC "A" Grade & ISO 21001:2018 certified Institute)

Department of Electronics and Telecommunication Engineering

Academic Tear: 2022-23 Semester - II

VALUE ADDED COURSE: JAVA Programming

Dates: 26, 27, 28 and 29 May 2023 Time: 9.30am to 5.30pm

Sr.No	Name of Student	Sign Day1	Sign Day2	Sign Day 3	Sign Day 4
1	Babar Prasad Popat				
2	Sonawale Bhagyashree				
3	Patil Pratik Dushyant				
4	Sutar Nikita				
5	Shetti Namrata Sunil				
6	Koshti Snehal Prabhakar				
7	Khot Pradnya Arun				
8	Latif Saniya Shakil				
9	Nadaf Saniya Haroon				
10	Shinge Ranjeet Balaso				
11	Kamble Vinesh Vijay				
12	Chikalakki Dhanappa S.				
13	Patil Komal Bhanudas				
14	Kate Sneha Sanjay				
15	Vaidya Omkar Vaibhav				
16	Gurav Tejas Gurudatta				
17	Reena Babanrao Made				
18	Gaikwad Shweta S.				
19	Patil Gayatri Bharat				
20	Chavan Mohini Somnath				
21	Sanket Suresh Bhoi				
22	Patil Rohit Chandrakant				
23	Patil Chetan Sanjay				
24	Aniket Patil Thorat				
25	Kacchi Akil Hanif				
26	Mujawar Tanjeel M.				
27	Jathar Jayesh Sunil				
28	Sudhir Sale				
29	Kore Chaitanya Arvind				
30	ABHISHEK PAWAR (ETRX)				
31	KAJAL PATIL(ETRX)				

No. of students:- 30

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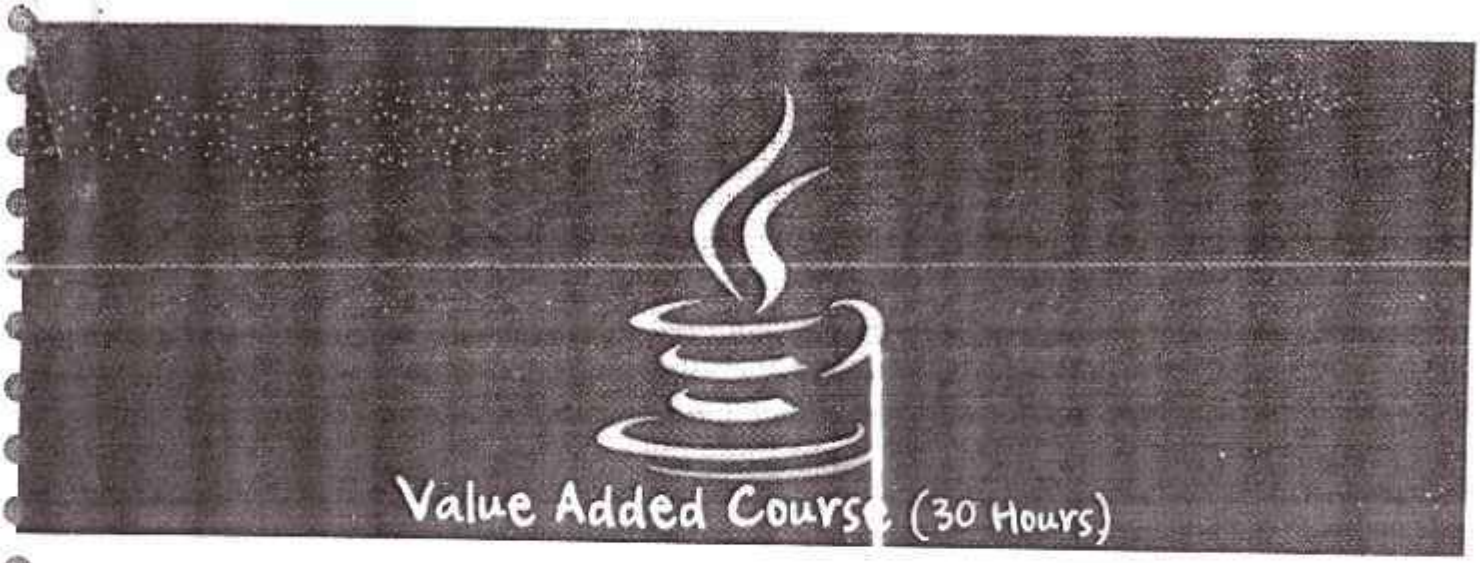

JAVA Programming Schedule

Course Contents drafted and to be delivered by -

Prof. Tahseen A. Mulla (M.Tech - CSE)
Assistant Professor
Department of Information Technology

Module 1 - Fundamentals of Java Programming — Hrs.

Object Oriented Programming Approach, Java programming environment, JVM, JDK, JRE, Bytecode, Structure of a Java program, A simple Java program, Naming conventions — **4**

Module 2 - Objects and Classes

Objects and Classes, Declaring objects and classes, Declaring member variables, Defining methods, Using objects, 'this' keyword, 'final' keyword, 'static' keyword, Constructors and Garbage collection — **5**

Module 3 - Inheritance, Interface and Package

What is Inheritance, Types of Inheritance, 'super' keyword, 'final' variables, Classes and Methods, What are Interfaces, Interface relationship, What are packages, Need for package, importing a package, creating a package, user defined packages, system defined packages — **5**

Module 4 - Exception Handling and Input/Output

What is Exception, Dealing with Errors, Hierarchy of Exception, Types of Exception, IO stream classes, reading a file, writing into a file, file attributes using IO related packages **5**

Module 5 - Event Handling, AWT and Swing

What is Exception Handling, Basics of Event Handling, Types of Events, Introduction to Applets, AWT hierarchy, AWT components, Swing components, Swing advanced components **6**

Module 6 - Multithreading and JDBC

What is multithreading, Processes and Threads in Java, Runnable interface, Thread class, Thread objects, Thread states, Thread priorities

Database in Java, Design/Architecture of JDBC, The structured query language, JDBC types, Driver manager - Connection, Statement and ResultSet **5**

The above contents are with hands-on practice as per the concepts/modules stated above

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Department of Electronics and Telecommunication Engineering

Ref-no- JJMCOE/ETC/2022-23/542 29/05/2023

To,
Prof.Tahseen A. Mulla
ADCET,
Ashta

Subject: Thanking

Dear Sir,

With reference to above subject, we are thankful to you for accepting our invitation and conducting 30 hours of value added course "Java Programming" for Final Year Students as a resource person. The students were benefitted by your guidance.

Hope same cooperation in future.

Thanking you

Mrs.P.P.Belagali
Dept IQAC Coordinator

Mr.M.M.Kolap
HOD (ETC)

Received
29/05/2023

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Department of Electronics and Telecommunication Engineering

Ref no:- JJM(OE)ETC/2022-23/541 25/05/2023

To,

Prof.Tahseen A. Mulla

ADCET,

Ashta

Subject: Regarding Resource person for Value added Course

Dear Sir / Madam

With reference to above subject, we invite you as resource person for the value added course "Java Programming" for Final Year Students. The course duration will be for 30 hours. The course must be conducted on weekends or holidays.

Kindly accept the invitation and acknowledge the same.

Thanking you

Prof.Mrs.P.P.Belagali
Dept IQAC Coordinator

Prof. M.M.Kolap
HOD (ETC)

Dr. J. J. Magdum College of Engineering
Department
E & TC

Received
25/5/2023

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JAYSINGPUR
416101

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Certificate

This is to certify that .....Kajal Patil.....of

Class.B.Tech. Department of.....Electronics.....

successfully completed **"Value Added Course"**

entitled....."JAVA Programming"..... during the Academic

Year :2022-23.

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HEAD

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IQAC Coordinator

Dr. S. B. Patil
I/C Principal

Dr. S. S. Admuthe
Campus Director

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Certificate

This is to certify that ..... Abhishek Pawar ..... of

Class. B.Tech. Department of ..... Electronics .....

successfully completed **" Value Added Course "**

entitled ..... " JAVA Programming " ..... during the Academic

Year 2022-23.

HEAD DEPT.

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Certificate

This is to certify that ......Kore Chaitanya Arvind...............of

Class: [illegible] Department of...Electronics & Tele-Communication

successfully completed **" Value Added Course "**

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This is to certify that Sale Sudhir Darayappa of Class B. Tech. Department of Electronics & Tele-Communication successfully completed **"Value Added Course"** entitled "JAVA Programming" during the Academic Year 2022-23.

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This is to certify that ..... Chavan Mohini Somnath ..... of

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year .....

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This is to certify that ..... Made Reena Baburao ..... of

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This is to certify that Gaikwad Shweta of

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This is to certify that ..... Patil Gayatri Bharat ..... of Class. B.Tech. Department of.. Electronics & Tele-Communication successfully completed **"Value Added Course"** entitled ..... "JAVA Programming" ..... during the Academic Year : 2022 - 23.

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This is to certify that ..... Gurav Tejas Gurudatta ..... of

Class B.Tech Department of... Electronics & Tele-communication...

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This is to certify that ....Vaidya Omkar Vaibhav........................of

Class B.Tech. Department of...Electronics & Tele-communication

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This is to certify that .....Kate Sneha Sanjay.....of

Class B Tech Department of...Electronics & Tele-Communication...

successfully completed **" Value Added Course "**

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HEAD OF [illegible]

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VAC Coordinator

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This is to certify that ..... Latif Saniya Shakil ..... of

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entitled ... " JAVA Programming " .... during the Academic

year 20[illegible]-23

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This is to certify that ..... Koshti Snehal Prabhakar ..... of Class B.Tech. Department of Electronics & Tele-Communication ..... successfully completed **" Value Added Course "** entitled ..... " JAVA Programming " ..... during the Academic year : 2022-23.

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IQAC Coordinator

Dr. S. B. Patil
I/C Principal

Dr. S. S. Admuthe
Campus Director

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Certificate

This is to certify that ..... Patil Pratik Dushyant ..... of Class B.Tech. Department of Electronics & Tele-communication successfully completed **"Value Added Course"** entitled "JAVA Programming" during the Academic Year 2022-23

HEAD OF DEPT.

Prof. Mrs. Belegali P. P
IQAC Coordinator

Dr. S. B. Patil
I/C Principal

Dr. S. S. Admuthe
Campus Director

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Certificate

This is to certify that ..... Babar Prasad Popat ..... of

Class. B.Tech. Department of. Electronics and Tele-communication.

successfully completed **" Value Added Course "**

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Year 2022-23

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Prof. Mrs. Belegali P. P
QAC Coordinator

Dr. S. B. Patil
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Campus Director

FEEDBACK FORM Java programming VAC 22-23

Department of Electronics and Telecommunication Engineering
Dr.J.J.Magdum College of Engineering, Jaysingpur
26th to 29th May 2023

* Indicates required question

1. First Name *

2. (Middle Name) *

3. (last Name) *

4. Email ID *

5. Mobile Number *

6. How was the overall content of the Value added course- Java Programming *

Mark only one oval.

- 4 - Excellent
- 3 - Good
- 2 - Fair
- 1 - Poor

7. Whether the trainer had very strong expertise in the area *

Mark only one oval.

- 4 - Excellent
- 3 - Good
- 2 - Fair
- 1 - Poor

8. The pedagogy used in the workshop was very appropriate *

Mark only one oval.

- 4 - Excellent
- 3 - Good
- 2 - Fair
- 1 - Poor

9. Overall workshop was *

Mark only one oval.

- 4 - Excellent
- 3 - Good
- 2 - Fair
- 1 - Poor

Timestamp	First Name	(Middle Name)	(last Name)	Email ID	Mobile Number	How was the overall content of the Value added course- Java Programming	Whether the trainer had very strong expertise in the area	The pedagogy used in the workshop was very appropriate	Overall workshop was
5/5/2023 0:19:30	Reena	Babanrac	Made	madereena(	8600862483	3 - Good	3 - Good	3 - Good	3 - Good
5/5/2023 0:21:03	Sanket	Suresh	Bhoi	bhoisanket2	7620409008	4 - Excellent	4 - Excellent	4 - Excellent	4 - Excellent
5/5/2023 0:21:24	Bhagyashre	Sambhaji	Sonawale	sonawalebh	9175009662	4 - Excellent	4 - Excellent	4 - Excellent	4 - Excellent
5/5/2023 0:21:31	Aniket	Satish	Patil Thorat	aniket.patil1	8624822490	3 - Good	3 - Good	3 - Good	3 - Good
5/5/2023 0:22:17	Prasad	Popat	Babar	prasadbaba	7448233398	4 - Excellent	4 - Excellent	4 - Excellent	4 - Excellent
5/5/2023 0:23:35	Jayesh	Sunil	Jathar	jatharjayesh	7385806978	3 - Good	3 - Good	3 - Good	3 - Good
5/5/2023 0:27:13	Gayatri	Bharat	Patil	patilgayatri8	8975515151	3 - Good	3 - Good	3 - Good	3 - Good
5/5/2023 0:28:25	Tejas	Gurudatt	Gurav	tejasgurav0(	9145412112	3 - Good	3 - Good	3 - Good	3 - Good
5/5/2023 0:29:44	Dattnappa	Somaning	Chikalakk	chikkalakids	9665124875	4 - Excellent	3 - Good	4 - Excellent	4 - Excellent
5/5/2023 1:25:35	Saniya	Shakil	Latif	saniyalatif18	+918767085983	3 - Good	3 - Good	3 - Good	3 - Good
6/5/2023 1:57:55	Omkar	Vaibhav	Vaidya	omkarvaidya	8669465769	3 - Good	3 - Good	3 - Good	3 - Good
6/5/2023 2:26:47	Shweta	Suryakan	Gaikwad	shwetagaikv	+917249622172	3 - Good	3 - Good	3 - Good	4 - Excellent
6/5/2023 3:51:42	Pradnya	Arun	Khot	pradnyakhot	7972698485	4 - Excellent	3 - Good	4 - Excellent	4 - Excellent
6/5/2023 4:31:12	Tanjeel	Mahamad	Mujawar	mujawartanj	9172283056	4 - Excellent	4 - Excellent	4 - Excellent	4 - Excellent
6/5/2023 6:48:16	SUDHIR	DARYAPI	SALE	iamsudhirsa	9890230068	4 - Excellent	4 - Excellent	4 - Excellent	4 - Excellent
6/5/2023 23:35:49	AKIL	HANIF	KACCHI	akilkacchi78	9373615061	3 - Good	4 - Excellent	3 - Good	3 - Good
6/6/2023 18:30:45	Pratik	Dushyant	Patil	pratikdpatil2	9860093901	3 - Good	3 - Good	3 - Good	3 - Good

Subject : Simulation Modeling.
class : TY ETC.

Python Lists

Prof. S. S. Karadge.

Python Collections (Arrays)

- List is a collection which is **ordered** and **changeable.** Allows duplicate members.
- Tuple is a collection which is **ordered** and **unchangeable.** Allows duplicate members
- Set is a collection which is **unordered, unchangeable,** and un-indexed. No duplicate members.
- Dictionary is a collection which is **ordered** and **changeable**. No duplicate members.

List

- Lists are used to store multiple items in a single variable.
- Lists are one of 4 built-in data types in Python used to store collections of data, the other 3 are Tuple, Set, and Dictionary, all with different qualities and usage.

- Lists are created using square brackets:
- **Example**
- Create a List:

```
thislist = ["apple", "banana", "cherry"]
print(thislist)
```

['apple', 'banana', 'cherry']

List Items

- List items are ordered, changeable, and allow duplicate values.
- List items are indexed, the first item has index [0], the second item has index [1] etc.

- Ordered
- When we say that lists are ordered, it means that the items have a defined order, and that order will not change.
- If you add new items to a list, the new items will be placed at the end of the list.
- **Note:** There are some list methods that will change the order, but in general: the order of the items will not change.

- **Changeable**
- The list is changeable, meaning that we can change, add, and remove items in a list after it has been created.
- **Allow Duplicates**
- Since lists are indexed, lists can have items with the same value:

- **Example**
- Lists allow duplicate values:
- thislist = ["apple", "banana", "cherry", "apple", "cherry"]
  print(thislist)

- *['apple', 'banana', 'cherry', 'apple', 'cherry']*

- **List Length**
- To determine how many items a list has, use the len() function:
- **Example**
- Print the number of items in the list:
- thislist = ["apple", "banana", "cherry"]
  print(len(thislist))

- 3

- **List Items - Data Types**
- List items can be of any data type:
- **Example**
- String, int and boolean data types:
- list1 = ["apple", "banana", "cherry"]
  list2 = [1, 5, 7, 9, 3]
  list3 = [True, False, False]

output

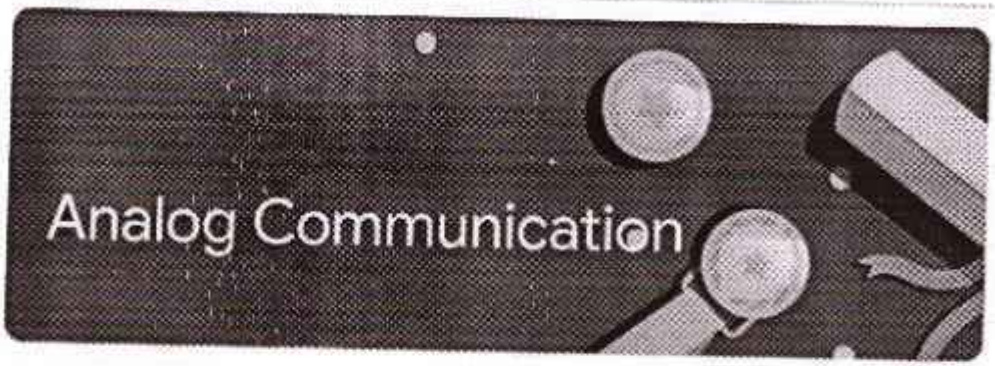
- ['apple', 'banana', 'cherry']
- [1, 5, 7, 9, 3]
- [True, False, False]

- **Example**
- A list with strings, integers and boolean values:
- list1 = ["abc", 34, True, 40, "male"]

- ['abc', 34, True, 40, 'male']

- **type()**
- From Python's perspective, lists are defined as objects with the data type 'list':
- *<class 'list'>*
- **Example**
- What is the data type of a list?
- mylist = ["apple", "banana", "cherry"]
  print(type(mylist))

- **The list() Constructor**
- It is also possible to use the list() constructor when creating a new list.
- **Example**
- Using the list() constructor to make a List:
- thislist = list(("apple", "banana", "cherry")) # note the double round-brackets
  print(thislist)



Share with your class...

New assignment: Assignment number 1
9 Feb 2022 (Edited 18 Sept)

1 class comment

New material: Block diagram of communication sytem
14 Sept

Add class comment

Dr.Mrs.Tejashri Mohite-Patil
12 Dec 2022

Block diagram of Communication System video

1 attachment

Add class comment

Dr.Mrs.Tejashri Mohite-Patil

Stream | Classwork | People

TCP/IP Protocol Suit Overview

Write a Note on
1) ARP (Address Resolution Protocol)

- An internet consists of various type of networks & the connecting devices like routers.
- A packet starts from source host, passes through many physical to networks and finally reaches the destn host.
- At the host network level, the hosts & routers are recognized by the IP addresses.

IP Addresses:
- An IP address is an Internetwork address.
- It is universally unique address.
- Every protocol involved in internetworking requires IP address.

MAC Address:
- The packets from source to destination hosts pass through physical networks. At physical level the IP addres is not useful but the hosts and routers are recognized by their MAC address.
- A MAC addres is local address. It is unique locally but it is not unique universally.
- The IP and MAC address are two diff identifiers & both of them are needed, because a physical n/w can have two diff protocols at the n/w layer at same time.
- Similarly a packet may pass through many diff phy n/w's.
- So to deliever a packet to host or a router, we require two levels of addressing namely IP addreing & MAC addy.
- Most importantly we should be able to map the IP addres into a corresponding MAC addres.

Mapping of IP addres into MAC addres:
It is of two types:

1) Static Maping 2) Dynamic Maping.

1) Static Mapping:

- In SM a table is created & stored in each machine. Every machine has its table associate an IP add with a MAC address.
- If a machine knows IP add of another machine then it can search for corresponding MAC add in its table.
- The limitation of static mapping is that the MAC address can change. To implement static mapping, the static mapping table should be updated periodically.

2) Dynamic Mapping:

- In dynamic mapping technique a protocol is used for finding the ~~order~~ other address when one type of addl is known
- there are two protocols designed to perform dynamic mapping. They are ① Address Resolution Protocol (ARP)
  ② Reverse ARP (RARP).
- The ARP maps an IP address to a MAC add whereas the RARP maps a MAC address to an IP address.

ARP Operation:

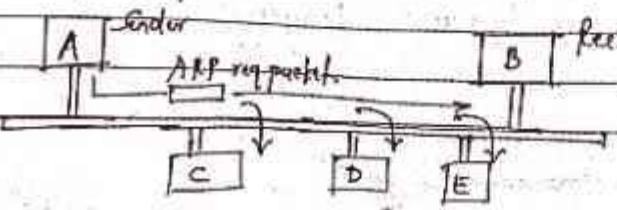
- ARP is used for associating an IP address to its MAC address. For a LAN, each device has its own phy or station address as it's identification. this add is imprinted on NIC (N/w Interface Card)

How to find MAC address?

When a router or a host needs to find the MAC address of another host or n/w the seq of events taking is as follows:-

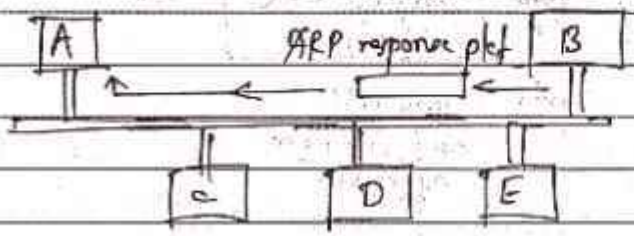
1. The router or host A who wants to find the MAC address of some other router, sends an ARP request packet. This packet consists of IP & MAC address of sender A & the IP add of receiver (B)

2. This request packet is broadcasted over n/w as shown below:-



Every host and router on n/w recieves and process the ARP request packet. But only intended reciever (B) recognizes its IP address in request packet and sends back an ARP response pckt.

4. The ARP response packet contains IP and physical address of Rx (B). This packet is delievered only to A (Unicast) using A's physical add in ARP request packet.



ARP Packet format:-

Hardware Type (16 bits)		Protocol type (16 bits)
Hardware length	Protocol length	Operation req 1, Reply 2
Sender hardware address		
Sender protocol address		
Target hardware address		
Target protocol address		

Encapsulation:

- An ARP packet (request or reply) is encapsulated directly into the data link frame.
- Fig shows an ARP encapsulated in Ethernet frame.
- The type of field in indicates that data carried by the frame is an ARP req or reply packet.

type field indicates that data carried by frame is ARP pkt

Preamble & SDF	Destn add	Source add	Type	Data	CRC
8 byte	6 byte	6 byte	2 byte	Data field cont ARP req or reply pkt	

RARP (Reverse Add Resln Protocol)

- RARP is a part of TCP/IP protocol suite. It allows a computer, particularly a diskless workstation, to obtain an IP add from server. When a diskless TCP/IP workstation is booted on a n/w, it broadcast a RARP req packet on the local n/w.
- This add pkt is broadcast on n/w for all to recieve because the workstation does not know the IP add of server that can supply it with an address.
- It indicates its own phy n/w add (the MAC add) in the request so the server will know where to return a reply.
- The server that recieves the req looks in a table & matches the MAC add with an IP add, and then returns the IP addresses to diskless workstation. See also

Internet Protocol:

- This is host to host n/w layer delievery protocol designed for the Internet.
- IP is a connectionless datagram protocol with no gurantee of reliability.
- It is an unreliable protocol because it does not provide any error control or flow control.
- IP can only detect the error and discards the packets if it is corrupted.
- If IP is to be made more reliable, then it must be paired with reliable protocol such as TCP at the transport layer.
- Each datagram is handled independently and each one can follow a diff route to dest^n.
- So there is possibility of recieving out of order packet at dest^n. Some pkt may even be lost or corrupted.
- IP relies on a higher level protocol to take care of all these problems.

Q) Explain Header format of IPV6?

IPV6 fo...

- IPV6 is next generation Internet Protocol designed as a successor to IP version 4. IPV6 was designed to enable high performance, scalable Internet.
- This was achieved by overcoming many of the weaknesses of IPV4 protocol and by adding several new features.

Advantages of IPV6

1) Large add space: IPV6 has 128-bit add space, which is 4 times wider in bits in compared to IPV4's 32 bit add space. So there is huge increase in add space.

2) Better Header format: IPV6 uses a better header format. In its header format option are seperated from base header.
- The option are inserted when needed, betn base header & upper layer data.
- The helps in speeding up routing process.

3) New options:
- New options have been added in IPV6 to increase functionality

4) Possibility of extension:
- IPV6 has been designed in such a way that there is possibility of extension of protocol is required.

5) More Security:
- It include encryption of packets.

6) Support to resource allocation:
- To implement better support for real time traffic (video conf) IPV6 include flow label in specifh. Hlith flow label mechanism routers can recognize to which end-to-end flow the pkt belongs

7) Plug and Play:
Connect machine to n/w automatically

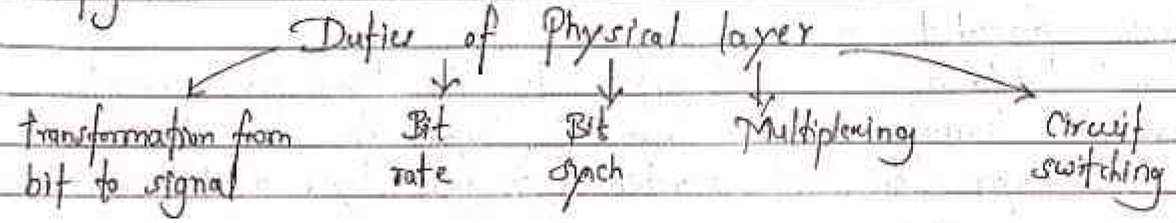
Data Link Layer

Physcial layer

Q) Write a note on Physcial Layer Design Issues?

The physcial layer defines the actual medium which is used for carrying data from one computer to another.

- The major task of physcial layer is to provide service for data link layer.
- fig



1) Transf^n from bit to signal:

- The data link consist of 0's and 1's in bit form. this bit stream can not travel as it is on the tx medium.
- So physcial layer converts bit stream into a signal which is suitable for the tx medium.

2) Bit rate control:

- The tx medium decide the highest value of bit rate & physsial layer act as bit controller.
- The design of physcial layer hardware & software determine the data rate.

3) Bit synchronization:

- The timing related to data bit transfer is very important in computer comm^n.
- The phy layer governs the synch of bits by providing a c/k which controls the tx as well as Rx.

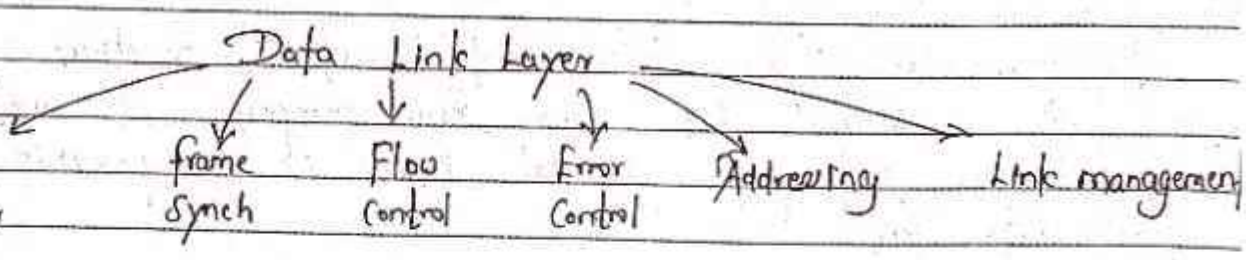
4) Multiplexing:

Physcial layer can use diff techn of mux, In order to improve the channel efficiency.

5) Switching:

There are three switching methods namely ckt switching, msg switching & packet switching. Out of which ckt switching is funct^n of physical layer.

Q) Data link layer design Issues:



1) Service provided to n/w layer:
A well defined service interface to n/w layer. The principle service is transfering data from n/w layer on soure machine to n/w layer on destn machine to n/w layer on destn machine.

2) Frame Synch
The soure machine sends data in blocks called frames to the destn machine. The starting & ending of each frame should be recognised by destn machine.

3) Flow control:
The source machine must not send data frames at rate faste than destn machine can accept them.

4) Error control:
The error made in bits during tx from source to destn machine must be detected and corrected.

5) Addressing:
On a multipt line, such as many machine connected togethor (LAN), the identity of individual machine must be specified while transmitted data frames.

6) Control and data on some link:
The data and control infn is combined in frame & transmit from source to destn machine. The destn machine must be able to recognise control infn from data being transmitted.

7) Link management:
The initiation, maintenance & termination of link betn the

SHIVAJI UNIVERSITY, KOLHAPUR

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT NAME: EMBEDDED SYSTEMS

Course Details

Class	**Final Year B. Tech. Semester - VII**
Course Code and Course Title	**PCC-ETC 702: Embedded Systems**
Prerequisites	**Fundamentals of Microprocessor and Microcontroller and 'C' Programming**
Teaching scheme :Lectures + Practical	**4 Hrs. + 2 Hrs.**
Credits	**4 + 1**
Evaluation Scheme ESE + CIE for Theory	**70 (ESE) + 30 (CIE)**

Teaching scheme	**Examination scheme**
Lectures : 4 Hrs./ Week	**Theory : 100 Marks, 70 (ESE) + 30 (CIE)**
Practical : 2 Hrs./ Week	**TW: 25 Marks POE: 50 Marks**

Course Objectives: The course aims to :	
1.	Study different concepts and programming of PIC 16F877
2.	Study different on-chip resources of PIC 16F877
3.	Study different concepts of ARM7
4.	Study Programming of ARM7
5.	Study different on chip resources of LPC 2148
6.	Understand basic concepts of RTOS

Outcomes: Upon successful completion of this course, the students will be able to:	
1.	Develop programs using PIC 16F877
2.	Apply on-chip resource facility of PIC 16F877.
3.	Understand Embedded systems and concepts of ARM7.
4.	Develop programs using ARM7
5.	Apply on chip resource facility of LPC 2148.
6.	Understand RTOS concept

COURSE CONTENTS		
Unit No.1	**INTRODUCTION TO PIC MICROCONTROLLER** Difference between RISC and CISC architecture, Features of PIC 16F877, Functional Pinout, CPU Architecture, Memory organization, Register file structure, CPU Registers: Status Word, FSR, INDF, PCLATH, PCL, Instruction set, Addressing modes and Simple assembly language Programming.	**8 Hrs.**
Unit No.2	**ON-CHIP RESOURCES OF PIC 16F877** I/O Ports, Timers, CCP Module, ADC, I2C, SPI, Associate registers and programming, Interrupt structure, Configuration word, Oscillator configuration, Reset alternatives.	**8 Hrs.**
Unit No.3	**INTRODUCTION TO EMBEDDED SYSTEM AND ARM PROCESSOR EMBEDDED SYSTEM:** Embedded System definition, Types of Embedded System, Characteristics and Design issues of Embedded systems. **ARM:** Embedded system Hardware, ARM data flow model, Register set, CPSR, Pipelining, Exceptions Interrupts & Vector Table, Cache and Tightly coupled memory, ARM Nomenclature.	**8 Hrs.**
Unit No.4	**INSTRUCTION SET AND PROGRAMMING** ARM Instruction set, Thumb Instruction set, Simple assembly language programming.	**7 Hrs.**
Unit No.5	**LPC 2148 MICROCONTROLLER** Features, Architecture details, Port structure, Timer/Counter, UART, ADC module, Embedded 'C' programming for interfacing LED's, LCD, Keyboard.	**9 Hrs.**
Unit No.6	**REAL TIME OPERATING SYSTEM (RTOS)** Introduction to RTOS concept, Embedded software architectures: Round robin, Round robin with interrupts, Function queue scheduling and Real time operating system, Tasks and Task states, Task scheduling, Shared data and Reentrancy, Semaphores and shared data using semaphores, Protecting shared data.	**8 Hrs.**

Text Books:

1.	Design with PIC Microcontrollers by John B. Peatman, Pearson
2.	Embedded System Design By Frank Vahid / Tony Givargis, Wiley Publication
3.	An Embedded Software Primer, David E. Simon Pearson Education, Asia Publication
4.	ARM System Developers Guide Designing & Optimizing System Software by Andrew N., Dominic Sloss, and Chris Wright.
5.	Datasheet of PIC16F877 and LPC 2148

REFERENCE BOOKS:

1.	Embedded systems by Raj Kamal, McGraw Hill
2.	Real- Time Systems Design and Analysis by Phillips A. Laplante, Wiley insia Edition.
3.	Embedded/ Real-Time Systems: Concepts, Design & Programming By Dr. K V K K Prasad, Dreamtech Press
4.	Embedded Systems (A contemporary design tool) by James K Peckol, Wiley Publication.

LIST OF EXPERIMENTS : (MINIMUM EIGHT (8) EXPERIMENTS)

Sr. No.	Title of Experiment
1.	To study Arithmetic and Logical instructions in PIC 16F877.
2.	To study Indirect Addressing mode in PIC 16F877.
3.	To Flash LED connected to Port using Timer delay in PIC 16F877
4.	To study any application using CCP Module in PIC 16F877
5.	To demonstrate serial communication in PIC 16F877
6.	To study Arithmetic and Logical instructions in LPC 2148
7.	To study Load and Store instructions in LPC 2148
8.	To flash the Port pin of LPC 2148 using Embedded 'C'.
9.	To demonstrate input/ output device interfacing related programs in LPC 2148 using Embedded 'C'.
10.	To demonstrate serial communication in LPC 2148 using Embedded 'C'.

GUIDELINES TO PAPER SETTER:

In theory ESE examination of 70 marks following points should be considered:

Question paper should contain 30% programming and 70% theory.

Q.1 MCQ's based on complete syllabus. (14 Marks)
Q.2 Based on unit no 1, 2, 3 (Carries 14 marks)
Q.3 Based on unit no 1, 2, 3 (Carries 14 marks)
Q.4 Based on unit no 4, 5, 6 (Carries 14 marks)
Q.5 Based on unit no 4, 5, 6 (Carries 14 marks)

SHIVAJI UNIVERSITY, KOLHAPUR
ELECTRONICS AND TELECOMMUNICATION ENGINEERING
SUBJECT NAME: COMPUTER NETWORKS

Course Details

Class	**Final Year B. Tech. Sem-VII**
Course Code and Course Title	**PCC-ETC703: Computer Networks**
Prerequisites	**Digital Communication**
Teaching scheme: Lectures + Practical	**4 Hrs. + 2 Hrs.**
Credits	**4 + 1**
Evaluation Scheme ESE + CIE for Theory	**70 (ESE) + 30 (CIE)**

Teaching scheme	**Examination scheme**
Lectures: 4 Hrs. /Week	**Theory: 100 Marks, 70 (ESE) + 30 (CIE)**
Practical: 2 Hrs./Week	**TW: 25 Marks, OE: 50 Marks**

Course Objectives: The course aims to :	
1	To provide students with an overview of the concepts and fundamentals of data communication and computer networks
2	Review the state of art in open research area such as LAN, MAN, WLAN & applications Computer Networking
3	Acquire the required skill to design simple computer networks.
4	Describe various functions and protocols at each layer of OSI and TCP/IP reference models.

Course Outcomes: Upon successful completion of this course, the students will be able to:	
1	State the evolution of Computer network, classifies different types of Computer Networks.
2	Design, implements, and analyzes simple computer networks.
3	Identify, formulate, and solve network engineering problems.
4	Illustrate different OSI and TCP/IP protocols.

COURSE CONTENTS		
Unit No.1	**INTRODUCTION TO COMPUTER NETWORK** History and development of computer network, network application, network software and hardware components, reference models: layer details of OSI,TCP/IP models., Network topology, Transmission media and types, Network Devices: Network Connectors, Hubs, Switches, Routers, Bridges.	**6 Hrs.**
Unit No.2	**DATA LINK LAYER** Design issues, sliding window protocols. HDLC – types of stations, modes of operation & frame formats, Random access Protocols, IEEE 802.3 frame formats.	**6 Hrs.**
Unit No.3	**NETWORK LAYER** Design issues, Routing algorithms – shortest path, distance vector routing, link state routing. Routing protocols - RIP, OSPF, IP Addressing, Subnetting/super netting, IPv4, IPv6 header format and basic address mode, DHCP, Congestion control, traffic shaping algorithms.	**8 Hrs.**
Unit No.4	**TRANSPORT LAYER** Transport layer-Process to process delivery, UDP, TCP, TCP services, TCP Segment, TCP Timers, Flow control, congestion control and Quality of Service.	**8 Hrs.**
Unit No:5	**APPLICATION LAYER** DNS, HTTP, SMTP, Telnet, FTP	**8 Hrs.**
Unit No.6	**MULTIMEDIA IN INTERNET** Streaming stored audio/video, Real-time interactive audio/video, Real-time transport protocol (RTP),Real-time transport control protocol (RTCP), Voice over IP (VoIP)	**6 Hrs.**

TEXT BOOKS:

1	Forouzan, , "Data Communication and Networking" IInddedition,TataMc-Graw Hill, Publication
2	Tanenbaum, "Computer Neworks", IVth Edition, pearson Education

REFERENCE BOOKS:

1	Wayne Tomasi, "Introduction to Data communications and Networking" Pearson Education.
2	Forouzan, "TCP/IP Protocol Suite", IIIrd Edition Tata Mc-Graw Hill publication.

NOTE: Minimum Eight Practical's based on above syllabus.

GUIDELINES TO PAPER SETTER:

In theory ESE examination of 70 marks following points should be considered:

Q.1 MCQ's based on complete syllabus. (Carries14 Marks)
Q.2 based on unit no 1, 2, 3 (Carries 14 Marks)
Q.3 based on unit no 1, 2, 3 (Carries 14 Marks)
Q.4 based on unit no 4, 5, 6 (Carries 14 Marks)
Q.5 based on unit no 4, 5, 6 (Carries 14 Marks)

SHIVAJI UNIVERSITY, KOLHAPUR
ELECTRONICS AND TELECOMMUNICATION ENGINEERING
SUBJECT NAME: IMAGE PROCESSING

Course Details

Class	**Final Year B. Tech. Sem-VII**
Course Code and Course Title	**PCC-ETC704: Image processing**
Prerequisites	**Digital Signal processing**
Teaching scheme: Lectures + practical	**4 Hrs. + 2 Hrs.**
Credits	**4 + 1**
Evaluation Scheme ESE + CIE for Theory	**70 (ESE) + 30 (CIE)**

Teaching scheme	**Examination scheme**
Lectures: 4 Hrs. /Week	**Theory: 100 Marks, 70 (ESE) + 30 (CIE)**
Practical: 2 Hr./Week	**TW: 25 Marks**

Course Objectives: The course aims :	
1	To study fundamentals of Digital Image Processing.
2	To acquaint students with mathematical transforms for image processing.
3	To familiarize students with image filtering techniques.
4	To understand different morphological operations.
5	To introduce various image segmentation techniques.
6	To explain different image compression techniques and color image processing.

Course Outcomes: Upon successful completion of this course, the students will be able to:	
1	List fundamental steps involved in Digital Image Processing.
2	Apply different transforms and filtering techniques on an image.
3	Apply morphological operations
4	Perform image segmentation
5	Apply compression techniques.
6	Perform various operations on color image.

COURSE CONTENTS		
Unit No.1	**DIGITAL IMAGE FUNDAMENTALS** Fundamentals steps in DIP, Components of image processing system, Elements of Visual Perception, Image sensing and acquisition, image sampling and quantization, basic relations between pixels	**8 Hrs.**
Unit No.2	**IMAGE TRANSFORMS** Basic intensity transformation: image negation, Log transformation, power law transformation, Piecewise linear transformation functions, arithmetic and Logic operation, Histogram processing (equalization and matching), sine cosine, Hadamard, Haar, Slant transform .	**8 Hrs.**
Unit No.3	**IMAGE FILTERING** Fundamentals of spatial filtering, smoothening and Sharpening in spatial domain, smoothening and Sharpening in frequency domain.	**7 Hrs.**
Unit No.4	**MORPHOLOGICAL IMAGE PROCESSING** Dilation & erosion, opening and closing operation, Hit- or –miss transformation. Basic morphological algorithms: Boundary extraction, region filling, thinning and thickening, skeletons	**8 Hrs.**
UnitNo.5	**IMAGE SEGMENTATION** Detection of discontinuities: Point detection, line detection, edge detection, (Sobel, Prewitt, Laplacian), global and adaptive thresholding, Region based segmentation (region growing, region splitting and merging).	**8Hrs.**
Unit No.6	**IMAGE COMPRESSION** Fundamentals, Coding redundancy , interpixel redundancy, fidelity criteria , image compression model, lossless predictive coding, Lossy predictive coding **Color Image Processing**	**9 Hrs.**
	Color fundamentals, Color models , psudocolor, image processing, full color image processing, Color transformations	

TEXT BOOKS:

1	Digital image processing : Rafael C Gonzalez , Richard E. Woods: Pearson Publication
2	Digital image processing and Analysis- B. Chanda , D. Datta , majnudar
3	Fundamentals of digital Image Processing- Anil K.Jain.

REFERENCE BOOKS:

1	Digital image processing- S. Jayraman, S Esakkiarajan , Veerakumar:MGH
2	Digital image processing and Analysis- B. Chanda , D. Datta, majnudar:PHI
3	Digital image processing using Matlab- Rafael C Gonzalez
4	Fundamentals of Digital Image Processing-S.Annadurai, R. Shanmugalaxmi : Pearson Publication
5	Digital Image Processing- S.Shridhar 6 Digital Image Processing – Pratt

Practical based on MATLAB/Scilab programs: Any Eight experiments based on above syllabus

1	Reading and displaying of image (Various image file format) and to understand the notion of connectivity and neighborhood defined for a point in an image.
2	Simple gray level transformation
3	Histogram processing
4	Image transforms
5	Image arithmetic operations
6	Image smoothening operation
7	Edge detection
8	Morphological operation
9	Segmentation using thresholding
10	image compression
11	Color image Processing

GUIDELINES TO PAPER SETTER:

In theory ESE examination of 70 marks following points should be considered:

Q.1 MCQ's based on complete syllabus. (Carries 14 Marks)
Q.2 based on unit no 1, 2, 3 (Carries 14 Marks)
Q.3 based on unit no 1, 2, 3 (Carries 14 Marks)
Q.4 based on unit no 4, 5, 6 (Carries 14 Marks)
Q.5 based on unit no 4, 5, 6 (Carries 14 Marks)

SHIVAJI UNIVERSITY, KOLHAPUR

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT NAME: WIRELESS COMMUNICATION

Course Details

Class	**Final Year B. Tech. Sem-VIII**
Course Code and Course Title	**PCC-ETC 802: Wireless Communication**
Prerequisites	**Communication**
Teaching scheme : Lectures +Practical	**4 Hrs. + 2 Hrs.**
Credits	**4 + 1**
Evaluation Scheme ESE + CIE for Theory	**70 (ESE) +30 (CIE)**

Teaching scheme	**Examination scheme**
Lectures: 4 Hrs. /Week	**Theory: 100 Marks, 70 (ESE) + 30 (CIE)**
Practical: 2 Hrs./Week	**TW: 25 Marks**

Course Objectives: The course aim is to :	
1	Focus on basic fundamentals of wireless communication.
2	Explain large & small scale radio wave propagation
3	Understand basic wireless technology
4	Understand various wireless protocols

Course Outcomes: Upon successful completion of this course ,the students will be able to:	
1	List basic fundamentals of wireless communication
2	Analyze large & small scale radio wave propagation
3	Able to understand basic wireless technologies
4	Able to understand and analyze wireless concepts

Course Contents		
Unit No.1	**FUNDAMENTALS OF WIRELESS COMMUNICATION:** Wireless communication system, wireless media, Frequency spectrum, Technologies in digital wireless communication, WCOM channel specifications, Types of wireless communication, challenges in WC. Cellular concept: Introduction, frequency reuse ,Channel Assignment strategies, Handoff strategies, interface and system capacity, Trunking &grade of service, Improving coverage & capacity in cellular system	**8 Hrs.**
Unit No.2	**MOBILE RADIO PROPAGATION. LARGE SCALE PATH LOSS:** Introduction to Radio Wave propagation, Free Space propagation model, Relating Power to Electric Field, The three Basic Propagation Mechanisms, Reflection, Ground Reflection (Two-Ray) Model, Diffraction, Scattering, Outdoor Propagation Models, Indoor Propagation Models.	**8 Hrs.**
Unit No.3	**MOBILE RADIO PROPAGATION SMALL-SCALE FADING AND MULTIPATH :** Small-Scale Multipath Propagation, Impulse Response Model of a Multipath Channel, Small-Scale Multipath Measurements, Parameters of Mobile Multipath Channels, Types of small-Scale Fading.	**8 Hrs.**
Unit No.4	**WIRELESS NETWORKING: INTRODUCTION TO WIRELESS NETWORKS** Difference Between Wireless and Fixed Telephone Networks, Development of Wireless Networks, Fixed Network Transmission Hierarchy, Traffic Routing in Wireless Networks, Common Channel Signaling (CCS),Architecture of B-ISDN & services,	**9 Hrs.**
Unit No.5	**WIRELESS LAN & BLUETOOTH** Introduction, Infrared radio transmission infrastructure and adhoc networks, Detailed study of IEEE 802.11, Bluetooth, Wireless ATM.	**7 Hrs.**
Unit No.6	**WIRELESS ACCESS PROTOCOL** WAP (Wireless Application Protocol) architecture, Wireless Datagram, Wireless Transport layer security, wireless transaction, Wireless Session, Wireless Application Environment ,WML	**8 Hrs.**

TEXT BOOKS:

1	Wireless Communications Principals & Practice- Theodore S. Rappaport, (P.E.)
2	Mobile Communications: Jachen Schiller (Addison Westy)

3	Wireless and Mobile Networks Concept and protocols – Dr. Sunil kumar S Manvi Wiley India

REFERENCE BOOKS:

1	Wireless Networks by P. Nicopolitidis, M. S. Obaidat, G. I. Papadimitriou, A. S.Pomportsis; Wiley Pub.
2	Wireless Communication & Networks by William Stallings(Pearson Edition)
3	Wireless communication and Networks by Upena Dalal(Oxford)

LIST OF EXPERIMENTS: (ANY EIGHT (8) EXPERIMENTS)

1	Study of ISDN Trainer kit Hardware & Software Setup.
2	Study of Architecture of ISDN kit.
3	Study of Analog & Digital Subscriber Link establishment using ISDN trainer kit.
4	Study of numbering plans in ISDN trainer kit.
5	Study of Establishment point to point & Multidraft Links using ISDN.
6	Study of Protocol Analysis (based on any protocol).
7	Study of Mobile Communication Set up (Study of Link Mobile Trainer Kit , Handset).
8	Study of Multiple Access Techniques (Any one).
9	Visit to Mobile Company Like BSNL , AIRTEL , Idea.
10	Implementation of outdoor propagation Model (Any one) using Matlab.
11	Implementation of Free Space propagation model using Matlab

GUIDELINES TO PAPER SETTER:

In theory ESE examination of 70 marks following points should be considered:

Q.1 MCQ's based on complete syllabus (Carries 14 Marks)
Q.2 Based on unit no 1, 2, 3 (Carries 14 marks)
Q.3 Based on unit no 1, 2, 3 (Carries 14 marks)
Q.4 Based on unit no 4, 5, 6 (Carries 14 marks)
Q.5 Based on unit no 4, 5, 6 (Carries 14 marks)

SHIVAJI UNIVERSITY, KOLHAPUR

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT NAME: DIGITAL AND VLSI DESIGN

Course Details

Class	**T. Y. B. Tech. Sem - V**
Course Code and Course Title	**PCC-ETC503 : Digital and VLSI Design**
Prerequisites	**Fundamentals of Electronics**
Teaching scheme : Lectures + Practical	**4 Hrs. + 2 Hrs.**
Credits	**4 + 1**
Evaluation Scheme ESE + CIE for Theory	**70 (ESE) + 30 (CIE)**

Teaching scheme	**Examination scheme**
Lectures : 4 Hrs. / Week	**Theory : 100 Marks,** **70 (ESE) + 30 (CIE)**
Practical : 2 Hrs. / Week	**TW: 25 Marks** **POE: 50 Marks**

Course Objectives:

The course aims to :

1	Understand principles and operations of combinational & sequential logic circuits.
2	Design & implement digital circuits (combinational & sequential) using VHDL
3	Explain students the fundamental concepts of Hardware Description Language and design flow of digital system design.

Course Outcomes:

Upon successful completion of this course, the students will be able to:

1	Apply Boolean laws/K-Map-method, to reduce a given Boolean function
2	Design & realize combinational logic circuits using logic gates.
3	Demonstrate the operation of flip-flops, counters , shift registers Synchronous sequential machine using Moore and Mealy machine
4	Design combinational and sequential logic circuits using various description techniques in VHDL

Course Contents		
Unit No: 1	**Basics of digital systems:** Generation of Switching Equations from Truth Table , Canonical forms ,K-map(Karnaugh map) 2,3,4 and 5 variables, K map with Don't care terms - Quine Mc-Cluskey minimization technique, Quine Mc-Cluskey using Don't Care Terms ,Binary codes, Code Conversion.	**7 Hrs.**
Unit No: 2	**Introduction to VHDL:** Level of abstraction. Need of HDL,VLSI Design flow, Features and capabilities of VHDL, Elements of VHDL (Entity Architecture, Library, Package, and Configuration), Modeling styles in VHDL, Identifiers, operators , Data objects, data types, literals, Delay Models, Concurrent and sequential statement.	**7 Hrs.**
Unit No: 3	**Combinational logic Design :** Adder, Subtractor, Code converters (binary to gray & gray to binary, BCD to Excess 3 and vice versa, BCD to 7 segment display),Multiplexer and Demultiplexer , Encoder, Priority encoder, Decoder, Comparator , ALU, Barrel shifter. VHDL coding for combinational circuits.	**7 Hrs.**
Unit No: 4	**Sequential logic Design:** 1-Bit Memory Cell, Latches (SR, JK, D and T), Clocked latches (SR,	**7 Hrs.**

	JK, D and T), flips flop (SR, JK, T and D). Use of preset and clear, Excitation Table for flip flops, and Conversion of flip flops, Timing parameters of FF, Shift registers (SISO, SIPO, PIPO, and PISO). VHDL coding for Sequential circuits.	
Unit No: 5	**Counters and Finite State Machines:** Counter – ripple counters ,synchronous counters , Up/down counters, Ring counters, Johnson Counter, MOD-N counter, FSM, Moore/Mealy machines, state diagram, state table, state assignment and state reduction, Sequence detector. VHDL coding for Counters and FSM.	**7 Hrs.**
Unit No: 6	**Semiconductor Memories and Programmable Logic Devices** Memory devices: ROM, PROM, EPROM, EEPROM, RAM, SRAM, DRAM, NVRAM, Programmable logic devices: PAL ,PLA,CPLD and FPGA .Logic implementation using Programmable Devices (ROM, PLA)	**7 Hrs.**

Text Books:

1	A. Anand Kumar, "Fundamentals of digital circuits", 4th edition, PHI publication, 2016
2	Stephen Brown and ZvonkoVranesic, "Fundamentals of Digital Logic with VHDL design", Tata Mc-graw Hill

Reference Books:

1	Wakerly, "Digital Design Principles and Application", Pearson Education
2	M. Morris Mano, " Digital Design", 3rd Edition , Pearson Education
3	Roth John, "Principals of Digital System Design using VHDL", Cengage Learning.
4	R. P. Jain, "Modern digital electronics", 3rd edition, 12th reprint TATA Tata McGraw Hill Publication, 2007

List of Experiments (Minimum 8 experiment):

1	Implementation of Boolean function using IC.
2	Design and simulate half adder and full adder using VHDL.
3	Design and simulate Multiplexer and Demultiplexer using VHDL.
4	Design and simulate Comparator adder using VHDL.
5	Design and simulate 3to8 decoder using VHDL.
6	Design and simulate flip-flops using VHDL.
7	Design and simulate 4-bit up-down counter using VHDL.
8	Design and simulate Shift register using VHDL.
9	Design and simulate Sequence detector using VHDL.
10	Mini project based on above syllabus.

Note:

1) **Guidelines to paper setter: (30 % weightage to VHDL codes and 70% theory)**

2) **In theory ESE examination of 70 marks following points should be considered,**

Q.1 MCQ's based on complete syllabus. (14 Marks)

Q.2 Based on unit no 1, 2, 3 (Carries 14 marks)

Q.3 Based on unit no 1, 2, 3 (Carries 14 marks)

Q.4 Based on unit no 4, 5, 6 (Carries 14 marks)

Q.5 Based on unit no 4, 5, 6 (Carries 14 marks)

SHIVAJI UNIVERSITY, KOLHAPUR

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT NAME: OPTICAL COMMUNICATION

Course Details

Class	**T. Y. B. Tech. Sem - V**
Course Code and Course Title	**PCC-ETC504:Optical Communication**
Prerequisites	**Physics, Optoelectronics**
Teaching scheme : Lectures + Practical	**4 Hrs. + 2 Hrs.**
Credits	**4 + 1**
Evaluation Scheme ESE + CIE for Theory	**70 (ESE) + 30 (CIE)**

Teaching scheme	**Examination scheme**
Lectures : 4 Hrs. / Week	**Theory : 100 Marks,** **70 (ESE) + 30 (CIE)**
Practical : 2 Hrs. / Week	**TW: 25 Marks** **POE: 50 Marks**

Course Objectives: The course aims to :	
1	Describe the basics optical communication along with optical fiber structure and light propagating mechanisms in detail.
2	Analyze the signal degradation mechanisms
3	Explain the construction and working of optical sources and detectors.

Course Outcomes:	
Upon successful completion of this course, the students will be able to:	
1	Differentiate the different types of optical fiber structures and light propagating mechanisms.
2	Acquire knowledge of signal degradation mechanism in optical fiber.
3	Understand the construction of and working of optical sources and detectors.

Course Contents		
Unit No: 1	**Overview of Optical Fiber Communication** Motivation for light wave communication, Basic Network Information Rates, The evolution of Optic System, Elements of Optical Fiber Transmission Link, optical spectral band, The nature of Light, Basic Optical Laws and Definitions, Single Mode Fibers, Graded Index fiber structures.	**6 Hrs.**
Unit No: 2	**Optical Fibers: Structures and Wave guiding** Optical Fiber Modes and Configurations, Mode theory for waveguides, Fiber Materials, Fiber Optic cables.	**6 Hrs.**
Unit No: 3	**Transmission characteristics of optical fibers.** Attenuation, material absorption losses, Scattering losses, bending losses, dispersion, polarization, nonlinear effects.	**8 Hrs.**
Unit No: 4	**Optical Sources** Attenuation, material absorption losses, Scattering losses, bending losses, dispersion, polarization, nonlinear effects.	**7 Hrs.**
Unit No: 5	**Optical Receiver** Physical Principal of Photodiodes, Photo detector Noise, Detectors Response Time, Structure for InGaAsAPDs, Temperature effect of Avalanche Gain, Comparison of Photo detectors , Fundamental	**7 Hrs.**

	Receiver Operation, Digital Receiver Performance	
Unit No: 6	**Advances in Optical Fiber System** Operational Principles of WDM, Passive Components, Tunable Sources, Tunable Filters, optical switching, SONET/SDH, Performance of WDM+EDFA Systems, optical CDMA	**8 Hrs.**

Text Books:

1	Gerd Keiser, "Optical Fiber Communication", 5th Edition, Tata Mcgraw Hill Publication.

Reference Books:

1	Senior, "Optical Communication", 3rd Edition, Pearson Education.
2	Agarwal, "Optical Fiber Communication", 3rd edition, Wiley India.
3	Ramaswamy, "Optical Networks" , Elsevier India
4	R. P. Khare, "Fiber optics and optoelectronics", Oxford University Press
5	Anuradha, "Optical fiber and laser principles and applications", New Age Publications.
6	Dr .R .K .Singh "Fiber optic communication systems", Willey India.

List of Experiments (Minimum 8 experiment):

1	Study of optic fiber communication system.
2	Transmission and reception of analog signal using optical fiber.
3	Transmission and reception of digital signal using optical fiber.
4	Frequency modulation using optic fiber link.

5	Calculation of bending loss in the optic fiber link.
6	Study of numerical aperture.
7	Study & calculation of attenuation loss in optic fiber link.
8	PC to PC communication by using optical cable
9	Study of characteristics of LED.
10	Study of characteristics of LASER.
11	Frequency modulation by using voice link.
12	Study of Pulse width modulation using optic fiber.
13	Two experiment based on simulation.
14	Study of coupling light into fiber.

Note:

Guidelines to paper setter:

In theory ESE examination of 70 marks following points should be considered,

Q.1 MCQ's based on complete syllabus. (14 Marks)

Q.2 Based on unit no 1, 2, 3 (Carries 14 marks)

Q.3 Based on unit no 1, 2, 3 (Carries 14 marks)

Q.4 Based on unit no 4, 5, 6 (Carries 14 marks)

Q.5 Based on unit no 4, 5, 6 (Carries 14 marks)

SHIVAJI UNIVERSITY, KOLHAPUR

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT NAME: SIMULATION & MODELING

Course Details

Class	**T. Y. B. Tech. Sem - V**
Course Code and Course Title	**PCC-ETC505:Simulation and Modeling**
Prerequisites	**C, C++ Programming**
Teaching scheme : Lectures + Practical	**1 Hr. + 2 Hrs.**
Credits	**1 + 1**
Evaluation Scheme ESE + CIE for Theory	**NIL**

Teaching scheme	**Examination scheme**
Lectures : 1 Hr. / Week	**Theory :NIL**
Practical: 2 Hrs. / Week	**TW: 25 Marks** **OE: 50 Marks**

Course Objectives:	
The course aims to :	
1	To develop problem solving skills and their implementation through basic Python
2	To understand and implement concepts of decision making statements
3	To implement programs based on looping statements
4	To understand & implement programs based on built in functions
5	To develop simulations using python Simpy package

Course Outcomes: Upon successful completion of this course, the students will be able to:	
1	Understand the python programming basics
2	Able to solve programs on decision making & looping statements in python
3	Understand python list, tuple, and dictionary collection concepts
4	Understand simulation programs using SimPy Library
5	Design & Apply Simpy library functions to model real time problems.

Course Contents		
Unit No: 1	**Introduction to Python** Introduction to Python: Why high level language, Scope of python, interactive mode and script mode. Variables, Operators and Operands in Python. Arithmetic, relational and logical operators, Operator precedence, Taking input using raw_input() and input() method and displaying output - print statement, Comments in Python.	**2Hrs.**
Unit No: 2	**Conditional and Looping** if - else statement and nested if – else while, for, use of range function in for, Nested loops, break, continue, pass statement Use of compound expression in conditional constructs, Nested conditional statements, Nested Looping structures	**2Hrs.**
Unit No: 3	**Functions** Built-In Function, Functions from math, random, time & date module. Composition User Define Function : Defining , invoking functions, passing parameters, Intra-package References, Packages in Multiple Directories	**2Hrs.**
Unit No: 4	**List:** Lists Concept of mutable lists, creating, initializing and accessing the elements of list, List operations, Concatenation, Membership, list slices,	**2Hrs.**

	List comprehensions List functions & methods: len, insert, append, extend, sort, remove, reverse, pop functions	
Unit No: 5	**Tuples& sets:** Immutable concept, creating, initializing and accessing the elements in a tuple; Tuple functions: cmp(), len(), max(), min(), tuple() Sets Concept of Sets , creating, initializing and accessing the elements of Sets operation Membership, union, intersection, difference, and symmetric difference Dictionaries Concept of key-value pair, creating, initializing and accessing the elements in a dictionary, Traversing, appending, updating and deleting elements	**2Hrs.**
Unit No: 6	**Simulations using Simpy** Basic Concepts, understanding of SimPy's capabilities, Process Interaction, Waiting for a Process, Interrupting Another Process, Real-time simulations.	**2Hrs.**

Text Books:

1	Martin C. Brown , "Python: The Complete Reference", Tata McGraw Hill Publication, 2018
2	Mark Lutz, "Learning Python" , O'Reilly Publication edition 2013
3	Michael Dawson, "Python Programming for Absolute Beginner", Cengage Learning edition 2010

Reference Books:

1	David Beazley, "Python Essential Reference", 4th edition, Developers library.
2	Web reference SimPy: https://simpy.readthedocs.io/

List of Experiments (Minimum 8 experiment):

1	Write a python program to demonstrate basic data types in python
2	Write python program to study Arithmetic, relational and logical operators and Operands in Python.
3	Write python programs to study if, if else , if else if statements
4	Write python programs to study looping statements while & for
5	Write python programs to study built in functions of string and math packages
6	Write python programs to study list access using membership operators.
7	Write python programs to study tuple using inbuilt functions
8	Write python programs to study set operations and dictionary traversing
9	Write python programs to study Discrete event simulation using SimPy

SHIVAJI UNIVERSITY, KOLHAPUR

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT NAME: DIGITAL SIGNAL PROCESSING

Course Details

Class	**T. Y. B. Tech. Sem - VI**
Course Code and Course Title	**PCC-ETC 601: Digital Signal Processing**
Prerequisites	**Signals and Systems**
Teaching scheme :Lectures + Practical	**4 Hrs. + 2 Hrs.**
Credits	**4 + 1**
Evaluation Scheme ESE + CIE for Theory	**70 (ESE) + 30 (CIE)**

Teaching scheme	**Examination scheme**
Lectures : 4 Hrs. / Week	**Theory : 100 Marks, 70 (ESE) + 30 (CIE)**
Practical: 2 Hrs. / Week	**TW: 25 Marks**

Course Objectives: The course aims to :	
1	To understand Fast Fourier Transform and Fast Convolution
2	To understand design of digital FIR filters using various methods
3	To understand design of digital IIR filters using various methods
4	To understand the key architectural features of DSP Processor
5	To understand the basic concept of Multirate digital signal processing
6	To understand the basic concept of wavelet transform

Course Outcomes: Upon successful completion of this course, the students will be able to:	
1	Make use of FFT algorithm for filtering of long duration sequences
2	Design digital FIR filters
3	Design digital IIR filters
4	Implement FIR and IIR filters using DSP Processor
5	Apply the basic concept of Multirate digital signal processing
6	Apply the basic concept of wavelet transform

Course Contents		
Unit No: 1	**Discrete Fourier Transform & FFT Algorithms** Computational Complexity of DFT, Fast Fourier transform algorithms – Radix -2 DIT and DIF for DFT and IDFT computations, Circular convolution, Fast Convolution : Overlap-Add and Overlap-save algorithm.(Numerical)	**8 Hrs.**
Unit No: 2	**FIR Filter Design** Characteristic of FIR filter, properties of FIR filter, type of FIR filter Fourier series method, frequency sampling, Fourier series & windowing method.	**8 Hrs.**
Unit No: 3	**IIR Filter Design** Analog filters approximations, mapping of S-plane to Z-plane, Design of IIR using Impulse Invariance Method, Bilinear Transformation method, Frequency Transformation, Filter design methods: Butterworth filters, Chebyshev filters and its conversion to digital filter.	**8 Hrs.**

Unit No: 4	**Realization of Digital filters** FIR and IIR filter realization in cascade form and parallel form .Effect of finite word length on realization. Introduction to DSP processors: TMS320C67XX, Architecture, Functional Units, pipelining, Registers, Addressing modes.	**8 Hrs.**
Unit No: 5	**Multirate digital signal processing** Need of Multirate digital signal processing , decimation by factor D, two stage decimator, interpolation by factor I , two stage Interpolator , sampling rate conversion by rational factor I/D , applications of multirate signal processing	**6 Hrs.**
Unit No: 6	**Wavelet Transform** Fourier Transform and its limitations , short time Fourier transform, continuous wavelet Transform , Discretization of the continuous wavelet Transform, Multiresolution Approximations ; mother wavelet and Scaling functions, Haar wavelets and Daubechies wavelets, Applications of wavelet transform	**6 Hrs.**

Text Books:

1	John G Prokis, Manolakis, "Digital Signal Processing Principles, Algorithms and Application", Pearson Education publication
2	Salivahanam, A Vallavaraj, C. Guanapriya, "Digital Signal Processing", Tata McGraw Hill Publication.
3	A. Anand Kumar, " Digital Signal Processing", PHI Publications

Reference Books:

1	P. Ramesh Babu, "Digital Signal Processing" , SciTech Publication
2	Sanjeet Mitra, " Digital Signal Processing", Tata McGraw Hill Publication.

3	Alan Oppenheim, Schafer, "Digital Signal Processing ", PHI Publication

List of Experiments (Minimum 8 Experiments)

1	Generation of DT signals a) Study of Unit impulse sequence b) Study of Unit step sequence c) Study of Exponential sequence d) Study of Sinusoidal sequence
2	Convolution and correlation of signals
3	Computation of DFT & IDFT using standard formula
4	Computation of DFT using FFT algorithms
5	Computation of circular convolution
6	Design of FIR LPF, HPF, BPF, BRF filter using Kaiser window
7	Design of FIR filter using frequency sampling method
8	Design of IIR LPF, HPF, BPF, BRF filter using impulse invariance method
9	Design of IIR LPF, HPF, BPF, BRF filter using bilinear transformation method
10	Computation of DCT
11	Computation of DWT
12	To implement FIR & IIR filter using TMS320C67XX processor

SHIVAJI UNIVERSITY, KOLHAPUR

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT NAME: MICROPROCESSOR AND MICROCONTROLLER

Course Details

Class	**T. Y. B. Tech. Sem - VI**
Course Code and Course Title	**PCC-ETC 602: Microprocessor and Microcontroller**
Prerequisites	**Digital Electronics, Fundamentals of 'C' Programming**
Teaching scheme :Lectures + Practical	**4 Hrs. + 2 Hrs.**
Credits	**4 + 1**
Evaluation Scheme ESE + CIE for Theory	**70 (ESE) + 30 (CIE)**

Teaching scheme	**Examination scheme**
Lectures : 4 Hrs. / Week	**Theory : 100 Marks,** **70 (ESE) + 30 (CIE)**
Practical : 2 Hrs. / Week	**TW: 25 Marks** **POE: 50 Marks**

Course Objectives:	
The course aims to :	
1.	Understand fundamentals of 8085 Architecture and Programming.
2.	To apply the knowledge of Interrupts and interfacing of memory, 8255with 8085.
3.	Understand fundamentals of 8051 Architecture and Programming.
4.	Analyze Real time requirements using ON-Chip resources of 8051.
5.	Evaluate need of I/O peripherals to satisfy system design requirements.
6.	Develop Embedded 'C' Programs for I/O Peripherals

Course Outcomes:	
Upon successful completion of this course, the students will be able to:	
1.	Describe Architecture of 8085 and write various Programs.
2.	Implement Interrupts and interfacing of memory, 8255 with 8085.
3.	Describe Architecture of 8051 and write various Programs.
4.	Perform experiment using ON-Chip resources of 8051.
5.	Select I/O peripherals to satisfy system design requirements.
6.	Design Embedded 'C' Programs for I/O Peripherals

Course Contents		
Unit No: 1	**Introduction to 8085 Microprocessor** Functional Pin out, CPU Architecture, Register Organization, Reset Circuit, Clock Circuit, De- multiplexing of Address/Data bus, Generation of control signals, Addressing Modes, Instruction set and programming, Timing diagrams.	**9 Hrs.**
Unit No: 2	**8085 Stack, Interrupts and Interfacing** Stack &Subroutines, Interrupts structure of 8085, Memory mapped I/O, I/O mapped I/O, Memory interfacing with 8085, Study of 8255 PPI : Block diagram, I/O and BSR Mode and Interfacing to 8085	**7 Hrs.**
Unit No: 3	**Introduction to MCS51** Introduction to MCS51Family, Functional Pin out diagram, Architecture, Register Organization, Memory Organization, Reset Circuit, Machine Cycle, Oscillator Circuit, Addressing Modes, Instruction Set, Assembly Language Programming.	**9 Hrs.**
Unit No: 4	**Hardware overview** Input / Output Ports, Interrupts, Timers/Counters, Serial Communication (Mode-1), (Structure, Related S.F.R and Programming).	**7 Hrs.**

Unit No: 5	**Interfacing & Assembly Language Programming with 8051 Microcontroller** Keyboard, Seven Segment display, ADC, DAC, stepper motor .	**6 Hrs.**
Unit No: 6	**Embedded 'C' Programming for 8051** Data types, Programs on Arithmetic & Logical operations, Input / Output Ports, Timer/Counter, Serial communication, ADC, LCD	**6 Hrs.**

Text Books:

1	Ramesh Gaonkar " Microprocessor Architecture Programming and Applications with the 8085", , 5th Edition , Penram International Publication
2	Muhammad Ali Mazidi, Janice Gillispie, Rolin D. McKinlay "The 8051 Microcontroller & Embedded Systems Using Assemble and C", 2nd Edition, Pearson Education,
3.	Kenneth Ayala, "The 8051 Microcontroller" , 3rd Edition , Cengage Learning India Private Limited

Reference Books:

1	Douglas V Hall, "Microprocessors and Digital Systems"
2	I.Scott Mackenzie, Raphael C.W.Phan, "The 8051 Microcontroller" , 4th Edition, Pearson
3	Ajay V. Deshmukh, "Microcontrollers [Theory and Applications]", Tata McGraw Hill Publication.

List of Experiments (Minimum 10 experiment):

1	Arithmetic & Logical operations using 8085
2	Data transfer & Exchange using 8085

3	Data conversions using 8085
4	Interrupt's Programming for 8085
5	Arithmetic & Logical operations using 8051
6	Ascending/ Descending order sorting using 8051
7	Interface ADC using 8051
8	Interface DAC using 8051
9	Interface Stepper motor using 8051
10	Use of Timer & counter operation in 8051 using Embedded C
11	Serial Communication with 8051 using Embedded C
12	Interface LCD to 8051 using Embedded C

Note:

Guidelines to paper setter:

In theory ESE examination of 70 marks following points should be considered,

Q.1 MCQ's based on complete syllabus. (14 Marks)

Q.2 Based on unit no 1, 2, 3 (Carries 14 marks)

Q.3 Based on unit no 1, 2, 3 (Carries 14 marks)

Q.4 Based on unit no 4, 5, 6 (Carries 14 marks)

Q.5 Based on unit no 4, 5, 6 (Carries 14 marks)

SHIVAJI UNIVERSITY, KOLHAPUR

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT NAME: ANTENNA AND WAVE PROPAGATION

Course Details

Class	**T. Y. B. Tech. Sem - VI**
Course Code and Course Title	**PCC-ETC604: Antenna and Wave Propagation**
Prerequisites	**Basics of Electromagnetic theory, Maxwell's equations and concepts of transmission lines**
Teaching scheme : Lectures + Practical	**4 Hrs. + 2 Hrs.**
Credits	**4 + 1**
Evaluation Scheme ESE + CIE for Theory	**70 (ESE) + 30 (CIE)**

Teaching scheme	**Examination scheme**
Lectures : 4Hrs. / Week	**Theory : 100 Marks,** **70 (ESE) + 30 (CIE)**
Practical : 2 Hrs. / Week	**TW: 25 Marks** **POE:50 Marks**

Course Objectives:	
The course aims to :	
1	Basic parameters of antennas and their principle of operation
2	Different Antenna types to know their applications in various domains.
3	Different types of wave propagation Techniques

Course Outcomes:	
Upon successful completion of this course, the students will be able to:	
1	Realize the importance of basics of antenna systems to differentiate the applicability of each type of antenna
2	Analyze the utilization of Antenna systems in wide areas like wireless communication, fixed line communication, computer communication etc.
3	Discuss radio wave propagation

Course Contents		
Unit No: 1	**Fundamentals of Antenna** Basic Antenna parameters, pattern , beam area, radiation intensity, beam efficiency, directivity, gain and resolution, antenna aperture, effective height, radio communication link, field from oscillating dipole, field zones. Linear, Elliptical and Circular polarization, Front to back ratio, Antenna impedance.	**7 Hrs.**
Unit No: 2	**Antenna array and Frequency independent antenna** Array of two isotropic point sources, non-isotropic but similar point source and the principle of pattern multiplication, examples of pattern synthesis by pattern multiplication, non-isotropic and dissimilar point sources, linear array of isotropic point source of equal amplitude and spacing. Broadband basics, frequency-independent concept: Rumsey's principle, the frequency independent planner log-spiral antenna, frequency independent conical-spiral	**9 Hrs.**

	antenna, the log periodic antenna, the composite yagi-uda corner-log-periodic array.	
Unit No: 3	**Antenna Measurement and Microstrip Antenna:** Antenna measurement: Antenna ranges, Radiation pattern, Gain measurements, Directivity measurements Microstrip Antenna: Introduction, Basic characteristics, Feeding methods, Rectangular patch, Circular patch	**6 Hrs.**
Unit No: 4	**Ground Wave Propagation** Potential Functions and the Electromagnetic Field, Potential Functions for sinusoidal oscillations, Plane earth reflection, space wave and the surface wave, elevated dipole antennas above a plane earth, wave tilt of the surface wave, spherical earth propagation, troposphere wave	**8 Hrs.**
Unit No: 5	**Ionospheric Wave Propagation** The ionosphere, effective permittivity and conductivity of an ionized gas, reflection and refraction of the waves by the ionosphere, regular and irregular variations of ionosphere, attenuation factor, sky wave transmission calculations, effect of earth magnetic field, wave propagation in ionosphere, Faraday rotation and measurement of total electron content, other ionosphere phenomena.	**8 Hrs.**
Unit No: 6	**Radar System:** Fundamentals, RADAR performance factors, basic pulsed radar system, antennas and scanning, display methods, pulsed radar	**6 Hrs.**

	systems, moving target indication, radar beacons, CW Doppler radar, frequency modulated CW radar, phase array radars, planar array radars	

Text Books:

1	John D Kraus, "Antenna for all Application", 3rd edition, Tata McGraw Hill Publication
2	Constantine A. Balanis, "Antenna Theory", 3rd edition, Wiley Publication
3	Jordan and Balmain, "Electromagnetic Waves and Radiation Systems", 2nd edition, PHI publication
4	Kennedy Davis, "Electronics Communication System", 5th edition, Tata McGraw Hill Publication

Reference Books:

1	G. S. N. Raju, "Antennas and Wave Propagation", 4th edition, Pearson publication
2	K.D. Prasad, "Antennas and Wave Propagation", 3rd edition, Satya prakashan publication

List of Experiments (Minimum 8 experiment):

1	Calculation of beam width, front to back ratio & gain of simple dipole antenna..
2	Calculation of beam width, front to back ratio & gain of log periodic antenna
3	Calculation of beam width, front to back ratio & gain of Yagi-Uda antenna.

4	Calculation of beam width, front to back ratio & gain of Horn antenna
5	Calculation of beam width, front to back ratio & gain of micro strip /patch antenna.
6	To determine effect of varying distance between transmitter & receiver on received power
7	Calculation of angle of reflection for varying angle of incidences
8	Calculation of angle of refraction for varying angle of incidences
9	Observe standing waves and measure the wavelength of microwave
10	Determination of velocity of object moving in RADAR range.
11	Measurement of time & frequency of RADAR using moving pendulum
12	Write a program to find radiation pattern of Broadside array antenna using MATLAB
13	Write a program to find radiation pattern of End fire array antenna using MATLAB
14	Write a program to compare radiation pattern of uniform linear array and non-uniform linear array using MATLAB

Note:

1) **Guidelines to paper setter:**

   In theory ESE examination of 70 marks following points should be considered,

   Q.1 MCQ's based on complete syllabus. (14 Marks)

   Q.2 Based on unit no 1, 2, 3 (Carries 14 marks)

   Q.3 Based on unit no 1, 2, 3 (Carries 14 marks)

   Q.4 Based on unit no 4, 5, 6 (Carries 14 marks)

   Q.5 Based on unit no 4, 5, 6 (Carries 14 marks)

2) **40% theory and 60% numerical and Design.**

SHIVAJI UNIVERSITY, KOLHAPUR
ELECTRONICS AND TELECOMMUNICATION ENGINEERING

ELECTRONIC CIRCUIT DESIGN - I

Course Details:

Class	**S. Y. B. Tech. Sem-III**
Course Code & Course Title	**PCC-ETC 301: Electronic Circuit Design - I**
Prerequisites	**Basic Circuit Law's, Semiconductor diode, Zener diode, BJT details.**
Teaching scheme: Lecture + Practical	**4 Hrs + 2 Hrs**
Credits	**4 + 1**
Evaluation Scheme ESE + CIE for Theory	**70 (ESE) + 30 (CIE)**

Teaching Scheme	**Examination Scheme**
Lectures : 4 Hrs /week	**Theory : 100 Marks** **70 (ESE) + 30 (CIE)**
Practical : 2 Hrs /week	**TW: 25 Marks** **POE: 50 Marks**

Course Objectives:	
The course aims to:	
1	Provide an introduction and basic understanding of Semiconductor Devices viz. diodes and BJT, JFET.
2	Provide basic analog electronic circuit design techniques using diodes and bipolar junction transistors and to develop analytical skills.
3	Develop student ability to apply basic engineering sciences to understand the operation & analysis of electronic circuits using diodes and bipolar junction transistors.

4	Design electronic circuits to meet the desired specifications.

Course Outcomes:	
Upon successful completion of this course, the student will be able to:	
1	Analyze and design electronic circuits such as rectifiers & unregulated power supply.
2	Analyze and design electronic circuits such as regulated power supply.
3	Analyze & Design of BJT & FET Biasing.
4	Explain the hybrid model of transistor and analyze the transistor amplifier (CE, CB, CC) using h-parameters
5	Analysis of CE Amplifier for low frequency & High frequency response for sinusoidal & square wave input.
6	Analyze & Design LPF, HPF, Clipper, Clampers, Multipliers

Course Contents		
Unit No: 1	**Wave Shaping Circuits** Low pass & high pass RC circuits (analysis for step, square input), High pass RC circuit as a differentiator, Sag/Tilt calculation, Low pass RC circuit as integrator (Step & Square Input), Clipping circuits: Single Level & Double level Clipping, Transfer characteristics, Clamping circuits: Classification, clamping operations, Clamping circuit theorem, practical clamping circuits, voltage multipliers (Doubler & Tripler).	**8 Hrs**
Unit No: 2	**Unregulated Power Supplies** Rectifiers: Half wave, full wave: center tap and bridge type, analysis for different parameters: PIV, TUF, efficiency, ripple factor, regulation, form factor etc. Filters: Need of filters, Types: capacitor, inductor, LC, CLC, and Analysis for ripple factor. Design of	**8 Hrs**

	unregulated power supply with filter using full wave rectifier.	
Unit No: 3	**Voltage Regulators** Need of voltage regulator, Stabilization factors, Analysis & Design of Shunt regulator (using Zener diode & BJT), emitter follower regulator, series pass voltage regulator (using BJT), Pre- regulator & Overload protection circuit.	**8 Hrs**
Unit No: 4	**BJT & FET Biasing** Introduction to BJT, Need of Biasing, Stability factor, Biasing of CE Configuration- Fixed Bias, Collector to Base Bias & Voltage Divider Bias (Analysis & Design), FET: Introduction to JFET, Biasing of CS configuration- Fixed Bias, Self Bias (Analysis of the same).	**8 Hrs**
Unit No: 5	**Voltage Amplifiers** H-Parameters, Hybrid model for transistor (CE, CB& CC Configuration), CE Amplifier equations for Voltage Gain, Current gain, Input resistance & Output resistance taking Rs of source into account.	**8 Hrs**
Unit No: 6	**Frequency Response of Single Stage RC Coupled Amplifier** Low frequency response: Effect of Coupling capacitor(CC) & Emitter bypass capacitor(CE), High frequency response: Hybrid π model , Derivation for CE short circuit & resistive current gain, β cutoff, α cutoff frequency, amplifier high freq. response to square wave ,gain bandwidth product, (Numerical are expected). Design of single stage RC coupled amplifier.	**8 Hrs**

Text Books:

1	Allen Mottershed, "Electronic Devices & Circuits", Prentice- Hall India
2	Salivahanan, N Sureshkumar, "Electronic Devices & Circuits", Tata McGraw Hill Publication
3	Robert L. Boylsted, Louis Nashelsky, "Electronic Devices & Circuit Theory", Pearson Education
4	J. Millman & C.Halkias, "Electronic Devices & Circuits", Tata McGraw Hill Publication

Reference Books:

1	David A. Bell, "Electronic Devices & Circuits", Oxford University
2	Millman Taub, "Pulse Digital And Switching Circuits", Tata McGraw Hill 2nd edition
3	R. S. Sedha, "A Text Book Of Applied Electronics", S. Chand

List of Experiments (Minimum 10 experiment):

1	Design and study the performance of Low pass filter: a. Frequency response for sinusoidal input b. Integrator for Square wave input
2	Design and study of High pass filter: a. Frequency response for sinusoidal input b. Differentiator for Square wave input
3	Study of clipper circuits (Series/ Shunt).
4	Study of clamping circuits (Positive & Negative Type).
5	Design and Study of full wave rectifier with capacitive filter.
6	Design and Study of full wave rectifier with inductive filter.
7	Design and Study of Zener shunt regulator
8	Design and Study of transistorized shunt regulator
9	Design and Study of emitter follower regulator
10	Design and Study of series pass voltage regulator
11	Determination of H-parameter for CE configuration using input and output Characteristics.
12	Simulation of FWR using C-filter
13	Design and Study of Single stage RC-Coupled Amplifier
14	Simulation of Single stage RC-Coupled Amplifier (eSim Software)

Note:

1) **Guidelines to paper setter:**

In theory ESE examination of 70 marks following pointes should be considered,

Q.1 MCQ's Based on complete syllabus. (14 Marks)

SHIVAJI UNIVERSITY, KOLHAPUR
ELECTRONICS & TELECOMMUNICATION ENGINEERING

PROGRAMMING LAB-I

Course Details:

Class	**S.Y. B. Tech. Sem-III**
Course Code & Course Title	**PCC-ETC 305: PROGRAMMING LAB-I**
Prerequisites	**Computer fundamentals**
Teaching scheme: Lecture + Practical	**2 Hrs + 2 Hrs**
Credits	**2+1**
Evaluation Scheme ESE + CIE for Theory	**NA**

Teaching Scheme	**Examination Scheme**
Lectures: 2 Hrs /week	**Theory : NA**
Practical : 2 Hrs /week	**TW: 25 Marks** **POE: 50 Marks**

Course Objectives:	
The course aims to:	
1	Design the flowchart and algorithms for procedure oriented programs.
2	Develop programming skills using the fundamentals and basics of C Language, control structures and looping statements.
3	Enable the effective usage of arrays, structures, functions, pointers and to implement the memory management concepts.
4	Design and implement programs using files handling and user defined types.
5	Understand the concept of strings and relevant operations on it.
6	Understand the file and relevant operations on it.

Course Outcomes: Upon successful completion of this course	
1	Student will be able to understand the basic concepts of procedure oriented programming language.
2	Student will be able to implement the control statements, looping statements and functions concepts.
3	Student will be able to design programs using user defined functions and data type.
4	Student will be able to design & apply the skills for solving the engineering problems.
5	Students will be able to understand the concept string & relevant operations on it.
6	Students will be able to understand the concept of file & relevant operations on it.

Course Contents		
Unit No: 1	**Programming Fundamentals** Flow chart, Algorithm, Standard notations, Selection Procedure, Loops, Sub Algorithms, Compilers, Interpreters, The Library and Linking, concept of Data Storage (Memory Concept)	**4 Hrs**
Unit No: 2	**Introduction to C** Introduction to Constants, Variables, Data Types, Operators,	**5 Hrs**
	Expressions, Structure of C Programming, Identifiers, Decision & Loop control statements	
Unit No: 3	**Arrays and Structures** Arrays::Introduction to 1-Dimensional arrays, Declaration and Initialization of 1-Dimensional arrays, Declaration and Initialization of 2-Dimensional arrays, Declaration and Initialization of Multi-Dimensional arrays. Structures-Declaring of Structures, Accessing Structure elements, arrays of structures.	**4 Hrs**

Unit No: 4	**Functions and Pointers** Introduction of functions, Need for functions,, Multifunction Programming, Elements of functions, Definition and declaration of functions, return values and their types, function call, arguments, return value, nesting and recursion Pointers- Introduction to pointers, pointer variables, Declaration and initialization of pointer variable, accessing pointer	**5 Hrs**
Unit No: 5	**Strings** Declaration and Initialization of string, Reading from Terminal, Writing to screen, Standard library string functions	**3 Hrs**
Unit No: 6	**File handling** File operation, counting character tabs, spaces, file copy program, file opening modes, text file- binary file, Real time case study.	**3 Hrs**

Text Books:

1	Yashawant Kanetkar, "Let Us C", XIIIth Edition BPB Publications
2	E Balagurusamy, "Programming in ANSI C" , Vth edition, Tata Mc Graw Hill

Reference Books:

1	Brian W. Kernighan, Dennis M. Ritchi , "The C Programming Language", IInd edition, Prentice Hall of India.

List of Experiments (Minimum 10 + Mini project):

1	Develop Program using decision control statements
2	Develop Program using control statements
3	Develop Program using loop control statements
4	Develop Program using functions
5	Develop Program using pointers

6	Develop Program using array
7	Develop Program using two dimensional arrays
8	Develop Program using structures
9	Develop Program using dynamic memory allocation
10	Develop Program using strings
11	Develop Program using any sorting technique
12	Develop Program using file handling.
13	Mini project

SHIVAJI UNIVERSITY, KOLHAPUR
ELECTRONICS AND TELECOMMUNICATION ENGINEERING

ELECTRONIC CIRCUIT DESIGN – II

Course Details:

Class	**S. Y. B. Tech. Sem-IV**
Course Code & Course Title	**PCC-ETC 401: Electronic Circuit Design - II**
Prerequisites	**Basic Circuit Law's, Single Stage RC coupled amplifier**
Teaching scheme: Lecture + Practical	**4 Hrs + 2 Hrs**
Credits	**4 + 1**
Evaluation Scheme ESE + CIE for Theory	**70 (ESE) + 30 (CIE)**

Teaching Scheme	**Examination Scheme**
Lectures : 04 Hrs /week	**Theory : 100 Marks** **70 (ESE) + 30(CIE)**
Practical : 02 Hrs /week	**TW: 25 Marks** **POE: 50 Marks**

Course Objectives: The course aims to:	
1	Provide an introduction and basic understanding of feedback amplifiers, power amplifiers, oscillators, Multivibrators
2	Develop student ability to apply basic engineering sciences to understand the operation & analysis of electronic circuits using diodes, bipolar junction transistors.
3	Provide analog electronic circuit design techniques using diodes, bipolar junction transistors and to develop analytical skills.
4	Design electronic circuits to meet desired specifications.

Unit No: 4	**Oscillators** Barkhausen's criteria, Frequency and amplitude stability, Classification, RC oscillators: analysis & design of RC phase shift Oscillator & Wein bridge oscillator. LC oscillators: analysis & design of Colpitt's & Hartley's oscillators, Crystal oscillator.	**9 Hrs**
Unit No: 5	**Multivibrators** Transistor as a switch, Different transistor switching parameters, overdrive factor, classification of multivibrators, Analysis and design of collector coupled: Astable, Bistable, Monostable, fixed bias and self-bias binary Multivibrator, Triggering methods for Multivibrators, Schmitt trigger / Emitter Coupled Binary.	**9 Hrs**
Unit No: 6	**IC voltage regulator** Fixed voltage regulators (78XX, 79XX), Adjustable voltage regulators (LM317, LM337, LM723).	**5 Hrs**

Text Books:

1	N.C. Goyal & R.K. Khetan, "A Monograph on Electronics Design Principles", Khanna Publishers
2	Allen Mottershed, "Electronic Devices & Circuits", Prentice- Hall India
3	G. K. Mittal, "Electronic Devices & Circuits"
4	Salivahanan, N Sureshkumar, "Electronic Devices & Circuits", Tata McGraw Hill Publication

Reference Books:

1	David A. Bell, "Electronic Devices & Circuits", Oxford University
2	Robert L. Boylsted, Louis Nashelsky, "Electronic Devices & Circuit Theory", Pearson Education

List of Experiments (Minimum 08 experiment + 01 Mini-project compulsory):

1	Design and study of frequency response of direct coupled amplifier.
2	Design and study of frequency response of two stage RC coupled amplifier.
3	Design and study of frequency response of voltage series feedback amplifier.
4	Design and study of transformer coupled class A amplifier.
5	Design and study of RC phase shift oscillator using BJT
6	Design and study of wein bridge oscillator using BJT
7	Design and study of colpitts oscillator using BJT
8	Design and study of Hartley oscillator using BJT
9	Design and study of Astable multivibrator
10	Design and study of Monostable multivibrator using BJT
11	Design and study of Bistable multivibrator using BJT
12	Design and study of Schmitt trigger using BJT
13	Design and study of voltage regulator using LM317
14	Design and study of voltage regulator using IC723
15	Simulation of Oscillator (eSim Software)
16	Simulation of Multivibrator (eSim Software)
17	Mini-project based on above syllabus. (Maximum two students in each group)

Note:

Guidelines to paper setter:

In theory ESE examination of 70 marks following pointes should be considered,

Q.1. MCQ's Based on complete syllabus. (14 Marks)

Q.2 Based on unit no 1, 2, 3 (Carries 14 marks)

Q. 3 Based on unit no 1, 2, 3 (Carries 14 marks)

Q.4 Based on unit no 4, 5, 6 (Carries 14 marks)

Q. 5 Based on unit no 4, 5, 6 (Carries 14 marks)

SHIVAJI UNIVERSITY, KOLHAPUR
ELECTRONICS AND TELECOMMUNICATION ENGINEERING

DIGITAL COMMUNICATION

Course Details:

Class	**S. Y. B. Tech. Sem-IV**
Course Code & Course Title	**PCC-ETC 404: Digital Communication**
Prerequisites	**Analog communication**
Teaching scheme: Lecture/Practical	**3 Hrs + 2 Hrs**
Credits	**3 + 1**
Evaluation Scheme ESE + CIE for Theory	**70 (ESE) + 30 (CIE)**

Teaching Scheme	**Examination Scheme**
Lectures : 04 Hrs /week	**Theory : 100 Marks** **70 (ESE) + 30 (CIE)**
Practical : 02 Hrs /week	**TW: 25 Marks**

Course Objectives: The course aims to:	
1	Study the random signal theory and concept of information theory
2	Elaborate the different source coding techniques with the help of their block diagrams and function.
3	Explain the different digital modulation techniques.
4	Describe the baseband transmission and reception system.

Course Outcomes: Upon successful completion of this course, the student will be able to:	
1	Describe the probability of random signal
2	Solve the problem based on information theory
3	Classify different source coding & line coding techniques.
4	Compare different digital modulation technique

Course Contents		
Unit No: 1	**Probability Theory** Introduction to digital communication system, probability and sample space, Baye's rule, Joint & conditional Probability, PDF & CDF, Statistical averages	**6 Hrs**
Unit No: 2	**Information Theory** Measure of Information, Entropy, Information Rate, Shannon's encoding theorem, communication channels –Discrete & Continuous, Shannon–Hartley theorem, Entropy Coding: Huffman's coding & Shannon-Fanno Coding techniques.	**7 Hrs**
Unit No: 3	**Source Coding** Quantization–Uniform, Non-Uniform. Study of PCM, DM, ADM DPCM, ADPCM.	**5 Hrs**
Unit No: 4	**Digital Carrier Line Encoding** Line codes: Unipolar, Bipolar, NRZ, RZ, RZ-AMI, Manchester Baseband pulse Shaping, Duo binary	**5 Hrs**
Unit No: 5	**Band Pass Modulation Techniques** ASK, FSK, PSK, DPSK, QPSK, & QAM. Coherent, Non- Coherent detection. Introduction to Spread Spectrum techniques: DSSS, FHSS.	**7 Hrs**
Unit No: 6	**Baseband Transmission Of Digital Signals** M-ary Signaling, eye diagram, ISI, Scrambler, Unscramble. Optimum Receivers-Matched Filters, Correlation receivers, Optimum detection using ML criteria.	**6 Hrs**

Text Books:

1	K. Sam Shanmugam, "Digital & Analog Communication", John Wiley India..
2	Simon Haykin, "Digital Communication", Wiley India.
3	Singh & Sapre, "Communication Systems-Analog & Digital", IInd Edition TMH

Reference Books:

1	Wayne Tomasi, "Electronic Communications Systems", Vth edition, Pearson publication
2	John Proakis, " Digital Communication", IVth Edition, TMH

List of Experiments (Minimum 8 Experiments):

1.	Study of Pulse Code Modulation
2.	Study of Delta Modulation
3.	Study of Adaptive Delta Modulation
4.	Study of Data Formats
5.	Study of Amplitude Shift Keying
6.	Study of Frequency Shift Keying
7.	Study of Phase Shift Keying
8.	Study of Quadrature Phase Shift Keying
9.	Study of Any Modulation Technique using MATLAB/SCILAB
10.	Study of CDF & PDF for Random signals using MATLAB/SCILAB
11.	Study of Standard Random Variables Density Distribution Function

Note:

Guidelines to paper setter:

In theory ESE examination of 70 marks following pointes should be considered,

Q.1. MCQ's Based on complete syllabus. (14 Marks)

Q.2 Based on unit no 1, 2, 3 (Carries 14 marks)

Q. 3 Based on unit no 1, 2, 3 (Carries 14 marks)

Q.4 Based on unit no 4, 5, 6 (Carries 14 marks)

Q. 5 Based on unit no 4, 5, 6 (Carries 14 marks)

SHIVAJI UNIVERSITY, KOLHAPUR
ELECTRONICS & TELECOMMUNICATION ENGINEERING

PROGRAMMING LAB-II

Course Details:

Class	**S. Y. B. Tech. Sem-IV**
Course Code & Course Title	**PCC-ETC 406: PROGRAMMING LAB-II**
Prerequisites	**Computer fundamentals**
Teaching scheme: Lecture + Practical	**2 Hrs + 2 Hrs**
Credits	**2+1**
Evaluation Scheme ESE + CIE for Theory	**NA**

Teaching Scheme	**Examination Scheme**
Lectures: 2 /week	**Theory : NA**
Practical : 2 /week	**TW: 25 Marks** **POE: 50 Marks**

Course Objectives: The course aims to:	
1	Understand features of object-oriented programming and design C++ classes
2	Understand overloading of functions and operators in C++.
3	Implement copy constructors and class member functions.
4	Understand the concept of inheritance, virtual functions, dynamic binding & polymorphism.
5	Design inheritance for code reuse in C++.
6	Design and implement generic classes with C++ templates and exception handling.

Course Outcomes:	
Upon successful completion of this course, the student will be able to:	
1	Understand the basic concepts of procedure oriented programming language.
2	Identify the function and operator overloading concepts.
3	Understand and implement the concept of inheritance, template and exception handling applications.
4	Identify the concept of inheritance, virtual functions, dynamic binding & polymorphism.
5	Identify the types of inheritance & its design for code reuse in C++.
6	Design and implement generic classes with C++ templates and exception handling.

Course Contents		
Unit No: 1	**Introduction To Object Oriented Programming** Difference between procedure oriented programming and object oriented programming, basic concepts and features of object oriented programming, structures and classes, declaration of class, member functions, defining the object of class, accessing member of class, and array of class objects.	**4 Hrs**
Unit No: 2	**Overloading** Function overloading, assignment operator overloading, binary operator overloading, unary operator overloading.	**4 Hrs**
Unit No: 3	**Constructors And Destructors** Constructors- copy constructor, default constructors, destructors, inline member function, friend function, dynamic memory allocation.	**4 Hrs**
Unit No: 4	**Polymorphism** Polymorphism, early binding, polymorphism with pointers, virtual functions, late binding, pure virtual functions, abstract base classes, constructor under inheritance, destructor under inheritance, virtual destructors, virtual base classes.	**4 Hrs**
Unit No: 5	**Inheritance** Introduction, Single Inheritance, Types Of Base Classes- Direct, Indirect,	**4 Hrs**

	Array Of Class Object And Single Inheritance, Multiple Inheritances.	
Unit No: 6	**Template And Exception Handling** Function template, class template, exception handling.	**4 Hrs**

Text Books:

1	D Ravichandran, "Programming With C++", II[nd] edition, Tata Mc Grow Hill
2	E Balagurusamy, "Object Oriented Programming With C++", Mc Grow Hill

Reference Books:

1	Brian W. Kernighan, Dennis M. Ritchi , "The C++ Programming Language", II[nd] edition, Prentice Hall of India.

List of Experiments (Minimum 10 + Mini project):

1	Develop a Program for implementation of array a. One-dimensional array b. Multi-dimensional array
2	Develop a Program for implementation of classes and Objects.
3	Develop a Program for implementation of types of constructor a. Default constructor b. Parameterized constructor c. Copy constructor
4	Develop a Program for implementation of polymorphism
5	Develop a Program for implementation of Friend Functions in Class
6	Develop a Program for implementation of types of inheritance a. Single level Inheritance b. Multi-level Inheritance c. Multiple Inheritance d. Hybrid Inheritance e. Hierarchical inheritance

7	Develop an Object oriented Program to Insert the Number in an Array
8	Develop an Object oriented program to Delete the Number in an Array
9	Develop an Object oriented program on Bubble Sort
10	Develop an Object oriented program to Perform Linear or binary search
11	Develop an Object oriented program to Insert and delete a Node in Link List
12	Develop an Object oriented program to implement stack using linked list.
13	Mini project.

VISIT

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and Telecommunication Engineering

Date: - 24/04/2023

To,
The Head,
Durdarshan Kendra,
Pune.

Sub: Thanking letter.

Respected Sir/Madam,

We, on behalf of Electronics and Telecommunication Department of our college, hereby express our sincere, thanks for industrial visit to **Durdarshan Kendra,Pune.** on Monday, 24th April 2023 for final year students . We expect same co-operation in future.
The visit explored the wide scope of information and also cover PO-12.

Thanking you.

Prof.Mohite T.H.
Industrial Visit Co-ordinator

Prof.Dr.S.R.Mahadik
Subject Incharge

Prof. Kolap M.M
H.O.D
Etrx and E&TC. Engg.Dept.

Department
E & TC
Jaysingpur

Received Rs 8496 cheque of 24 students
Through NEFT.
on dt. 24/4/23
Visit date on 24/4/23

DR. J.J.MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR 416101

S. S. Waghmare
9423015864
ASSISTANT ENGINEER
दूरदर्शन केंद्र, पुणे.
DOORDARSHAN KENDRA, PUNE.

Internships

. Magdum College of Engineering, Jaysingpur
Department of Electronics & Teleommunication Engineering

B.TECH E&TC STUDENTS TRAINING DETAILS

Academic Year-2022-23

Roll No.	Student Name	Name of company	Dates	Duration(Days)
1	Prasad Babar	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
2	Bhagyashree Sonawale	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
3	Pratik Patil	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
4	Nikita Sutar	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
5	Namrata Shetti			
6	Snehal Koshti	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
7	Pradnya Khot	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
8	Saniya Latif	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
9	Saniya Nadaf	Gustovalley Technovation	10-8-22 to 10-9-22	30 days online
10	Ranjet Shinge	—		
11	Vinesh Kamble	Morya Industries,Sangli	10-2-22 to 28-2-22	15 days
12	Dhanappa Chikalakki	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
13	Komal Patil	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
14	Sneha Kate	Morya Industries,Sangli	10-1-22 to 24-1-22	15 days
15	Omkar Vaidya	Morya Industries,Sangli	10-2-22 to 28-2-22	15 days
16	Tejas Gurav	Morya Industries,Sangli	10-2-22 to 28-2-22	15 days
17	Reena Made	—		
18	Shweta Gaikwad	Morya Industries,Sangli	15-6-22 to 30-6-22	15 days
19	Gayatri Patil	Morya Industries,Sangli	15-6-22 to 30-6-22	15 days
20	Mohini Chavan	Morya Industries,Sangli	10-1-22 to 24-1-22	15 days
21	Sanket Bhoi	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
22	Rohit Patil	Morya Industries,Sangli	10-2-22 to 28-2-22	15 days
23	Chetan Patil	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
24	Aniket Patil Thorat	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
25	Akil Kacchi	—		
26	Tanjeel Mujawar	—		
27	Jayesh Jadhar	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days
28	Sudhir Sale	VVT Technologies,Nashik	22-8-22 to 9-9-22	15 days
29	Chaitanya Kore	Fancy Textiles,Miraj	1-7-21 to15-7-21	15 days
30	Abhishek Powar	Shree Datta Electrical Engineers,Shirol	16-8-22to 30-8-22	15 days

Dr. J. J. Magdum College Of Engg. Department E & TC

Dr. J. J. MAGDUM COLLEGE

Shree Datta Electricals Engineers & Contractors

Manufacturer & Repairs of all types of Distribution Transformer
Bureau of Indian Standard (BIS),Bureau of Energy Efficiency (BEE) Govt. of India Approved
M.S.E.D.C.L., HESCOM,(Hubballi) Vendor Approved
ISO 9001 : 2015 Certified Company
M.C. No.12908, M.S. No.30651, Govt. Licensed Electrical Contractor

IS:1180: Part 1 : 2014
CM/L-7500154914

Date: - 01/09/2022

Certificate of Training

This is to certify that, **Mr. Prasad Popat Babar (PRN-2019087462)** student of "Dr. J. J. **Magdum College of Engineering, Jaysingpur** studying in Final year of "**Electronics & Telecommunication Engineering**" satisfactory completed his training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, he obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish him a good career ahead.

Shree Datta Electricals Engineers and Contractors

For **Shree Datta Electricals Engineers & Contractors**

Proprietor

Shree Datta Electricals Engineers & Contractors SDEEC Mouje Agar (Shirol)

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Factory Address : Gat No.-265, Opp R. K. Market Yard, Mouje Agar (Jaysingpur)
Post - Datta Nagar, Tal-Shirol, Dist-Kolhapur. Pin-416 120 (Maharashtra)
☎ (02322) 222150, Mob.: 9822043719, (O) 9822792823
Email - shreedattaelectricals.mane@gmail.com & sales@shreedattaelectricals.com
Website - www.shreedattaelectricals.com

Shree Datta Electricals Engineers & Contractors

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Bureau of Indian Standard (BIS),Bureau of Energy Efficiency (BEE) Govt. of India Approved
M.S.E.D.C.L., HESCOM,(Hubballi) Vendor Approved
ISO 9001 : 2015 Certified Company
M.C. No.12908, M.S. No.30651, Govt. Licensed Electrical Contractor

IS:1180, Part 1 : 2014
CM/L-7500154914

Date: - 01/09/2022

Certificate of Training

This is to certify that, **Miss. Bhagyashree Sambhaji Sonawale (PRN-2019088687)** student of "**Dr. J. J. Magdum College of Engineering, Jaysingpur** studying in Final year of "**Electronics & Telecommunication Engineering**" satisfactory completed her training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, she obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish her a good career ahead.

Shree Datta Electricals Engineers and Contractors

Shree Datta Electricals
Engineers & Contractors
Proprietor

Shree Datta Electricals Engineers & Contractors
SDEEC
Mouje Agar
(Shirol)

DR. J. J. MAGDUM COLLEGE OF ENGINEERING

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Shree Datta Electricals Engineers & Contractors

Manufacturer & Repairs of all types of Distribution Transformer
Bureau of Indian Standard (BIS),Bureau of Energy Efficiency (BEE) Govt. of India Approved
M.S.E.D.C.L., HESCOM,(Hubballi) Vendor Approved
ISO 9001 : 2015 Certified Company
M.C. No.12908, M.S. No.30851, Govt. Licensed Electrical Contractor

IS:1180: Part 1 : 2014
CM/L-7500154914

Date: - 01/09/2022

Certificate of Training

This is to certify that, **Mr. Pratik Dhushant Patil (PRN-2019086737)** student of **"Dr. J. J. Magdum College of Engineering, Jaysingpur** studying in Final year of **"Electronics & Telecommunication Engineering"** satisfactory completed his training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, he obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish him a good career ahead.

Shree Datta Electricals Engineers and Contractors

Shree Datta Electricals Engineers & Contractors
SDEEC Mouje Agar (Shirol)

Proprietor

Proprietor

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Factory Address : Gat No.-265, Opp R. K. Market Yard, Mouje Agar (Jaysingpur)
Post - Datta Nagar, Tal-Shirol, Dist-Kolhapur. Pin-416 120 [Maharashtra]
☎ (02322) 222150, Mob.: 9822043719, (O) 9822792823
Email - shreedattaelectricals.mane@gmail.com & sales@shreedattaelectricals.com
Website - www.shreedattaelectricals.com

Shree Datta Electricals Engineers & Contractors

Manufacturer & Repaire of all types of Distribution Transformer

Bureau of Indian Standard (BIS) Bureau of Energy Efficiency (BEE) Govt. of India Approved

M.S.E.D.C.L., HESCOM (Hubballi) Vendor Approved

ISO 9001 : 2015 Certified Company

M.C. No. 12808, M.S. No. 20851, Govt. Licensed Electrical Contractor

IS 1180, Part 1 : 2014

CM/L-7500154914

Date : - 01/09/2022

Certificate of Training

This is to certify that, **Miss. Nikita Bharat Sutar (PRN-2020081617)** student of **"Dr. J. J. Magdum College of Engineering, Jaysingpur** studying in Final year of **"Electronics & Telecommunication Engineering"** satisfactory completed her training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, she obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish her a good career ahead.

Shree Datta Electricals Engineers and Contractors

Shree Datta Electricals
Engineers & Contractors

Proprietor

Shree Datta Electricals Engineers & Contractors SDEEC Mouje Agar (Shirol)

Proprietor

Dr. J. J. Magdum College of Engineering Jaysingpur

Factory Address : Gat No.-285, Opp H. K. Market Yard, Mouje Agar [Jaysingpur]
Post - Datta Nagar, Tal-Shirol, Dist-Kolhapur. Pin-416 120 [Maharashtra]
☎ (02322) 222150, Mob.: 9822043718, (O) 9822792823
Email - shreedattaelectricals.mane@gmail.com & sales@shreedattaelectricals.com
Website - **www.shreedattaeletricals.com**

Shree Datta Electricals Engineers & Contractors

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M.S.E.D.C.L., HESCOM,(Hubballi) Vendor Approved
ISO 9001 : 2015 Certified Company
M.C. No.12908, M.S. No.30651, Govt. Licensed Electrical Contractor

IS:1180: Part 1 : 2014
CM/L-7500154914

Date: - 0 /09/2022

Certificate of Training

This is to certify that, **Miss. Snehal Prabhakar Koshti (PRN-2018089773)** student of **"Dr. J. J. Magdum College of Engineering, Jaysingpur** studying in Final year of **"Electronics & Telecommunication Engineering"** satisfactory completed her training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, she obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish her a good career ahead.

Shree Datta Electricals Engineers and Contractors

For Shree Datta Electricals
Engineers & Contractors

Proprietor

Proprietor

DR. J.J. MAGDUM COLLEGE OF ENGINEERING

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Website - www.shreedattaeletricals.com

Shree Datta Electricals Engineers & Contractors

IS:1180: Part 1 : 2014

Manufacturer & Repairs of all types of Distribution Transformer

Bureau of Indian Standard (BIS),Bureau of Energy Efficiency (BEE) Govt. of India Approved CM/L-7500154914

M.S.E.D.C.L., HESCOM,(Hubballi) Vendor Approved

ISO 9001 : 2015 Certified Company

M.C. No.12908, M.S. No.30651, Govt. Licensed Electrical Contractor

Date: 01/09/2022

Certificate of Training

This is to certify that, **Miss. Pradnya Arun Khot (PRN-2018089473)** student of "**Dr. J. J. Magdum College of Engineering, Jaysingpur** studying in final year of "**Electronics & Telecommunication Engineering**" satisfactory completed her training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, she obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish her a good career ahead.

Shree Datta Electricals Engineers and Contractors
For Shree Datta Electricals
Engineers & Contractors

Proprietor

Proprietor

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Factory Address : Gat No.-265, Opp R. K. Market Yard, Mouje Agar [Jaysingpur]
Post - Datta Nagar, Tal-Shirol, Dist-Kolhapur, Pin-416 120 [Maharashtra]
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Website - **www.shreedattaeletricals.com**

Shree Datta Electricals Engineers & Contractors

IS:1180: Part 1: 2014

Manufacturer & Repairs of all types of Distribution Transformer

Bureau of Indian Standard (BIS),Bureau of Energy Efficiency (BEE) Govt. of India Approved CM/L-7500154814

M.S.E.D.C.L., HESCOM,(Hubballi) vendor Approved

ISO 9001 : 2015 Certified Company

M.C. No.12908, M.S. No.30651, Govt. Licensed Electrical Contractor

Date: - 0 /09/2022

Certificate of Training

This is to certify that, **Miss. Saniya Shakil Latif (PRN-2018089952)** student of **"Dr. J. J. Magdum College of Engineering, Jaysingpur** studying in Final year of **"Electronics & Telecommunication Engineering"** satisfactory completed her training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, she obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish her a good career ahead.

Shree Datta Electricals Engineers and Contractors

For Shree Datta Electricals Engineers & Contractors

Proprietor

Proprietor

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

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Post - Datta Nagar, Tal-Shirol, Dist-Kolhapur, Pin-416 120 (Maharashtra)
☎ (02322) 222150, Mob.: 9822043719, (O) 9822792823
Email - shreedattaelectricals.mane@gmail.com & sales@shreedattaelectricals.com
Website - www.shreedattaeletricals.com

Gustovalley Technovations

CERTIFICATE OF COMPLETION

This Certifies that

has successfully completed Gustovalley Technovation's Online Internship on Industry 4.0 which was conducted from 10 - 8 - 2022 to 10 - 9 - 2022.

The Performance delivered during the program was Good

Date : 15 - 9 - 2022

Authorized Signatory

Certificate No : GL103482

DR. J.J. MAGDUM COLLEGE OF ENGINEERING

MORYA INDUSTRIES

BUDHWAR PETH-WEST MADHAVNAGAR(SANGLI), 416 416
E-Mail: moryaelectrodesign@gmail.com

MO. 9890678139

DATE:-21-APRIL 2022

Training Certificate

This certificate is given to

Mr. Vinesh Vijay Kamble

For successfully completing the industrial training course on Designing and manufacturing process of different types of electronics printed circuit board for the period of 10 feb. 2022 to 28 feb. 2022. During this period he has good moral character & good working in this service period. We wish him great Engineering Career ahead.

This certificate is given on his own request.

FOR MORYA INDUSTRIES

Morya Electro Design & Automation, Sangli

Authorised Signature

DR. J.J. MAGDUM COLLEGE OF ENGINEERING

Shree Datta Electricals Engineers & Contractors

Manufacturer & Repairs of all types of Distribution Transformer
Bureau of Indian Standard (BIS),Bureau of Energy Efficiency (BEE) Govt. of India Approved
M.S.E.D.C.L., HESCOM,(Hubballi) Vendor Approved
ISO 9001 : 2015 Certified Company
M.C. No.12908, M.S. No.30651, Govt. Licensed Electrical Contractor

IS:1180; Part 1 : 2014
CM/L-7500154914

Date: - 01/09/2022

Certificate of Training

This is to certify that, **Mr. Dhannapa Somaning Chikkiaki (PRN-2019086731)** student of "**Dr. J. J. Magdum College of Engineering, Jaysingpur** studying in Fina. year of **"Electronics & Telecommunication Engineering"** satisfactory completed his training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, he obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish him a good career ahead.

Shree Datta Electricals Engineers and Contractors

For Shree Datta Electricals
Engineers & Contractors

Proprietor

Proprietor

Dr. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Factory Address : Gat No.-265, Opp R. K. Market Yard, Mouje Agar [Jaysingpur]
Post - Datta Nagar, Tal-Shirol, Dist-Kolhapur, Pin-416 120 [Maharashtra]
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Email - shreedattaelectricals.mane@gmail.com & sales@shreedattaelectricals.com
Website - **www.shreedattaeletricals.com**

Shree Datta Electricals Engineers & Contractors

Manufacturer & Repairs of all types of Distribution Transformer

Bureau of Indian Standard (BIS),Bureau of Energy Efficiency (BEE) Govt. of India Approved

M.S.E.D.C.L. - ESDM (Hubballi) Vendor Approved

ISO 9001 : 2015 Certified Company

M.C. No.12908, M.S. No.30651, Govt. Licensed Electrical Contractor

IS:1180: Part 1 : 2014

QM/L-7500154914

Date: - 01/09/2022

Certificate of Training

This is to certify that, **Miss. Komal Bhanudas Patil (PRN-2018089561)** student of "Dr. J. J. Magdum College of Engineering, Jaysingpur studying in Final year of **"Electronics & Telecommunication Engineering"** satisfactory completed her training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, she obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish her a good career ahead.

Shree Datta Electricals Engineers and Contractors

Shree Datta Electricals
Engineers & Contractors

Proprietor

Shree Datta Electricals Engineers & Contractors
SDEEC
Mouje Agar
(Shirol)

Proprietor

DR. J.J. MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR

Factory Address : Gat No.-265, Opp R. K. Market Yard, Mouje Agar (Jaysingpur)
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Email - shreedattaelectricals.mane@gmail.com & sales@shreedattaelectricals.com
Website - **www.shreedattaeletricals.com**

MORYA INDUSTRIES

MANUFACTURERS & DESIGNERS OF QUALITY PRINTED CIRCUIT BOARDS

BUDHWAR PETH-WEST MADHAVNAGARISANGLI. 416 406
E-Mail: moryaelecrtodesign@gmail.com

MO. 9890678139

DATE:-27-JAN 2022

Training Certificate

This certificate is given to

Ms. Sneha Sanjay Kate

For successfully completing the industrial training course on Designing and manufacturing process of different types of electronics printed circuit board for the period of 10 Jan 2022 to 24 Jan 2022. During this period she has good moral character & good working in this service period. We wish her great Engineering Career ahead.

This certificate is given on her own request.

FOR MORYA INDUSTRIES

Authorised Signature

Morya Electro Design & Automation, Sangli

DR. J.J.MAGDUM COLLEGE OF ENGINEERING

MORYA INDUSTRIES

MANUFACTURERS & DESIGNERS OF QUALITY PRINTED CIRCUIT BOARDS

BUDHWAR PETH-WEST MADHAVNAGARISANGLI. 416 406
E-Mail: moryaelecrtodesign@gmail.com

MO. 9890678139

DATE:-21-APRIL 2022

Training Certificate

This certificate is given to

Mr. Omkar Vaibhav Vaidya

For successfully completing the industrial training course on Designing and manufacturing process of different types of electronics printed circuit board for the period of 10 feb. 2022 to 28 feb. 2022. During this period he has good moral character & good working in this service period. We wish him great Engineering Career ahead.

This certificate is given on his own request.

FOR MORYA INDUSTRIES

Morya Electro Design & Automation, Sangli

Authorised Signature

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

MORYA INDUSTRIES

MANUFACTURERS & EXPORTERS OF QUALITY PRINTED CIRCUIT BOARDS

BUDHWAR PETH-WEST MADHAVNAGAR(SANGLI). 416 406
E-Mail: moryadelectrodesign@gmail.com

MO. 9890678139

DATE:-21-APRIL 2022

Training Certificate

This certificate is given to

Mr. Tejas Gurudatta Gurav

For successfully completing the industrial training course on Designing and manufacturing process of different types of electronics printed circuit board for the period of 10 feb. 2022 to 28 feb. 2022. During this period he has good moral character & good working in this service period. We wish him great Engineering Career ahead.

This certificate is given on his own request.

DR. J.J. MAGDUM COLLEGE OF ENGINEERING

FOR MORYA INDUSTPIES

Morya Electro Design & Automation, Sangli

Authorised Signature

MORYA INDUSTRIES

MANUFACTURERS & DESIGNERS OF QUALITY PRINTED CIRCUIT BO

BUDHWAR PETH-WEST MADHAVNAGAR(SANGLI) 416 406
E-Mail: moryaelecrtodesign@gmail.com

MO. 9890678139

DATE:-24-JULY 2022

Training Certificate

This certificate is given to

Ms. Reena Babanrao Made

For successfully completing the industrial training course on Designing and manufacturing process of different types of electronics printed circuit board for the period of 15 June 2022 to 30 June 2022.During this period she has good moral character & good working in this service period. We wish her great Engineering Career ahead.

This certificate is given on her own request.

FOR MORYA INDUSTRIES

Morya Electro Design & Automation,Sangli

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Authorised Signature

MORYA INDUSTRIES

MANUFACTURERS & DESIGNERS OF QUALITY PRINTED CIRCUIT BOARDS

BUDHWAR PETH-WEST MADHAVNAGAR(SANGLI). 416 406
E-Mail: moryaelecrtodesign@gmail.com

MO. 9890678139

DATE:-24-JULY 2022

Training Certificate

This certificate is given to

Ms. Shweta Suryakant Gaikwad

For successfully completing the industrial training course on Designing and manufacturing process of different types of electronics printed circuit board for the period of 15 June 2022 to 30 June 2022.During this period she has good moral character & good working in this service period. We wish her great Engineering Career ahead.

This certificate is given on her own request.

FOR MORYA INDUSTRIES

Morya Electro Design & Automation, Sangli

Authorised Signature

DR. J.J.MAGDUM COLLEGE OF ENGINEERING

MORYA INDUSTRIES

MANUFACTURERS & DESIGNERS OF [illegible] PRINTED CIRCUIT BOARDS

BUDHWAR PETH-WEST MADHAVNAGAR(SANGLI). 416 406
E-Mail: moryaelectrodesign@gmail.com

MO. 9890678139

DATE:-27-JAN 2022

Training Certificate

This certificate is given to

Ms. Gayatri Bharat Patil

For successfully completing the industrial training course on Designing and manufacturing process of different types of electronics printed circuit board for the period of 10 Jan 2022 to 24 Jan 2022. During this period she has good moral character & good working in this service period. We wish her great Engineering Career ahead.

This certificate is given on her own request.

FOR MORYA INDUSTRIES

Morya Electro Design & Automation, Sangli

Authorised Signature

DR. J. J. MAGDUM COLLEGE OF ENGINEERING

MORYA INDUSTRIES

MANUFACTURERS & DESIGNERS OF QUALITY PRINTED CIRCUIT BOARDS

BUDHWAR PETH-WEST MADHAVNAGAR(SANGLI). 416 406
E-Mail: moryaelectrodesign@gmail.com

MO. 9890678139

DATE:-27-JAN 2022

Training Certificate

This certificate is given to

Ms. Mohini Somnath Chavan

For successfully completing the industrial training course on Designing and manufacturing process of different types of electronics printed circuit board for the period of 10 Jan 2022 to 24 Jan 2022. During this period she has good moral character & good working in this service period. We wish her great Engineering Career ahead.

This certificate is given on her own request.

FOR MORYA INDUSTRIES

Morya Electro Design & Automation,Sangli

Authorised Signature

DR. J.J.MAGDUM COLLEGE OF ENGINEERING

Shree Datta Electricals Engineers & Contractors

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IS:1180: Part 1 : 2014
CM/L-7500154914

Date: - 01/09/2022

Certificate of Training

This is to certify that, **Mr. Sanket Suresh Bhoi (PRN-2017094688)** student of **"Dr. J. J. Magdum College of Engineering, Jaysingpur** studying in Final year of **"Electronics & Telecommunication Engineering"** satisfactory completed his training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer Govt. Project.

During this period, he obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish him a good career ahead.

Shree Datta Electricals Engineers and Contractors

Shree Datta Electricals
Engineers & Contractors

Proprietor

Shree Datta Electricals Engineers & Contractors SDEEC Mouje Agar (Shirol)

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

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Website - **www.shreedattaeletricals.com**

MORYA INDUSTRIES

MANUFACTURERS & DESIGNERS OF QUALITY PRINTED CIRCUIT BOARDS

BUDHWAR PETH-West MADHAVNAGAR(SANGLI), 416 406
E-Mail: moryaelecrtodesign@gmail.com

MO. 9890678139

DATE:-21-APRIL 2022

Training Certificate

This certificate is given to

Mr. Rohit Chandrakant Patil

For successfully completing the industrial training course on Designing and manufacturing process of different types of electronics printed circuit board for the period of 10 feb. 2022 to 28 feb. 2022. During this period he has good moral character & good working in this service period. We wish him great Engineering Career ahead.

This certificate is given on his own request.

FOR MORYA INDUSTRIES

Morya Electro Design & Automation, Sangli

Authorised Signature

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

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IS:1180: Part 1 : 2014

CM/L-7500154914

Date: - 01/09/2022

Certificate of Training

This is to certify that, **Mr. Chetan Sanjay Patil (PRN-2018091535)** student of **"Dr. J. J. Magdum College of Engineering, Jaysingpur** studying in Final year of **"Electronics & Telecommunication Engineering"** satisfactory completed his training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, he obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish him a good career ahead.

Shree Datta Electricals Engineers and Contractors

For **Shree Datta Electricals Engineers & Contractors**

Proprietor

Proprietor

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Factory Address : Gat No.-265, Opp R. K. Market Yard, Mouje Agar (Jaysingpur)
Post - Datta Nagar, Tal-Shirol, Dist-Kolhapur, Pin-416 120 (Maharashtra)
☎ (02322) 222150, Mob.: 9822043719, (O) 9822792823
Email - shreedattaelectricals.mane@gmail.com & sales@shreedattaelectricals.com
Website - www.shreedattaeletricals.com

Shree Datta Electricals Engineers & Contractors

Manufacturer & Repairs of all types of Distribution Transformer
Bureau of Indian Standard (BIS), Bureau of Energy Efficiency (BEE) Govt. of India Approved
M.S.E.D.C.L. (HESCOM) (Hubballi) Vendor Approved
ISO 9001 : 2015 Certified Company
M.C. No.12605, M.S. No.30851, Govt. Licensed Electrical Contractor

IS:1180: Part 1 : 2014
CM/L-7500154914

Date: 0./09/2022

Certificate of Training

This is to certify that, **Mr. Aniket Satish Patil (PRN-2018090328)** student of **"Dr. J. J. Magdum College of Engineering, Jaysingpur** studying in Final year of **"Electronics & Telecommunication Engineering"** satisfactory completed his training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, he obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish him a good career ahead.

Shree Datta Electricals Engineers and Contractors
For Shree Datta Electricals Engineers & Contractors

Proprietor

Proprietor

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Factory Address : Gat No.-265, Opp R. K. Market Yard, Mouje Agar (Jaysingpur)
Post - Datta Nagar, Tal-Shirol, Dist-Kolhapur, Pin-416 120 (Maharashtra)
☎ (02322) 222150, Mob.: 9822043719, (O) 9822792823
Email - shreedattaelectricals.mane@gmail.com & sales@shreedattaelectricals.com
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Shree Datta Electricals Engineers & Contractors

IS:1180 Part 1 : 2014

Manufacturer & Repairs of all types of Distribution Transformer

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M.S.E.D.C.L., HESCOM,(Hubballi) Vendor Approved

ISO 9001 : 2015 Certified Company

M.C. No.12908, M.S. No.30651, Govt. Licensed Electrical Contractor

Date: - 01/09/2022

Certificate of Training

This is to certify that, **Mr. Jayesh Sunil Jathar (PRN-2019086730)** student of "Dr. J. J. Magdum College of Engineering, Jaysingpur studying in Final year of "**Electronics & Telecommunication Engineering**" satisfactory completed his training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, he obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish him a good career ahead.

Shree Datta Electricals Engineers and Contractors

For Shree Datta Electricals Engineers & Contractors

Proprietor

Proprietor

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Factory Address : Gat No.-265, Opp R. K. Market Yard, Mouje Agar (Jaysingpur)
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☎ (02322) 222150, Mob.: 9822043719, (O) 9822792823
Email - shreedattaelectricals.mane@gmail.com & sales@shreedattaelectricals.com
Website - www.shreedattaeletricals.com

VVT

P 90, Mahananda Nagar, Manmad Nashik-423104,
MH India
GSTIN/UIN
27ABIPA9017G1ZU

CERTIFICATE

VVT/HRDD/INT00 S2022

Date: 10/09/2022

This is to certify that **Mr. SUDHIR DARYAPPA SALE** University **(PRN-0812216759)** pursuing final year **(B.E. in Electronics and Telecommunication Engineering)** from **"Dr. J. J. Magdum College of Engineering, Jaysingpur."** Affiliated to **"Shivaji University, Kolhapur"** has carried out internship at **"PLC Logic and HMI Modifications"** in Maintenance division under **VVT Navi Mumbai**, during the period from **22.08.2022 to 09.09.2022.**

Under the guidance of Mr. Nitin Lamdade Engineer of the company, during the above period, his/her character and conduct were found to be **Very Good**.

We wish him/her success in future endeavors.

SOHEL TAMBOLI 522606
BDM ILSCV
BDM ILSCV

For VidVed Technologies,

Vishal Abhang

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Tel: +91-9981236229

e-mail: visha_abhang@yahoo.com

B-7/8, M.I.D.C., Miraj - 416 410. Dist. Sangli,
Maharashtra, INDIA.
Mobiles : 9423003026, 9823455993
Web : www.fancytextiles.com
E-mail : sales@fancytextiles.com

FANCY TEXTILES

Machine Designing | Development
Automation | Manufacturing

Ref:

Date :- 15-July-2021

To,

The Head of the Department/Program,
Department of E&TC Engineering
Dr.J.J.Magdum collage of Engineering,
Jaysingpur, Shirol-Wadi Road, 416101

This is to certify that **Mr.Chaitanya Arvind Kore (Roll No:11)** second year student of Electronics and Telecommunication Engineering Department of Dr.J.J.Magdum Collage of Engineering, jaysingpur, Kolhapur has completed his internship work as per our expected solutions and up to the mark, in our firm. During the period of 1st July 2021 to **15** July 2021 (with reference to request letter Ref/JJMCOE/ETC/2020-21/). During the period of his internship with us he has found punctual, Hardworking, and inquisitive.

We are appreciating your great efforts to bridge the gap between industry and institute by promoting and encouraging the students to work on industry problems. We looking forward to maintain the relationship with us by helping each other as and when required.

We wish best of luck for her brigh future.

With best regards,

Manager

FANCY TEXTILES

DR. J.J.MAGDUM COLLEGE OF ENGINEERING

Shree Datta Electricals Engineers & Contractors

Manufacturer & Repairs of all types of Distribution Transformer
Bureau of Indian Standard (BIS),Bureau of Energy Efficiency (BEE) Govt. of India Approved
M.S.E.D.C.L, HESCOM,(Hubballi) Vendor Approved
ISO 9001 : 2015 Certified Company
M.C. No.12908, M.S. No.30691, Govt. Licensed Electrical Contractor

IS:1180 Part 1 : 2014
CM/L-7500154914

Date: - 01/09/2022

Certificate of Training

This is to certify that, **Mr. Abhishek Narendra Pawar (PRN-2018091531)** student of **"Dr. J. J. Magdum College of Engineering, Jaysingpur** studying in Final year of **"Electronics & Telecommunication Engineering"** satisfactory completed his training in our factory for a period of 15 days from **16th Aug 2022 to 30th Aug 2022** under the guidance of Shri. Sayajirao R. Mane, proprietor of the company & Engineer-Govt. Project.

During this period, he obtained training & experience of the production process, winding, assembly, testing & maintenance of distribution transformer.

We wish him a good career ahead.

Shree Datta Electricals Engineers and Contractors
For Shree Datta Electricals
Engineers & Contractors

Proprietor

Proprietor

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Factory Address : Gat No.-265, Opp R. K. Market Yard, Mouje Agar (Jaysingpur)
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Email - shreedattaelectricals.mane@gmail.com & sales@shreedattaelectricals.com
Website - **www.shreedattaeletricals.com**

augmentation

Dr. J. J. Magdum College of Engineering, Jaysingpur.

Department of Electronics and Telecommunication Engineering

Augmentation Summary

Year	Name of the workshop	Number of Participants	Date From – To
2022-23	Hands on Experience of Embedded C	31	13th Dec 2022
	PLC Programming	59	6th and 7th Dec 2022

Mrs. Phutane M.U.
Augmentation Coordinator

Mr. Kolap M.M.
H.O.D. E&TC. Engg.

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and E&TC Engineering

Date:- 5th Dec 2022

Notice

All the students of B.Tech. Etrx and E&TC are hereby informed that **Two day Workshop** on **"PLC programming "** is arranged on **6th and 7th Dec 2022 at CCF Lab**. Attendance is compulsory. Following is the schedule.

Date	Day	Time
6th Dec 2022	Tuesday	11.40 am to 4.30 pm
7th Dec 2022	Wednesday	9.30 am to 4.30 pm

Mrs. Phutane M.U.
Augmentation Co-ordinator

Mr. Kolap M.M.
H.O.D.
Etrx and E&TC. Engg.Dept.

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and E&TC Engineering

Date:- 5th Dec 2022

Circular

Two day Workshop on **"PLC programming"** is arranged on **6th and 7th Dec 2022,** as per the following schedule. All the faculty of B.Tech. Etrx and E&TC should take note of it. First two lecturs on 6th Dec 2022 will be conducted as per the regular schedule.

Date	Day	Time
6th Dec 2022	Tuesday	11.40 am to 4.30 pm
7th Dec 2022	Wednesday	9.30 am to 4.30 pm

Mrs. Phutane M.U.
Augmentation Co-ordinator

Mr. Kolap M.M.
H.O.D.
Etrx and E&TC. Engg.Dept.

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and E&TC Engineering

Date: 30/11/22

To,
The Principal,
Dr.J.J.M.C.O.E.,
Jaysingpur

Sub:- Permission for conducting the two day workshop on "PLC and SCADA" for B.Tech. students

Respected Sir,

As per the suggestions from TPO of our institute, We are organizing the two day workshop on "PLC and SCADA" for B. Tech. students of E&TC Engg. on 5th and 6th Dec 2022. For the same the budget is Rs. 9000/-. Quotation of the same is attached herewith. So we request you to give the permission for conducting the workshop and also sanction the required budget.

Thanking You,

Your's Faithfully,

Mrs. Phatare M.U.
Augmentation In-charge

Mr. Kolap M.M.
H.O.D.
Dept. of E&TC Engg.

Recommended (7,000/-)
30.11.22

Permitted
01/12/22

DR. J. J. MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and E&TC Engineering

Date: 7/12/22

To,

Mr.Gadgil A.D.
Hem Electronics,
Kupwad MIDC,Miraj

Sub.:- Thanking for two day workshop on "PLC programming".

Dear Sir,

We,on behalf of E&TC Department of our college, hereby express our sincere, thanks for conducting workshop on "**PLC programming "on 6th and 7th Dec** 2022 for B.Tech. E&TC and Extx. students. The workshop explored the wide scope of information.

We expect same co-operation in future.

Thanking you.

With regards,

Mrs. Phutane M.U.

Augmentation Co-coordinator

Received

Mr. Kolap M.M.

H.O.D. E&TC. Engg.

DR. J.J.MAGDUM COLLEGE OF ENGINEERING

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and E&TC Engineering

Date: 28/11/22

To,
Mr.Gadgil A.D.
Hem Electronics,
Kupwad MIDC,Miraj

Sub.:- **Invitation for two day workshop on "PLC programming".**

Dear Sir,

Our's is a leading Educational Institute offering four year degree course in different faculties of Engineering. In an attempt to expose our students to practical applications of their theoretical knowledge, we propose to arrange workshops of experts. With this reference we would like to invite you for one day workshop on **"PLC programming"** on 6th and 7th Dec **2022** for B.Tech. E&TC and Etrx. students.

We hope that you accept our invitation.

Thanking you.

With regards,

Mrs. Phutane M.U.
Augmentation Co-coordinator

Mr. Kolap M.M.
H.O.D. E&TC. Engg.

Received

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Dr. J. J. Magdum Trust's (No. E-902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and E&TC Engineering

Date: 7/12/22

Attendance sheet of " PLC Programming"

Roll.no	Name of student	9.30 am	11.40am	2.30pm
1	Babar Prasad Popat			
2	Sonawale Bhagyashree			
3	Patil Pratik Dushyant			
4	Sutar Nikita			
5	Shetti Namrata Sunil			
6	Koshti Snehal Prabhakar			
7	Khot Pradnya Arun			
8	Latif Saniya Shakil			
9	Nadaf Saniya Haroon			
10	Shinge Ranjeet Balaso			
11	Kamble Vinesh Vijay			
12	Chikalakki Dhanappa S.			
13	Patil Komal Bhanudas			
14	Kate Sneha Sanjay			
15	Vaidya Omkar Vaibhav			
16	Gurav Tejas Gurudatta			
17	Reena Babanrao Made			
18	Gaikwad Shweta S.			
19	Patil Gayatri Bharat			
20	Chavan Mohini Somnath			
21	Sanket Suresh Bhoi			
22	Patil Rohit Chandrakant			
23	Patil Chetan Sanjay			
24	Aniket Patil Thorat			
25	Kacchi Akil Hanif			
26	Mujawar Tanjeel M.			

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

27	Jathar Jayesh Sunil	[signature]		
28	Sudhir Sale	[signature]	[signature]	[signature]
29	Kore Chaitanya Arvind	[signature]	[signature]	[signature]
30	Abhishek pawar (etrx)	[signature]	[signature]	[signature]
31	Kajal patil(etrx)			
21	Saeed Ahmed Momin	[signature]	(mechanical)	
28	Mushkan shaikh	[signature]		
12	Rushikesh R. Kolate	[signature]	Mech	
04	Pradyumna R Kalpe	[signature]	Mech	
24	shubham Ainapure	[signature]	(Mech)	
03	Patil Saurabh S.	[signature]	(Mech)	
20	Patil Saurabh Popat	[signature]	(Mech)	

[signature]
Mrs. Phutane M.U.
Augmentation Co-coordinator

[signature]
Mr. Kolap M.M.
H.O.D. E&TC. Engg.

DR. J. J. MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR 416101

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and E&TC Engineering

Date: 6/12/22

Attendance sheet of " PLC Programming"

Roll.no	Name of student	11.40am	2.30pm
1	Babar Prasad Popat		
2	Sonawale Bhagyashree		
3	Patil Pratik Dushyant		
4	Sutar Nikita		
5	Shetti Namrata Sunil		
6	Koshti Snehal Prabhakar		
7	Khot Pradnya Arun		
8	Latif Saniya Shakil		
9	Nadaf Saniya Haroon		
10	Shinge Ranjeet Balaso		
11	Kamble Vinesh Vijay		
12	Chikalakki Dhanappa S.		
13	Patil Komal Bhanudas		
14	Kate Sneha Sanjay		
15	Vaidya Omkar Vaibhav		
16	Gurav Tejas Gurudatta		
17	Reena Babanrao Made		
18	Gaikwad Shweta S.		
19	Patil Gayatri Bharat		
20	Chavan Mohini Somnath		
21	Sanket Suresh Bhoi		
22	Patil Rohit Chandrakant		
23	Patil Chetan Sanjay		
24	Aniket Patil Thorat		
25	Kacchi Akil Hanif		
26	Mujawar Tanjeel M.		

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

27	Jathar Jayesh Sunil	Jathar	Jathar
28	Sudhir Sale		
29	Kore Chaitanya Arvind		
30	Abhishek pawar (etrx)		
31	Kajal patil(etrx)		

Mrs. Phulpagare M.U.
Augmentation Co-coordinator

Mr. Kolap M.M.
H.O.D. E&TC. Engg.

DR. J.J.MAGDUM COLLEGE OF ENGINEERING

Workshop on "PLC Programming" 6th and 7th Dec 2022

Dr. J. J. Magdum Trust's (No. E/902)

DR. J. J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR.

Department of Electronics & Telecommunication Engineering

CERTIFICATE

This is to certify that, Mr. /Ms......*has attended five Days Workshop of "PLC Programming" organized by Department of ETC Engineering under Augmentation Cell activity at Dr. J.J. Magdum College of Engineering, Jaysingpur on 6th and 7th Dec 2022.*

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Co-ordinators
Prof.Mrs.Phutane M.U.

HOD(ETC)
Prof.Kolap M.M.

Dr. J. J. Magdum Trust's (No. E-902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and E&TC Engineering

Date : 8th Dec 2022

Notice

All the students of B.Tech. Etrx and E&TC are hereby informed that **One day Workshop** on **"Hands on experience of Embedded C "** is arranged on **13th Dec 2022** at **Microcontroller Lab** from 9.30 am onwards. Attendance is compulsory.

Mrs. Phutane M.U.
Augmentation Co-ordinator

Mr. Kolap M.M.
H.O.D.
Etrx and E&TC. Engg.Dept.

Dr. J. J. Magdum Trust's (No. E-902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and E&TC Engineering

Date : 8th Dec 2022

Circular

One day Workshop on **"Hands on experience of Embedded C"** is arranged on **13th Dec 2022**, from 9.30 am onwards. All the faculty of B.Tech. Etrx and E&TC should take note of it.

Mrs. Phutane M.U.
Augmentation Co-ordinator

Mr. Kolap M.M.
H.O.D.
Etrx and E&TC. Engg.Dept.

DR. J.J. MAGDUM COLLEGE OF ENGINEERING

Dr. J. J. Magdum College of Engineering, Jaysingpur
Department of Electronics and E&TC Engineering

Date: 13/12/22

To,

Prof. Mrs. Phutane M.U.
Dept. of E&TC Engg.,
Dr.J.J.M.C.O.E.,Jaysingpur

Sub.:- Thanking for one day workshop on "Hands on experience of Embedded C".

Dear Sir/Madam,

We, on behalf of E&TC Department of our college, hereby express our sincere, thanks for conducting workshop on "Hands on experience of Embedded C "on 13th Dec 2022 for B.Tech. E&TC and Etrx. students. The workshop explored the wide scope of information.

We expect same co-operation in future.

Thanking you.

With regards,

Mrs. Chavan D.U.
Subject Incharge

Mr. Kolap M.M.
H.O.D. E&TC. Engg.

DR. J. J. MAGDUM COLLEGE

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and E&TC Engineering

Date: 8/12/22

To,
Prof. Mrs. Phutane M.A.
Dept. of E&TC Engg.,
Dr.J.J.M.C.O.E.,Jaysingpur

Sub.:- Invitation for one day workshop on "Hands on experience of Embedded C".

Dear Sir/Madam,

Our's is a leading Educational Institute offering four year degree course in different faculties of Engineering. In an attempt to expose our students to practical applications of their theoretical knowledge, we propose to arrange workshops of experts. With this reference we would like to invite you for one day workshop on **"Hands on experience of Embedded C"** on **13th Dec 2022** for B.Tech. E&TC and Etrx. students.

We hope that you accept our invitation.

Thanking you.

With regards,

Mrs. Chavan D.U.
Subject Incharge

Mr. Kolap M.M.
H.O.D. E&TC. Engg.

Dr. J. J. Magdum Trust's (No. F-902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and E&TC Engineering

Date: 8/12/22

To,
Prof. Mrs. Phutane M.U.
Dept. of E&TC Engg.,
Dr.J.J.M.C.O.E.,Jaysingpur

Sub.:- Invitation for one day workshop on "Hands on experience of Embedded C".

Dear Sir/Madam,

Our's is a leading Educational Institute offering four year degree course in different faculties of Engineering. In an attempt to expose our students to practical applications of their theoretical knowledge, we propose to arrange workshops of experts. With this reference we would like to invite you for one day workshop on **"Hands on experience of Embedded C"** on **13th Dec 2022** for B.Tech. E&TC and Etrx. students.

We hope that you accept our invitation.

Thanking you.

With regards,

Mrs. Chavan D.U.
Subject Incharge

Mr. Kolap M.M.
H.O.D. E&TC. Engg.

DR. J. J. MAGDUM COLLEGE OF ENGINEERING

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and E&TC Engineering

Date: 13/12/22

To,

Prof. Mrs. Phutane M.U.
Dept. of E&TC Engg.,
Dr.J.J.M.C.O.E.,Jaysingpur

Sub.:- Thanking for one day workshop on "Hands on experience of Embedded C".

Dear Sir/Madam,

We, on behalf of E&TC Department of our college, hereby express our sincere, thanks for conducting workshop on "**Hands on experience of Embedded C** "on **13th Dec 2022** for B.Tech. E&TC and Etrx. students. The workshop explored the wide scope of information.

We expect same co-operation in future.

Thanking you.

With regards,

Mrs. Chavan D.U.
Subject Incharge

Mr. Kolap M.M.
H.O.D. E&TC. Engg.

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics & Telecommunication Engineering

HANDS ON EXPERIENCE ON EMBEDDED C

Class/Batch 22-23 Sem-I - 13/12/2022

Roll no	Name of student			
1	Babar Prasad Popat			
2	Sonawale Bhagyashree			
3	Patil Pratik Dushyant			
4	Sutar Nikita			
5	Shetti Namrata Sunil			
6	Koshti Snehal Prabhakar			
7	Khot Pradnya Arun			
8	Lati Samiya Shakil			
9	Nadaf Samiya Hussain			
10	Shinge Rameet Balaso			
11	Kamble Vinesh Vijay			
12	Chikalakki Dhanappa Somaling			
13	Patil Komal Bhanudas			
14	Kate Sneha Sanjay			
15	Vaidya Omkar Vaibhav			
16	Gurav Tejas Gurudatta			
17	Reena Babanrao Made			
18	Gaikwad Shweta Survakant			
19	Patil Gayatri Bharat			
20	Chavan Mohini Somnath			
21	Sanket Suresh Bhoi			
22	Patil Rohit Chandrakant			
23	Patil Chetan Sanjay			
24	Aniket Patil Thorat			
25	Kaechi Akil Hanif			
26	Mujawar Tanjeel Mahamadrafik			
27	Jathar Jayesh Sunil			
28	Sudhir Sale			
29	Kore Chaitanya Arvind			
1	Abhishek Pawar (Etrx)			
2	KAJAL PATIL			

Dr. J. J. Magdum College of Engineering, Jaysingpur

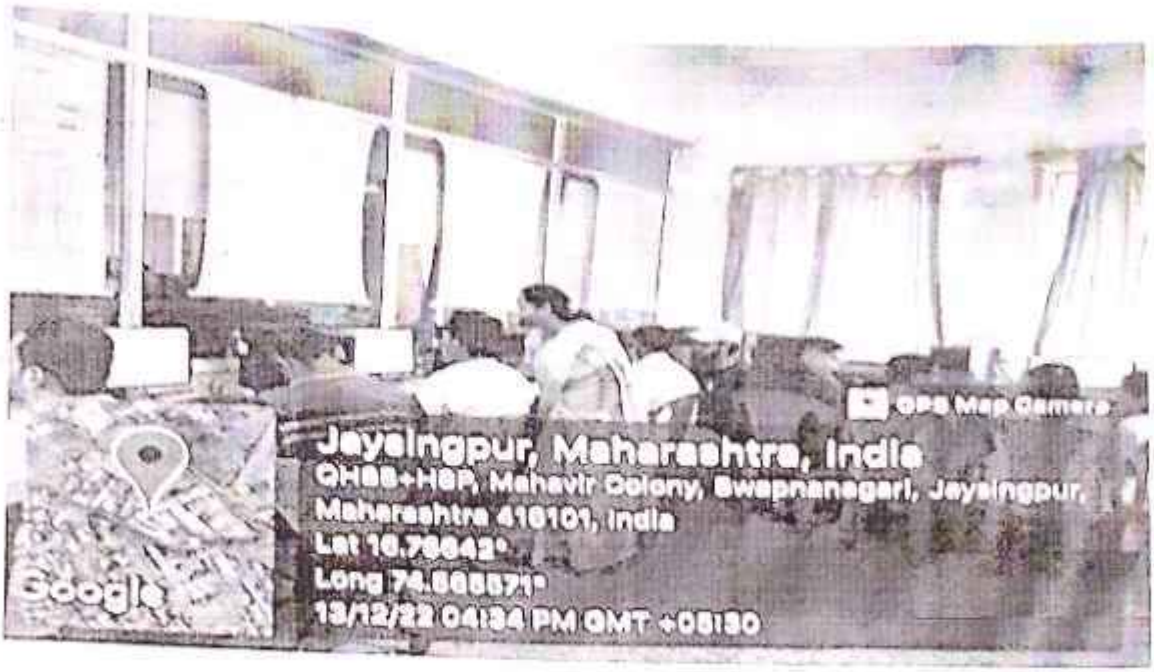
Department of Electronics & Telecommunication Engineering

HANDS ON EXPERIENCE OF EMBEDDED C

Class B.Tech 22-23 Sem I 13/12/2022

Roll no	Name of student			
1	Babar Prasad Popat	[signature]	[signature]	[signature]
2	Sonawale Bhagyashree	[signature]	[signature]	[signature]
3	Patil Pratik Dashrath	[signature]	[signature]	[signature]
4	Sutar Nikita	[signature]	[signature]	[signature]
5	Shetti Samruddhi Sunil	[signature]	[signature]	[signature]
6	Kamble Snehal Prabhakar	[signature]	[signature]	[signature]
7	Khot Pratiksha Arun	[signature]	[signature]	[signature]
8	Patil Sanika Shakil	[signature]	[signature]	[signature]
9	Nadaf Saniya Haroon	[signature]	[signature]	[signature]
10	Shinge Rameez Balaso	AB	AB	AB
11	Kamble Vinesh Vijay	[signature]	[signature]	[signature]
12	Chikkalaki Dhanappa Somanna	[signature]	[signature]	[signature]
13	Patil Komal Bhimadas	[signature]	[signature]	[signature]
14	Kate Sneha Sanjay	[signature]	[signature]	SKate
15	Vaidya Omkar Vaibhav	[signature]	[signature]	[signature]
16	Yadav Tejas Gajanan	[signature]	[signature]	[signature]
17	Reena Babarao Made	Rmade	Rmade	Rmade
18	Gaikwad Shweta Suryakant	[signature]	[signature]	[signature]
19	Patil Gayatri Bharat	GBPatil	GBPatil	GBPatil
20	Chavan Mohini Somnath	Chavan	Chavan	Chavan
21	Sanket Suresh Bhoi	[signature]	[signature]	[signature]
22	Patil Rohit Chandrakant	[signature]	[signature]	[signature]
23	Patil Chetan Sanjay	[signature]	[signature]	[signature]
24	Aniket Patil Thorat	A Patil	A Patil	A Patil
25	Kachi Akil Hanif	[signature]	[signature]	[signature]
26	Mujawar Tanjeel Mahamadrafik	T. R. Mujawar	T. R. Mujawar	T. R. Mujawar
27	Jadhav Jayesh Sunil	[signature]	[signature]	[signature]
28	Sudhir Sale	[signature]	[signature]	[signature]
29	Kore Chaitanya Arvind	[signature]	[signature]	[signature]
1	Abhishek Pawar (Ext)	[signature]	[signature]	[signature]
2	KAJAL PATIL	KPatil	KPatil	KPatil

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101



Workshop on "Hands on experience of Embedded C" 13th Dec 2022

Project list

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics & Telecommunication Engineering

Class-BTech

Date 31.10.2022

sr.no.	Guide	Group No.	Roll no	Name of student	Title of project
1	Mrs P.P. Bellagli	1	1	BABAR PRASAD POPAT	Automatic filling and weighing machine
			2	SONAWALE BHAGYASHREE	
2	Mrs. T.H.Mohite	2	3	PATIL PRATIK DUSHYANT	Ambulance tracking with patient health monitoring system using
			4	SUTAR NIKITA	
3	Mr. M.M. Kolap	3	5	SHETTI NAMRATA SUNIL	Agriculture Robot
			6	KOSHTI SNEHAL PRABHAKAR	
4	Dr.Mahadik S.R.	4	7	KHOT PRADNYA ARUN	Atm Fingerprint System
			8	LATIF SANIYA SHAKIL	
5	Mr. M.M. Kolap	5	9	NADAF SANIYA HAROON	Smart helmet for bike riders safety
			10	shinge ranjeet balaso	
		6	11	KAMBLE VINESH VIJAY	Fire Fighting Robot
			12	CHIKALAKKI DHANAPPA SOMANING	
7	Dr. S.B.Patil	7	13	PATIL KOMAL BHANUDAS	traffic control and green corridor generation using drone
			14	KATE SNEHA SANJAY	
8	Dr.Mahadik S.R.	8	15	VAIDYA OMKAR VAIBHAV	Labour work monitoring
			16	GURAV TEJAS GURUDATTA	
9	Mrs. T.H.Mohite	9	17	REENA BABANRAO MADE	cold storage automation
			18	GAIKWAD SHWETA SURYAKANT	
10	Prof.M.B.Bhilawade	10	19	PATIL GAYATRI BHARAT	*Using GSM and GPS*
			20	SOMNATH	
11	Dr. S.B.Patil	11	21	SANKET SURESH BHOI	traffic control and green corridor generation using
			22	PATIL ROHIT CHANDRAKANT	
12	Mr. V.T.Kamble	12	23	PATIL CHETAN SANJAY	*Electrical power generation through speed breaker*
			24	ANIKET PATIL THORAT	
13	Mrs.M.U.Phutane	13	25	KACCHI AKIL HANIF	*Raspberry Pi Based Intelligent Car Anti-Theft System Through Face Recognition*
			26	MUJAWAR TANJEEL MAHAMADRAFIK	
			27	JATHAR JAYESH SUNIL	Automatic CNC writing / drawing machine

14	Mrs P.P. Bellagli	14	28	SUDHIR SALE	
15	Prof.M.B.Bhilawade	15	29	KORE CHAITANYA ARVIND	*Solar tracking system witauto cutoff battery ckt and inverter system*
			1	Abhishek Pawar (ETRX)	
			2		

Expert lecture

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and Telecommunication Engineering

Ref: JJMCOE/E&TC/22-23/

Date: 21/12/2022

To,
Mr. S.S.Satpute
Asst.Professor, Computer Dept.
Dr. JJMCOE,Jaysingpur

Subject: **Invitation for Expert lecture**

Respected Sir / Madam,

In an attempt to expose our students to practical application of their theoretical knowledge, we propose to arrange expert lecture on '**Files and Pointers in C-Programming**' for second year E&TC students. With this reference to above, we would like to invite you for the same on 26/12/22.

Above session will help to attain program outcome PO-4.

Prof.Mrs. Mohite T.H.
Expert Lecture Co-ordinator

Prof. Kolap M.M.
H.O.D.
Elex and E&TC. Engg.Dept.

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Dr. J. J. Magdum College of Engineering, Jaysingpur
Department of Electronics and Telecommunication Engineering

Ref.JJMCOE/ETC/21-22/

Date: - 23/12/2022

To,
Mrs.S.S.Satpute
Ass.Professor, Computer Dept.
Dr.JJMCOE,Jaysingpur

Sub: Thanking letter.

Respected Sir/Madam,

We, on behalf of Electronics and Telecommunication Department of our college, hereby express our sincere, thanks for conducting session on '**Files and Pointers in C-Programming**' for second year E&TC students on 26th December 2022

The presentation explored the wide scope of information and also cover PO-4.

We expect same co-operation in future.

Thanking you.

Prof.Mrs. Mohite T.H.
Expert Lecture Co-ordinator

Prof. Kulkarni M.M.
H.O.D.
Elex and E&TC Engg. Dept.

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and Telecommunication Engineering

Date-26-12-2022

EXPERT LECTURE FOR SECOND YEAR STUDENTS

NAME OF EXPERT SPEAKER- Mrs.S.S.Satpute

TOPIC- "Files and Pointers in C-Programming "

ATTENDANCE REPORT   Time-2.30pm to 3.30pm

Sr.No	Roll no.	Name of Student	Signature
1	71	Sai Sanjay Raut	[illegible]
2	26	Rohini Sanjay Chigare	Shigare
3	12	Rutuja Suresh Bhandare	R.S.B.
4	41	Vaishnavi Sambhaji Jadhav	V.Jadhav
5	19	Sanika Pandurang Sankpal	Sankpal
6	21	Shraddha Niranjan Tathe	Tathe
7	23	Sanika Raju Yadav	[illegible]
8	49	Rutuja Sanjay mane	[illegible]
9	59	Sakshi Shahaji Phorakate	Sakshi.P
10	56	Samruddhi K. Patil	Patil
11	9	Sharyu S. Mali	S.S.Mali
12	10	Aishwarya N. Manglekar	Aishwarya
13	31	Nikita B Kumbhar	Nikita
14	35	Revati Sunil Halingale	Halingale
15	64	Piyusha Santosh Suryawanshi	Piyusha
16	51	Pragati Pralhad Patil	Patil
17	70	Zambre Pavanka Laxman	Zambre
18	62	Shikalgar Misba Alimuddin	[illegible]
19	100	Divya Ravindra Verma	Verma
20	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]
22	54	Patil Sakshi Prakash	[illegible]
23	47	Khot Pratikha Raju	P.Khot
24	[illegible]	[illegible]	[illegible]
25	69	[illegible] Shital [illegible]	[illegible]
26	52	Pranav [illegible] Patil	Patil
27	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]

Mrs.S.S.Satpute
Expert Speaker

[illegible]
Expert Lecture Coordinator

Prof. Kolap N.M.
H.O.D.
E&TC. Engg.Dept.

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and Telecommunication Engineering

Date-26-12-2022

EXPERT LECTURE FOR SECOND YEAR STUDENTS

NAME OF EXPERT SPEAKER- Mrs.S.S.Satpute

TOPIC- "Files and Pointers in C-Programming "

ATTENDANCE REPORT Time-2.30pm to 3.30pm

Sr.No.	Roll no.	Name of Student	Signature
1	31	Ganesh S. Done	[illegible]
2	5	Pushkar D. kadam	Kadam
3	7.	Yash V. kamble	Kamble
4	22	Omkar A Tibile	[illegible]
5	11	Viraj R. More	[illegible]
6	68	Samruddhi H. Wagholikar	Swag
7	39.	Shweta. S. Jadhav	Jadhav
8	30	Urmila P. Dhobale	Dhobale
9	57	Resham. R. Powar	[illegible]
10	12	Onkar A. Nalawade	Ankar
11	14	Sharad S NIKAM	S.Nikam
12	18	Rohan R. Sawant	Bawant
13	04	kaushaly. D. Jadhav.	[illegible]
14	01	vaibhav. S. chavan	Chavan
15	02	Digvijay subhash Divate	Divate
16	03	Sumit. S. Hajare	[illegible]
17	37	Inamdar Shreyash D.	Inamdar
18	34	Ghuge Prakash Rajendra	[illegible]
19	27	shubham ananda [illegible]	[illegible]
20	65	Nakul Anil Yadav	[illegible]
21	58	Radhey Nitin [illegible]	[illegible]
22	73	Hasnain Maqsud Ahmed Dhapre	[illegible]
23	44	Aditya Balasaheb kamble	[illegible]
24	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]

Mrs.S.S.Satpute
Expert Speaker

Mrs. Mahke T.R.
Expert Lecture Co-ordinator

Prof. [illegible]
H.O.D.
E&TC. Engg.Dept.

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and Telecommunication Engineering

Date-30-12-2022

EXPERT LECTURE FOR SECOND YEAR STUDENTS

NAME OF EXPERT SPEAKER- Mrs.S.S.Satpute

TOPIC- "Files and Pointers in C-Programming "

ATTENDANCE REPORT

Time-2.30pm to 3.30pm

Sr.No	Roll no.	Name of Student	Signature
1	33	Sakshi Vijay [illegible]	
2	70	priyanka laxman Zambre	[illegible]
3	54	Sakshi Prakash Patil	[illegible]
4	47	Pratibha Raju khot	[illegible]
5	66	Divya Ravikant Yelnal	[illegible]
6	55	Patil Sakshi Sandip	[illegible]
7	50	More Rushika Arjun	[illegible]
8	59.	Pharakate Sakshi Shahaji	Sakshi.P
9	56	Samruddhi Khanderao Patil	[illegible]
10	18	Rohan R Sawant	[illegible]
11	02	[illegible] Divate	[illegible]
12	04	Kaushaly. D. Jadhav.	[illegible]
13	01	Vaibhav. S. Chavan	Chavan
14	03	Sumit. S. Hajare	Hajare S.S.
15	9	Sharyu S. Mali	S. Mali
16	10	Aishwarya [illegible]	[illegible]
17	17	[illegible]	[illegible]
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			

Mrs.S.S.Satpute
Expert Speaker

Mrs. M. [illegible]
Expert Lecture Coordinator

[illegible]
H.O.D.
E&TC Engg.Dept.

DR. J.J.MAGDUM COLLEGE OF [illegible] JAYSINGPUR 416101

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and Telecommunication Engineering

Ref: JJMCOE/E&TC/22-23/

Date: 21/11/2022

To,
Mrs.M.M.Raste
Ass.Professor,
P.V.P.I.T,Budhgao

Subject: **Invitation for Expert lecture**

Respected Madam,

In an attempt to expose our students to practical application of their theoretical knowledge, we propose to arrange expert lecture on **'Recent technologies in Optical Communication'** for third year E&TC students. With this reference to above, we would like to invite you for the same on 25/11/22.

Above session will help to attain program outcome PO-4.

21-11-2022

Prof.T.H.Mohite
Expert Lecture Co-ordinator

Dr. J. J. Magdum College of Engg.
Department
E & TC

Mr.Kolap M.M
H.O.D
Elex and E&TC Dept.

DR. J. J. MAGDUM COLLEGE OF ENGG.

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and Telecommunication Engineering

Ref:DJMCOE/ETC/21-22/ Date: 25/11/2022

To,
Mrs.M.M.Raste
Ass.Professor,
P.V.P.I.T,
Budhgaon.

Sub: Thanking letter.

Respected Sir/Madam,

We, on behalf of Electronics and ETC Department of our college, hereby express our sincere, thanks for conducting session on **'Recent Technologies in optical communication'** for third year E&TC students .The presentation explored the wide scope of information and also cover PO-3.

We expect same co-operation in future.

Thanking you.

Mrs. Mohite T.H.
Expert Lecture Co-ordinator

Mr. Kolhapure M.M.
H.O.D.
Dept. of E&TC Engg.

D.J.J.MAGDUM COLLEGE OF ENGG. JAYSINGPUR

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and Telecommunication Engineering

Date-25-11-2022

EXPERT LECTURE FOR THIRD YEAR STUDENTS

NAME OF EXPERT SPEAKER- Mrs M.M.Raste

TOPIC- "Recent Technologies in optical communication"

ATTENDANCE REPORT   Time-2.30pm to 4.30pm

Sr.No	Roll no.	Name of Student	Signature
1	7	Pradnya Sanjay Chavan	Pchan
2	9	Arekar Sayali Arun	Sayali
3	[illegible]	[illegible]	[illegible]
4	35	Pranjali S Kelgate	Pranjali
5	29	Sardar Rachna Arun	Rachna
6	14	Vishakha D. Sadare	Vishakha
7		Shweta S Bhat	SBhat
8		Manoj chikkodi	MChikkodi
9		Pooja R Patil	Poojap
10		Harshada P Magdum	Harshada
11		Sanika Patil	Sanika
12		Chivate Shruti	Chrutt
13		Rohit C. Sas10	Rohit
14		Yash [illegible]	Yash
15		[illegible]	[illegible]
16		Tandale Pratiksha R	[illegible]
17		Joshi Kedar R.M	Kedar
18		[illegible]	[illegible]
19		[illegible]	[illegible]
20		[illegible]	[illegible]
21		Chavan B Dhanashri Dhanaji	Danashri
22		[illegible]	[illegible]
23			
24			
25			
30			

Prof. Mrs. M.M.Raste
Expert Speaker

Prof. [illegible]
Expert Lecture Co-ordinator

Prof. Kolap M.M.
H.O.D.
E&TC. Engg Dept.

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and Telecommunication Engineering

Ref: JJMCOE/E&TC/22-23/

Date: 21/11/2022

T ,
M .Ashwin Gadgil
H .M Electronics,
M raj.

Subject: **Invitation for Expert lecture**

Respected Sir / Madam,

In an attempt to expose our students to practical application of their theoretical knowledge, we propose to arrange expert lecture on '**SCADA technologies** for third year E&TC students. With this reference to above, we would like to invite you for the same on 25/11/22.

Above session will help to attain program outcome PO-3.

Prof.T.H.Mohite
Expert lecture Co-ordinator

Mr.kolap M.M.
H.O.D.
Elex and E&TC dept

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and Telecommunication Engineering

Ref:DJMCOE:ETC/21-22 Date: 21/10/2022

To,
Mr.Ashwin Gadgil
Director,
Hem Electronics,
Miraj.

Sub: Thanking letter.

Respected Sir/Madam,

We, on behalf of Electronics and ETC Department of our college, hereby express our sincere, thanks for conducting session on 'Seeds Technologies' [illegible] The presentation explored the wide scope of information and also cover PO-5.

We expect same co-operation in future.

Thanking you.

Mrs. Mohite Y.M
Expert Lecture Coordinator

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and Telecommunication Engineering

Date-25-11-2022

EXPERT LECTURE FOR THIRD YEAR STUDENTS

TOPIC- "SCADA TECHNOLOGIES"

Attendance report

3:30 to 12:30 pm

Sr.No (Roll No)	Name of Student	Signature
49	Krushnat Koli	[illegible]
15	Arshad Mulani	A.K.Mulani
16	Pranav Chavan	[signature]
36	Sangram Gade	[signature]
42	Atharva Kulkarni	[signature]
20	Pavan Hadale	[signature]
1	Sanmay N. Gandhawale	[signature]
2	Pushparaj D. Jagdale	Jagdale P.J
50	Jadhav Rohan V.	[signature]
30	Pratik Chougule	Chougule
13	Varun Kulkarni	V.V. Kulkarni
23	Yash S. Renuke	Yash
37	Govinda Jagdish Gaikwad	[signature]
19	Balkrushna D. Kesarkar	B. Kesarkar
18	Sammed A. Kole	S. A. Kole
34	Rohit E. Saste	[signature]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	Patil
52	[illegible] D. Magdum	[signature]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible] Bhat	[signature]

Mr. Mahib...
Expert Lecture Coordinator

Dr. Kolap M.U.
H.O.D.
E&TC Engg. Dept.

Dr. J. J. Magdum Trust's (No. F/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Electronics and Telecommunication Engineering

Date-25-11-2022

EXPERT LECTURE FOR THIRD YEAR STUDENTS

TOPIC- "SCADA TECHNOLOGIES"

Attendance report

Sr.No	Name of Student	Signature
22	Vaishnavi Balaram Patil	
28	Sanjyot Satish Ketgale	
29	Rachna Arun Sargar	
27	Aishwarya Deepak Jagdale	
59	Mane Pratiksha Tanaji	
21	Jalnesh Shahabuddin Shikalgar	
09	Sayali Arun Arekar	
07	Pradnya Sanjay Chavan	

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Expert Lecture Co-ordinator

H.O.D
E&TC Engg Dept

Paper Publication by Students 2022-23

Sr.No.	Name Of Students	Title Of Paper	Publication Date	Academic Year
1 2	Akil Hanif Kacchi Tanjil Mujawar	Face Recognition based intelligent car anti-theft system using Raspberry PI and GSM module	IRJMETS Volume 05,Issue04,April2023	2022-23
3 4	Nikita Sutar Pratik Patil	Ambulance Tarcking with Patient Health Monitoring System Using GPS and GSM Module	IJRPR Volume 4,Issue 5,2023	2022-23
5 6	Namrata Shetti Snehal koshti	Design & Operation of Agriculture Based Pesticide Spraying & Grass Cutting Robot	IJRPR Volume 4,Issue 5,2023	2022-23
7 8	Pradnya Khot Saniya Latif	IOT Based Smart Locker System	IJRPR Volume 4,Issue 5,2023	2022-23
9 10	Saniya Nadaf Ranjeet Shinge	IOT Based Smart Helmet	IJRPR Volume 4,Issue 5,2023	2022-23
11 12	Vinesh Kamble Dhanappa Chikkalaki	Fire Fighting Robot	NCETET-2023	2022-23
13 14 15 16	Komal Patil Rohit Patil Sanket Bhoi Sneha Kate	Traffic Control and Green Corridor using Unmanned Aerial Vehicles(Drones)	NCETET-2023	2022-23
17 18	Omkar Vaidya Tejas Gurav	Labour Work Monitoring System	IJRPR Volume 4,Issue 5,2023	2022-23
19 20	Renna Made Shweta Gaikwad	Cold Automation Storage	IJRPR Volume 4,Issue 5,2023	2022-23
21 22	Gayatri Patil Mohini Chavan	Advance BUS Ticketing System	IJRPR Volume 4,Issue 5,2023	2022-23

Dr. J. J. Magdum College of Engineering
Department of E & TC
Jaysingpur

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Department of Electronics and E&TC Engineering

Student Participation in Technical Event (Project Competition) 2022-23

Sr.no.	Name of Students	Name of Project	Event name	Academic Year
1 2	Akil Hanif Kacchi Tanjil Mujawar	Face Recognition based intelligent car anti-theft system using Raspberry Pi and GSM module	INNOVATION 2k23 (SIT Yadrav) 1st April2023	2022-23
3 4	Nikita Sutar Pratik Patil	Ambulance Tarcking with Patient Health Monitoring System Using GPS and GSM Module	Spectrum 2K23 (AGTI'S) 21st March2023	2022-23
5 6	Namrata Shetti Snehal koshti	Design & Operation of Agriculture Based Pesticide Spraying & Grass Cutting Robot	Spectrum 2K23 (AGTI'S) 21st March2023	2022-23
7 8	Pradnya Khot Saniya Latif	IOT Based Smart Locker System	Spectrum 2K23 (AGTI'S) 21st March2023	2022-23
9	Saniya Nadaf	IOT Based Smart Helmet	INNOVATION 2k23 (SIT Yadrav) 1st April2023	2022-23
10 11 12 13	Komal Patil Rohit Patil Sanket Bhoi Sneha Kate	Traffic Control and Green Corridor using Unmanned Aerial Vechicles(Drones)	Spectrum 2K23 (AGTI'S) 21st March2023	2022-23
14 15	Omkar Vaidya Tejas Gurav	Labour Work Monitoring System	INNOVATION 2k23 (SIT Yadrav) 1st April2023	2022-23
16 17	Reena Made Shweta Gaikwad	Cold Automation Storage	INNOVATION 2k23 (SIT Yadrav) 1st April2023	2022-23
18 19	Gayatri Patil Mohini Chavan	Advance BUS Ticketing System	INNOVATION 2k23 (SIT Yadrav) 1st April2023	2022-23
20 21	Aniket Patil Chetan Patil	Speed Braker through Power Generation	INNOVATION 2k23 (SIT Yadrav) 1st April2023	2022-23
22 23	Prasad Babar Bhagyashree Sonawale	Automatic Filling and Weighing Machine	Spectrum 2K23 (AGTI'S) 21st March2023	2022-23

Dr. J. J. Magdum College of Engg. Department E & TC Jaysingpur

Coordinator

HOD E&TC

DR. J. J. MAGDUM COLLEGE OF ENGINEERING

Group No - 01

G. K. GUJAR MEMORIAL CHARITABLE TRUST'S

DR. ASHOK GUJAR TECHNICAL INSTITUTE'S
DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD

An ISO 9001-2008 Certified Institute, Accredited with NAAC A Grade (CGPA 3.23)

Approved by AICTE New Delhi, DTE, Govt. of Maharashtra Affiliated to Shivaji University, Kolhapur

Certificate

This is to certify that Mr. /Miss. Bhagyashree Sonawale

of JJMCOE *has secured* — */ Participated in*

Poster Presentation on Innovative Ideas / Robo Obsta/ Paper Presentation / Project Competition / Code War /

Hire Me event Organised in **"Spectrum 2K23"** *under Lead College Scheme of Shivaji University, Kolhapur*

held on 21 March, 2023 at AGTI'S, Dr. Daulatrao Aher College of Engineering, Karad.

Prof. A. D. Awasare	**Prof. H. M. Kumbhar**	**Dr. A. M. Mulla**
Co-Ordinator	*Vice Principal*	*Principal*

Group. No:- 14

International Research Journal of Modernization
in Engineering Technology and Science

e-ISSN: 2582-5208

Ref: IRJMETS/Certificate/Volume 05/Issue 04/50400164528 Date: 03-05-2023

Certificate of Publication

This is to certify that author "**Akill Hanif Kacchi**" with paper ID "**IRJMETS50400164528**" has published a paper entitled "FACE RECOGNITION-BASED INTELLIGENT CAR ANTI-THEFT SYSTEM USING RASPBERRY PI AND GSM MODULE" **in International Research Journal Of Modernization In Engineering Technology And Science (IRJMETS), Volume 05, Issue 04, April 2023**

A. Dawani

Editor in Chief

IRJMETS Impact Factor 7.868

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e-ISSN: 2582-5208
International Research Journal of Modernization in Engineering Technology and Science
(Peer-Reviewed, Open Access, Fully Refereed International Journal)
Volume:05/Issue:04/April-2023 Impact Factor- 7.868 www.irjmets.com

FACE RECOGNITION-BASED INTELLIGENT CAR ANTI-THEFT SYSTEM USING RASPBERRY PI AND GSM MODULE

Prof. M. U. Ph itane*1, Akill Hanif Kacchi*2, Tanjeel Mahamadrafik Mujawar*3

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ABSTRACT

Nowadays everyone has a car in the world, everyone wants to have a car, as the number of vehicles is increasing, the risk of theft vehicles is also increasing. The online report shows that in the last year (2022) around 10 lakh vehicles have been stolen, this is a very serious problem, no one wants his car to be stolen, and there is fear in the car owner that the car will be stolen. To overcome this problem, we have developed a system in which the vehicle will not start without its owner. This system image processing-based image processing-based real-time vehicle theft detection and prevention system provides the ultimate solution for this problem. In this paper, we describe the system which we designed at a low cost and this is an extendable framework. which is include FDS (Face Detection Subsystem), a GSM (Global System for Mobile Communications) module, and a control platform.

Keywords: Raspberry Pi, Face Detection System, GSM USB Camera.

I. INTRODUCTION

The objective of this system is to deliver security to the car by using face detection and to control the vehicle from any place by igniting the engine. Smart car security system using real-time face recognition is a real-world application that comes with the day-to-day activities of drivers. From this, we have developed a system, by using a system the owner of the vehicle can save his vehicle from being stolen. This system can provide the important functions required by advanced intelligent car security, to avoid vehicle theft and protect from the usage of unauthenticated owners. With this system, we can know who tried to steal the car we have the photos of the theft in the system database. This project will help us demote the complexity, enhance security, and be much more affordable and smarter than traditional ones. Project results show that it takes about one photo 320*240 color jpeg image by software that is running on Raspberry Pi. It seems to be too long to be used in real-time detection.

II. METHODOLOGY

Numerous masses are intimate with Face detection technology through the Face ID used to unlock Phones and other smart devices, and facial attributes are probably the most common biometric features used by humans to recognize one another. The applications of facial recognition range from static, controlled authentication to dynamic, uncontrolled face identification in a cluttered background. Usually, facial recognition does not stand on a hefty database of photos to determine an individual's identity - it simply locates and recognizes one person as the owner of the device, while limiting access to others While the authentication performance of the face recognition systems that are marketable available is reasonable, they impose several restrictions on how the facial images are obtained, often requiring a fixed and simple background with controlled illumination. One GSM module is added to the car security system to achieve important information about cars. GSM modem can rapidly send SMS messages to a set mobile phone or SMS server. So, the car owner and the police can be informed of the initial time. The Raspberry Pi is a series of credit card-sized single-board computers.

Face detection:

The camera detects and locates the image of a face, either alone or in a crowd. The image may show the person looking straight ahead or in profile.

Converting the image to data:

The face-capture process transforms analog information (a face) into a set of digital data based on the person's facial features.

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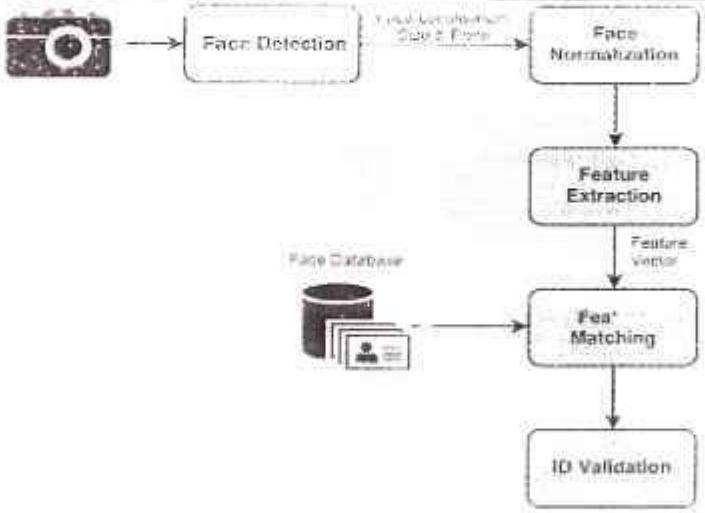

Fig 2. System flow diagram

Steps Involved in Algorithm

1. Get a training set of images.
2. Detect the face of all training images
3. Input these images as a training set into the face recognition stage
4. Compute weight vector for input training set using Haar Cascade
5. Give a new test image
6. Determine whether the new image is authenticated or not using Haar Cascade
7. If the driver is not authenticated, an SMS is sent and the vehicle ignition is off.
8. If the driver is authenticated, no alert
9. Store the Driver's name, date, and time in a database file.

GSM module:

GSM Module is a device that can send/receive SMS or make the call automatically. It can be connected to any of the microcontrollers/raspberry pi. In case of any unauthorized driver trying to start the car, the system can send a message to the car owner in the

OpenCV:

Open CV (Open-Source Computer Vision) is a library of programming functions mainly used for real-time computer vision. Open CV is written in C++. There are bindings in Python, Java, and MATLABOCTAVIAA. Here the open CV is used for processing the given image and for comparing the image.

IV. RESULTS AND DISCUSSION

The main working principle of the project is, into the image to detect and recognize it. Further, the recognized image of the driver is compared with the image in the database, and then the vehicle will start otherwise it will not start. The program for face detection is coded using Python language. This program is run on Raspberry Pi. The image of the person is captured immediately by the USB Camera.

V. CONCLUSION

From this, we have developed theft control techniques that can furnish the major functions required for advanced intelligent Car Security to avoid vehicles from getting stolen from theft and protect them from the usage of doubtful users. A secure and safe environment system for the vehicle owner and the investigators' key points can be easily found with the thefts image. We can predict theft by using this system in our day-to-day life. This work will help to reduce the convolution and enhance security, and also be much more reasonable and smarter than traditional ones. Experiment results show that it takes about 6 seconds to detect one 320*240 color jpeg image by software that is functioning on Raspberry Pi. It seems to be too long to be used in real-time detection.

Group No. - 10 (Advanced Bus Ticketing System)

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ISSN 2582-7421

Sr. No: IJRPR 53686

Certificate of Acceptance & Publication

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International Journal of Research Publication and Reviews

(Open Access, Peer Reviewed, International Journal)

ISSN 2582-7421

Sr. No: IJRPR 53687

Certificate of Acceptance & Publication

This certificate is awarded to Gayatri Bharat Patil, and certifies the acceptance for publication of research paper entitled "Advanced Bus Ticketing System" in "International Journal of Research Publication and Reviews", Volume 4, Issue 4, 2023 .

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International Journal of Research Publication and Reviews

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ISSN 2582-7421

Sr. No: IJRPR 23927

Certificate of Acceptance & Publication

This certificate is awarded to ***Mohini Somnath Chavan****, and certifies the acceptance for publication of research paper entitled "Advanced Bus Ticketing System" in "International Journal of Research Publication and Reviews", Volume 4, Issue 4, 2023.*

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International Journal of Research Publication and Reviews

International Journal of Research Publication and Reviews, Vol 4, no 4, pp 1217-1219 April 2023

International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Advanced Bus Ticketing System

Prof. M. B. Bhilawade[1], Gayatri Bharat Patil[2], Mohini Somnath Chavan[3]

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ABSTRACT:

The use of bus ticketing is a large growing business in all countries, the manual use of bus reservation is presently very strenuous and also consumes a lot of time by having to stay on a long queue. For

this reason, an efficient system is [illegible] proposed in this paper to ease the issue of bus reservation amongst

[illegible] within the country. The system is a web – based application that allows visitors to check bus

availability, buy and pay bus ticket online, checking out which where we travel, Accident detection and emergency service. Bus ticket booking during Covid has [illegible] various difficulties to the customers as well as the bus operators.

Offline ticket booking reduced the scope of customers to choose different options based on their travel interests. Online ticketing could be extended to range of entertainment and touristic sites and thus facilitate access to major points

of interest within cities, making online ticketing also convenient for travelers. In this paper, the proposed Advanced bus ticket system was developed using Hyper Text Markup Language (HTML), Cascading Style Sheets (CSS), JavaScript, Embedded C as using keil, Proteus for designing PCB

Keywords: Bus Reservation, Queue, Efficient

INTRODUCTION

A proper and systematic public transport plays a major role in economic development and well being of the people in any country. Bus public transport in most of the developing countries is not running properly because of the lack of systematic planning and monitoring. In this project, we are planning to monitoring operations of bus transportation systems. We propose use of minimal information, i.e. record of arrival time of the buses at the bus-stops, for improvement of bus transportation system. Public Transport is one of the important infrastructures of any country. In developing countries like India bus transport consists of 90% of public transport.

However, lack of systematic mechanism to monitor and manage the bus network is leading to lack of predictability of the bus network. It gets difficult to identify causes behind delays, or predict the arrival times. Bus transport system faces the ever increasing problem of traffic and congestion. The operations of bus transport systems can be significantly improved by monitoring the bus operations and analyzing them to provide useful information both to the travelers and bus operating authorities. We propose the use of advanced wireless technologies for automated monitoring of bus operations. The monitoring data thus collected provides information about arrival time of buses at bus-stops all over the deployment area.

LITERATURE SURVEY:

1] Empowering Bus Transportation System Using Wireless Sensor Networks

Indian Institute of Technology, Kanpur, India, Tata Research Development and Design Centre, Pune, India

[illegible] However, lack of systematic mechanism to monitor and manage the bus network is leading to lack of predictability of the bus network. It gets difficult to identify causes behind delays, or predict the arrival times. Bus transport system faces the ever increasing problem of traffic and congestion. [illegible] technologies for automated monitoring of bus operations. We argue that powerful analysis can be performed with simple arrival time information. [illegible] GPS (Global Positioning System) with GSM [illegible] and WSN (Wireless Sensor Network) [illegible]

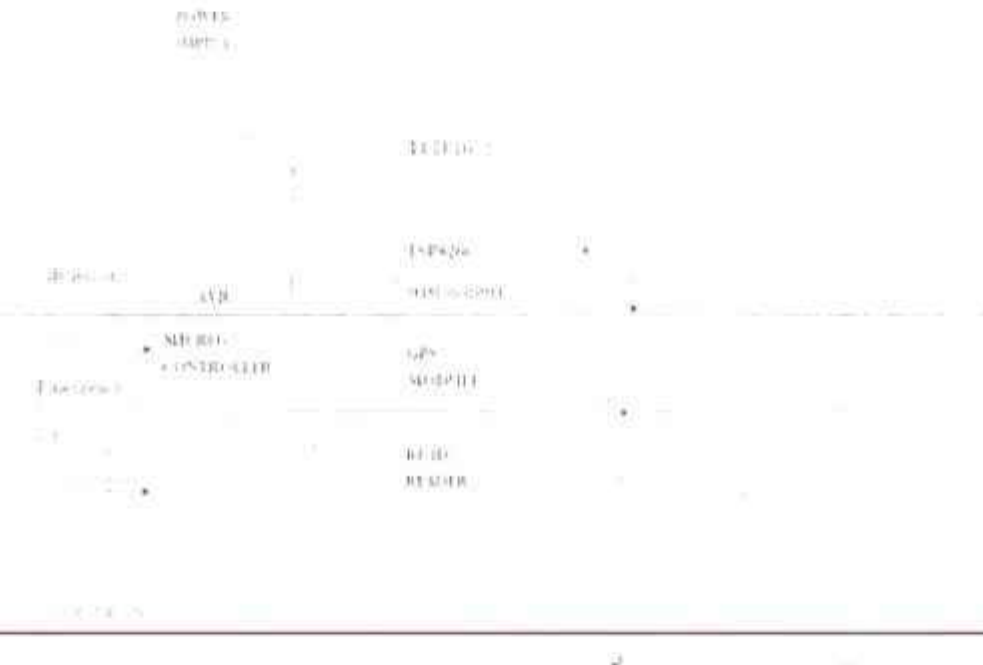
and GSM infrastructure on each bus. This is costly in comparison with the RFID and WSN infrastructure. RFID technology works best in short range communication scenarios and is very sensitive to interference resulting into an infeasible solution for road conditions. In authors have enhanced reading range of RFID by incorporating WSN and propose use of WSN with traffic signaling system to get maximum clear way for buses. We propose to use wireless sensor network as a feasible technology as it is low cost and adequate location estimation.

2] Vehicle Data Acquisition And Telemetry

2014 Fifth International Conference on Signals and Image Processing 978-0-7695-5100-5/13 $31.00 © 2013 IEEE DOI 10.1109/ICSIP.2014.35 187, 2014 Fifth International Conference on Signal and Image Processing

Data Acquisition (DAQ) and Telemetry are part of the winning formula of any race team or vehicle manufacturer. It is vital to the develop ent phase of a vehicle, so that designs can be validated and tunable parameters adjusted to increase performance and efficiency. Existing DAQ systems [ ] as they are of universal application type and turn out to be extremely costly and power hungry. Also, the lack of filtering stages is an issue for sensor data coming from a moving vehicle. The system discussed in this paper was designed specifically for automotive application, taking into account the size, cost and performance, while also taking care of the noise factor by including digital filters. The system was found to be 2.2 times more cost effectiv than current modules, with a data rate of 9600Hz and 10 bit resolution for DAQ and the telemetry system working at a serial data baud rate of 9600 transmitted wirelessly through a ZigBee network.

BLOCK DIAGRAM:



RESULT AND CONCLUSION:

System performance is also found to be satisfactory. This is a user-friendly application. Through this application, the cost can be reduced and efficiency is increased. There are several procedures that can be selected by customers.

FUTURE SCOPE:

- Display system at every bus stop
- Making information available on mobiles

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International Journal of Research Publication and Reviews

(Open Access, Peer Reviewed, International Journal)

ISSN 2582-7421

Sr. No: IJRPR 53627

Certificate of Acceptance & Publication

This certificate is awarded to Prof. T. H. Mohite, and certifies the acceptance for publication of research paper entitled "Cold Automation Storage" in "International Journal of Research Publication and Reviews", Volume 4, Issue 4, 2023 .

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International Journal of Research Publication and Reviews

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Certificate of Acceptance & Publication

This certificate is awarded to Reena Babanrao Made, and certifies the acceptance for publication of research paper entitled "Cold Automation Storage" in "International Journal of Research Publication and Reviews", Volume 4, Issue 4, 2023 .

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Sr. No: IJRPR 23890

Certificate of Acceptance & Publication

This certificate is awarded to Shweta Suryakant Gaikwad, and certifies the acceptance for publication of research paper entitled "Cold Automation Storage" in "International Journal of Research Publication and Reviews", Volume 4, Issue 4, 2023.

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International Journal of Research Publication and Reviews, Vol 4, no 4, pp 4063-4065 April 2023

WWW.IJRPR.COM

International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Cold Automation Storage

Prof. T. H. Mohite[1], Reena Babanrao Made[2], Shweta Suryakant Gaikwad[3]

[1,2,3]Dep. of Electronics & Telecommunication, Dr. J J Magdum College of Engineering, Jaysingpur, Maharashtra, India

ABSTRACT:

Cold chain is one of the important tools for farmers of perishable produce, pharmaceutical to connect with markets and to realize meaningful productivity. A dearth of continuous electricity, absence of any warning systems, and labour power add to the troubles of cold storage owners. A smart IoT connected device which acts as data acquisition device and a controller serves the problem solution. Food spoilage and subsequent imports can be reduced by modernization of storage and warehousing facilities through industrial automation and remote control systems. But due to lack of technology and ignorance about humidity and temperature effect on raw foods, many times, food safety is not maintained well enough. In food industry, cold storage is a must; this kind of storage is to preserving the raw foods within for a certain period of time. For Food or Agro industries monitoring of the foods or materials which are rotten able are subject to constant monitoring; if just a simple thing goes wrong then it can become a result of a big loss. A home grown solution to industrial automation that is cost, energy, and resource efficient with standard automation, control and communication features.

INTRODUCTION

Food is considered as one of the essential things for our lives. It is important to reduce food waste and increase the production-consumption ratio. Storage and warehouse are very important part of industry, as they are the source for providing raw material to major industries by storing in the preserving for long time. Continuous growth in the cold chain management has been reflected in the growth of globalization. Shortage of government owned cold storages and cold storages owned by mostly the upper-class people in towns, making it unavailable for the poor or low-class farmers. A storage facility should maintain the proper environmental conditions of the stored Product. For instance to store fruits, low temperature, in order to maintain quality, improve their shelf life and extend marketing period of fruits to control of environmental studies. Quality of fruits and vegetables has huge impact of surrounding during storage, we can only maintain the quality of fruits and vegetables therefore it is important to store it in proper ecosystem. For storage of food items in a cold storage various measurements are required to record the temperature, humidity and other factors in different parts large cold storage to make the automation work effectively. A proper storage mechanism should be incorporated to avoid the food wastage. Demand can irrespective of seasons which in turn avoids fluctuation in price of the product. For the optimization and for enhancement of working condition of cold storage, it is necessary to be automized. Due to automation it results in increase in product marketing and increase in profit of companies, for this purpose automation of cold storage is necessary.

LITERATURE SURVEY:

1.This paper outlines a remote monitoring system of temperature, humidity, gas and light control for cold storage warehouses. Food spoilage and subsequent imports can be reduced by modernization of storage and warehousing facilities through industrial automation and remote control systems. A home grown solution to industrial automation that is cost, energy, and resource efficient with standard automation, control and communication features has been developed and presented in this paper. Experimental results reveal the scalability, objectivity, accuracy, stability, economy and ease of deployment of developed system.

2. K. Zhang and J. Liu. Study on Human-simulated Intelligent Control Method of Fruit & Vegetable Cold Storage, 2009.

Food spoilage and subsequent imports can be reduced by modernization of storage and warehousing facilities through industrial automation and remote control systems. A home grown solution to industrial automation that is cost, energy, and resource efficient with standard automation, control and communication features has been developed and presented in this paper. Experimental results reveal the scalability, objectivity, accuracy, stability, economy and ease of deployment of developed system.

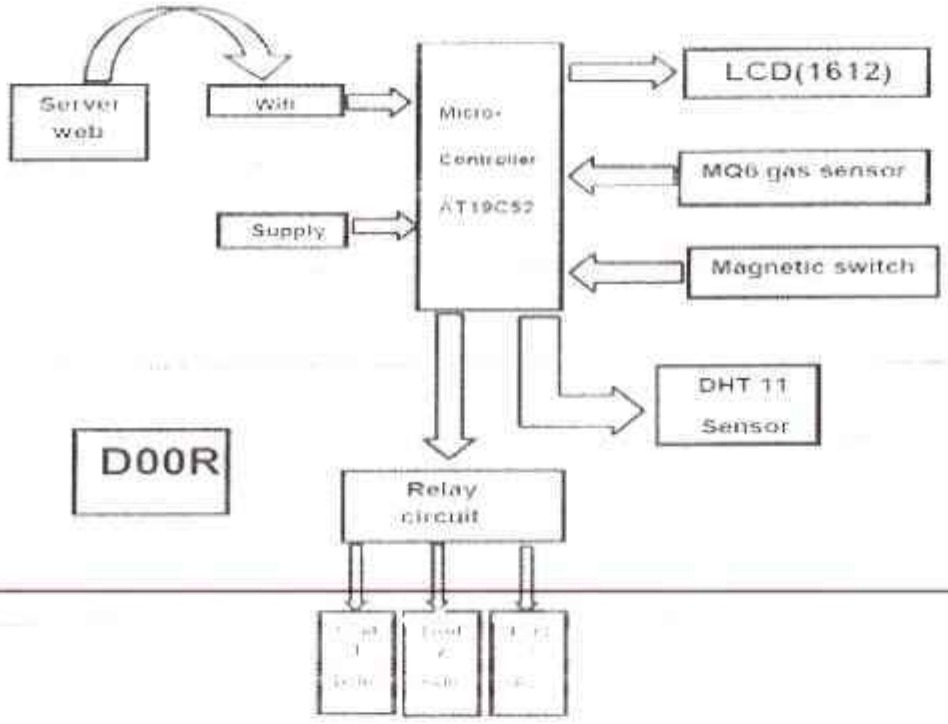
3. Shah Mohd, Chandra K. Singh [illegible] Monitoring of Cold Chain using wireless sensor network and secure cloud infrastructure, in International [illegible] The Internet of Things [illegible] research field which connects the physical world objects to the internet and allowing easy access to those objects in order to monitor and manage them. The objects are [illegible] unique identifiers and capability to transfer data over network without the interaction of humans and traditional computers. Wireless [illegible] play a major role in this paradigm in relating the physical objects to the internet. This paper explores the idea of IoT to enable the monitoring of cold

supply chain through the deployment of wireless sensor network in logistics and cold storage facilities and integrating them to the Xively sensor cloud for a complete monitoring and end-to-end visibility.

4. R. Freitas, L. Soares, V. Vieira, J. Machado," Monitoring and Control of a Cooling System in a Commercial Store," *The world congress on engineering*, vol. II, June 30-July 2 2010, London, UK. This paper presents a case-study for the optimization, the monitoring and the automatic control of a refrigeration system in a commercial store. The existing controllers were replaced by Omron temperature controllers, connected to an industrial network and linked to a central computer for data monitoring and temperature control using a Lab View software. In case of an alarm occurrence, this system includes a routine that automatically sends a GSM message to alert the person responsible for the store. This functionality is not yet available in commercial systems.

5. Koo, P. S., & Ho, H. Y. (2016). An IoT-based Occupational Safety Management System in Cold Storage Facilities. In the contemporary strategy of cold chain logistics, cold storage plays an important role to keep the inventory under the extreme environmental conditions. As the demand of cold storage services is growing rapidly nowadays, attention paid on occupational safety of warehouse workers is increasing under extreme working environment. Traditionally, the safety of workers are assessed by their experience and personal judgement. Without automatic data capturing tools, it is hard to monitor the actual health status of workers who may be dangerous when working too long in the cold storage facilities. In addition, there is a lack of prompt signal to managers and first-aid teams for instant treatment when the workers get cold injuries or illnesses. Therefore, the real-time health monitoring and positioning of the workers are in need. Nowadays, Internet of Things (IoT) is a mean of real-time interconnection system in which target objects are equipped with the identifying and sensing technologies.

BLOCK DIAGRAM:



RESULT AND CONCLUSION:

FUTURE SCOPE:

1. By automation of cold storage there is increase in profit.

2. [illegible]

3. [illegible] developing [illegible] sector.

4. It will be time saving for [illegible]

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[6] [illegible] (2008) Cold chain [illegible]

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International Journal of Research Publication and Reviews

(Open Access, Peer Reviewed, International Journal)

ISSN 2582-7421 Sr. No: IJRPR 53830

Certificate of Acceptance & Publication

This certificate is awarded to Dr. S. R. Mahadik, and certifies the acceptance for publication of research paper entitled "Labour Work Monitoring System" in "International Journal of Research Publication and Reviews", Volume 4, Issue 4, 2023.

Signed _____ Date 26/04/2023

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International Journal of Research Publication and Reviews

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International Journal of Research Publication and Reviews

(Open Access, Peer Reviewed, International Journal)

(A+ Grade, Impact Factor 5.536)

ISSN 2582-7421

Sr. No: IJRPR 24049

Certificate of Acceptance & Publication

This certificate is awarded to Omkar Vaibhav Vaidya, and certifies the acceptance for publication of research paper entitled "Labour Work Monitoring System" in "International Journal of Research Publication and Reviews", Volume 4, Issue 4, 2023.

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International Journal of Research Publication and Reviews

(Open Access, Peer Reviewed, International Journal)

ISSN 2582-7421 Sr. No: IJRPR 53831

Certificate of Acceptance & Publication

This certificate is awarded to Tejas Gurudatta Gurav, and certifies the acceptance for publication of research paper entitled "Labour Work Monitoring System" in "International Journal of Research Publication and Reviews", Volume 4, Issue 4, 2023 .

Signed _____ Date 26/04/2023

Editor-in-Chief
International Journal of Research Publication and Reviews

DR. J.J. MAGDUM COLLEGE

International Journal of Research Publication and Reviews, Vol 4, no 4, pp 4646-4648 April 2023

International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Labour Work Monitoring System

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ABSTRACT:

In past few years automation has reached to new revolution. Industrial relations is the term that describes how the management and the employees of a company interact with each other. We are going to implement this project in industries with the aim to monitor the work of labours. Designing a system which easy owner of industry [illegible] sitting in front of a single monitor and monitor the whole system is very profitable and time saving. The title of project is "Labour work monitoring system".

This system will record the operation time of the [illegible] of worker who is operating it. It can also be used to monitor safety and productivity of employees, but it also may help business financially. All the system is designed on basis of web server and microcontroller. This system is based on microcontroller and web server designing. In this project we are going to have an RFID for technician, which will interface by the microcontroller AT89C51. The production data will be upload on the Web Server through Wi-Fi module (IOT).

INTRODUCTION

Industry has become the second largest employment generating sector in the world. Data interpretation system is an Automated Information System which gives better control over production monitoring and takes corrective steps immediately. It provides better control over working process of labours. Continuous performance of every single worker in a mill gives a high productivity. With its increasing growth and demand, textile industry faces many problems which have to be changed. One of the methods to solve these problems is the use of automation in the industries. Automation can be defined as the process of reducing human assistance in the process performed. In most sectors of manufacturing, automation is one of the major key to improvement and maintain working hours of labour. A process control or automation system is used to automatically control an industry. The Process Automation System uses a network to interconnect sensors, controllers, operator terminals and actuators. During the past 15 years, the Internet revolution has redefined business to Consumer (B2C) industries such as media, retail and financial services. In the next 10 years, the Internet of Things revolution will dramatically alter manufacturing, energy, agriculture, transportation and other industrial sectors of the economy which, together, account for nearly two-thirds of the global gross Domestic product (GDP). It will also fundamentally transform how people will work through new interaction between human and machines.

LITERATURE SURVEY:

[1]. **Prof. Niranjan M, Madhukar N, [illegible] Madiwar J, Saish M (Department of Electronics and Communication, Jain College of Engineering Belagavi, India)** Internet of Things (IoT) in industries has created a new revolution in industries. IoT in industry has given rise to the term "INDUSTRY 4.0" where systems are connected to each other over the internet and can communicate with each other to take necessary decisions (also called as M2M communication) [illegible] artificial intelligence. In this paper, we shall design a system which will automatically control and monitor the industrial applications and also allow the user to control the application from anywhere in the world. Having control over the applications over the internet is one of the best ways to deal with the industrial applications. **Keywords:** Artificial intelligence, Industry 4.0, M2M communication

[2] D. L. Wu, Wing W. Y. NG, D. S. Yeung, and H. L. Ding, "A brief survey on current **RFID** applications," in *Proc. International Conference on Machine Learning and Cybernetics*, Baoding, July 12-15, 2009, pp. 2330-2334 Radio Frequency Identification (RFID) is the next generation wireless communication [illegible] applicable to a wide range of application areas. [illegible] traffic management [illegible] technology [illegible] Therefore, [illegible] both opportunities and challenges [illegible] In this paper, we provide a brief survey of RFID applications and suggest some opportunities in intelligent RFID applications.

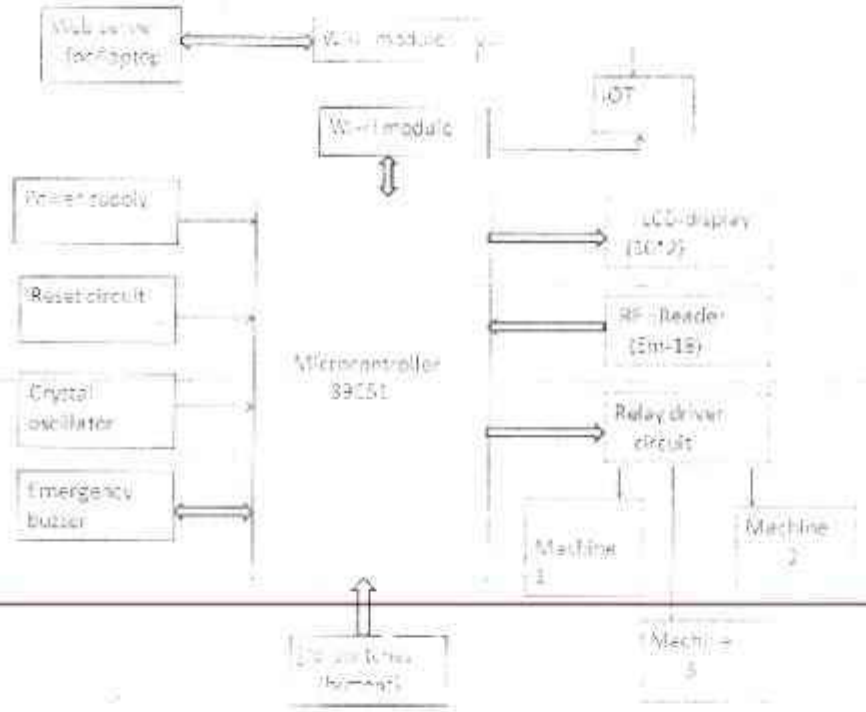
[3]. Umar Farooq, Mahmood ul Hasan, Muhammad Amar, Athar Hanif and Muhammad Usman Asad. This paper describes the [illegible] of RFID based [illegible] Punjab [illegible] RFID

and biometrics to accomplish the required task. When the RFID reader installed at the entrance of hostel detects a member, the system captures the user image and scans the database for a match. If both the card and captured image belong to a registered user, access is granted; otherwise the system turns on the alarm and makes an emergency call to the security via through GSM modem. In this way, the suspicious persons can be easily [illegible]

[4]. **G. Ostojic, S. Stankovski, and M. Lazarevic, "Implementation of RFID technology in parking lot access control system," in** *Proc. Annual RFID Eurasia Conference*, **2007, pp. 1-5.** Currently, there are many parking lot management systems in use; however, none of [illegible] sensitive to the problem of car theft. For example, a thief can drive a stolen car into a parking lot, and because the gate does not have any mechanism to detect whether the driver is the owner of the car, the gate will be open according merely to whether the driver pays the parking fee. A thief can drive away with a luxurious car away using his own parking ticket. We propose a new scheme to prevent the car theft. We adopt radio frequency identification technology conforming to EPC global Class 1 Generation 2 as our scheme design. Our scheme supplies an easy, cheap and high security parking environment for customers and the parking management system.

[5]. **Using Assembly and C By Janice Gillispie Mazidi, Muhammad Ali Mazidi, and Rolin D. McKinlay** This textbook covers the hardware and software features of the 8051 in a systematic manner. Using Assembly language programming in the first six chapters, it provides readers with an in-depth understanding of the 8051 architecture. From Chapter 7, this book uses both Assembly and C to show the 8051 interfacing with real-world devices such as LCDs, key pads, ADCs, sensors, real-time clocks, and the DC and Stepper motors. The use of a large number of examples helps the reader to gain mastery of the topic quickly and move on to the topic of embedded systems project design.

BLOCK DIAGRAM:



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RESULT AND CONCLUSION:

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ISBN : 978-93-91535-44-5

TRAFFIC CONTROL AND GREEN CORRIDOR USING UNMANNED AERIAL VEHICLES (DRONES)

Komal Patil[1], Sneha Kale[2], Rohit Patil[3], Sanket Bhoi[4],Dr.SB.Patil[5]

1.2.3.4. STUDENT ELECTRONICSANDTELECOMMUNICATION,DR.J.J.MAGDUMCOLLEGEOFENGINEERING JASINGPUR,INDIA

5 STUDENT ELECTRONICS AND TELECOMMUNICATION, DR. J.J. MAGDUM COLLEGE OF ENGINEERING JASINGPUR, INDIA

ABSTRACT

Recently, Unmanned Aerial Vehicle (UAVs) has cached lots of instructed researchers developing them. They are numerous applications such as agriculture pesticide spraying drones, security drones, and surveillance dronesfor providingmedicinesto users, food packetdelivery drones, etc. In this paper, the design of the prototype drone is shown for traffic monitor control and the green corridordrone has a flight time capacity of 15 minutes guidance for an ambulance giving green corridor to it.The dronehas a wirelesspublicaddress system(PA)whichis controlled bytraffic.

KEYWORDS-DRONE,GREENCORRIDOR,PUBLICHEALTH,TRAFFIC CONTROL,UAV

I] INTRODUCTION

Approximately two to five percent of a counter's gross domestic is lost to traffic congestion. With increasingindustrialization, urbanization & population, there has been tremendous growth in traffic. With growingtraffic, these are rise in problems. Which include traffic jams faced by ambulances fire brigades & othervehicles. Emergency vehicle benefit is enormously influenced since of activity. Delays in coming to the clinic may lead to the misfortune of life of a persistent. These things require a Expedient. The Deane Rules (unused Rules) 202) characterizes plan as "an air ship that can work independently or can be worked remotely, without a pilot on board. Rambics are moreover known as unmanned flying machine frameworks. However, with technologicaladvancements, their use for civilian purposes & has evolved in recent years. Drones provide productivity &efficiency at low costs for a variety of activities. Most drones have a present day built-in Cameras, Speaker, conveyance, etc. The observation employments of unmanned airborne vehicles (UAVs) have developed since of their capacity to function in unsafe areas whereas keeping their human administrators at a secure remove. The bigger UAVs to give a dependable long length, cost-effective, stage for surveillance as well as weapons. They have developed to gotten to be an vital instrument for the military. The address we postured for the extend was whether little UAVs moreover had utility in military and commercial/industrial applications.

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II] HEADLINE

Inthispaper,thedesignof the prototypedroneisshownfortrafficmoniorcontroland the green corridordronehas 15 minutesguidancefor ambulancesgivinggreen corridortoit. The dronchas a wirelesspublicaddresssystem(PA)which iscontrolledbytraffic. Themainobjectiveofthisprojectistocreatca'greencorridor'fortheambulancesothattheambulance can reach the hospitalwithouthavingtofacemanyobstacles.

III] FIGURESANDTABLES

For somebody modern to the multicolor side interest, putting together your to begin with quad copter parts list can be greatly overwhelming. Attempting to figure out what to purchase and what parts will work together is extreme, particularly for individuals who don't come from a foundation in radio-controlled planes or helicopters. Gatherings are pressed with individuals who need to construct a quad copter but don't know where to begin. It can be disappointing attempting to sort through the Thousands of posts on gatherings and blogs and figuring out what to do. We've listened from a part of peruses who are in comparable positions and this post is planned to spell out precisely what you wish for your to begin with quad copter construct. Whereas we'll suggest a total list of particular parts that we have utilized and tried for a total quad copter construct, the most reason of this post is to supply a common outline of the parts required to construct a quad copter. Here's what you'll require.

- Motorx4
- ElectronicSpeedControl(ESC)x4
- FlightControlBoard
- Radiotransmitterandcollector
- Propeller x4(2 clockwiseand2 counter-clockwise)
- Battery& Charger
- WirelessBluetooth
- Camera

IV] SPECIFICATIONS–

4.1] FRAM

Fair as vital as great hardware, multi-rotors depend on the consider, lightweight bodies for mounting components. There are incalculable outline plans of changing shapes, measurements, and materials. Stiffer outlines bestow way better flight characteristics since less distorting and bowing can happen. On the off chance that a outline is as well fragile, in spite of the fact that, your inescapable crashes will result in more visit repair sessions. Outlines have to be both solid and stiff, while being light sufficient to jump around within the sky with ease. One of the most common materials for multi-rotor frames is carbon fiber. A great many of its physicalproperties are perfectly suited to the hobby. The only catch is that carbon fiber is known to block radio signals,which is obviously not ideal for a hobby that depends on multiple transmissions. It can be used

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and lighter. Just be aware that blocked signals are a possibility. Frames can also be built at home using aluminum orbalsasheet.Butresultswillvary from manufactured frames,both aestheticallyandin termsofflightattributes.

Figure4.1 F450 FrameArm

Arms moreover play a imperative part within the battle against vibrations, which can cause a number of distinctive issues. Flight controllers, with their sensitive barometers and spinners, don't by and large respond well to unremitting shaking. Shake them too much through a destitute setup and you may see sporadic behavior, some of the time awful sufficient to cause crashes. Vibrations are too the fear of anybody trusting to utilize a camera on a multi-rotor. The wavy, headache-inducing twisting shaped as a result of dynamic checking.

4.2 MOTORS

The correct gadgets are a to begin with step toward making flight, but a multi-rotor isn't going anyplace without great old-fashioned commonsense material science to drag it upwards. Your choice of motors plays a essential part within the victory of a competent setup. Typically too the point when details begin to induce complicated. You'll need to do a few investigate some time recently settling on the proper arrangement for your quad. And engines are costly, making it indeed more imperative to consider the choices carefully.

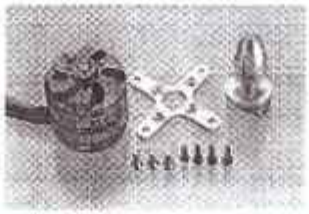

Figure4.2 BLDCmotor

Quad copter almost exclusively uses brushless DC motors (BLDC), as they provide thrust-to-weight ratiossuperiortobrushed DCmotors. However,theyrequiremorecomplex speedcontrollers.

4.3 PROPELLERS

Moreover crucial are the propellers you select. The assortment of props is apparently more prominent than any other component we examine: materials, measurements, and cost span a mind-bogglingly wide run. By and large, cheaper props are less absolutely made and more inclinedto making vibration.

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FIGURE4.3 PROPELLERS

A more broad prop setup (with correspondingly-low KY engines) is less demanding to fly relentlessly, employments less cu rent, and lifts more weight. To be perfectly honest, perfect way">the most perfect way to gage the correct rur for engines and props is by alluding to producer suggestions in the event that you're building an ARTF pa k. Otherwise you can essentially compare the setups of more experienced builders.

4.4 ELECTRONI(S SPEED CONTROLLER(ESC)

Electronic speed con rollers (ESCs) are used in many R/C applications. They decipher signals to electrical supply. These speed controllers acknowledge commands within the frame of PWM signals and yield the fitting engine speed accordingly. Each ESC features a current rating, which demonstrated the most extreme current that it may give the engine without overheating. Fitting ESCs must be chosen to guarantee that they can give sufficient current for the engines. We chose 30A DYS ESC for our venture (Figure 4.4), as they are well-reviewed for utilize with quad copters and have an adequate current rating. Which indicated the maximum current that it may providethe motor without overheating. Appropriate ESCs must be chosen to ensure that they can provide enoughcurrent for the motors. We selected 30A DYS ESC for our project (Figure 4.4), as they are well-reviewed for usewith quad copters and have a sufficient current rating. The only other major factor to consider is an ESC'smaximum current rating, which must exceed the current draw to each motor. Generally, 30 A for medium/largequadsand10to12A fora small quadrangleisplenty.

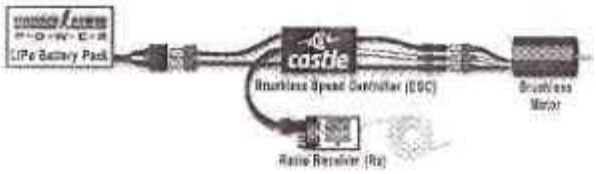

Figure4.4Electronic Speed Controller Schematic

4.5BATTERY

Multi-rotors draw a tall current and can effortlessly drag 40 A on a soak rising. As a result, strong batteries are a need for conventional flight times. The industry standard is lithium-ion polymer (LIPO) batteries. Generally lightweight, compact, and advertising tall release rates, LIPO is well-suited for multi-rotors. LIPOs packs too have C appraisals that demonstrate the greatest rate at which a pack can be released, with C standing for capacity. A 20C pack can be released at a rate 20 times it is capacity. Capacity, in this manner, is the third critical calculate. It's measured in milliamp-hours (mAh). L..t's say our 20C pack features a capacity of 4000 MAH. Given what we know approximately C evaluations, ready to do the math and decide its greatest release at up to 80,000 mAh, or 80 A. Comparative to ESC's, you wish a release rate that's higher than the combined draw current of your engines.

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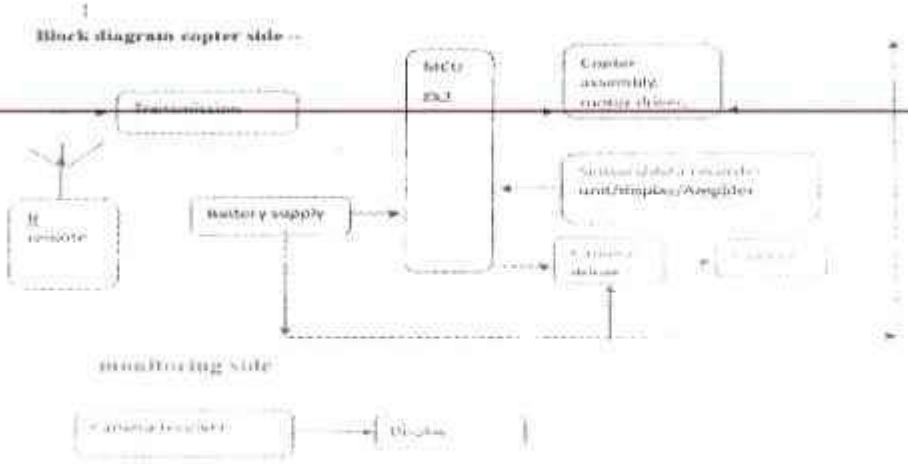
4.6 RADIOTRANSMITTERAND COLLECTOR

The radio system on an FPV (first-person view) multi-rotor is, of course, the control system. Again, both atransmitter and receiver are needed, and the choice of frequency is an important one. There are generally fewerfrequencies available for control systems. The foremost common is 2.4 GHz, in spite of the fact that 35 MHz and 72 MHz were prevalent within the past, too. UHF frameworks are getting to be progressively predominant Transmitters are accessible either as a single unit or, less commonly, as secluded pieces. After you purchase the transmitter shell, sticks, handles, and switches on their claim, without radio equipment, you at that point require a transmitter module to radiate your inputs. Devotees with numerous models communicating over distinctive frequencies regularly discover this approach valuable, since it's simple to swap out modules. The Turning 9XR is an illustration of a quality, reasonable secluded transmitter.

4.7 FLIGHTCONTROLLER

Multi-rotors are interesting within the world of R/C specialists. Ordinarily, when it comes to controlling a show vessel or plane, the pilot has supreme, exact control over the engine. A bump of the throttle deciphers to a relative increment in RPM. The same is genuine of input to the rudders, ailerons, folds, and other parts included in changing speed or heading. The distinction with multi-rotors, whether or not advantageous, is that no human is capable of controlling therotational speeds of three or more motors simultaneously with enough precision to balance a craft in the air.Thisiswhere flightcontrollerscome intoplay.

V| CONCLUSION



We can conclude drone is implemented with the public address system (PA) to address traffic jam on traffic to guide and control the road traffic for fluent flow without any occurrence of traffic jam. The drone also guides ambulances to get green corridor implementation of public address system (PA) andobservingthetrafficthrough a

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ISBN : 978-93-91535-44-5

Fire Fighting Robot

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ABSTRACT

With the development in the field of robotics, human intrusion has become less and robots are being widely used for safety purpose. In our day-to-day lives, fire accidents have become common and sometimes may lead to hazards that make it hard for the firemen to protect human life. In such cases, a firefighting robot is used to guard human lives, wealth and surroundings from the fire accidents. Here we implement two modes of robotic operations- Manual mode & Automatic mode In the Manual mode, PHP webpage is used to control the robotic vehicle. In Automatic mode, the robot takes controls by itself based on the user predefined command. To detect fire we use OpenCV for image processing. Standard colors of fire are defined by upper and lower boundaries of HSV color spaces of red, orange and yellow. The water spraying mechanism is completely automatic to both the modes. In the PHP webpage we have a control to switch between manual and automatic modes based on our choice.

INTRODUCTION

As robotic Technologies have improved and has been an integral part of our lives lots of people have made attempts to find an alternate for human work and efforts with new improvement in technology of embedded design particularly when people risk the lives during fire hazards. This allows robots to act to their full potential and understand complex and difficult scenarios aftermath of a disaster however it would be effort full if the robots fight against fire hazards rather than responding after the occurrence of the hazard. The need for production systems in cities and major towns has been mandatory and this robot has been built to match the difficult environment of such topographical areas. The basic idea is to implement fire sensors positioned by estimation of the range of fire radiation. There are smoke detectors and gas detectors which are normally cheap and easy solution for fire detection. What recent developments that includes distributed fire optic temperature sensors which are used to extinguish fire. This module uses wireless sensor structures ultrasonic sensors that senses obstacles and moves according to the detected obstacles. Digital image processing technique has been used with color video pictures and it could sense the flames.

LITERATURESURVEY

1.The proposed model is able to detect presence of fire using flame sensor and calculates object distance using

ISBN : 978-93-91535-44-5

ultrasonic sensor and moves the robot to fire accident location. It contains gear motors and motor driver to control the movement of robot. When it detects fire it communicates with microcontroller (Arduino MEGA) and the robot will move towards the fire affected area. [1]

2.Robot is a machine that seems as though a person and performs different complex assignments. There are numerous kinds of robot. Here a FIRE Quenching ROBOT is proposed. This robot is furnished with a solitary fire sensor used to detect ecological fire and feed the signs to the microcontroller so as to trigger the siphon which sprinkles water so as to stifle the fire. [2]

3. This robot uses dc motor, Arduino microcontroller, sensor, pump and sprinkler, it uses smoke sensor for detection and fire extinguisher to extinguish the detected fire.Therefore this arduino based robot is designed to control the fire through a robotic vehicle. the robot rotates while fire is detected, this detection is performed by the sensors which is placed on the sides. [3.]

4. The project that is being presented is focused on a firefighting robot. Robots are capable of performing tasks in a more efficient, cost-effective, and accurate manner than humans. It has grown in popularity as technology has advanced, making human work simpler.]

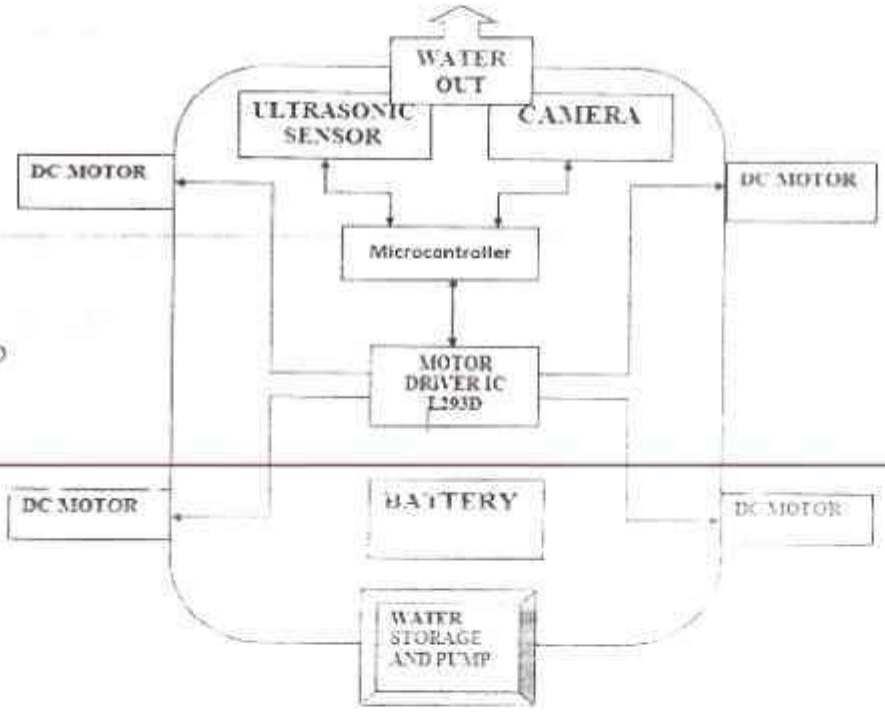

Fig1. Block Diagram

Initially a local adhoc network is created with a single device generating the Wi-Fi hotspot and mier controller connects to it. Once it is successfully connected there is an option to start the robot either in auto or manual mode. In auto mode the robot is switched ON by simultaneously running two python scripts one for color

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detection and another for running motors. There is also a separate program for ultrasonic sensing which is called from the main GPIO program. The command for running a python script in Microcontroller terminal is once the python program is run and the camera or ultrasonic sensor detects anything, the corresponding arguments are displayed in the terminal. The arguments w have used are

- "FIRE detected" in case any colour consti uent is detected
- "Obstacle detected" if any obstacle detect d by Ultrasonic sensor
- "MANUAL MODE" for manual mode op ration
- AUTO MODE" for auto mode operation

RESULT AND CONCLUSION

The automated fire-fighting robot is capable of detecting fire and extinguishing the fire source successfully. The raspberry pi controls the DC motor and ultrasonic sensor for movement of robot. It can detect fire under normal and dark lighting conditions and better suited for extinguishing fire inside a building. The Fire Fighting Robot is fabricated with locally available materials and some tests are done to observe its effectiveness at different situations. As the Fire Fighter Robot has to endure different situation, this effectiveness test will help us to make a better model. The Fire Fighting Robot is effective enough to fight against fire on a small scale. It can sense fire flame better at darker places. It is made as a preventer robot. Because it can detect fire instantly and can extinguish it before spreading. This multisensory based robot may be a solution to all fire hazards. With enough funding and scope, this design of robot can also fight against large fire with larger reserving capacity and an improved sensing unit can provide even an earlier detection of fire at all circumstances

FUTURE SCOPE

IOT can be implemented onto the robot to control it from another location in manual mode. More sensors can be mounted to achieve a better performance and we can also reduce the reaction time detecting the fire source. With the addition of a 360° camera we can achieve a great field of view. The storage can be replaced with a water pipeline for extinguishing larger fire source. Colour detection of fire is not very reliable. Hence a thermal camera can be installed rather than the USB camera to achieve better detection of fire source based on intensity.

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[4] S Kirubakaran, S P Rithanyaa, S P Thanmathee, I Vigneshkumar 2021

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Sr. No: IJRPR 25039

Certificate of Acceptance & Publication

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Project Name - IoT based Smart Helmet
Grp No - 5

International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

IOT based Smart Helmet

Saniya Haroon Nadaf, Ranjeet Balaso Shinge, Prof. M. M. Kolap.

Dep of Electronics & Telecommunication,
Dr J. J. Magdum College of Engineering, Jaysingpur, Maharashtra, India

ABSTRACT

India, known for its large youth population, has a high incidence of bike accidents due to a lack of helmet usage. Many young people are more interested in following fashion trends than protecting themselves from head injuries. Unfortunately, this has resulted in an increase in bike accident fatalities. Drunk driving is also a significant contributing factor to bike accidents, with many accidents occurring due to negligence. To address these issues, a smart helmet utilizing the internet of things has been developed. This helmet has several features, including only allowing the bike to start if the rider is wearing a helmet, shutting off the ignition if the rider is over the legal alcohol limit, and sending an alert to a registered contact in the event of an accident. Additionally, a speed lock feature prevents the rider from exceeding 60km/hr, with an audible warning triggered if they do. This system is comprised of two modules, one on the helmet and one on the bike. The helmet module includes an alcohol sensor and a helmet switch, while the bike module includes a vibration sensor, GPS, and GSM. These two modules communicate wirelessly using an RF transmitter and receiver with an encoder and decoder, all controlled by an 8051 microcontroller.

INTRODUCTION

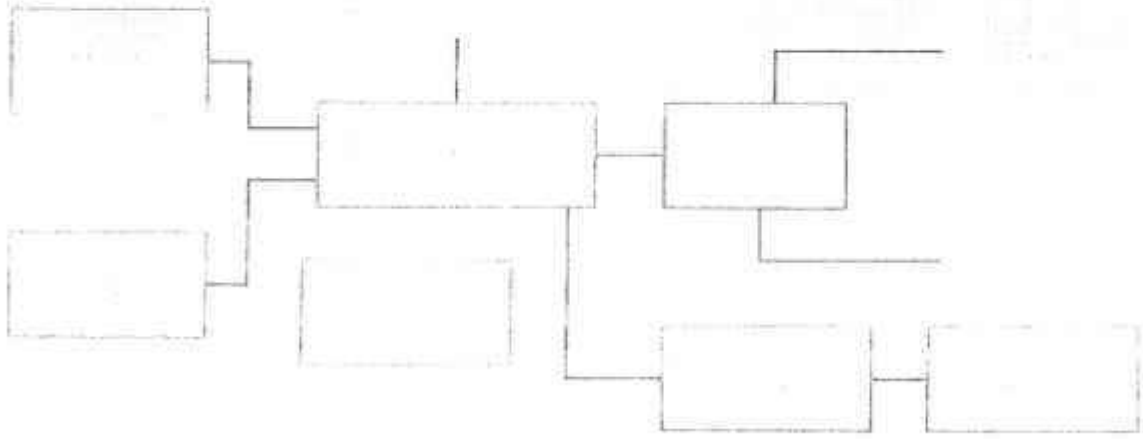
We have created a new design for a SMART HELMET FOR BIKE RIDER'S SAFETY, which is described in detail below. The electrical portion of the design of the SMART HELMET FOR BIKE RIDER'S SAFETY includes advanced features such as alcohol detection, accident identification, location tracking, hands-free device usage, and fall detection, all of which are designed to enhance rider safety. This smart helmet also functions as a feature of a smart bike, with a compulsory requirement to wear it. If the rider fails to wear the helmet, the ignition switch will turn on and an alarm will start beeping to alert the rider, while a message will be sent to the RTO. An RF Module is used as a wireless link for communication between the transmitter and receiver. If the rider is drunk, the ignition gets automatically locked and a message with the location is sent through the GSM module with the help of GPS. The distinctive utility of this project is fall detection, if the rider falls off the bike, a message is sent to alert others. Finally, a speed lock is set at 60km/hr, and if the rider exceeds that speed, a buzzer will start beeping to warn them.

LITERATURE SURVEY:

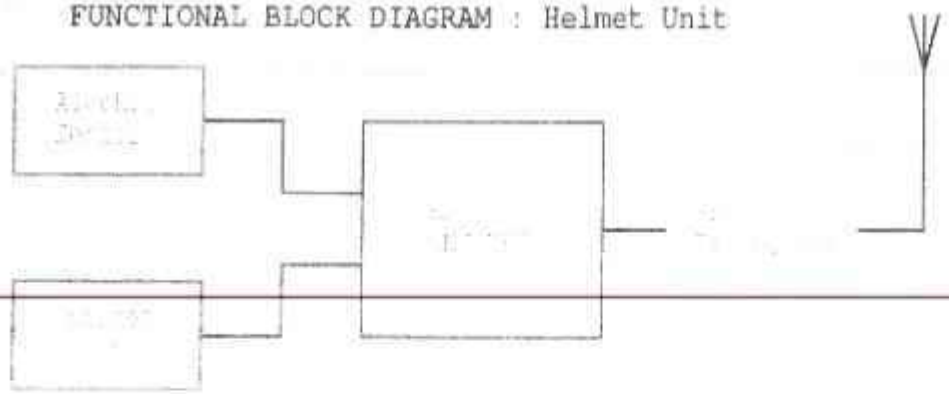
Mohammad Ehsanul Alim et al [1] has given an approach Arduino NANO and Arduino Mega-2560 are micro-controllers which control the entire components of the system. Two 2.4 GHZ nRF2401 Transceivers between sender and receiver. MQ-3 alcohol sensor is used which can detect whether the bike rider is consumed alcohol or not. If the bike rider is alcoholic, then the MQ3 sensor detects it and turn off engine. A Sharp IR sensor detects the head of the rider within the specified range. The Bike rider's engine will start only when the rider will buckle the helmet. GPS & GSM Technology is used for tracking the location of the bike rider and sending text message to the family members of the Bike rider when an accident occurs. Dhruvesh H. Patelhas et al [2] proposed an approach which the System is plan and implemented such a way that the bike will not ignite until the rider wear helmet and pass an alcohol test, this will help to solve the problem of drink and drive. It consists of GSM GPS technology which sends the message to the family member as well as hospital with the current location at the time of an accident.

BLOCK DIAGRAM:

FUNCTIONAL BLOCK DIAGRAM : Vehicle Unit



FUNCTIONAL BLOCK DIAGRAM : Helmet Unit



RESULT AND CONCLUSION:

FUTURE SCOPE:

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Journal homepage: www.ijrpr.com ISSN 2582-7421

IOT Based Smart Locker System

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ABSTRACT: As mankind leads into a new age of modernization, security issues and measures have become exceedingly nportant. Considering an educational institute or workplace, keeping one's belongings safely with a minimal interface is the need of the hour. The traditional lock and key method of keeping personal items safe is clumsy and inconvenient. The recent developments in technology have provided innovative solutions to this problem. Gone are the days of the troublesome key and lock. Radio Frequency Identification (RFID), along with Internet-of-Things (IoT), is a secure, user-friendly and efficient method to safeguard things. This combination comes with advantages such as high security, simplicity, cost-effectiveness and 'misplace-proof' methodology. This paper proposes a Smart RFID-IoT based Locker system. The locker works on RFID authentication technology, which is unique to every identity card of the user. It is also enabled with Wi-Fi connectivity to facilitate continual status monitoring, user login-logoff data storage, and unauthorized access surveillance.

INTRODUCTION: The main purpose of this paper is to design and implement a system based on a Password and a Radio- Frequency Identification RFID. This system is basically a password and an RFID based access-control system which permits only an authentic person to unlock. For doing this, the system will activate and authenticate the user. We have applied a security system via a passive type of RFID and a PASSWORD based on Atmega16 microcontroller. The RFID reader reads the ID number form RFID tag. Then enter the password from a Keypad, if the ID number of the tag and the password are correct, then the will unlock. The aim of constructing this system is to put in place a formidable locker security system with low cost and free of errors.

Looking up after valuables is a common practice to protect them from thieves. Now days, atomization has reached in various fields. . Atomization in banks has not yet been enrolled up to a desired level. Though bank plays an important role in a common man's life Thus, we will be developing the system which will improve the level of atomization in banks.

Here's a sophisticated electronic code lock using micro controller 89s52 This code lock has following features:

1. Here we will be providing a 3 level security system.
2. A four by four matrix keypad is used for inputting the password.
3. RF-ID card has a code which will be read by microcontroller and microcontroller will compare this code with the permanently stored code.
4. The password comprises four digits which will offer a greater security. If the security has to be increased up to 9 or 10 digits it can be increased without modifying any component with the help of software only.

5. Two separate relays are provided: Relay A is provided for opening the lock and relay B is used for closing the lock.

LITERATURE SURVEY:

1]

IOT BASED SMART LOCKER SECURITY SYSTEM

This project will focused on effective recognizing and controlling system for Bank locker room which is fully self determining. In cases of robberies, its commonly happen that the banned entrance in the locker room area which can be detected by our security system. If the robbery take place the banks are not be capable to recognize the robber due to absence of the proof by using the current human operated security system. The system will designed in effective way by recognizing and controlling illegal person to access the locker for the safety of bank locker room.

In this, we proposed a three phase conformation of procedure for smart locker, by providing User Name and Password, using Fingerprints and OTP which check out the user. As compare to any other previous approaches our system uses the verification process which generates an OTP to registered mobile number which highlights the smart security.

2]

FINGERPRINT BASED BANK LOCKER SYSTEM USING MICROCONTROLLER

The main aim of the paper is to design and implement the Fingerprint based bank locker system using microcontroller. Biometrics studies commonly include fingerprint, face, iris, voice, signature, and hand geometry recognition and verification. Many other modalities are in various stages of development and assessment. Among these available biometric traits finger Print proves to be one of the best traits providing good mismatch ratio and also reliable. The present scenario to operate a bank locker is with locks which are having keys. This does not provide good security to our lockers. To provide perfect security to the bank lockers and to make the work easier, this project is taking help of two different technologies viz. EMBEDDED SYSTEMS and BIOMETRICS.

3]

Design and Implementation of ATM Security System Using Vibration Sensor and GSM Modem

In the era of digitalization, everyone needs money without interaction with bank at any time. So

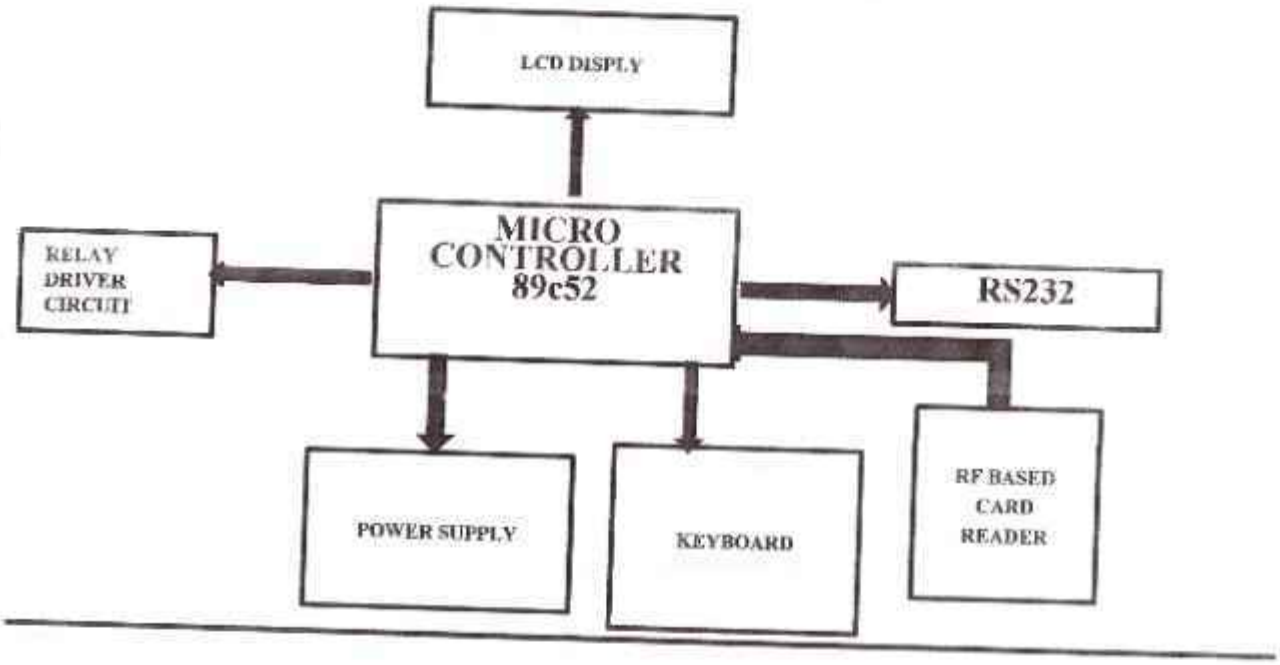
the ATM (Automotive Teller Machines) are installed everywhere in the localities. As the number of ATMs increased, prevention of theft and security of customer is the prime objective. At present, security systems are not highly secured as they are only provided with alarm system. This project deals with design and implementation of ATM security system using vibration sensor and GSM Modem. The prime objective of this project is, to secure the ATM system

using vibration sensor a d GSM modem. In this project, when a thief enters and tried to harm the machine, the vibration sensor which i attached to the machine get vibrated and sends the signal to the ARDUINO microcontroller. Once th : controller receives signal, it locks the door of ATM room by sending signal to the dc motor and sprinkler spri kles the chloroform to make the thief

unconscious. The buzzer will also be getting activated at the same time to alert the nearby people of ATM system. Simultaneously, the controller will send a message to an authorized person of the bank through GSM modem and The door is made to open only after entering the password by

the bank staff. The project is implemented and worked successfully.

BLOCK DIAGRAM Functional Block Diagram:



RESULT AND CONCLUSION:

In this paper, a smart RFID based compact locking system. RFID enabled 'Read-Authenticate' algorithm was used for user verification. The system provides impressive security in a user-friendly manner requiring minimum human intervention. The proposed system was also able to track and monitor the locker activity over definite intervals of time. It usea Wi-Fi connectivity to communicate with a centralized server, where the locker records were stored in a database allowing continuous tracking and surveillance. This initiative opens up many new areas of interest, such as integrating such a locker with prevalent intelligence techniques like Computer Vision or Speech Recognition, to make deposition and registration even more smooth, secure, and smarter.

FUTURE SCOPE: You can accomplish a variety of accounting tasks with their assistance. Electronic locks, in addition to unlocking and locking doors, can also be used to keep track of working hours. When an employee uses an RFID tag to unlock a door, the system receives a door open signal and records the time the employee arrived and departed the company.

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This certificate is awarded to Prof. M. M. Kolap, and certifies the acceptance for publication of research paper entitled "Design & Operation of Agriculture Based Pesticide Spraying & Grass Cutting Robot" in "International Journal of Research Publication and Reviews", Volume 4, Issue 5, 2023 .

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International Journal of Research Publication and Reviews, Vol 4, no 5, pp 1035-1037 May 2023

International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Design & Operation of Agriculture Based Pesticide Spraying & Grass Cutting Robot

Prof. M. M. Kolap[1], Na[illegible]rata Sunil Shetti[2], Snehal Prabhakar Koshti[3]

[1,2,3]Dep. of Electronics & Telecomm[illegible]nication, Dr. J. J. Magdum College of Engineering, Jaysingpur, Maharashtra, India

ABSTRACT:

Spraying pesticides manually outdoors can be challenging due to factors like an open environment and unfavorable weather conditions. To minimize the risks associated with manual spraying and reduce labor intensity, a team developed a pesticide spraying robot specifically for use in a greenhouse. The robot is powered by an [illegible] microcontroller and can be controlled using an Android mobile app. The app features simple buttons that allow the user to direct the robot's movement and the robot's [illegible] with a Wi-Fi module for communication between the app and the robot. While the productivity of the prototype may not be [illegible]. The robot is designed to meet the requirements of pesticide spraying and grass cutting in a greenhouse environment, without the need for human operators. The benefits of [illegible] robotic system in this context include [illegible], quality, and repeatability.

INTRODUCTION

Since the 1970s, China has made significant progress in popularizing plastic greenhouses and advanced planting techniques, resulting in substantial economic and social benefits. Presently, China has emerged as the world's leading producer of greenhouse crops. However, there are still gaps in greenhouse production management and automation compared to more developed countries. Farmers in China often work under primitive conditions, enduring high temperatures, humidity, and poor ventilation for extended periods. In contrast, developed countries like Japan have achieved a high level of automation in greenhouse management and are advancing towards fully automated, unmanned systems known as "plant factories." These facilities utilize robots and robotic arms for cultivation, liberating them from the constraints of natural conditions. Therefore, it is crucial for China to improve the automation level of greenhouse production equipment and develop agricultural techniques to meet the demands of the new era. The rapid advancements in smartphone technology, including enhanced processors, larger storage capacities, entertainment features, and various communication methods, have made them powerful devices. The introduction of Wi-Fi technology has revolutionized the way people use digital devices, eliminating the need for traditional wired connections. The concept of using a smartphone as the central control unit for robots has gained attention and offers numerous opportunities and possibilities. In this paper, we provide an overview of current mobile-controlled robots. Our work focuses on controlling the robot's movements, such as upward, backward, left, and right, through an Android application.

LITERATURE SURVEY:

[illegible] "An Automated Irrigation System Using a Wireless Sensor Network and GPRS Module", IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, VOL. 63, NO. 1, JANUARY 20[illegible]

The paper [illegible] represents the design of automated irrigation system which was developed for effective utilization of water resources. It consists of distributed wireless sensor network to check soil moisture and temperature. Whatever data collected from sensors was transmitted to the server & can be monitored via internet.

"[illegible] P. E. [illegible], Bargla A. Autonomous Pesticide Spraying Robot for Use in A Greenhouse[A]. Australian Conference on Robotics and Automation[C]. Sydney Australian 2005.

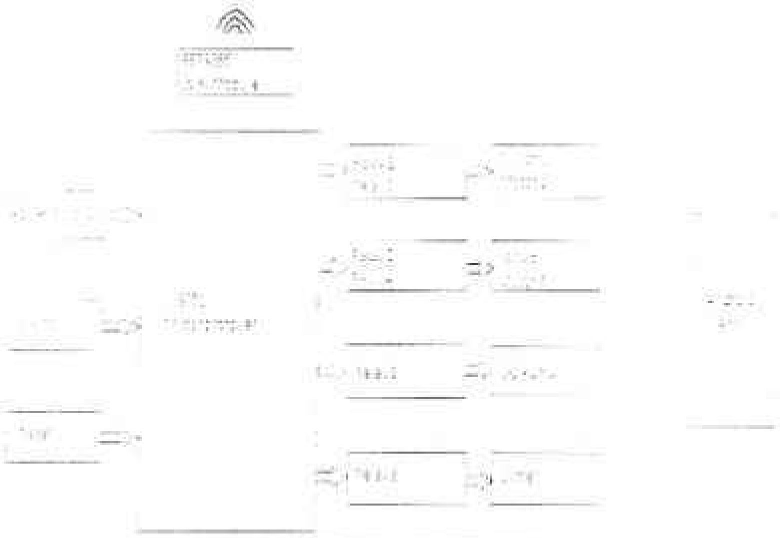
[illegible] This is achieved by the design and construction of [illegible] greenhouse. [illegible]

[illegible]

Developed agriculture needs to find new ways to improve efficiency. One approach is to utilise available information technologies in the form of more intelligent machines to reduce and target energy inputs in more effective ways than in the past. Precision Farming has shown benefits of this approach but we can now move towards a new generation of equipment. The advent of autonomous system architectures gives us the opportunity to develop a complete new range of agricultural equipment based on small smart machines that can do the right thing, in the right place, at the right time in the right way.

Compared to spraying pesticides manually outdoors, the environment has a high temperature, humidity for operating the spray work in green-house or in farms. In order to protect labourer and reduce labour intensity, we have develope a prototype of pesticide spraying robot specially used in the greenhouse and farms. ROBOT is controlled with a ARM7 controller. Designing of latest inverted ROBOT which will be controlled using an REMOTE. We are developing the remote buttons and commands in the hardware by which we can control robot motion using RF communication to interface controller and remote.

BLOCK DIAGRAM:



(1)

RESULT AND CONCLUSION:

The utilization of battery operated agriculture robots in the field of agriculture brings about numerous advantages. It enables a significant reduction in manpower, farming tools, and time required for various tasks. Compared to traditional working methods, these machines demand fewer workers and less time to accomplish [illegible] agriculture robot has [illegible] designed with these limitations and benefits [illegible] incorporating a dual functionality of [illegible] and pesticide spraying, effectively addressing the challenges faced in agricultural endeavors. This integrated approach greatly [illegible] the negative aspects [illegible] with these tasks. We are optimistic that our robot will meet the needs of Indian agriculture and [illegible] farmers. By adopting such technologies, we can effectively address the [illegible] challenges [illegible] today's farming practices in India.

FUTURE SCOPE:

As mentioned earlier, the device circuit is designed using software and simulated accordingly. However, during the hardware [illegible] power distribution to each module can be a challenge. To overcome this issue, [illegible] This ensures that the sensors, LCD, and other components receive sufficient power supply [illegible] The device can be easily manufactured [illegible], making it suitable for [illegible] allows for installation at any location.

REFERENCES:

[illegible] Gutiérrez, and et al. "Automated Irrigation System Using a Wireless Sensor Network and GPRS Module," [illegible] INSTRUMENTATION AND MEASUREMENT, VOL. 63, NO. 1, JANUARY 2014

2] Sammons P.J, Furukawa T., Bulgin A. Autonomous Pesticide Spraying Robot for Use in A Greenhouse[A]. Australian Conference on Robotics and Automation, Sydney Australian 2005

3] Simon Blackmore, Bill Stout, Maohua Wang, Boris Runov, Robotic Agriculture The future of agricultural mechanisation? AgroTechnology The Royal Veterinary and Agricultural University, Agrovej 10 DK-2630 Taastrup, Denmark

4] Zhang Ling, Ma Nan, Zhang Xiaojie. The Development Status and Trends of Facility Agriculture Overseas [J]

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Certificate

This is to certify that Mr. /Miss. Pratik Patil

of JJMCOE has secured — /Participated in

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Co Ordinator	Vice Principal	Principal

International Journal of Research Publication and Reviews

(Open Access, Peer Reviewed, International Journal)

(A+ Grade, Impact Factor 5.536)

ISSN 2582-7421

Sr. No: IJRPR 24992

Certificate of Acceptance & Publication

This certificate is awarded to ***Nikita Bharat Sutar,*** *and certifies the acceptance for publication of research paper entitled* ***"Ambulance Tracking with Patient Health Monitoring System Using GPS and GSM Module"*** *in* ***"International Journal of Research Publication and Reviews", Volume 4, Issue*** *5, 2023.*

Signed Ashwini Agarwal

IJRPR

Date 14/05/2023

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International Journal of Research Publication and Reviews

International Journal of Research Publication and Reviews
(Open Access, Peer Reviewed, International Journal)

ISSN 2582-7421

Sr. No: IJRPR 54749

Certificate of Acceptance & Publication

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Signed

IJRPR

Date 14/05/2023

Editor-in-Chief
International Journal of Research Publication and Reviews

International Journal of Research Publication and Reviews

(Open Access, Peer Reviewed, International Journal)

ISSN 2582-7471

Sr. No: IJRPR 54748

Certificate of Acceptance & Publication

This certificate is awarded to Prof. T. H. Mohite, and certifies the acceptance for publication of research paper entitled "Ambulance Tracking with Patient Health Monitoring System Using GPS and GSM Module" in "International Journal of Research Publication and Reviews", Volume 4, Issue 5, 2023 .

IJRPR

Signed _____ Date 14/05/2023

Editor-in-Chief
International Journal of Research Publication and Reviews

International Journal of Research Publication and Reviews, Vol 4, no 5, pp 2457-2459 May 2023

International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

WWW.IJRPR.COM

Ambulance Tracking with Patient Health Monitoring System Using GPS and GSM Mo lule

Prof. T. H. Mohite[1], Nikit. Bharat Sutar[2], Pratik Dushyant Patil[3]

[1,2,3]Dep. of Electronics & Telecommunic ion, Dr.J J Magdum College of Engineering, Jaysingpur, Maharashtra, India

ABSTRACT:

With the assistance of this project, we can determine the precise location of an ambulance while simultaneously monitoring essential health parameters of a patient. These parameters encompass temperature, humidity, and heartbeat rate. A text message containing the location and sensor readings is transmitted to a doctor's mobile device or any authorized individual within the hospital. This recipient can then promptly inform the doctor about the ambulance location and the patient's health status. By utilizing these parameters, the doctor can make the necessary preparations for the patient's treatment and determine the ambulance's whereabouts.

INTRODUCTION

This project encompasses three primary functionalities. The first one involves monitoring the health of the patient, while the second focuses on tracking the ambulance transporting the patient. The third function revolves around transmitting the aforementioned details to the hospital or doctor using GSM technology. Through this project, it becomes possible to determine the ambulance's location and simultaneously monitor various health parameters of the patient, including temperature, humidity, and heart rate. A text message containing the location and sensor readings is sent to the doctor's mobile device, or alternatively, it can be forwarded to any authorized personnel within the hospital. This individual can then promptly notify the doctor regarding the ambulance's location and the patient's health condition, allowing the doctor to make the necessary preparations for treatment. The ambulance follows a designated route separate from other primery vehicles to reach its destination. Sensors integrated into the ambulance system continuously monitor the patient's health, and if the readings exceed the normal values, the GSM module transmits the tracked data to another GSM unit. Consequently, the hospital unit becomes aware of the patient's condition even before the ambulance arrives. An advantage of this project is its operation on a 5V DC power supply, which is readily available. Another recommended method for ambulance tracking is the utilization of Google Maps, which offers an efficient and convenient means of monitoring vehicle location online. Hospital personnel can employ these online maps to track the ambulance, leveraging the internet to determine the ambulance's location based on longitude and latitude coordinates. In today's internet-driven world, access to the internet is widespread and rapid. Numerous websites provide online maps, with Google Maps being one of the most renowned. By having a computer or laptop and an internet connection, hospital staff can receive an SMS on their mobile device and manually input the relevant parameters into Google Maps. Upon clicking the view button, Google Maps will display a marker pinpointing the precise location of the ambulance.

LITEPATURE SURVEY:

1. Ahmet Ar[illegible] and Sema F. Oktu g, Nesnelerin Interneti Guvenligi: Servis Engelleme Sald r lar Internet-of-Things Security : Denial of Service Attacks",

Ahmet Arıs and Sema F. Oktu g, Nesnelerin Interneti Guvenligi : Servis Engelleme Saldırılar" Internet-of-Things Security : Denial of Service Attacks "Internet of Things (IoT) is a network of sensors, actuators, mobile and wearable devices, simply things that have processing and communication modules and can connect to the Internet. In a few years' time, billions of such things will start serving in many fields within the concept of IoT. Self-configuration, [illegible] internet connection and [illegible] of IoT [illegible] attacks. Denial of Service (DoS) [illegible] IoT networks. This study aims to [illegible] and classify the DoS attacks that may target the IoT environment. In addition to this, the systems that try to detect and mitigate the DoS attacks to IoT will be evaluated.

2. Mohammad A. Al-Khedher, Hybrid GPS-GSM "Localization of Automobile Tracking System", International Journal of Computer Science & Information Technology (IJCSIT) Vol 3, No 6, Dec 2011.

Mohammad A. Al-Khedher, Hybrid GPS-GSM Localization of Automobile Tracking System ", International Journal of Computer Science & Information Technology (IJCSIT) Vol 3, No 6, Dec 2011. An integrated GPS-GSM system is proposed to track vehicles using Google Earth application. The remote module has a GPS mounted on the moving vehicle to identify its current position, and to be transferred by GSM with other parameters acquired by the

automobiles data port as an SMS to a recipient station. The received GPS coordinates are filtered using a Kalman filter to enhance the accuracy of measured position. After data processing, Google Earth application is used to view the current location and status of each vehicle. This goal of this system is to manage ect, police automobiles distribution and car theft cautions.

(Smart Real-Time Healthcare Monitoring and Tracking System using GSM/GPS Technologies". The Master of IEEE Projects 2015.

Smart Real-Time Healthcare Monitoring and Tracking System using GSM GPS Technologies", The Master of IEEE Projects 2015 Health monitoring systems have rapidly evolved recently, and smart systems have been proposed to monitor patient current health conditions. In our proposed and implemented system, we focus on monitoring the patient's blood pressure and his body temperature. Based on last decade statistics of medical records, death rates due to hypertensive heart disease, shows that the blood pressure is a crucial risk factor for atherosclerosis and ischemic heart diseases; thus, preventive measures should be taken against high blood pressure which provide the ability to track, trace and save patient's life at appropriate time is an essential need for mankind. The objective of this work is providing an effective application for Real Time Health Monitoring and Tracking. The system will track, trace, monitor patients and facilitate taking care of their health, so efficient medical services could be provided at appropriate time.

BLOCK DIAGRAM:

RESULT AND CONCLUSION:

This paper introduces the Internet of Things (IoT) as the foundation for this project, which utilizes micro-controller technology alongside GSM and GPS systems to transmit data through text messages. This innovative approach in the medical field enables doctors to closely monitor patients' health even while they are being transported in an ambulance. Crucial physiological parameters such as body temperature and heartbeat can be continuously monitored, allowing doctors to analyze the patient's condition from any location within the hospital. This not only alleviates the workload on doctors but also provides accurate results. This paper introduces the Internet of Things (IoT) as the foundation for this project, which utilizes micro-controller technology alongside GSM and GPS systems to transmit data through text messages. This innovative approach in the medical field enables doctors to closely monitor patients' health even while they are being transported in an ambulance. Crucial physiological parameters such as body temperature and heartbeat can be continuously monitored, allowing doctors to analyze the patient's condition from any location within the hospital. This not only alleviates the workload on doctors but also provides accurate results.

FUTURE SCOPE:

1. Expanding the range of sensors [illegible] automatically initiate an emergency call [illegible] patient's health parameters [illegible] specified [illegible]. With some modifications this project can also find application in the [illegible] sector.
2. The project holds potential for tracking industrial vehicles transporting equipment or materials [illegible] [illegible]
3. [illegible] the intended [illegible]

REFERENCES:

[illegible] Ambulance"

[2] Mohammad A. Al-Khedher, Hybrid GPS-GSM "Localization of Automobile Tracking System", International Journal of Computer Science & Information Technology (IJCSIT) Vol 3, No 6, Dec 2011.

[3] Smart Real-Time Healthcare Monitoring and Tracking System using GSM/GPS Technologies", The Master of IEEE Projects 2015.

Tutorial - 1

1) Compare open loop & close loop system.

	open loop system	close loop system
1)	The system whose control action is free from the output is called as the open loop control system	1) In close loop, the output depends on the control action of the system.
2)	feedback is absent	2) feedback is present.
3)	Simple Construnation	3) Complex Construction.
4)	Non-reliable	4) Reliable
5)	Accuracy depends on coliberation	5) Accuracy is accurated because of feedback.
6)	stable stability in open loop system.	6) less stability in close loop system.
7)	optimization is not possible.	7) optimization is possible.
8)	Response open loop system is slow	8) Response of close loop system is slow.
9)	calibration is difficult	9) calibration is easy

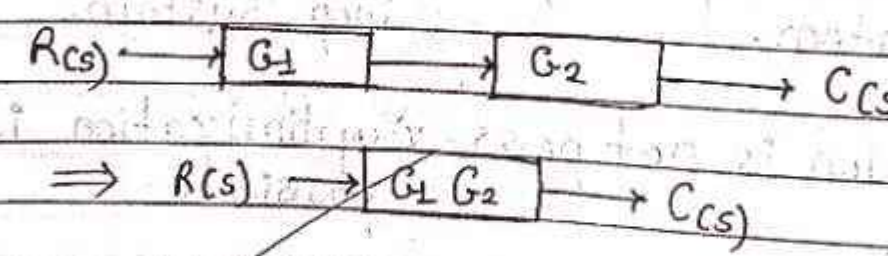
10) system disturbance affected on open loop system.	10) system distrubance affected on close loop system.
11) non-linear linearity	11) linear linearity
12) Examples: Trafic light, automatic washing machine, immersion rod, TV. remote etc.	12) Examples: Air conditions, temperature Control system, speed and pressure Control system, refrigerator, taster.

2) Write a block Diagram reduction rules.

Block Diagram reduction rules

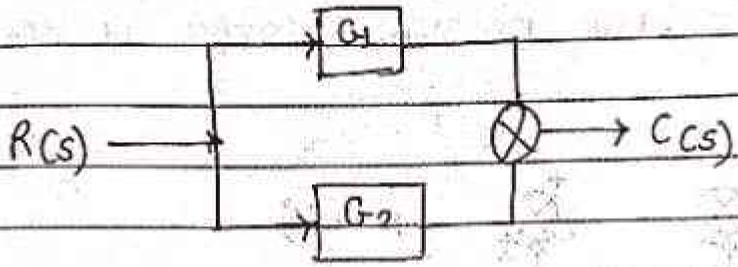
Any finite no of blocks in series may be algebraically combined by multiplication.

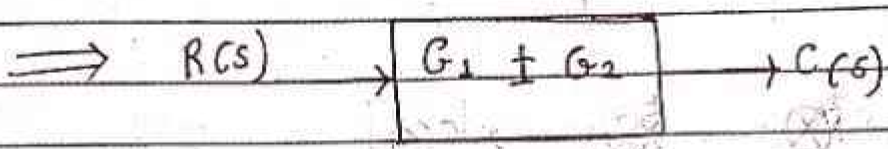
- Rule no 1: Blocks in series / cascaded



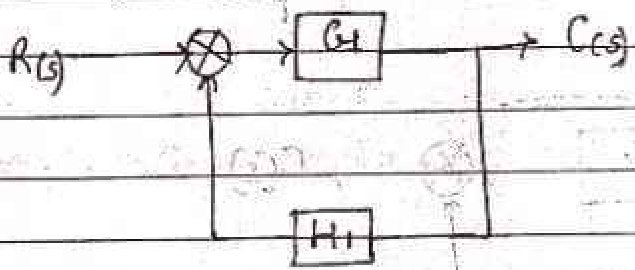
- Rule no 2: Blocks in parallel

The blocks which are connected in parallel get added algebratically

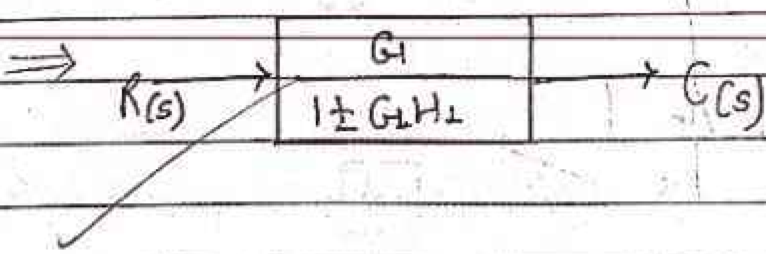




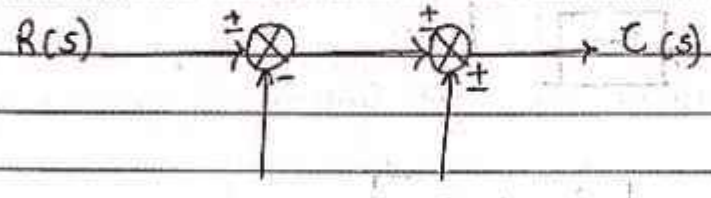
- Rule no 3 : Elimination feedback loop
  To Elimination feedback loops we use the closed loop T.F.

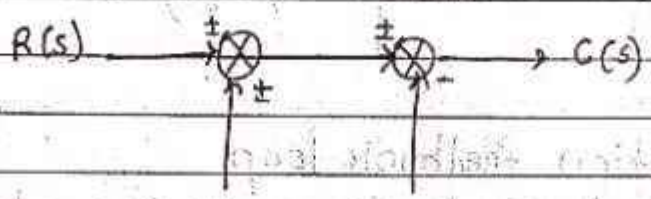


$$\frac{G(s)}{R(s)} = \frac{G(s)}{1 \pm G(s).H(s)}$$

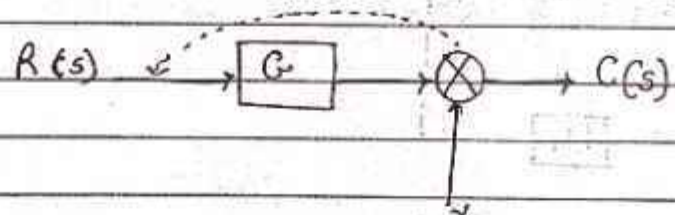


- Rule no 4: Associative law
  The order of summing point can be changed If two or more summing points are in series





- Rule no 5: move summing point before a block.



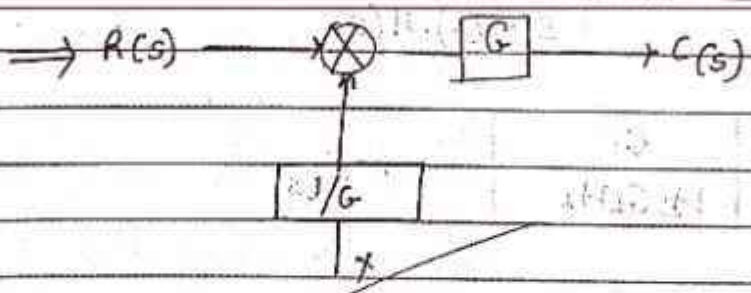
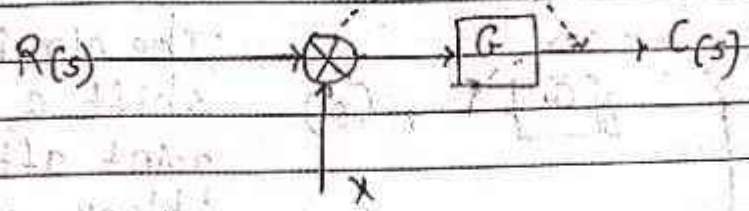
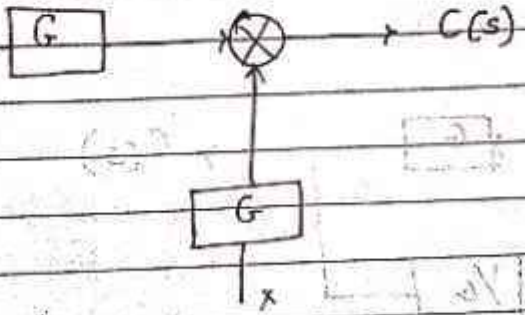


figure a Summing point needs to be shifted before G. as show in dotted line.

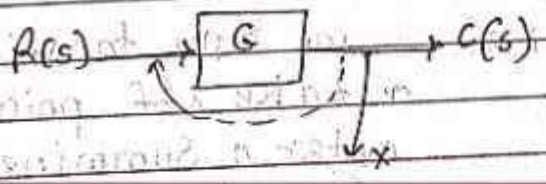
- Rule no. 6: Move summing point after a block.



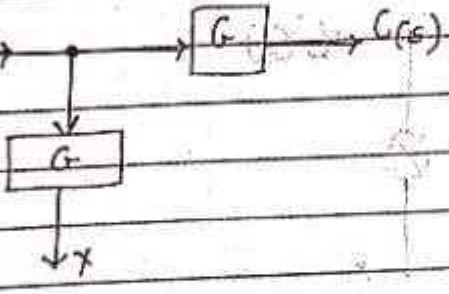
$\Rightarrow$



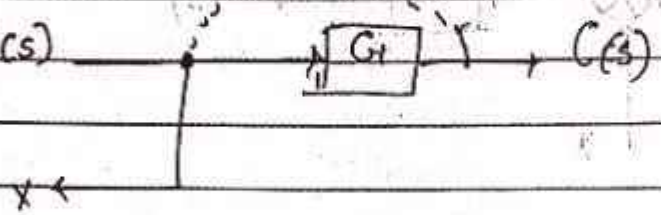
- Rule no 7: Move take off point before a block



Here the aim is to shift the take off point before blocks as shown by dotted line

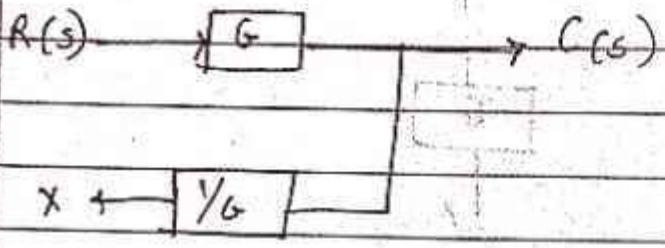


- Rule no 8: Move take off point after a block.

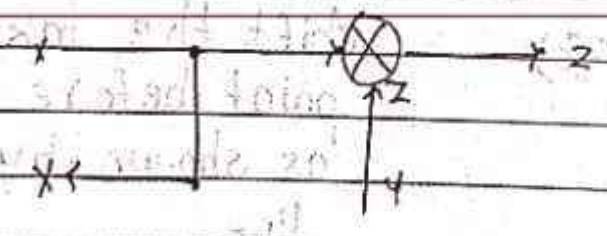


The aim is to shift a take off point after a block. as shown by dotted line.

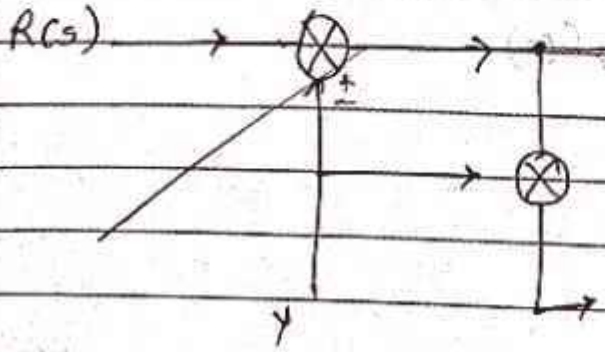
⇒



- Rule no. 9: Move take off point after a summing point.

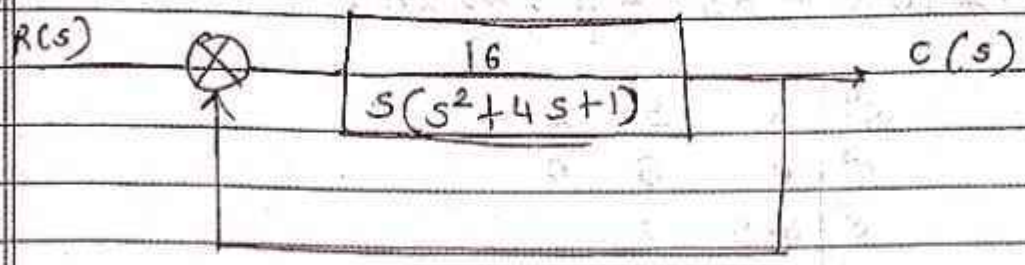


we have to shift a take off point after a Summing point shown by dotted line.



Tutorial - 3

1)



→ $G(s) = \dfrac{16}{s(s^2+4s+1)}$

$$= \frac{\frac{16}{s(s^2+4s+1)}}{1+\left(\frac{16}{s^2+4s+1}\right)}$$

Denote characteristics equaction will be zero.

$$1 + \frac{16}{s(s^2+4s+1)} = 0$$

$$s(s^2+4s+1)+16 = 0$$

$$s^3+4s^2+s+16 = 0$$

s^3	1	1
s^2	4	16
s^1	-3	
s^0	16	

$$a_1 = \frac{4-16}{4} = \boxed{-3}$$

$$b_1 = \frac{(-3\times16)-(4\times0)}{-3}$$

$$\boxed{b_1 = 16}$$

2) $3s^4 + 10s^3 + 5s^2 + 5s + 2 = 0$

s^4	3	5	2
s^3	10	5	0
s^2	3.5	2	
s^1	-0.71	0	
s	2		

$a_1 = \frac{50 - 15}{10}$ $\quad a_2 = \frac{20}{10}$

$\boxed{a_1 = 3.5}$ $\quad \boxed{a_2 = 2}$

$b_1 = \frac{(3.5 \times 5) - (20)}{3.5}$ $\quad b_2 = 0$

$\boxed{b_1 = 0.71}$

$c_1 = \frac{(-0.71 \times 2) - 0}{-0.71}$

$\boxed{c_1 = 2}$

3) $12s^4 + 15s^3 + 15s + 3 = 0$

$12s^4 + 16s^3 + 15s^2 + 15s + 3 = 0$

s^4	12	15	3
s^3	15	15	0
s^2	11	3	0
s^1	10.90	0	
s_0	3		

Dr. J. J. Magdum College of Engineering

Electronics and Telecommunication Engg [2022-23]

Title : LIC QUIZ
Subject : Linear integrated Circuits - Theory
Faculty : SUPRIYA KARADGE
Year : SE - SE
Date : Wed 24 May, 2023
Marks : 10
Duration : 30 Minutes

1] **Question : 1.Find the output voltage of an ideal op-amp. If V1 and V2 are the two input voltages** [Single Correct] [1 Marks]
1) a) VO= V1-V2
2) ✓**b) VO= A×(V1-V2)**
3) c) VO= A×(V1+V2)
4) d) VO= V1×V2
Explanation :

Bloom's Level: Remember

2] **Question : How will be the output voltage obtained for an ideal op-amp?** [Single Correct] [1 Marks]
1) ✓**a) Amplifies the difference between the two input voltages**
2) b) Amplifies individual voltages input voltages
3) c) Amplifies products of two input voltage
4) d) None of the mentioned
Explanation :

Bloom's Level: Remember

3] **Question : Which factor determine the output voltage of an op-amp?** [Single Correct] [1 Marks]
1) a) Positive saturation
2) b) Negative saturation
3) ✓**c) Both positive and negative saturation voltage**
4) d) Supply voltage
Explanation :

Bloom's Level: Remember, Evaluate

4] **Question : In which configuration does the op-amp function as a high gain amplifier?** [Single Correct] [1 Marks]
1) a) Differential amplifier
2) b) Inverting amplifier
3) c) Non-inverting amplifier
4) ✓**d) All of the mentioned**
Explanation :

Bloom's Level: Remember, Analyze

5] **Question : Find the output of inverting amplifier?** [Single Correct] [1 Marks]
1) a) Vo = AVin
2) ✓**b) Vo = -AVin**
3) c) Vo = -A(Vin1– Vin2)
4) d) None of the mentioned
Explanation :

Bloom's Level: Remember

6] **Question : Why open-loop op-amp configurations are not used in linear applications?** [Single Correct] [1 Marks]
1) a) Output reaches positive saturation
2) b) Output reaches negative saturation
3) ✓**c) Output switches between positive and negative saturation**

4) d) Output reaches both positive and negative saturation
Explanation :

Bloom's Level: Remember

7] Question : A feedback amplifier is also called as [Single Correct] [1 Marks]
1) a) Open loop amplifier
2) ✓**b) Closed loop amplifier**
3) c) Feedback network amplifier
4) d) Looped network amplifier
Explanation :

8] Question : How many types of configuration are available for feedback amplifier? [Single Correct] [1 Marks]
1) a) Six
2) ✓**b) Four**
3) c) Two
4) d) Eight
Explanation :

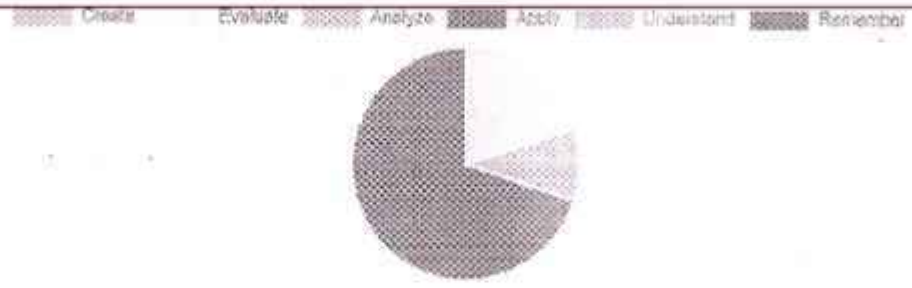
Bloom's Level: Remember

9] Question : Select the specifications that implies the inverting amplifier? [Single Correct] [1 Marks]
1) a) V1 = -3v, V2 = -4v
2) b) V1 = -2v, V2 = 3v
3) c) V1 = 5v, V 2 = 15v
4) ✓**d) V1 = 0v, V2 = 5v**
Explanation :

Bloom's Level: Evaluate

10] Question : Voltage follower is also called as [Single Correct] [1 Marks]
1) a) None of the mentioned
2) ✓**b) Non-inverting amplifier**
3) c) Inverting amplifier
4) d) Normal buffer
Explanation :

Marks distribution as per Bloom's level



Bloom's Level	Linked Question Count	Marks	Percentage
Create	0	0	0.00
Evaluate	2	2	20.00
Analyze	1	1	10.00
Apply	0	0	0.00
Understand	0	0	0.00
Remember	7	7	70.00

Learning Method and ICT tools used

Sr. No.	Learning method	ICT tool
1	Class Room Learning	PPTs / Study material
2	Blended Learning	• NPTEL videos, • You tube and other academy videos • Value Added Courses • Google meet, Microsoft Teams for online lectures. • E journal & E books • Open source Library
3	Experiential / Field learning	• Study of software in syllabus • Virtual Labs • Industrial visits • In plant Training • Internship • Augmentation Programs
4	Participative Learning	• Projects • Mini Project • Seminar • STTP/FDP attended • STTP/FDP Organized • Expert / Guest Conducted • Participation in Tech event
5	Problem Solving Methodologies by ICT	• Tutorial • Assignments • Quizzes • ERP Soft ware

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PPTs

subject - cloud computing
class - BTech CSEM - II
Faculty Name - Mrs. J. T. Patil

12/14/2023

CLOUD COMPUTING

Unit III
Cloud Computing Architecture

By
Mrs. J. T. Patil
Assistant Professor
Department of IT
JJMCOE, Jaysingpur

INDEX

- ✓ Cloud Reference Model,
- ✓ Types of Clouds
- ✓ Economics of Clouds,
- ✓ Open Challenges,
- ✓ Cloud Platforms in Industry: Amazon Web Services,Google App Engine, And Microsoft Azure.

INTRODUCTION

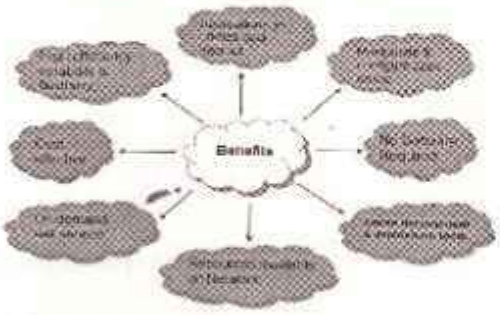
- ✓ **What is cloud?**
  - ✓ The term **Cloud** refers to a **Network** or **Internet**. In other words, we can say that Cloud is something, which is present at remote location
  - ✓ Cloud can provide services over network, i.e., on public networks or on private networks, i.e., WAN, LAN or VPN.
  - ✓ Applications such as **e-mail, web conferencing, customer relationship management (CRM),**all run in cloud.

INTRODUCTION

- ✓ **What is cloud Computing?**
  - ✓ Cloud Computing refers to manipulating, configuring, and accessing the applications online.
  - ✓ It offers online data storage, infrastructure and application. We need not to install a piece of software on our local PC and this is how the cloud computing overcomes platform dependency issues.
  - ✓ Hence, the Cloud Computing is making our business applications mobile and collaborative.
  - ✓ It is a technology that uses remote servers on the internet to store, manage, and access data online rather than local drives. The data can be anything such as files, images, documents, audio, video, and more.

BENEFITS

- ✓ Cloud Computing has numerous advantages,

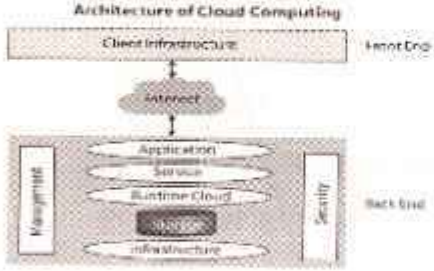


CLOUD COMPUTING ARCHITECTURE

- ✓ cloud computing technology is used by both small and large organizations to **store the information** in cloud and **access** it from anywhere at anytime using the internet.
- ✓ Cloud computing architecture is a combination of **service-oriented architecture** and **event-driven architecture.**
- ✓ Cloud computing architecture is divided into the following two parts –
- ✓ Front End
- ✓ Back End

Cloud Computing Architecture

✓The below diagram shows the architecture of cloud computing



Components of Cloud Computing Architecture

There are the following components of cloud computing architecture -

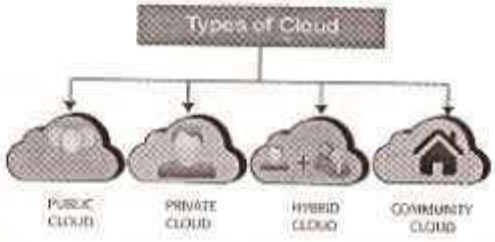
1. **Client Infrastructure**
   - ✓ Client Infrastructure is a Front end component. It provides GUI (Graphical User Interface) to interact with the cloud.
2. **Application**
   - ✓The application may be any software or platform that a client wants to access.
3. **Service**
   - ✓A Cloud Services manages that which type of service you access according to the client's requirement.
4. **Runtime Cloud**
   - ✓Runtime Cloud provides the execution and runtime environment to the virtual machines.
5. **Storage**
   - ✓Storage is one of the most important components of cloud computing. It provides a huge amount of storage capacity in the cloud to store and manage data.

Components of Cloud Computing Architecture

6. **Infrastructure**
   - ✓It provides services on the host level, application level, and network level. Cloud infrastructure includes hardware and software components such as servers, storage, network devices, virtualization software, and other storage resources that are needed to support the cloud computing model.
7. **Management**
   - ✓Management is used to manage components such as application, service, runtime cloud, storage, infrastructure, and other security issues in the backend and establish coordination between them.
8. **Security**
   - ✓Security is an in-built back end component of cloud computing. It implements a security mechanism in the back end.
9. **Internet**
   - ✓The Internet is medium through which front end and back end can interact and communicate with each other.

Types Cloud Computing

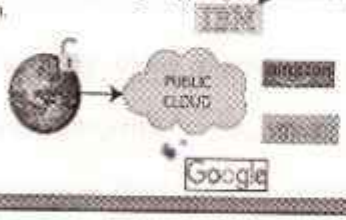
There are the following 4 types of cloud that you can deploy according to the organization's needs-



Types Cloud Computing

✓Public Cloud:

- ✓Public cloud is **open to all** to store and access information via the Internet using the pay-per-usage method.
- ✓In public cloud, computing resources are managed and operated by the Cloud Service Provider (CSP).
- ✓Example: Amazon elastic compute cloud (EC2), IBM SmartCloud Enterprise, Microsoft, Google App Engine, Windows Azure Services Platform.



Types Cloud Computing

✓Advantages of Public Cloud:

There are the following advantages of Public Cloud -

- ✓Public cloud is owned at a lower cost than the private and hybrid cloud.
- ✓Public cloud is maintained by the cloud service provider, so do not need to worry about the maintenance.
- ✓Public cloud is easier to integrate. Hence it offers a better flexibility approach to consumers.
- ✓Public cloud is location independent because its services are delivered through the internet.
- ✓Public cloud is highly scalable as per the requirement of computing resources.
- ✓It is accessible by the general public, so there is no limit to the number of users.

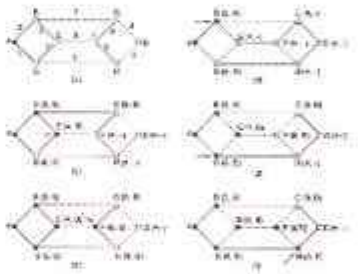
Subject - Computer Network
Class - SY (SEM-II)
Faculty Name - Ms. P.R. Desai

12/14/2023

Routing Algorithms

- The Optimality Principle
- Shortest Path Routing
- Flooding
- Distance Vector Routing
- Link State Routing
- Hierarchical Routing
- Broadcast Routing
- Multicast Routing
- Routing for Mobile Hosts
- Routing in Ad Hoc Networks

Shortest Path Routing



The first 5 steps used in computing the shortest path from A to D. The arrows indicate the working node.

Flooding

```
#define MAX_NODES 1024                /* maximum number of nodes */
#define INFINITY 1000000000           /* a number larger than every maximum path */
int n, dist[MAX_NODES][MAX_NODES];    /* dist[i][j] is the distance from i to j */

void shortest_path(int s, int t, int path[]);
{ struct state {
    int predecessor;                  /* the path being worked on */
    int length;                       /* previous node */
    enum {permanent, tentative} label;/* length from source to this node */
  } state[MAX_NODES];                 /* label state */

  int i, k, min;
  struct state *p;

  for (p = &state[0]; p < &state[n]; p++) { /* initialize state */
    p->predecessor = -1;
    p->length = INFINITY;
    p->label = tentative;
  }
  state[t].length = 0; state[t].label = permanent;
  k = t;                              /* k is the initial working node */
```

Dijkstra's algorithm to compute the shortest path through a graph.

Flooding (2)

```
  do {                                /* Is there a better path from k? */
    for (i = 0; i < n; i++)           /* this graph has n nodes */
      if (dist[k][i] != 0 && state[i].label == tentative) {
        if (state[k].length + dist[k][i] < state[i].length) {
          state[i].predecessor = k;
          state[i].length = state[k].length + dist[k][i];
        }
      }

    /* Find the tentatively labeled node with the smallest label. */
    k = 0; min = INFINITY;
    for (i = 0; i < n; i++)
      if (state[i].label == tentative && state[i].length < min) {
        min = state[i].length;
        k = i;
      }
    state[k].label = permanent;
  } while (k != t);

  /* Copy the path into the output array. */
  i = 0; k = s;
  do {path[i++] = k; k = state[k].predecessor;} while (k >= 0);
}
```

Dijkstra's algorithm to compute the shortest path through a graph.

ROUTING IN AUTONOMOUS SYSTEMS: ROUTING

Today, an internet can be so large that one routing protocol cannot handle the task of updating the routing tables of all routers. For this reason, an internet is divided into autonomous systems. An autonomous system (AS) is a group of networks and routers under the authority of a single administration. Routing inside an autonomous system is called intra-domain routing. Routing between autonomous systems is called inter-domain routing.

UNICAST ROUTING PROTOCOLS

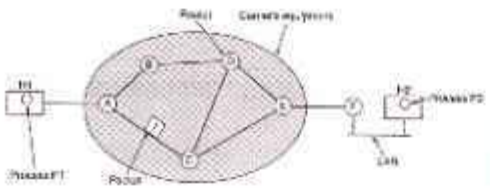
A routing table can be either static or dynamic. A static table is one with manual entries. A dynamic table is one that is updated automatically when there is a change somewhere in the Internet. A routing protocol is a combination of rules and procedures that lets routers in the Internet inform each other of changes.

The Network Layer

Network Layer Design Isues

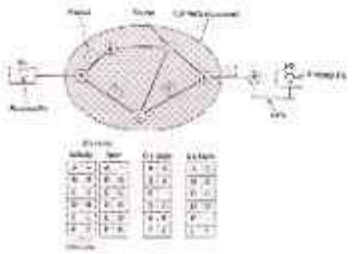
- Store-and-Forward Packet Switching
- Services Provided to the Transport Layer
- Implementation of Connectionless Service
- Implementation of Connection-Oriented Service
- Comparison of Virtual-Circuit and Datagram Subnets

Store-and-Forward Packet Switching



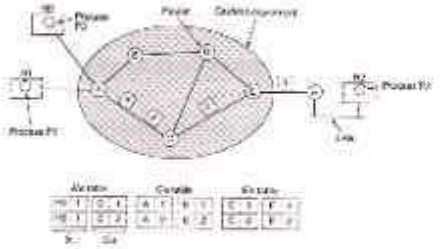
The environment of the network layer protocols

Implementation of Connectionless Service



Routing within a diagram subnet

Implementation of Connection-Oriented Service



Routing within a virtual-circuit subnet

Comparison of Virtual-Circuit and Datagram Subnets

Issue	Datagram subnet	Virtual-circuit subnet
Circuit set-up	Not needed	Required
Addressing	Each packet contains the full source and destination address	Each packet contains a short VC number
State information	Routers do not hold state information about connections	Each VC requires router table space per connection
Routing	Each packet is routed independently	Route chosen when VC is set up; all packets follow it
Effect of router failures	None, except for packets lost during the crash	All VCs that passed through the failed router are terminated
Quality of service	Difficult	Easy if enough resources can be allocated in advance for each VC
Congestion control	Difficult	Easy if enough resources can be allocated in advance for each VC

Subject : Fundamentals of Economics & Management

Class : S.Y. I.T (SEM-I)

Faculty Name : Prof. P. R. Patil

12/14/2023

UNIT:I
Introduction to Economics

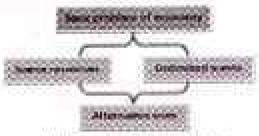
Definitions

- Economics is the art of making the most of life.
- The term economics is come from Greek word oikos(house) and nomos (custom or law).
- Economics is often defined as a body of knowledge or study that discusses how a society tries to solve the human problems of unlimited wants & scarce resources.
- Scarcity
  - Situation in which the amount of something available is insufficient to satisfy the desire for it.

- Also, there exists considerable debate as to whether economics is a science or an art.
- Because it has theoretical aspect and also as applied science in its practical aspects.
- So we should consider economics as a social science; it deals with society as a whole and human behaviour in particular, and studies the production, distribution and consumption of goods and services.

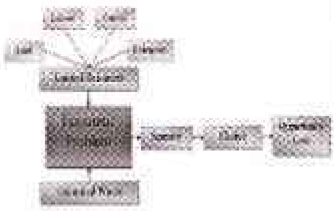
The Economic Problem: Scarcity and Choice

- Economy is derived from two Greek words which mean 'house' and 'distribute'.
- Economy was studied to understand the management of a household that later started being used to manage resources.



The chart shows the basic problem of economy

- The basic problem of an economy deals with the needs and wants of a man being unlimited and the resources are scarce.
- The resources include the factors of production that are land, labour, capital and entrepreneurship.
- **Economics is the social science that studies how people use their scarce resources to satisfy unlimited needs and wants.**



Scarcity

- The purpose of production is to satisfy man's want but as the resources are limited, not enough output is available to fulfil every man's want.
- This explains that human wants are unlimited which are not fulfilled by the limited resources as stated by the **Law of scarcity**.

This chart shows how law of scarcity arises

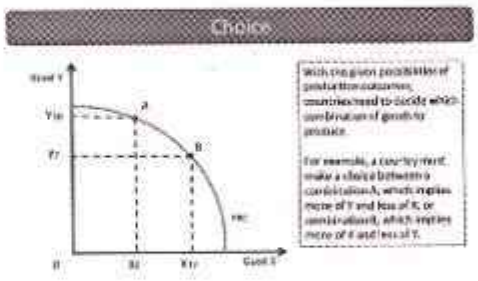
- The demand is high as compared to the supply, and due to insufficient resources satisfaction is not achieved.
- To overcome this, the choice is made available to man to allocate their resources in such a way that maximum satisfaction can be achieved.
- For instance, a man walks into a grocery store with ₹200, he would buy products in a way that when he walks out the products with him would be equal to the value of ₹200. He might want food grains, toiletries, milk, cooking essentials, etc but he would allocate the money available to him in such a way that he attains maximum satisfaction from his purchase.

Choices

- Scarcity gives rise to the economic problem of choice.
- As there are limited resources, the choice is given to decide what one wishes to get by sacrificing one of its demand.
- When the choice is made there is sacrifice involved in it.
- The decision to consume a product also means a decision to not consume another.
- One product can only be consumed by giving up something in exchange.
- Opportunity Cost refers to the cost of sacrifice that is done to choose the next best alternative.

- For example, a farmer has 10 acres of land he has a choice to either grow wheat or cotton on it.
- The limited land is a scarcity of the resource.
- The alternative crops wheat and cotton show how we have choices.
- To grow one of the two crops the other crop's production has to be sacrificed, this is the opportunity cost involved.

- Production Possibility Curve (PPC) gives a graphical representation of how two alternatives can be used in combination to achieve maximum satisfaction.



- The above PPC curve shows different possible points of attaining satisfaction.
- Points A and B give two different combinations. At point A, X8 and Y10 goods are produced and at point B X12 and Y7 goods are produced.
- To produce more of product X, Product Y is to be produced less this is seen at point B, X12 goods are produced only when good Y is decreased to Y7.
- This shows that more and more of good X is to be produced only when good Y is sacrificed at its place.
- A choice needs to be made as to what amount of a particular good can be produced to get the maximum satisfaction from the available resources.

Basic Assumptions:

1. Ceteris Paribus
2. Rationality

1.Ceteris Paribus:

- There are different economics variables and to understand that you have to first understand this term **"ceteris paribus"**
- This is latin phrase is generally used for saying **" All Other Things Being Equal".**
- If price-less =>demad –increased

- But no change in other things means: in taste, income of consumer, preference and government regulations…only two variables are varies price or quantity demand
- **Example:**

2. Rationality:

- Sometimes people act rationally while taking decision about particular goods.
- This means that consumer and producers measure & compare the costs & benefits of a decision before going ahead.
- Example: whether eating at home is cheaper than going to a restaurant; whether to train the existing workers or recruit new workers ; etc.
- However, it may be enjoyable to eat at restaurant; training existing workers may be costlier than hiring trained workers and so on..

- Thus, rationality involves making a choice that gives the greatest benefit relative to cost.
- All of economic theory rest on the assumption that both consumers & producers behave rationally; while firms aim at maximizing profit & minimizing cost, consumers aim at maximizing utility & minimizing sacrifice.
- So, rationality in decision making is **precondition** for attaining optimality under given constraints.

What is Economic Scope:

- The economic scope covers all the central issues faced by society, including economic decline and growth, poverty, unemployment, budgeting, etc.

Types of Economics Analysis:

- Economic analysis can be divided into following categories:

1. Micro & Macro
2. International Economics
3. Industrial Economics
4. Environmental Economics
5. Public

1. Micro & Macro

MicroEconomics:

- Micro economics is **the study of the behaviour of small economic units**, such as individual consumer, a seller, or a producer, a firm, or product.
- It focuses on the basic **theories of supply & demand** in individual markets (cars, food items, mobile phones etc.)
- We can say that, **microeconomics analyses** the market behaviour of individual consumers & firms , to take the decision.

MacroEconomics: (macro=>large)

- Macroeconomics deals with the **study of aggregates**.
- In macro economics we **study the industry as a unit** and not the firm.
- In macroeconomics we **talk about aggregate demand & aggregate supply, national income, employment etc...**
- Microeconomics deals at the firm's level & consider the decision making power of individual units whereas macroeconomics deals with the economy level & consider the impact of government policies on the aggregates like national income & employment.

International Economics:

- International economics is a **subfield within economics** .
- In other words, international economics is a field concerned with economic **interactions of countries** and effect of international issues on the world economic activity.
- As International economic relations differ from interregional economic relations (i.e., the economic relations among different parts of the same nation), international economics requires somewhat different tools of analysis.

Scope of International Economics

- The scope of international economics is wide as it involves various concepts, issues and theories

1. International trade theory:

- International trade theory **analyzes the basis and the gains from trade.**
- Theoretical international economics is grouped into two categories as:

(i) **Pure Theory of International Economics**

(ii) **Monetary Theory of International Economics**

i) Pure Theory of International Economics:

- The pure theory of international economics deals with trade patterns, impact of trade on production, rate of consumption, and income distribution.
- It involves **microeconomic** part of international economics.

ii) Monetary Theory of International Economics:

- The monetary theory of international economics is concerned with issues related to balance of payments and international monetary system.
- It involves **macroeconomic** part of international economics.

2. Descriptive International Economics:

- Descriptive International Economics deals with institutional environment in which international transactions take place between countries.
- Descriptive international economics also **studies issues related to international flow of goods and services and financial and other resources.**

3. International finance or open-economy macroeconomics:

- International Economics deals with international finance which **studies how capital flows between international** by applying **macroeconomic principles.**
- Areas that fall within the remit of international finance are:

(a)**Balance of payments:** The balance of payments measures a nation's total receipts from and the total payments to the rest of the world.

(b)**Foreign exchange markets:** Foreign exchange markets are the institutional framework for the exchange of one national currency for others.

4. International trade policy:

- International trade policy examines the reasons for and the effects of trade restrictions.
- The impact of various government restrictions on production, trade, consumption, and distribution of income are covered in the study of international economics.

5. International economic institutions:

- International Economics studies the functioning of various emerging international economic institutions, such as World Trade Organization (WTO), International Monetary Fund (IMF), United Nations Conference on Trade Development (UNCTAD) and World Bank.

6. Globalization:

- With the advent of globalization, there is a rapid increase in the free flow of goods and services, capital, labor and finance between nations.
- Globalization has led to increase in **employment opportunities,** International Competition and standardization of international economic laws and policies.
- Thus, the advent of globalization has widened the field of International Economics.

Subject : ADT- I (Java)

Class : T.Y. I.T (Sem-II)

Faculty Name : Prof. P.R. Patil

12/14/2023

UNIT-I
Introduction - JAVA

Presented by,
Prof. P. R. Patil

What is Java?

- Java is a general-purpose programming language
- Java was developed by James Gosling, Patrick Naughton, Chris Warth, Ed Frank, and Mike Sheridan at Sun Microsystems, Inc. in 1991.
- It **took 18 months to develop** the first working version.
- This language was initially called **"Oak,"** but was renamed **"Java"** in 1995.

- The original impetus/motivation/purpose for Java development was not the Internet!
- Instead, the primary motivation was the need for a platform-independent (that is, architecture-neutral) language that could be used to create software to be embedded in various consumer electronic devices, such as microwave ovens and remote controls.
- This second force was, of course, the **World Wide Web.**

JAVA &Internet

- The Internet helped catapult Java to be the forefront or lead programming language out of all programming.
- And also Java, in turn, had a profound/great effect on the Internet.
- Java innovated a new type of **networked program** called the **applet** that changed the way the online world.
- Java also addressed some of the difficult issues associated with the Internet: portability and security

Java Applets

- **An *applet*** is a special kind of **Java program** that is designed to be transmitted over the Internet and automatically executed by a Java-compatible web browser.
- Applets are intended to be small programs.
- They are typically used to display data provided by the server, handle user input, or provide simple functions.
- Before Java WWW was limited to display of still images & texts.
- With the help of Java WWW capable of supporting animation graphics, games and wide range of special effects.

1. Security

- every time you download a "normal" program, you are taking a risk, because the code you are downloading might contain a virus, Trojan horse, or other harmful code.
- For example, a virus program might gather private information, such as credit card numbers, bank account balances, and passwords, by searching the contents of your computer's local file system.
- for Java to enable applets to be downloaded and executed on the client computer safely, it was necessary to prevent an applet from launching such an attack.
- Java achieved this protection by limiting an applet to the Java execution environment and not allowing it access to other parts of the computer.

2. Portability

- Portability is a major aspect of the Internet because there are many different types of computers and operating systems connected to it.
- For example, in the case of an applet, the same applet must be able to be downloaded and executed by the wide variety of CPUs, operating systems, and browsers connected to the Internet.
- Means, the *same* code must work on *all* computers.
- This can be achieved by generating portable executable code.

- Here are browsers that do not support Java Applet any more:

1. Google Chrome
2. Firefox
3. Safari
4. Microsoft Edge
5. Opera

- **Difference between C and Java**

C	Java
C is a middle-level language.	Java is a high-level language.
C is a structural and procedure-oriented programming language.	Java is an object-oriented programming language.
It follows the top-down approach to design the application.	It follows the bottom-up approach to design the application.
It is a compiled language.	It is an interpreted language.
It is platform dependent.	It is platform-independent.
There are 32 keywords in C.	Java has 50 keywords.
It does not follow OOPs concepts.	It follows OOPs concepts.

- **Difference between C and Java**

C	Java
The file is saved with the extension .c.	The file is saved with the extension .java.
It is not secure.	It is fully secured language.
It supports the concept of the pointer.	It does not support the concepts of pointers because of security.
Exception handling is not present in C language.	Exception handling is present in Java.
It does not support inheritance.	It supports inheritance.

- **Difference between C++ and Java**

C++	Java
C++ is platform-dependent.	Java is platform-independent.
C++ is mainly used for system programming.	Java is mainly used for application programming. It is widely used in Windows-based, web-based, enterprise, and mobile applications.
C++ supports multiple inheritance.	Java doesn't support multiple inheritance through class. It can be achieved by using interfaces in java.
C++ supports operator overloading.	Java doesn't support operator overloading.
C++ supports both call by value and call by reference.	Java supports call by value only. There is no call by reference in java.

C++	Java
C++ supports structures and unions.	Java doesn't support structures and unions.
C++ uses compiler only. C++ is compiled and run using the compiler which converts source code into machine code so, C++ is platform dependent.	Java uses both compiler and interpreter. Java source code is converted into bytecode at compilation time. The interpreter executes this bytecode at runtime and produces output. Java is interpreted that is why it is platform-independent.

The Evolution of Java

1. Java1.0 & Java 1.1

- Java 1.0, the designers of Java had already created Java 1.1. The features added by Java 1.1

2. Java 2 (Java2SE):

- The next major release of Java was Java 2, where the "2" indicates **"second generation."**
- Java 2 added support for a number of new features, such as **Swing and the Collections Framework**, and it enhanced the Java Virtual Machine and various programming tools.

3. J2SE 1.3

- J2SE 1.3 was the first major upgrade to the original Java 2 release.

4. J2SE 1.4

- The release of J2SE 1.4 further enhanced Java.
- This release contained several important upgrades, enhancements, and additions. For example, it added the new keyword **assert**, chained exceptions, and a channel-based I/O subsystem.
- It also made changes to the Collections Framework and the networking classes.

5. J2SE 5

- J2SE 5 fundamentally expanded the scope, power, and range of the language.
- the following list of its major new features:

1. Generics
2. Annotations
3. Autoboxing and auto-unboxing
4. Enumerations
5. Enhanced, for-each style **for** loop
6. Variable-length arguments (varargs)
7. Static import
8. Formatted I/O
9. Concurrency utilities

6. Java SE 6

- First, notice that the **"2" was dropped**. Thus, the platform was now named Java SE, and the official product name was Java Platform, Standard Edition 6.
- It did enhance the API libraries, added several new packages, and offered Improvements to the runtime.

7. Java SE 7

- Java SE 7 was the next release of Java, with the Java Development Kit being called JDK 7, and an internal version number of 1.7.
- A list of the language features added by JDK 7:

1. A **String** can now control a **switch** statement.
2. Binary integer literals.
3. Underscores in numeric literals.
4. An expanded **try** statement.

8. Java SE 8

- The newest release of Java is Java SE 8, with the developer's kit being called JDK 8.
- JDK 8 represents a very significant upgrade to the Java language because of the inclusion of a far-reaching new language feature: the *lambda expression*.
- March 2023, **Java 20** is the latest released Java version. In September 2023, **Java 21** will follow.

The Java Buzzwords/ Features

1. Simple
2. Secure
3. Portable
4. Object-oriented
5. Robust
6. Multithreaded
7. Architecture-neutral
8. Interpreted
9. High performance
10. Distributed
11. Dynamic

1.Simple:

- If you already understand the basic concepts of object-oriented programming, learning Java will be even easier.
- Because Java inherits the C/C++ syntax and many of the object oriented features of C++.

2. Object Oriented

- Java is a true object-oriented programming language.
- Almost the "Everything is an Object" paradigm. All program code and data reside within objects and classes.
- The object model in Java is simple and easy to extend.

3. Secure:

- Java provides a "firewall" between a networked application and your computer.
- When a Java Compatible Web browser is used, downloading can be done safely without fear of viral infection or malicious intent.
- Java achieves this protection by confining a Java program to the Java execution environment and not allowing it to access other parts of the computer.

4. Robust

- It provides many features that make the program execute reliably in a variety of environments.
- Java is a strictly typed language. It checks code both at compile time and runtime.
- Java takes care of all memory management problems with garbage collection.
- Java, with the help of exception handling, captures all types of serious errors and eliminates any risk of crashing the system.

5. Architecture Neutral

- Java language and Java Virtual Machine helped in achieving the goal of **"write once; run anywhere, any time".**
- Changes and upgrades in operating systems, processors and system resources will not force any changes in Java Programs.

6. Dynamic:

- Before the development of Java, only static text was displayed in the browser. But using applet program, we can also create animation dynamically on the Internet.

7. Portable:

- Java is portable because of the Java Virtual Machine (JVM).
- The JVM is an abstract computing machine that provides a runtime environment for Java programs to execute.
- The JVM provides a consistent environment for Java programs to run on, regardless of the underlying hardware and operating system.
- This means that a Java program can be written on one device and run on any other device with a JVM installed, without any changes or modifications.

Subject - Database Engineering
Class - TY. (SEM-I)
Faculty Name - Ms. S. J. Chougule

Chapter 1: Introduction

Database System Concepts, 5th Ed

Chapter 1: Introduction

- Purpose of Database Systems
- Database Languages
- Relational Databases
- Database Design
- Data Models
- Database Internals
- Database Users and Administrators
- Overall Structure
- History of Database Systems

Database Management System (DBMS)

- DBMS contains information about a particular enterprise
  - Collection of interrelated data
  - Set of programs to access the data
  - An environment that is both convenient and efficient to use
- Database Applications:
  - Banking: all transactions
  - Airlines: reservations, schedules
  - Universities: registration, grades
  - Sales: customers, products, purchases
  - Online retailers: order tracking, customized recommendations
  - Manufacturing: production, inventory, orders, supply chain
  - Human resources: employee records, salaries, tax deductions
- Databases touch all aspects of our lives

Purpose of Database Systems

- In the early days, database applications were built directly on top of file systems
- Drawbacks of using file systems to store data:
  - Data redundancy and inconsistency
    - Multiple file formats, duplication of information in different files
  - Difficulty in accessing data
    - Need to write a new program to carry out each new task
  - Data isolation — multiple files and formats
  - Integrity problems
    - Integrity constraints (e.g. account balance > 0) become "buried" in program code rather than being stated explicitly
    - Hard to add new constraints or change existing ones

Purpose of Database Systems (Cont.)

- Drawbacks of using file systems (cont.)
  - Atomicity of updates
    - Failures may leave database in an inconsistent state with partial updates carried out
    - Example: Transfer of funds from one account to another should either complete or not happen at all
  - Concurrent access by multiple users
    - Concurrent accessed needed for performance
    - Uncontrolled concurrent accesses can lead to inconsistencies
      - Example: Two people reading a balance and updating it at the same time
  - Security problems
    - Hard to provide user access to some, but not all, data
- Database systems offer solutions to all the above problems

Levels of Abstraction

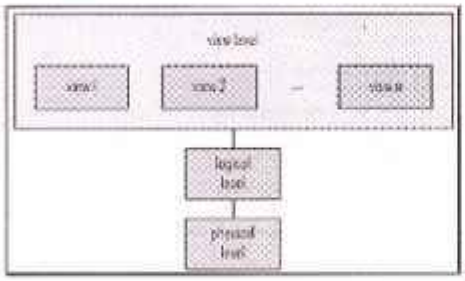
- Physical level: describes how a record (e.g., customer) is stored.
- Logical level: describes data stored in database, and the relationships among the data.

```
type customer = record
        customer_id : string;
        customer_name : string;
        customer_street : string;
        customer_city : string;
    end;
```

- View level: application programs hide details of data types. Views can also hide information (such as an employee's salary) for security purposes.

View of Data

An architecture for a database system



Instances and Schemas

- Similar to types and variables in programming languages
- **Schema** – the logical structure of the database
  - Example: The database consists of information about a set of customers and accounts and the relationship between them)
  - Analogous to type information of a variable in a program
  - **Physical schema**: database design at the physical level
  - **Logical schema**: database design at the logical level
- **Instance** – the actual content of the database at a particular point in time
  - Analogous to the value of a variable
- **Physical Data Independence** – the ability to modify the physical schema without changing the logical schema
  - Applications depend on the logical schema
  - In general, the interfaces between the various levels and components should be well defined so that changes in some parts do not seriously influence others

Data Models

- A collection of tools for describing
  - Data
  - Data relationships
  - Data semantics
  - Data constraints
- Relational model
- Entity-Relationship data model (mainly for database design)
- Object-based data models (Object-oriented and Object-relational)
- Semistructured data model (XML)
- Other older models
  - Network model
  - Hierarchical model

Data Manipulation Language (DML)

- Language for accessing and manipulating the data organized by the appropriate data model
  - DML also known as query language
- Two classes of languages
  - **Procedural** – user specifies what data is required and how to get those data
  - **Declarative (nonprocedural)** – user specifies what data is required without specifying how to get those data
- SQL is the most widely used query language

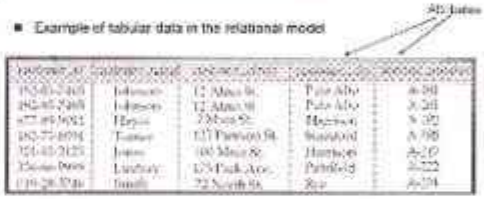
Data Definition Language (DDL)

- Specification notation for defining the database schema

  Example: `create table account (`
  `account_number char(10),`
  `branch_name char(10)`
  `balance integer)`
- DDL compiler generates a set of tables stored in a data dictionary
- Data dictionary contains metadata (i.e., data about data)
  - Database schema
  - Data storage and definition language
    - Specifies the storage structure and access methods used
  - Integrity constraints
    - Domain constraints
    - Referential integrity (e.g. *branch_name* must correspond to a valid branch in the *branch* table)
  - Authorization

Relational Model

- Example of tabular data in the relational model



Keys

- Let $K \subseteq R$
- K is a **superkey** of R if values for K are sufficient to identify a unique tuple of each possible relation $r(R)$
  - By "possible r" we mean a relation r that could exist in the enterprise we are modeling.
  - Example: {customer_name, customer_street} and {customer_name}

  are both superkeys of Customer, if no two customers can possibly have the same name.
    - In real life, an attribute such as customer_id would be used instead of customer_name to uniquely identify customers, but we omit it to keep our examples small, and instead assume customer names are unique.

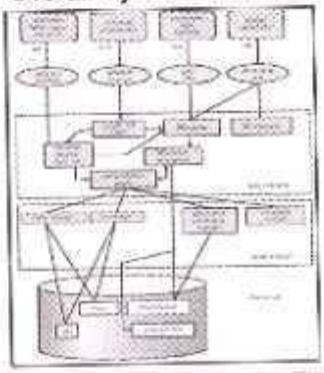
Keys (Cont.)

- K is a **candidate key** if K is minimal.
  Example: {customer_name} is a candidate key for Customer, since it is a superkey and no subset of it is a superkey.
- **Primary key**: a candidate key chosen as the principal means of identifying tuples within a relation
  - Should choose an attribute whose value never, or very rarely, changes.
  - E.g. email address is unique, but may change

Foreign Keys

- A relation schema may have an attribute that corresponds to the primary key of another relation. The attribute is called a **foreign key**.
  - E.g. customer_name and account_number attributes of depositor are foreign keys to customer and account respectively.
  - Only values occurring in the primary key attribute of the **referenced** relation may occur in the foreign key attribute of the **referencing** relation.

Overall System Structure



A Sample Relational Database

SQL

- SQL: widely used non-procedural language
  - Example: Find the name of the customer with customer-id 192-83-7465

```
select  customer.customer_name
from    customer
where   customer.customer_id = '192-83-7465'
```

  - Example: Find the balances of all accounts held by the customer with customer-id 192-83-7465

```
select  account.balance
from    depositor, account
where   depositor.customer_id = '192-83-7465' and
        depositor.account_number = account.account_number
```

- Application programs generally access databases through one of
  - Language extensions to allow embedded SQL
  - Application program interface (e.g., ODBC/JDBC) which allow SQL queries to be sent to a database

Database Design

The process of designing the general structure of the database

- Logical Design – Deciding on the database schema. Database design requires that we find a "good" collection of relation schemas.
  - Business decision – What attributes should we record in the database?
  - Computer Science decision – What relation schemas should we have and how should the attributes be distributed among the various relation schemas?
- Physical Design – Deciding on the physical layout of the database

Database Users

Users are differentiated by the way they expect to interact with the system

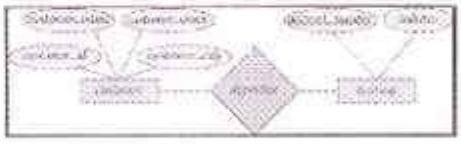
- Application programmers – interact with system through DML calls
- Sophisticated users – form requests in a database query language
- Specialized users – write specialized database applications that do not fit into the traditional data processing framework
- Naïve users – invoke one of the permanent application programs that have been written previously
  - Examples: people accessing database over the web, bank tellers, clerical staff

Database Administrator

- Coordinates all the activities of the database system
  - has a good understanding of the enterprise's information resources and needs.
- Database administrator's duties include:
  - Storage structure and access method definition
  - Schema and physical organization modifications
  - Granting users authority to access the database
  - Backing up data
  - Monitoring performance and responding to changes
    - Database tuning

The Entity-Relationship Model

- Models an enterprise as a collection of *entities* and *relationships*
  - Entity: a "thing" or "object" in the enterprise that is distinguishable from other objects
    - Described by a set of attributes
  - Relationship: an association among several entities
- Represented diagrammatically by an *entity-relationship diagram*:



Dr. J J Magdum Trust's (No. F/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur
Department of Information Technology

Value Added Program Summery

SR	Class	Year	Duration	Topic	No of student attended	Date
1	TY	2022-23	30Hr	Blockchain and web3	50	31/7/2023,4/8/2023,5/8/2023,6/8/2023,7/8/2023
2	SY	2023-24	30Hr	Python Programming,	65	3/11/2023,4/11/2023, 24/11-26/11/2023
3	B Tech	2023-24	30Hr	Spring Boot, Hibernate	60	5/11/2023,6/11/2023 – In process

Dept IQAC Co-ordinator

HOD

J.J.Magdum College of Engineering I.T. Dept

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Value added course

Dr. J. J. Magdum Trust's

Dr. J. J. Magdum College of Engineering, Jaysingpur.

Department of Information Technology

2023-24

Date: 26-07-2023

To,

The IQAC Head,

Dr. J. J. Magdum College of Engineering,

Jaysingpur.

Subject: permission for Value added course on Friday 4/8/2023.

Respected Sir/Madam,

We are organizing Value added course to TE students on " BlockChain Technology". For the same fee is charged Rs40,000 and it will start from 31 July 2023.Details of the course are attached with this.

We request you to give permission for the same.

Thanking you.

Mrs. A. S. Patil
VAP Coordinator

Dr. J. J. Magdum College of Engineering, Jaysingpur. I.T. Dept.

Mr. R. A. Bharatiya
Head of Department

Dr. J. J. Magdum Trust's

Dr. J. J. Magdum College of Engineering, Jaysingpur.

Department of Information Technology

2023-24

Date: 27-07-2023

To,

The Principal/Campus Director,

Dr. J. J. Magdum College of Engineering,

Jaysingpur.

Subject: Permission to take Value added course on Friday 4/8/2023.

Respected Sir/Madam,

We are organizing Value added course to TE students on "**Web3 and Blockchain**". For the same one working day(4/8/2023) require. We will run the same time table on 19/8/2023.

We request you to give permission for the same.

of 4/8/23

Details of the course are attached with this.

Thanking you.

Prof. Mrs. A. S. Patil

Prof. Mr. R. A. Bharativa
Head of Department

HOD, I.T.
Dr.J.J. Magdum College
of Engineering, Jaysingpur.

Recommended,

29/07/23

Dr. J. J. Magdum College of Engineering, Jaysingpur. I.T. Dept.

Apply for Web3 and Blockchain Training and Course Certificate Program

Course duration : 30hr

Course Domain : Web3 and Blockchain

Course Mode: Offline + Online [Hybrid]

Course Fee: ~~1800~~/- Per Student
1000 Arpan

What you will get :

- Certificate of Course completion
- Free Notes on every Topic from this Course and training
- Career guidance in Web3
- 3+ Project implementation
- Topic-wise problem solution

Syllabus :

- Web3
- Blockchain
- Solidity
- Web3.js
- Ether.js
- Ethereum
- Token
- NFT
- Smart contract
- Metaverse
- ERC 20
- ERC721

HOD, I.T.
Dr. J. J. Magdum College of Engineering, Jaysingpur.

Dr. J. J. Magdum College of Engineering, Jaysingpur. I.T. Dept.

Date:-

Schedule of Course

Date	Time	Mode of teaching
31/7/2023	7pm to 8.30pm	online
1/8/2023	7pm to 8.30pm	online
2/8/2023	7pm to 8.30pm	online
3/8/2023	7pm to 8.30pm	online
4/8/2023	9.30am to 4.30pm	offline
5/8/2023	9.30am to 4.30pm	offline
6/8/2023	9.30am to 4.30pm	offline
7/8/2023	7pm to 8.30pm	online
8/8/2023	7pm to 8.30pm	online

HOD, I.T.
Dr.J.J. Magdum College of Engineering, Jaysingpur.

Dr. J. J. Magdum College of Engineering, Jaysingpur • I.T. Dept.

Name of resource person: Ms. Kalyani Dudhekar

Solidity and Python Developer

Dr. J. J. Magdum Trusts

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

Class - TY Btech A.Y.2023-24

Attendance of Value added course if Value added course

Date:-4/8/2023

New Roll no.	Name of Student	Session I	Session II	Session III
1	ATIGRE PRATHAM UMAJI			
10001- 2	BHOSALE RAJVARDHAN VIJAY			
0001- 3	BHOSALE SAHIL ARVIND			
10001- 4	CHAVAN AKSHAY DAYANAND			
5	CHIKHALKAR SHRIHARI SANDIP			
6	CHOUGALE KETAN BABASO	-		
7	CHOUGULE AJAY SHIVAJI	-		
8	DALAVI SWAPNIL ANANDA	-		
10001-9	*DESAI SALONI DILIP			
10	DESHMANE SHREYASH SHRIKANT			
11	DIVATE ATHARV ASHOK	-		
12	*DOMANE SAKSHI YUVARAJ			
13	DUDHAL VIJAY SUNIL			
10001-14	*FAKIR MUSKAN MAKBUL			
15	*GAIKWAD KALYANI AMOL			
16	GAIKWAD SHREYASH SANTOSH	-		
17	GAVHANE ARYAN VIKAS			
18	GUJAR SHREYASH ANAND			
19	*GURAV SIDDHI DILIP			
10001- 20	*HONGEKAR ANJALI NANDKUMAR			
21	HULWAN SHANTANU JAYDEEP			
22	*INDALKAR ANTARI SHIVAJI	-		
23	INGOLE RAVIRAJ NAMDEO			
24	JADHAV SANKET SHIVAJI			
25	JADHAV SHIVAM SANJAY	-		
26	JARAG DNYANESHWAR SAMBAJI			
10001-27	KAJI SAHIL SHABBIR			
28	KALE AVISHKAR BHARAT	-		
29	KATKAR AYUSH EKNATH	-		
30	KHADE PRATIK TANAJI	-		

Present in (3)

Dr. J. J. Magdum College of Engineering, Jaysingpur I.T. Dept.

31	*KHALATE SAMIDHA PRAMOD	—		
32	*KOLEKAR SAKSHI AJIT	[signature]	[signature]	[signature]
33	KUNDEKAR BHARAT UTTAM	[signature]	[signature]	[signature]
34	LANJEWAR PALASH NAGSEN	—		
35	*LAYKAR AMRUTA CHANDRAKANT	[signature]	[signature]	[signature]
36	MAGDUM ABHISHEK SHANKAR	[signature]	[signature]	[signature]
37	*MANE AVANTIKA AJAY	A.Amane	A.Amane	A.Amane
38	*MANE GOURI GANESH	[signature]	[signature]	[signature]
39	MANE KIRAN VILAS	—		
40	*MANE PRERANA ASHOK	—		
41	*MANE SHREYA DINKAR	[signature]	[signature]	[signature]
42	MANE UTKARSH DILIP	—		
43	MOHITE SUYOG SUNIL	—	—	
44	NIKAM MAHADEV PANDURANG	—		
45	NILKANTH ANSHUL UMESH	—		
46	*PATHAN SHAHIN HAKEEMASAB	[signature]	[signature]	
47	PATIL ADITYA RAVSAHEB	[signature]	[signature]	
48	*PATIL ARJU ASHOK	Patil	[redacted] X	Patil
49	PATIL AVINASH PANDURANG	[signature]	[signature]	[signature]
50	PATIL JINENDRA RAVINDRA	[signature]		
51	PATIL MAHESH CHANDRAKANT	M.patil	M.Patil	
52	*PATIL SAMARTHA AJIT	Patil	Patil	Patil
53	PATIL SAMMED GUNDHAR	[signature]	[signature]	[signature]
54	PATIL SAMMED SHANTINATH	[signature]		
55	PATIL SAMRUDDH DATTATRAY	—		
56	*PATIL SANIKA UTTAM	—		
57	*PAWAR SHRADDHA TANAJI	—		
58	*PHALLE ASMITA RAMESH	Phalle	Phalle	Phalle
59	*POWAR PALLAVI TANAJI	[signature]	[signature]	[signature]
60	RAUT PRATHAMESH PRASHANT	—		
61	SANADI SOHEL SALIM	—		
62	*SANGALE AISHWARYA PRAKASH	[signature]	[signature]	
63	*SHAIKH AYESHASIDDIQA MEHBOOB	—	Shaikh	Shaikh
64	SHINDE OMKAR MADHUKAR	[signature]	[signature]	
65	SHINDE PRATHMESH RAVINDRA	—		

56	*SHINDE VAISHNAVI SANJAY			
57	THORAT RAJVARDHAN DHANAJIRAO			
68	*VASUDEV PRADNYA SUNIL			
69	*WANKAR MUSKAN AMIR			
70	YADAV SWARUP MAHADEV	—		

Dr. J. J. Magdum Trusts

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

Class - TY Btech A.Y.2023-24

Attendance of Value added course of Value added course

Date: 5/8/2023

New Roll no.	Name of Student	Session I	Session II	Session III
1	ATIGRE PRATHAM UMAJI			
2	BHOSALE RAJVARDHAN VIJAY			
3	BHOSALE SAHIL ARVIND			
4	CHAVAN AKSHAY DAYANAND			
5	CHIKHALKAR SHRIHARI SANDIP			
6	CHOUGALE KETAN BABASO			
7	CHOUGULE AJAY SHIVAJI			
8	DALAVI SWAPNIL ANANDA			
9	*DESAI SALONI DILIP	Desai.	Desai.	Desai
10	DESHMANE SHREYASH SHRIKANT			
11	DIVATE ATHARV ASHOK			
12	*DOMANE SAKSHI YUVARAJ	S.Y.Do...	S.Y.Domane	S.Y.Domane
13	DUDHAL VIJAY SUNIL	Dudhal.	Dudhal	Dudhal
14	*FAKIR MUSKAN MAKBUL	Fakir	Fakir	Fakir
15	*GAIKWAD KALYANI AMOL	Kalyani	Kalyani	Kalyani
16	GAIKWAD SHREYASH SANTOSH			
17	GAVHANE ARYAN VIKAS			
18	GUJAR SHREYASH ANAND			
19	*GURAV SIDDHI DILIP	Siddhi	Siddhi	Siddhi
20	*HONGEKAR ANJALI NANDKUMAR	Anjali.	Anjali	Anjali.
21	HULWAN SHANTANU JAYDEEP	Shantanu	Shantanu	Shantanu
22	*INDALKAR ANTARI SHIVAJI	Indalkar	Indalkar	
23	INGOLE RAVIRAJ NAMDEO			
24	JADHAV SANKET SHIVAJI			
25	JADHAV SHIVAM SANJAY			
26	JARAG DNYANESHWAR SAMPAT			
27	KAJ SAHIL SHABBIR	Sahil	Sahil	Sahil
28	KALEL AVISHKAR BHARAT			
29	KATKAR AYUSH EKNATH			
30	KHADE PRATIK TANAJI			

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31	*KHALATE SAMIDHA PRAMOD			
32	*KOLEKAR SAKSHI AJIT			
33	KUNDEKAR BHARAT UTTAM			
34	LANJEWAR PALASH NAGSEN			
35	*LAYKAR AMRUTA CHANDRAKANT			
36	MAGDUM ABHISHEK SHANKAR			
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38	*MANE GOURI GANESH			
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44	NIKAM MAHADEV PANDURANG			
45	NILKANTH ANSHUL UMESH			
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47	PATIL ADITYA RAVSAHEB			
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56	*PATIL SANIKA UTTAM			
57	*PAWAR SHRADDHA TANAJI			
58	*PHALLE ASMITA RAMESH			
59	*POWAR PALLAVI TANAJI			
60	RAUT PRATHAMESH PRASHANT			
61	SANADI SOHEL SALIM			
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63	*SHAIKH AYESHASIDDIQA MEHBOOB			
64	SHINDE OMKAR MADHUKAR			
65	SHINDE PRATHMESH RAVINDRA			

66	*SHINDE VAISHNAVI SANJAY	Shinde	Shinde	Shinde
67	THORAT RAJVARDHAN DHANAJIRAO			
68	*VASUDEV PRADNYA SUNIL	Vasudev		
10001 – 69	*WANKAR MUSKAN AMIR	Wankar		
70	YADAV SWARUP MAHADEV			

Dr. J.J. Magdum College of Engineering, Jaysingpur
I.T. Dept.

Dr. J.J. Magdum College of Engineering, Jaysingpur
I.T. Dept.

Certificate of Completion

This Certificate is Proudly Awarded to

Domane Sakshi Yuvaraj

For Successfully completing the ~~Internship~~/~~Industrial Training~~/Course in **WEB3 DEVELOPMENT,** on offline mode for the period of 1 **MONTHS** / ~~WEEKS~~. Conducted by **Xresilient, Pune .**

Date : 01/08/23 to 31/08/23

Xresilient
PUNE

FOUNDER & CEO

Certificate of Completion

This Certificate is Proudly Awarded to

Deshmane Sheeyash Shrikant

For Successfully completing the ~~Internship~~/~~Industrial Training~~/Course in **WEB3 DEVELOPMENT,** on offline mode for the period of 1 **MONTHS** / ~~WEEKS~~. Conducted by **Xresilient, Pune**.

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This Certificate is Proudly Awarded to

Chikhalkar Shrihari Sandip

For Successfully completing the ~~Internship~~/~~Industrial Training~~/Course in **WEB3 DEVELOPMENT,** on offline mode for the period of 1 **MONTHS** / ~~WEEKS~~. Conducted by **Xresilient, Pune .**

Date : 01/08/23 to 31/08/23

Xresilient
PUNE

FOUNDER & CEO

Certificate of Completion

This Certificate is Proudly Awarded to

Chavan Akshay Payanand

For Successfully completing the ~~Internship~~/~~Industrial Training~~/Course in **WEB3 DEVELOPMENT,** on offline mode for the period of 1 **MONTHS** / ~~WEEKS~~. Conducted by **Xresilient, Pune .**

Date : 01/08/23 to 31/08/23

Xresilient
PUNE

FOUNDER & CEO

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Scanned with CamScanner

Certificate of Completion

This Certificate is Proudly Awarded to

Bhosale Sahil Arvind

For Successfully completing the ~~Internship~~/~~Industrial Training~~/Course in **WEB3 DEVELOPMENT,** on offline mode for the period of 1 **MONTHS** / ~~WEEKS~~. Conducted by **Xresilient, Pune .**

Date : 21/08/23 to 31/08/23

Xresilient
PUNE

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

SXT IT SOLUTIONS

FOUNDER & CEO

Certificate of Completion

This Certificate is Proudly Awarded to

Adigoe Peatham Umaji

For Successfully completing the ~~Internship~~/~~Industrial Training~~/Course in **WEB3 DEVELOPMENT,** on offline mode for the period of 1 **MONTHS** / ~~WEEKS~~. Conducted by **Xresilient, Pune**.

Date: 01/08/23 to 31/08/23

Xresilient
PUNE

SKT IT SOLUTIONS

FOUNDER & CEO

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Industrial Visit

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

Summery of Industrial Visit Details

Sr.No	Activities Details	Date/Duration	Target Audience	No. of Students	Name of Faculty members
2021-22					
1	Domain Computer System, Sangli	13th Dec,2021	SY	45	Prof. S.J.Chougule
		15th Dec,2021	TY	70	Prof. S.J.Chougule
		16th Dec,2021	B tech	78	Prof. S.J.Chougule
2	Industrial Visit to t Cognition Inc., Kolhapur	23th March,2022	TY	39	Prof.P.A.Tamgave, Prof.R.C.Patil
2022-23					
1	Domain Computer System, Sangli	20th Oct,2022	TY	50	Prof.S.B.Holkar, Prof.P.A.Tamgave,
2	Industrial Visit to t Cognition Inc., Kolhapur	11th Nov,2022	SY	55	Prof.S.B.Holkar Prof. S.J.Chougule Prof.A.G.Chendake
			TY	56	

Industrial Visit Co-ordinator

Prof. S.B.Holkar

Academic Co-ordinator

Prof.J.T.Patil

HOD-IT

Prof. R.A.Bhartiya

Dr. J.J. Magdum College of Engineering, Jaysingpur I.T. Dept.

Dr. J.J. Magdum College of Engineering, Jaysingpur I.T. Dept.

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

Date: 9/11/2022

To,
The Principal,
Dr. J. J. Magdum College of Engineering,
Jaysingpur.

Subject: - Regarding permission for Industrial Visit.

Respected Mam,

We, from Information Technology Department of Dr. J. J. Magdum College of Engineering, Jaysingpur, are willing to organize Industrial Visit for SY and TY students of our department to a software company in Kolhapur on 11th November 2022. Our students will get knowledge about subject like Programming language, Networking & Operating system. This visit will be very helpful and beneficial to our students and academics.

Industrial Visit details:

Company Name: tCognition Inc., Kolhapur

Location: Kolhapur InfoTech Park,
Opp. Jayaprabha Studios,
Kolhapur, Maharashtra 416012

Date: 11th November 2022

So, we request you to allow us to visit as per the above mentioned date and provide college bus.

Thanking You.

S.B.Holkar

Prof. Mrs. S. B. Holkar
Industrial Visit In-charge
IT Dept.

Dr. J. J. Magdum College of Engineering, Jaysingpur
I.T. Dept.

Prof. Mr. R. A. Sanadi
Head of Department,
IT Dept.

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

Recommitted,
09/11/22

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

Date: 9/11/2022

To,
The Principal,
Dr. J. J. Magdum College of Engineering,
Jaysingpur.

Subject: - Regarding Bus facility for Industrial Visit.

Respected Madam,

I Prof. S.B.Holkar looking after the industrial visit coordinator of IT department. We have planned to visit the company name tCognition Inc., Kolhapur. So that students of second and third year can get knowledge about subject like Programming language, Networking& Operating system. For the same we need bus facility on 11th November 2022. The student count is 135.

Industrial Visit details:

Company Name: tCognition Inc., Kolhapur

Location: Kolhapur InfoTech Park,
Opp. Jayaprabha Studios,
Kolhapur, Maharashtra 416012

Date: 11th November 2022

Day: Wednesday

Total Students: 135

Faculty: 03

Prof.S.B.Holkar, Prof.A.G.Chendke, Prof.S.J.Chougule

So, we request you to permit us for the same.

Thanking You.

Prof. S.B.Holkar
Industrial Visit In-charge
IT Dept.

Dr. J. J. Magdum College of Engineering, I.T. Dept.

Prof. Mr. R. A. Sanadi
Head of Department,
IT Dept.

Dr. J. J. Magdum College of Engg. Jaysingpur Department of Information Technology

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.
Department of Information Technology
2022-23

Industrial visit : t Cognition **Date: 11/11/2022**

To,
The HR Manager,
tCognition Inc., Kolhapur

Subject: Requesting permission to visit **t Cognition Inc., Kolhapur.**

Dear Sir/Madam,

Our institute Dr. **J. J. Magdum College of Engineering, Jaysingpur Dist :Kolhapur** is leading educational institute offering four year degree courses in different engineering streams.

Department of IT is planning for industrial visit for our students as an academic part related to their syllabus. Students have subject Programming language, Networking &Operating System.

For same, we wish to visit **t Cognition Inc., Kolhapur** to see working environment & practical approach and to know new technologies used. We expect you will guide our students for betterment of their knowledge & career.

Details:

College name: Dr. J.J. Magdum College of Engineering, Jaysingpur, Dist: Kolhapur

College website: www.jjmcoe.org

Number of students for visit: 135

Number of Faculties for visit:03

Prof.S.B.Holkar, Prof.A.G.Chendke, Prof.S.J.Chougule

Expected Date of visit:11TH Nov, 2022

Time: 11:00 am at visit place

So, I request you to consider this & allow our students to visit your reputed organization.

Thanking you.

Prof. Mrs. S.B.Holkar
Coordinator
Industrial visit, IT

Dr. J. J. Magdum College of Engineering, Jaysingpur. I.T. Dept.

Prof. Mr. R. A. Sanadi
H.O.D.
IT Department

Dr. J. J. Magdum College of Engg. Jaysingpur. Department of Information Technology Jaysingpur. 416101

Visited

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

Date: 9/11/2022

NOTICE

All the SY,TY students of IT department are hereby informed that, the industrial visit is organized on 11th **November, 2022to t Congnition Inc., Kolhapur.** This is Software Company in Kolhapur & visit will be very helpful and beneficial to students and academics. All SY, TY students take benefit of it. So, It is mandatory to all students to attend the visit.

Prof. Mrs.S.B.Holkar
Industrial Visit In-charge
IT Dept.

Prof. Mr. R. A. Sanadi
Head of Department,
IT Dept.

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

Dr. J.J. Magdum College of Engineering
I.T. Dept.

Industrial Visit tCognition Inc., Kolhapur (11/11/ 2022 SY,TY-IT)

Dr. J. J. Magdum College of Engineering, Jaysingpur
I.T. Dept.

Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.
Department of Information Technology
2022-23

Industrial visit : i Cognition **Date: 11/11/2022**

TY(IT) Student Roll No. List

Roll No.	Name of student	Signature
1	BHUSNAR SANGRAMSINH KANTILAL	
2	DANDAVATE BHUSHAN SADASHIV	
3	DESAI SHUBHAM BHIMGONDA	
4	GAIKWAD VAIBHAVI VINOD	
5	JAMBHALE AVANTIKA JANARDAN	
6	KALE AISHWARYA SUBHASH	
7	KAMBLE PURUSHOTTAM SANJAY	
8	KASAR SWACCHAND SAMBHAJI	
9	KHEDEKAR SUDIKSHA GAJANAN	
10	KHOT SHWETA DHANANJAY	
11	KOLAPE YASHODA TUKARAM	
12	MANKAR MANALI RAJENDRA	
13	PATIL PRATIKSHA CHANDRAKANT	
14	PATIL SARVESH AVINASH	
15	PINJARI OMKAR DAGADU	
16	POWAR SUYOG SHIVAJI	
17	SALUNKHE SHITAL SANJAY	
18	SANT MAYURI DEVANAND	
19	SATAPE PRATIKSHA BALASO	
20	VHANKHANDE PRAJAKTA RAMESH	
21	SUTAR SWALIHA INYATULLA	
22	SHINDE VARAD SUDARSHAN	
23	YEWATE GANESH GOVIND	
24	ABRANGE SWAPNIL KIRAN	
25	AITWADE PRATHMESH PRADEEP	
26	BANDI ANA RAJU	
27	BANSODE ANJALI PRAKASH	
28	BIRNALE KIRTIKUMAR ASHOK	
29	CHAVAN AISHWARYA VILAS	
30	CHOUDHARI SIDDHANT SACHIN	
31	CHOUGULE ANAND DILIP	
32	DHAKANE JYOTI SUDHAKAR	
33	DHAVALE OM	
34	DHOKALE AJAY DHANANJAY	
35	FASE SAMRUDDHI DEVIDAS	
36	GURAV PRATHMESH GANPATI	
37	HARGUDE SAKSHI SHARAD	
38	HULLE ABHIJIT PADAPPA	
39	INGALE ASHWINI RAMESH	
40	JADHAV SHIVAM RAMCHANDRA	
41	KADAM PREETI JALINDAR	
42	KAMBLE HARSHVARDHAN	

Dr. J. J. Magdum College of Engineering, I.T. Dept.

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

	JAYKUMAR	
43	KAMBLE HRUSHIKESH DEEPAK	
44	KHANAJ NEHA ULHAS	
45	KORE SAKSHI MOHAN	
46	KOTHARI SHRAYSH NILESH	
47	KUMBHAR SANKET SANJAY	
48	LAD VAISHNAVI VISHWAS	
49	LOHAR ANURADHA MARUTI	
50	MAGDUM RUSHIKESH JAYKUMAR	
51	MAKANDAR AJEEM ANISKHAN	
52	MANE PRATIKSHA PRAVIN	
53	METHE SONAL VIJAY	
54	MHETRE VINAYAK SADASHIV	
55	MOHITE SAINATH VILAS	
56	MORE ABHIJEET VENKATRAO	
57	PAKHARE SWAPNIL ANIL	
58	PARIT PRADEEP MAHADEV	
59	PATIL ADITYA	
60	PATIL POURNIMA PANDURANG	
61	PATIL SAKSHI RAJENDRA	
62	PATIL SAKSHI SANJAY	
63	PATIL SAYALI RAJARAM	
64	PATIL SNEHA GANPATI	
65	PATIL SUBHOD RAVINDRA	
66	PETHKAR RUSHABH MANISH	
67	PETHKAR SOURABH GIRISH	
68	PISE GOURI ARUN	
69	PUJARI SHUBHANGI RAJESH	
70	SAVAIKAR SAMRUDDHI SHRIHARI	
71	SHAIKH AFTAB FIROJKHAN	
72	TODKAR VAIBHAV DEVBA	
73	YADAV RUCHITA BHARAT	
74	YALGUDRE ANIRUDDHA PARSHURAM	
75	AINAPURE RAJKUMAR	
76	PATIL RUSHABH	
78	KAMBLE YOGESH	

Total no. of students = 56

S.B.Holkar.

Industrial visit Co-ordinator

Prof.S.B.Holkar

Dr. J. J. Magdum College of Engineering, Jaysingpur
I.T. Dept.

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.
Department of Information Technology
2022-23

Industrial visit : t Cognition **Date: 11/11/2022**

SY(IT) Student Roll No. List

Roll No.	Name of student	Signature
1	AtigrePrathamUmaji	
2	ChavanAkshayDayanand	
3	Chougule Ajay Shivaji	
4	DalaviSwapnilAnanda	
5	Desai SaloniDilip	
6	DeshmaneShreyashShrikant	
7	DivateAtharv Ashok	
8	Fakir MuskanMakbul	
9	GaikwadKalyaniAmol	
10	Gavhane Aryan Vikas	
11	HulwanShantanuJaydeep	
12	IndalkarAntariShivaji	
13	IngoleRavirajNamdeo	
14	JadhavSanketShivaji	
15	JadhavShivam Sanjay	
16	KalelAvishkar Bharat	
17	KamblcAdityaRaju	
18	KatkarAyushEknath	
19	Khade Pratik Tanaji	
20	KhalateSamidhaPramod	
21	KolekarSakshiAjit	
22	Kundekar Bharat Uttam	
23	LanjewarPalashNagsen	
24	LaykarAmrutaChandrakant	
25	MagdumAbhishek Shankar	
26	Mali SejalSandip	
27	Mane Kiran Vilas	
28	Mane Prerana Ashok	
29	Mane UtkarshDilip	
30	MohiteSuyog Sunil	
31	Mulla Ayesha SiddikaTajuddin	
32	NikamMahadevPandurang	
33	NilkanthAnshulUmesh	
34	PathanShahinHakeemasab	
35	PatilAdityaRavsaheb	
36	PatilArju Ashok	
37	PatilAvinashPandurang	
38	PatilJinendraRavindra	
39	Patil Mahesh Chandrakant	
40	PatilSammedShantinath	
41	PatilSamruddhDattatray	
42	PatilSanikaUttam	

Dr. J. J. Magdum College of Engineering, Jaysingpur I.T. Dept.

Dr. J. J. Magdum College of Engg. Jaysingpur Department of Information Technology Jaysingpur - 416101

43	PawarShraddhaTanaji	
44	PowarPallaviTanaji	
45	RautPrathameshPrashant	
46	RautSitaramRajaram	
47	SanadiSohelSalim	
48	SangaleAishwaryaPrakash	
49	ShaikhAyeshasiddiqaMehboob	
50	ShindeOmkarMadhukar	
51	ShindePrathmeshRavindra	
52	ShindeVaishnavi Sanjay	
53	ThoratRajvardhanDhanajirao	
54	WankarMuskan Amir	
55	YadavSwarupMahadev	
56	BhosaleRajvardhan Vijay	
57	BhosaleSahilArvind	
58	ChouguleKetanBabaso	
59	DomaneSakshiYuvraj	
60	Dudhal Vijay Sunil	
61	GujarShreyashAnand	
62	JaragDnyaneshwarSampat	
63	KajiSahilShabbir	
64	Mane Gouri Ganesh	
65	PatilSamarthaAjit	
66	PhalleAsmita Ramesh	

Total no. of students = 55

Industrial visit Co-ordinator

Prof.S.B.Holkar

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

Dr. J. J. Magdum College of Engineering
I.T. Dept.

THE UNDERTAKEN BY THE STUDENT AND PARENT /GUARDAIN

To,

Date:10/11/2022

The Principal,

Dr. J. J. Magdum College of Engineering,

Jaysingpur.

Subject: Regarding permission for Industry Visit to t Cognition Inc., Kolhapur.

Respected Sir,

I Shri./Kum Omkar Madhukar Shinde undersigned, a student of Second year ,IT ,Roll No 50 at this college. I am participating in the **t Cognition Inc., Kolhapur** arranged by Information Technology department. I am proceeding on this at my own risk and I understand that in case of any untoward incidence neither the staff accompanying us nor the institute will be responsible for the damages or losses therein. I undertake to abide by the rule and instructions given by the Head of Department and visit in charge.

(Signature of the student)

I,Shri/Smt. Madhukar Dattu Shinde declare that my son/daughter/ward is proceeding on Industry tour to **t Cognition Inc., Kolhapur on11th November, 2022**and allow him/her to travel by the rail/private hired vehicle. I have no objection to travel hired vehicle. I am fully aware that my ward is proceeding in tour on his/her own risk, and neither the institute nor the staff members will be responsible for any damage or accident that may cause to him/her during the course of the tour. My ward will be have in well-disciplined manner, and abide by the rules and instructions given by the Head of Department and visit in-charge.

J.J. Magdum College of Engineering, Jaysingpur I.T. Dept.

(Signature of Parent/Guardian)

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

Date: 19/10/2022

To,
The Principal,
Dr. J. J. Magdum College of Engineering,
Jaysingpur.

Subject: - Regarding permission for Industrial Visit.

Respected Sir/Mam,

We are from Information Technology Department of Dr. J. J. Magdum College of Engineering, Jaysingpur, are willing to organize Industrial Visit for TY students of our department to a software company in Sangli on 20th October 2022. We need 2 college bus for this visit. Our students will get knowledge about subject like Programming language, Networking & Operating system. This visit will be very helpful and beneficial to our students and academics.

Industrial Visit details:

Company Name : Domain Computer Education, Sangli.

Location: Domain Computer Education, 2nd floor Balaji Celebration ,
Above SVC bank , Ganpati mandir road, Vishrambag ,Sangli

Date: 20th October, 2022

So, we request you to allow us to visit as per the above mentioned date and provide college bus.

Thanking You.

Prof. Mrs .S. B. Holkar
Industrial Visit In-charge
IT Dept.

Dr. J. J. Magdum College of Engg. I.T. Dept.

Prof. Mr. R. A. Sanadi
Head of Department,
IT Dept.

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

To
Reg
Kindly arrange.
19/10/22

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

Date: 19/10/2022

To,
The Principal,
Dr. J. J. Magdum College of Engineering,
Jaysingpur.

subject: - Regarding Bus facility for Industrial Visit.

Respected Sir,

I Prof. S.B.Holkar looking after the industrial visit coordinator of IT department. We have planned to visit the company name Domain Computer Education, Sangli. So that students of third year can get knowledge about subject like Programming language, Networking& Operating system. For the same we need bus facility (2) on 20th October , 2022. The student count is 77.

Industrial Visit details:

Company Name: Domain Computer Education, Sangli.

Location: Domain Computer Education,2nd floor Balaji Celebration ,
Above SVC bank ,Ganpati mandir road, Vishrambag ,Sangli

Date: 20th October , 2022

Day: Thursday

Total Students: 77

Faculty: 02

Prof. S.B.Holkar, Prof. P.A.Tangave

So, we request you to permit us for the same.

Thanking You.

Dr. J. J. Magdum College of Engineering I.T. Dept.

Prof. Mrs.S.B.Holkar
Industrial Visit In-charge
IT Dept.

Prof. Mr. R. A. Sanadi
Head of Department.
IT Dept.

Dr. J. J. Magdum College of Engineering Department of Information Technology

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

Date: 20/10/2022

To,
The HR Manager,
Domain Computer Education, Sangli

Subject: Requesting permission to visit **Domain Computer Education, Sangli.**Dear

Sir/Madam,

Our institute **Dr. J. J. Magdum College of Engineering, Jaysingpur Dist:Kolhapur** is leading educational institute offering four year degree courses in different engineering streams.

Department of IT is planning for industrial visit for our students as an academic part related to their syllabus. Students have subject Programming language, Networking &Operating System.

For same, we wish to visit **Domain Computer Education, Sangli** to see working environment & practical approach and to know new technologies used. We expect you will guide our students for betterment of their knowledge & career.

Details:

College name: Dr. J.J. Magdum College of Engineering, Jaysingpur, Dist: Kolhapur

College website: www.jjmcoe.org

Number of students for visit: 77

Number of Faculties for visit:02

Prof. S.B.Holkar, Prof. P.A.Tamgave

Expected Date of visit:20th October, 2022

Time: 2:00 pm at visit place

So, I request you to consider this & allow our students to visit your reputed organization.

Thanking you.

Prof. Mrs.S.B.Holkar
Coordinator
Industrial visit, IT

Prof. Mr. R. A. Sanadi
H.O.D.
IT Department

Dr. J.J. Magdum College of Engineering I.T. Dept.

Dr. J.J. Magdum College of Engineering Department of Information Technology Jaysingpur - 416101

DOMAIN COMPUTER EDUCATION

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

Date: 19/10/2022

NOTICE

All the TY students of IT department are hereby informed that, the industrial visit is organized on **20th October, 2022 to Domain Computer Education, Sangli.**.This is Software Company in Sangli & visit will be very helpful and beneficial to students and academics. All TY students take benefit of it. So, It is mandatory to all students to attend the visit.

Prof. Mrs.S.B.Holkar
Industrial Visit In-charge
IT Dept.

Dr. J. J. Magdum College of Engineering
I.T. Dept.

Prof. Mr. R. A. Sanadi
Head of Department,
T Dept.

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

DR. J. J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR
DEPARTMENT OF INFORMATION TECHNOLOGY

T.Y. B.Tech. 2022-23

Attendence for Industrial Visit

Venue- Domain Computer Education,Sangli Date-20/10/2022

Roll No.	Name of Student	Sign
1	BHUSNAR SANGRAMSINH KANTILAL	
2	DANDAVATE BHUSHAN SADASHIV	
3	DESAI SHUBHAM BHIMGONDA	
4	GAIKWAD VAIBHAVI VINOD	
5	JAMBHALE AVANTIKA JANARDAN	
6	KALE AISHWARYA SUBHASH	
7	KAMBLE PURUSHOTTAM SANJAY	
8	KASAR SWACCHAND SAMBHAJI	
9	KHEDEKAR SUDIKSHA GAJANAN	
10	KHOT SHWETA DHANANJAY	
11	KOLAPE YASHODA TUKARAM	
12	MANKAR MANALI RAJENDRA	
13	PATIL PRATIKSHA CHANDRAKANT	
14	PATIL SARVESH AVINASH	
15	PINJARI OMKAR DAGADU	
16	POWAR SUYOG SHIVAJI	
17	SALUNKHE SHITAL SANJAY	
18	SANT MAYURI DEVANAND	
19	SATAPE PRATIKSHA BALASO	
20	VHANKHANDE PRAJAKTA RAMESH	
21	SUTAR SWALIHA INYATULLA	
22	SHINDE VARAD SUDARSHAN	
23	YEWATE GANESH GOVIND	
24	ABRANGE SWAPNIL KIRAN	
25	AITWADE PRATHMESH PRADEEP	
26	BANDI ANA RAJU	
27	BANSODE ANJALI PRAKASH	
28	BIRNALE KIRTIKUMAR ASHOK	
29	CHAVAN AISHWARYA VILAS	
30	CHOUDHARI SIDDHANT SACHIN	
31	CHOUGULE ANAND DILIP	
32	DHAKANE JYOTI SUDHAKAR	
33	DHAVALE OM	
34	DHOKALE AJAY DHANANJAY	
35	FASE SAMRUDDHI DEVIDAS	
36	GURAV PRATHMESH GANPATI	
37	HARGUDE SAKSHI SHARAD	

Magdum College of Engineering I.T. Dept.

38	HULLE ABHIJIT PADAPPA	
39	INGALE ASHWINI RAMESH	
40	JADHAV SHIVAM RAMCHANDRA	
41	KADAM PREETI JALINDAR	
42	KAMBLE HARSHVARDHAN JAYKUMAR	
43	KAMBLE HRUSHIKESH DEEPAK	
44	KHANAJ NEHA ULHAS	
45	KORE SAKSHI MOHAN	
46	KOTHARI SHRAYSH NILESH	
47	KUMBHAR SANKET SANJAY	
48	LAD VAISHNAVI VISHWAS	
49	LOHAR ANURADHA MARUTI	
50	MAGDUM RUSHIKESH JAYKUMAR	
51	MAKANDAR AJEEM ANISKHAN	
52	MANE PRATIKSHA PRAVIN	
53	METHE SONAL VIJAY	
54	MHETRE VINAYAK SADASHIV	
55	MOHITE SAINATH VILAS	
56	MORE ABHIJEET VENKATRAO	
57	PAKHARE SWAPNIL ANIL	
58	PARIT PRADEEP MAHADEV	
59	PATIL ADITYA	
60	PATIL POURNIMA PANDURANG	
61	PATIL SAKSHI RAJENDRA	
62	PATIL SAKSHI SANJAY	
63	PATIL SAYALI RAJARAM	
64	PATIL SNEHA GANPATI	
65	PATIL SUBHOD RAVINDRA	
66	PETHKAR RUSHABH MANISH	
67	PETHKAR SOURABH GIRISH	
68	PISE GOURI ARUN	
69	PUJARI SHUBHANGI RAJESH	
70	SAVAIKAR SAMRUDDHI SHRIHARI	
71	SHAIKH AFTAB FIROJKHAN	
72	TODKAR VAIBHAV DEVBA	
73	YADAV RUCHITA BHARAT	
74	YALGUDRE ANIRUDDHA PARSHURAM	
75	AINAPURE RAJKUMAR	
76	PATIL RUSHABH	
77	KAMBLE YOGESH	

Prof. S.B. Holkar
Industrial Visit Coordinator

Prof. V.T.Patil
Academic Coordinator

Prof. R. A. Sanadi
HOD

Magdum College of Engineering

total no. of students = 57

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology

DR. J. J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR
DEPARTMENT OF INFORMATION TECHNOLOGY
T.Y. B.Tech. 2022-23
Attendence for Industrial Visit
Venue- Domain Computer Education,Sangli Date-20/10/2022

Roll No.	Name of Student	Sign
1	BHUSNAR SANGRAMSINH KANTILAL	
2	DANDAVATE BHUSHAN SADASHIV	
3	DESAI SHUBHAM BHIMGONDA	
4	GAIKWAD VAIBHAVI VINOD	
5	JAMBHALE AVANTIKA JANARDAN	
6	KALE AISHWARYA SUBHASH	
7	KAMBLE PURUSHOTTAM SANJAY	
8	KASAR SWACCHAND SAMBHAJI	
9	KHEDEKAR SUDIKSHA GAJANAN	
10	KHOT SHWETA DHANANJAY	
11	KOLAPE YASHODA TUKARAM	
12	MANKAR MANALI RAJENDRA	
13	PATIL PRATIKSHA CHANDRAKANT	
14	PATIL SARVESH AVINASH	
15	PINJARI OMKAR DAGADU	
16	POWAR SUYOG SHIVAJI	
17	SALUNKHE SHITAL SANJAY	
18	SANT MAYURI DEVANAND	
19	SATAPE PRATIKSHA BALASO	
20	VHANKHANDE PRAJAKTA RAMESH	
21	SUTAR SWALIHA INYATULLA	
22	SHINDE VARAD SUDARSHAN	
23	YEWATE GANESH GOVIND	
24	ABRANGE SWAPNIL KIRAN	
25	AITWADE PRATHMESH PRADEEP	
26	BANDI ANA RAJU	
27	BANSODE ANJALI PRAKASH	
28	BIRNALE KIRTIKUMAR ASHOK	
29	CHAVAN AISHWARYA VILAS	
30	CHOUDHARI SIDDHANT SACHIN	
31	CHOUGULE ANAND DILIP	
32	DHAKANE JYOTI SUDHAKAR	
33	DHAVALE OM	
34	DHOKALE AJAY DHANANJAY	
35	FASE SAMRUDDHI DEVIDAS	
36	GURAV PRATHMESH GANPATI	
37	HARGUDE SAKSHI SHARAD	

Dr. J. J. Magdum College of Engineering I.T. Dept.

38	HULLE ABHIJIT PADAPPA	
39	INGALE ASHWINI RAMESH	
40	JADHAV SHIVAM RAMCHANDRA	
41	KADAM PREETI JALINDAR	
42	KAMBLE HARSHVARDHAN JAYKUMAR	
43	KAMBLE HRUSHIKESH DEEPAK	
44	KHANAJ NEHA ULHAS	
45	KORE SAKSHI MOHAN	
46	KOTHARI SHRAYSH NILESH	
47	KUMBHAR SANKET SANJAY	
48	LAD VAISHNAVI VISHWAS	
49	LOHAR ANURADHA MARUTI	
50	MAGDUM RUSHIKESH JAYKUMAR	
51	MAKANDAR AJEEM ANISKHAN	
52	MANE PRATIKSHA PRAVIN	
53	METHE SONAL VIJAY	
54	MHETRE VINAYAK SADASHIV	
55	MOHITE SAINATH VILAS	
56	MORE ABHIJEET VENKATRAO	
57	PAKHARE SWAPNIL ANIL	
58	PARIT PRADEEP MAHADEV	
59	PATIL ADITYA	
60	PATIL POURNIMA PANDURANG	
61	PATIL SAKSHI RAJENDRA	
62	PATIL SAKSHI SANJAY	
63	PATIL SAYALI RAJARAM	
64	PATIL SNEHA GANPATI	
65	PATIL SUBHOD RAVINDRA	
66	PETHKAR RUSHABH MANISH	
67	PETHKAR SOURABH GIRISH	
68	PISE GOURI ARUN	
69	PUJARI SHUBHANGI RAJESH	
70	SAVAIKAR SAMRUDDHI SHRIHARI	
71	SHAIKH AFTAB FIROJKHAN	
72	TODKAR VAIBHAV DEVBA	
73	YADAV RUCHITA BHARAT	
74	YALGUDRE ANIRUDDHA PARSHURAM	
75	AINAPURE RAJKUMAR	
76	PATIL RUSHABH	
77	KAMBLE YOGESH	

Total no. of students = 57

Prof. S.B. Holkar
Industrial Visit Coordinator

Prof. I.T.Patil
Academic Coordinator

Prof. R. A. Sanadi
HOD

Department of Information Technology

I.T. Dept.

Industrial Visit Domain Computer System, Sangli (20/10/ 2022 TY-IT)

Dr. J.J. Magdum College of Engineering, Jaysingpur
I.T. Dept.

THE UNDERTAKEN BY THE STUDENT AND PARENT /GUARDAIN

Date: 29/10/2022

To,

The Principal,

Dr. J. J. Magdum College of Engineering,

Jaysingpur.

Subject: Regarding permission for Industry Visit to Domain Computer Education, Sangli

Respected Sir,

I Shri./Kum Aniruddha Parshuram Yalgudre undersigned, a student of TY year, IT, Roll No 74 at this college. I am participating in the **Domain Computer Education, Sangli.** arranged by Information Technology department. I am proceeding on this at my own risk and I understand that in case of any untoward incidence neither the staff accompanying us nor the institute will be responsible for the damages or losses therein. I undertake to abide by the rule and instructions given by the Head of Department and visit in charge.

Yalgudre.

(Signature of the student)

I,Shri/Smt. Parshuram K. Yalgudre declare that my son/~~daughter~~/~~ward~~ is proceeding on 1-Day Industry tour to **Domain Computer Education, Sangli.** On **20th October, 2022** and allow him/her to travel by the rail/private hired vehicle. I have no objection to travel hired vehicle. I am fully aware that my ward is proceeding in tour on his/her own risk, and neither the institute nor the staff members will be responsible for any damage or accident that may cause to him/her during the course of the tour. My ward will be have in well-disciplined manner, and abide by the rules and instructions given by the Head of Department and visit in-charge.

Dr. J. J. Magdum College of Engineering, I.T. Dept.

(Signature of Parent/Guardian)

Internship

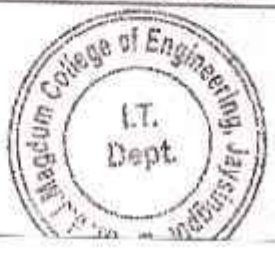
Dr. J.J. Magdum Trust's

Dr. J. J. Magdum College of Engineering, Jaysingpur -416101

Department of Information Technology

SUMMERY OF WINTER INTERNSHIP 2022-23

Sr.No.	STUDENT NAME	COMPANY NAME	DURATION
1	GAWAS AASHWINI RAGHOBA	Tecspeak	1 month
2	BABAR YOGESHRI SHIVAJI	Oasis Infobyte	1 month
3	UPARATE SANKET SUDHAKAR	Techspeak IT Solutions	5 weeks
4	DESAI RAHUL SHIVAJI	Techspeak IT Solutions	1 month
5	HUKKERI SHRINATH RAJKUMAR	Techspeak IT Solutions	1 month
6	PATIL ROHIT LAXMAN	Techspeak IT Solutions	1 month
7	JARE PRASHANT LAXMAN	Techspeak IT Solutions	1 month
8	MORE ROHIT MARUTI	Techspeak IT Solutions	1 month
9	CHAVAN POOJA TULSIDAS	OASIS INFOBYTE	1 month
10	DHOLE AKSHATA YUVRAJ	OASIS INFOBYTE	1 month
11	MULLA HAIDARALI TAJUDDIN	OASIS INFOBYTE	1 month
12	PUJARI RUSHIKESH PRAKASH	OASIS INFOBYTE	1 month
13	MULLA AMAN RIYAJ	OASIS INFOBYTE	1 month
14	MAGDUM ANIKET SADASHIV	Suven Consultants & Technology pvt. ltd.	1 month
15	MAGDUM AKANKSHA SADASHIV	Suven Consultants & Technology pvt. ltd.	1 month
16	KHARE SURAJ RAVINDRA	Green Layer	1 month
17	SHELAKE ASHWAGANDHA MOHAN	Excel Computers	1 month
18	MAHAMUNI SHREYAS SATISH	Accenture	2 month
19	RASAL ABHISHEK SANJAY	Dextra Lab Technologies	1 month
20	JADHAV SHREYA SHRIKANT	UP Skillz	2 month
21	MANE PRJAKTA SHIVAJI	Grow More	1 month
22	KAMBLE SIYANG PRAFULLA	Remark Skill Education	2 month
23	MORE ROHIT MARUTI	Techspeak IT Solutions	1 month
24	PRAJWAL MAHADEV GURAV	Techspeak IT Solutions	1 MONTH
25	PRAJAKTA CHANDRAKANT PATIL	Techspeak IT Solutions	1 MONTH



26	PRAVIN PRALHAD PATIL	Techspeak IT Solutions	1 MONTH
27	KUMBHAR OMKAR BAJIRAO	I revolution IT Solutions	1 MONTH
28	PATIL NIKITA BALKRISHNA	Techspeak IT Solutions	1 month
29	NIMBALKAR AISHWARYA PRAKASH	Techspeak IT Solutions	1 month
30	GAVALI ANUSHKA ARUN	Techspeak IT Solutions	1 month
31	KENJALE KEDAR DATTATRAY	Forage	1 month
32	SHAIKH JUNED JAHANGIR	Gustovalley Technology	1 month
33	JAMADADE VRUSHALI TANAJI	Suven Consultants & Technology pvt. ltd.	1 month
34	DHAVALE POOJA YASHWANTRAO	Techspeak IT Solutions	5 weeks
35	MANGLEKAR RUTUJA PRAKASH	Pradeep Infotech	1 month
36	KANADE AMRUT ANANDA	Pradeep Infotech	1 month
37	PATIL DIVYARANI DATTATRAY	SOFTRON	1 month
38	RAWAL MANASI MAHESH	SOFTRON	1 month
39	SHIRDHONE CHIDANAND EKNATH	Exposys Data Labs	5 weeks
40	KALE SHUBHAM DINESH	Acmegrade	1 month
41	RAJPUT GOURI ARUNSING	Matrix Infosolutions	2 month
42	PAWAR ASHLESHA MADHUKAR	SOFTRON	1 month
43	POTDAR DIPALI GAJANAN	SOFTRON	1 month
44	WAGH POONAM PRABHAKAR	SOFTRON	3 month
45	JADHAV SHRAVAN ASHOK	Internshala	1 month
46	MANE SANDESH UTTAM	Internshala	1 month
47	JADHAV SNEHAL DATTATRAY	Techspeak IT Solutions	5 weeks
48	HIREMATH ADITYA NANDIKESHWAR	TCS Master Craft Dataplus	2 month
49	JAMADADE SHREYA ANIL	Matrix Infosolutions	7 weeks
50	MOHITE SAMRUDDHI SURESH	Matrix Infosolutions	7 weeks
51	CHAVAN GAYATRI SHASHIKANT	Acmegrade	2 month
52	KHADE NAYAN NAVJEEVAN	Future skills prime	1 month
53	PATIL SAIESH SHEKHAR	Acmegrade	2 month
54	PATIL SHRIDHAR SURESH	Acmegrade	2 month
55	SHINTRE GOURAV GIRISH	Gustovalley Technology	1 month
56	SUTAR SWAPNIL SATISH	SOFTRON	2 months
57	BHOSALE OMKAR SHIVAJI	Acmegrade	2 month
58	REVANNA PRATIK SACHIN	Acmegrade	2 month
59	SHAHAPURE RAJAT RAJENDRA	Pie infocom	2 months
60	SARNOBAT PRAJWAL KRUSHNAT	Acmegrade	2 month

61	BANDGAR SAVITA APPASO	Green Layer	1 month
62	PATHAN MUSKAN ISAK	Green Layer	1 month
63	SURAJ NARDEKAR	Techspeak IT Solutions	1 month
64	AKASH MITHARE	Techspeak IT Solutions	1 month
65	ATISH KAMBLE	The Sparks Foundation	2 month
66	HAIDARALI TAJUDDIN MULLA	Anvy Software Solutions	4 month
67	SANDESH MANE	Internshala	1 month
68	SHRAVAN JADHAV	Internshala	1 month
69	SURAJ KHARE	Green Layer	1 month

Internship Co-ordinator

Dr. J.J. Magdum College of Engineering, Jaysingpur I.T. Dept.

SOFTRON
Software Developer And Training Center
Software Developer, Web Design, Professional And Training Center

Date: 15th October, 2022

INTERNSHIP CERTIFICATE

This is to certify that *Ms. Divyarani Dattatray Patil* has been worked as a ***Python ML Developer*** in our organization from 15th September 2022 to 15th October 2022. During the time of her tenure we found her extremely resourceful in all the technologies that she is competent.

We found her to be a good team player besides being a hard worker. We wish her all success in her future endeavors.

Yours truly,

Softron, Kolhapur
Rohan S. Suryawanshi
Industrial Expert

Tecspeak
IT Solutions
(An ISO 9001:2015)

Certificate

This is certify that,

Suraj Nardekar

Has successfully completed the training and examination on the topic of
Structured Query Language
His/Her performance in the course was Excellent

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Made for free with Certify'em

acmegrade

INTERNSHIP CERTIFICATION

This is to certify that

Mr./Ms. SHRIDHAR SURESH PATIL

has successfully completed her/his internship in Web Development

from 10-Sept-2022 to 10-Nov-2022 . During this period the student was found to be dedicated, determined and hardworking.

Certificate number: AGI2203279
For certificate authentication
Scan QR code

Rohitt/-

Challa Rohit
Academic Head

CERTIFICATE

OF INTERNSHIP

This Is To Certify That

Shreya Shrikant Jadhav

has successfully completed the internship on DATA SCIENCE for a period of 2 months with UpSkillz

DR. J.J. MAGDUM COLLEGE OF

MOHAMMED RUMAN SHARIEF
OPERATIONS HEAD

MUSKAN RASTOGI
CEO & CO-FOUNDER

#UPSKCOIC22-531
27-08-2022 to 27-10-2022

Dextra Lab Technologies

Date: 15/09/2022

To

Mr. Abhishek S Rasal

Certificate Of Internship

This is to certify that **Mr. Abhishek Sanjay Rasal,** Employee Code: DEX-58 was working with us as an intern **Web Developer** with effect from **15th Aug 2022** to **14 Sep 2022.** He has been relieved from his duties from **15 Sep 2022,** by the end of business closing hours.

He was punctual, hard-working, and inquisitive, as he successfully completed the tenure with good performance.

We wish him the best of luck in the future.

Your truly,

For Dextralab Technologies

DEXTRA LAB TECHNOLOGIES

Kedar Deodhar (HR)

REVOLUTION IT SOLUTIONS

Address: Vimal Vehar Apartment, Third Floor T1, Rajarampuri 3th lane, Opposite to Castle Hotel, Kolhapur, 416008

MSME Reg No: MH115D0021119 **Contact:** +91 7744819595.

Mail: info@revolutionit.in **Website:** www.revolutionit.in

Date: 27-08-2022

TO,

Omkar Bajirao kumbhar

BTech (information technology)

Dr.J J Magdum College of Engineering Jaysingpur

Subject: Regarding Joining of Industrial Training

Omkar Bajirao kumbhar

Our company is pleased to offer you industrial training opportunity in our technical department.

You will get Python Programming with Machine learning training between the period:

27-08-2022 to 27-09-2022

You will report directly to technical manager.

Congratulations and welcome to our organisation

Thank you.

REVOLUTION IT SOLUTIONS Reg.No. MH 115G0021119

Yours Sincerely,

DR. J.J.MAGDUM COLLEGE OF ENGINEERING

Exposys
Data Labs

Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that **Mr. Chidanand Eknath Shirdhone** has completed internship programme on **"Software Testing"** from 15.09.2022 to 22.10.2022.

He took keen interest in the work assigned and successfully completed it. During the period of internship we found him to be punctual, hardworking and inquisitive.

We wish him luck and success in all his future endeavours.

Y Vishnuvardhan
Chief Director

hr@exposysdata.com
www.exposysdata.com

Augment Techn

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

2022-23

Activity under Augmentation Cell-Technical

Sr.No	Activities Details	Resource person	Date/Duration	Target Audience
2022-23				
1	Android Development	Mr.ImrankhsnS. Malidwale Infoyashonand Technology, Bhose.	12/12/2022	BTech
2	A beginner's guide to WordPress	Mrs.Gauri S. Khot, PlatoMind Services Pvt. Ltd. Kolhapur	16/05/2023	BTech

Prof. Mrs. A. G. Chendke
Augmentation Cell Coordinator

Prof. Mr. R. A. Bharatiya
HOD (IT)

Dr. J.J.Magdum College of Engineering, Jaysingpur • I.T. Dept.

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.
Department of Information Technology
2022-23

Date: 07/12/2022

To,

The Principal/Campus Director,

Dr. J. J. Magdum College of Enggineering,

Jaysingpur.

Subject: Regarding Permission for Technical Workshop.

Respected Mam/Sir,

We the department of Information Technology is going to organize a Technical workshop on Monday, 12th December 2022, Time: 10:00 am namely "Android Development" under Augmentation cell for BTech students.

Budget for this Technical workshop Remuneration is 4000P/-. So please sanction this amount and give us permission to conduct this Technical workshop.

Venue	:	CCF, JJMCOE.
Lecture	:	Offline Mode
Resource Person	:	**Mr. ImrankhanSikandarMalidwale**
		Freelance work experience : 2+ years
		Company work experience:4 years (android development)
		Company Name :Infoyashonand Technology Pvt. Ltd. Bhose.

Thanking You,

Prof. A. G. Chendke
Augmentation Cell coordinator

Prof. J.T. Patil
Academic Coordinator

Prof. R. A. Sanadi
HOD

Permission for CCF if slot available, Recommended

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

07/12/22

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.
Department of Information Technology
2022-23

Date: 07/12/2022

NOTICE

All the students of BTech (IT) are hereby informed that a Technical workshop is organized on the topic **"Android Development"** under Augmentation Cell. The schedule for the same is mentioned below.

Date	:	12/12/2022
Time	:	10:00am.
Venue	:	CCF, JJMCOE.
Resource Person :		**Mr. Imrankhan Sikandar Malidwale**
		Freelance work experience: 2+ years
		Company work experience: 4 years (android development)
		Company Name :Infoyashonand Technology Pvt. Ltd. Bhose

So, all should note the same. The attendance of all is compulsory.

Prof. A. G. Chendke
Augmentation Cell coordinator

Prof. J.T. Patil
Academic Coordinator

Prof. R. A. Sanadi
HOD

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

DR. J. J. MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR
416101

DR. J. J. MAGDUM TRUST'S

Date: 10/12/2022

To,

Mr. Imrankhan Sikandar Malidwale
Infoyashonand Technology Pvt. Ltd.,
Bhose.

Subject-Regarding invitation for the technical workshop **"Android Development"**.

Respected Sir,

It is our honor to write to you & extend this warm invitation to be a Resource person workshop on **"Android Development"** under Augmentation Cell for BTech students. Participating students will benefit by your vivid experience, insights, support, encouragement and vision.

Day and Date	:	Monday, 12/12/2022
Time	:	10:00am.
Venue	:	CCF, JJMCOE

Taking into account your interest and expertise in this field, we hope to welcome you soon at the venue of this technical workshop.

So please accept our invitation and do the needful.

Thanking you,

With warm regards.

Received.

Prof. A. G. Chendke
Augmentation Cell coordinator

Prof. J.T. Patil
Academic Coordinator

Prof. R. A. Sanadi
HOD

Dr. J. J. Magdum College of Engineering, Jaysingpur
Department of Information Technology
Jaysingpur - 416101

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

DR. J. J. MAGDUM TRUST'S

Date: 12/12/2022

To,

Mr. Imrankhan Sikandar Malidwale
Infoyashonand Technology Pvt. Ltd.,
Bhose.

Subject: -Thanking Letter.

Respected Sir,

As per our request you have accepted our invitation as a Resource person for **Technical Workshop on "Android Development"** under Augmentation Cellon Monday **12/12/2022, Time: 10:00 am.**You delivered the session very well.

On behalf of Augmentation Cell & Department Information Technology, we are thankful that you have given your precious time & effective knowledge for BTech (IT) students through this session.

Thanking you,

Received.

Prof. A. G. Chendke	Prof. J.T. Patil	Prof. R. A. Sanadi
Augmentation Cell coordinator	Academic Coordinator	HOD

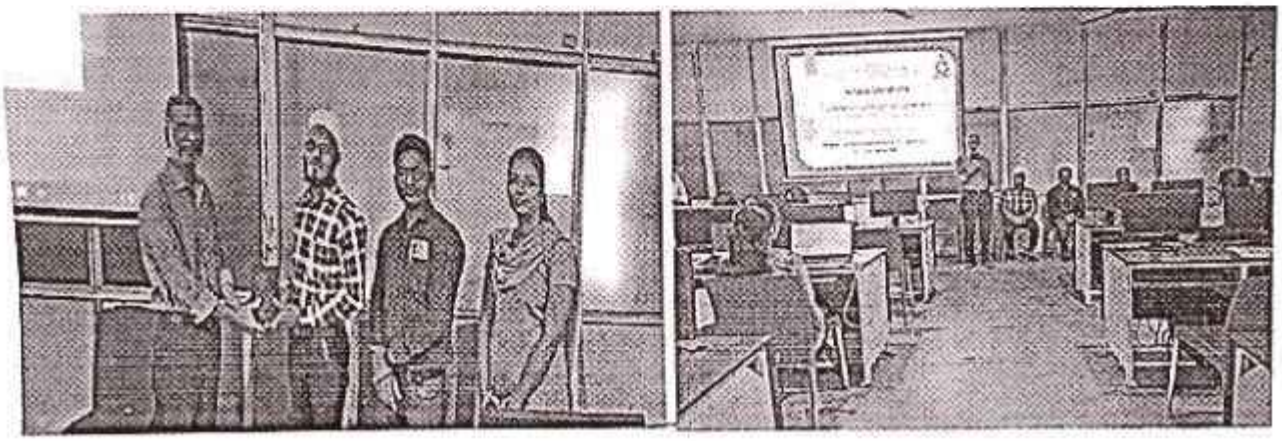
Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

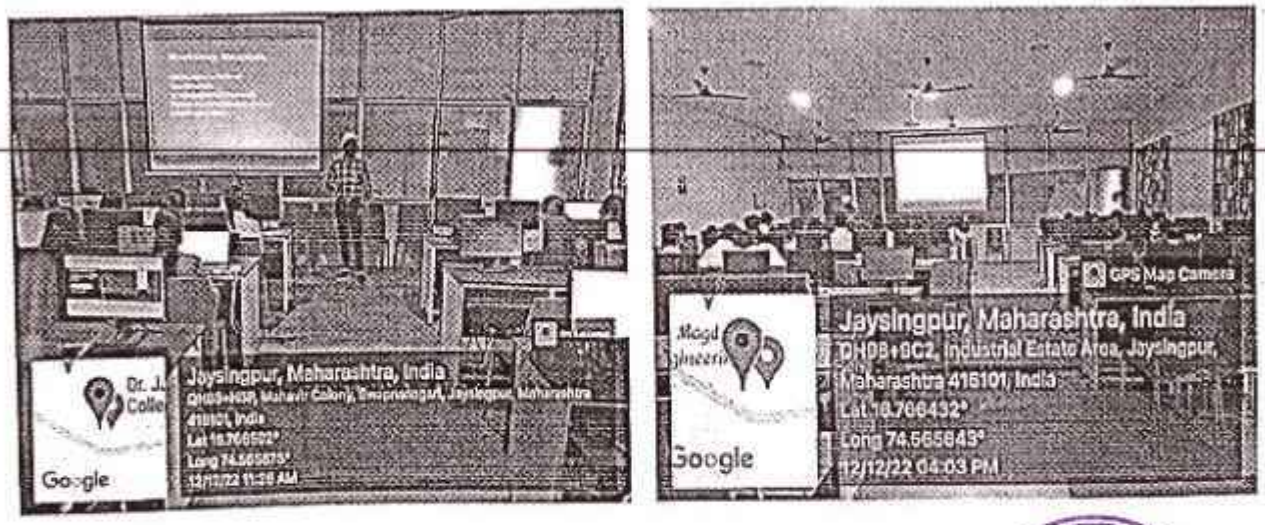
J.J.MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR
416101

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.
Department of Information Technology
2022-23

Date: 12/12/2022

One Day Workshop on ANDROID DEVELOPMENT Under Augmentation Cell





Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

DR. J. J. MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR 416101

Dr. J. J. Magdum College of Engineering, Jaysingpur.

Department of Information Technology
Class-B.Tech.IT

Date: 12/12/2022

One Day Workshop On "Android Development" under Augmentation Cell

ROLL.No.	Name Of Student	Morning Section	Evening Section
1	GAWAS AASHWINI RAGHOBA		
2	KAMBLE SIYANG PRAFULLA		
3	MITHARE AKASH SURESH		
4	NARDEKAR SURAJ JAYKUMAR		
5	MULLA AMAN RIYAJ		
6	PUJARI RUSHIKESH PRAKASH		
7	SHAIKH JUNED JAHANGIR		
8	SHIRDHONE CHIDANAND EKNATH		
9	HIREMATH ADITYA NANDIKESHWAR		
10	JARE PRASHANT LAXMAN		
11	KUMBHAR OMKAR BAJIRAO		
12	MOMIN MOHAMMAD RAASHID ALLAHBAKSH		
13	PATIL ROHIT LAXMAN		
14	KAMBLE ATISH VIJAY		
15	KHARE SURAJ RAVINDRA		
16	MAHAMUNI SHREYAS SATISH		
17	MULLA HAIDARALI TAJUDDIN		
18	PAWAR ASHLESHA MADHUKAR		
19	POTDAR DIPALI GAJANAN		
20	RAJPUT GOURI ARUNSING		
21	WAGH POONAM PRABHAKAR		
22	BANDGAR SAVITA APPASO		
23	PATHAN MUSKAN ISAK		
24	PATIL DIVYARANI DATTATRAY		
25	RAWAL MANASI MAHESH		
26	GAVALI ANUSHKA ARUN		
27	KALE SHUBHAM DINESH		
28	MHAMULKAR SANIYA PANDURANG		
29	MORE ROHIT MARUTI		
30	BABAR YOGESHRI SHIVAJI		
31	KENJALE KEDAR DATTATRAY		
32	KHADE NAYAN NAVJEEVAN		
33	PATIL NIKITA BALKRISHNA		
34	CHAVAN POOJA TULSIDAS		
35	DHOLE AKSHATA YUVRAJ		

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

36	JAMADADE VRUSHALI TANAJI		
37	MANE PRJAKTA SHIVAJI		
38	CHAVAN GAYATRI SHASHIKANT		
39	JADHAV SHREYA SHRIKANT		
40	MAGDUM AKANKSHA SADASHIV		
41	MAGDUM ANIKET SADASHIV		
42	JADHAV SHRAVAN ASHOK		
43	KANADE AMRUT ANANDA		
44	MANE SANDESH UTTAM		
45	SHELAKE ASHWAGANDHA MOHAN		
46	GURAV PRAJWAL MAHADEV		
47	SANKPAL GOURANK PRASHANT		
48	PATIL PRAJAKTA CHANDRAKANT		
49	PATIL PRAVIN PRALHAD		
50	HUKKERI SHRINATH RAJKUMAR		
51	RASAL ABHISHEK SANJAY		
52	DESAI RAHUL SHIVAJI		
53	UPARATE SANKET SUDHAKAR		
54	JAMADADE SHREYA ANIL		
55	MANGLEKAR RUTUJA PRAKASH		
56	MOHITE SAMRUDDHI SURESH		
57	NIMBALKAR AISHWARYA PRAKASH		
58	PATIL SUSHANT VASABTRAO		
59	DHAVALE POOJA YASHWANTRAO		
60	JADHAV SNEHAL DATTATRAY		
61	SAVANT SUDHIR RAGHUNATH		
62	PATIL SAIESH SHEKHAR		
63	PATIL SHRIDHAR SURESH		
64	SHINTRE GOURAV GIRISH		
65	SUTAR SWAPNIL SATISH		
66	BHOSALE OMKAR SHIVAJI		
67	REVANNA PRATIK SACHIN		
68	SARNOBAT PRAJWAL KRUSHNAT		
69	SHAHAPURE RAJAT RAJENDRA		

Augmentation Non-Tech

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

2022-23

Activity under Augmentation Cell- Non Technical

Sr.No	Activities Details	Resource person	Date/Duration	Target Audience
1	Full tension to cool tension	Mr.Kapil M. Lalit Mind Matters Psychological Services, Sangli.	29/09/2022	SY, TY, BTech
2	Career and Skill Development	Mr. Prasad Vatare PRV computer classes , Job and skill development cell, Sangli.	11/04/2023	SY, TY, BTech

Prof. A.G. Chendke
Augmentation Cell Coordinator

Prof. R. A. Bharatiya
HOD(IT)

Dr. J.J. Magdum College of Engineering, Jaysingpur • I.T. Dept.

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.
Department of Information Technology
2022-23

Date: 27/09/2022

To,
The Principal/ Campus Director
Dr. J. J. Magdum College of Engg,
Jaysingpur.

Subject: Regarding Permission for Non-Technical Workshop.

Respected Madam/ Sir,

The department Information Technology is going to organize a non-technical workshop on Thursday, **29 September 2022, Time: 10:00** namely **"Full Tension to Cool Tension"** under Augmentation cell for SY, TY and B.Tech students. Resource person is **Mr.Kapil Madhav Lalit, Mind Matters Psychological Services, Sangli.**

So we request you to grant us the permission for organizing the non- technical workshop.

Thanking You.

Prof. A.G. Chendke	Prof. J. T. Patil	Prof. R. A. Sanadi
Augmentation Coordinator	Academic Coordinator	HOD (IT)

Permitted,

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

DR. J. J. MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR 416101

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.
Department of Information Technology
2022-23

Date: 27/09/2022

NOTICE

All the students of SY, TY and B.Tech are hereby informed that a workshop is organized on the topic **"Full Tension to Cool Tension"** under Augmentation cell. The schedule for the same is mentioned below.

Date, Day	:	29/09/2022, Thursday
Time	:	10:00 am
Venue	:	Mechanical Seminar Hall
Resource Person	:	Mr.Kapil Madhav Lalit Mind Matters Psychological Services, Sangli. Mob. No.: +91 98199 66489

So, all should note the same. The attendance of all is compulsory.

Prof. A.G. Chendke
Augmentation Coordinator

Prof. J. T. Patil
Academic Coordinator

Prof. R. A. Sanadi
HOD IT Dept.

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

DR. J.J. MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR 416101

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.
Department of Information Technology
2022-23

Date : 26/09/2022

To,

Mr. Kapil M. Lalit,

Mind Matters Psychological Services,

Sangli.

Subject: -Regarding the invitation as a Resource person.

Respected Sir,

We, Department of Information Technology from Dr. J. J Magdum College of Engineering, Jaysingpur is going to organize a non-technical workshop on **"Full Tension to Cool Tension"** under Augmentation Cell on **Thursday 29/09/2022, Time: 10:00 am.** for the students of SY, TY, BTech IT. We are pleased to invite you as the resource person. Please accept the request.

Thanking you,

Prof. A.G. Chendke	Prof. J. T. Patil	Prof. R. A. Sanadi
Augmentation Coordinator	Academic Coordinator	HOD (IT)

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

DR. J. J. MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR 416101

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.
Department of Information Technology
2022-23

To,

Date: 29/09/2022

Mr. Kapil M. Lalit,

Mind Matters Psychological Services,

Sangli.

Subject: -Thanking Letter.

Respected Sir,

As per our request you have accepted our invitation as a Resource person for Non-Technical Workshop on **"Full Tension to Cool Tension"** under Augmentation Cell on **Thursday 29/09/2022, Time: 10:00 am.** You delivered the session very well.

On behalf of Augmentation Cell & Department of Information Technology, we are thankful that you have given your precious time & effective knowledge for SY,TY and B.Tech (IT) students through this session.

Thanking you,

Prof. A.G. Chendke
Augmentation Coordinator

Prof. J. T. Patil
Academic Coordinator

Prof. R. A. Sanadi
HOD (IT)

Received
29/09/2022

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

DR. J. J. MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR 416101

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.
Department of Information Technology
2022-23

Date: 29/09/2022

Workshop on "Full Tension to Cool Tension" under Augmentation Cell

SY(IT) Student Roll No. List

Roll No.	Name of student	Sign
1	Atigre Pratham Umaji	
2	Chavan Akshay Dayanand	
3	Chougule Ajay Shivaji	
4	Dalavi Swapnil Ananda	
5	Desai Saloni Dilip	
6	Deshmane Shreyash Shrikant	
7	Divate Atharv Ashok	
8	Fakir Muskan Makbul	
9	Gaikwad Kalyani Amol	
10	Gavhane Aryan Vikas	
11	Hulwan Shantanu Jaydeep	
12	Indalkar Antari Shivaji	
13	Ingole Raviraj Namdeo	
14	Jadhav Sanket Shivaji	
15	Jadhav Shivam Sanjay	
16	Kalel Avishkar Bharat	
17	Kamble Aditya Raju	
18	Katkar Ayush Eknath	
19	Khade Pratik Tanaji	
20	Khalate Samidha Pramod	
21	Kolekar Sakshi Ajit	
22	Kundekar Bharat Uttam	
23	Lanjewar Palash Nagsen	
24	Laykar Amruta Chandrakant	
25	Magdum Abhishek Shankar	
26	Mali Sejal Sandip	
27	Mane Kiran Vilas	
28	Mane Prerana Ashok	
29	Mane Utkarsh Dilip	
30	Mohite Suyog Sunil	
31	Mulla Ayesha Siddika Tajuddin	
32	Nikam Mahadev Pandurang	
33	Nilkanth Anshul Umesh	
34	Pathan Shahin Hakeemasab	
35	Patil Aditya Ravsaheb	
36	Patil Arju Ashok	
37	Patil Avinash Pandurang	
38	Patil Jinendra Ravindra	
39	Patil Mahesh Chandrakant	
40	Patil Sammed Shantinath	

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

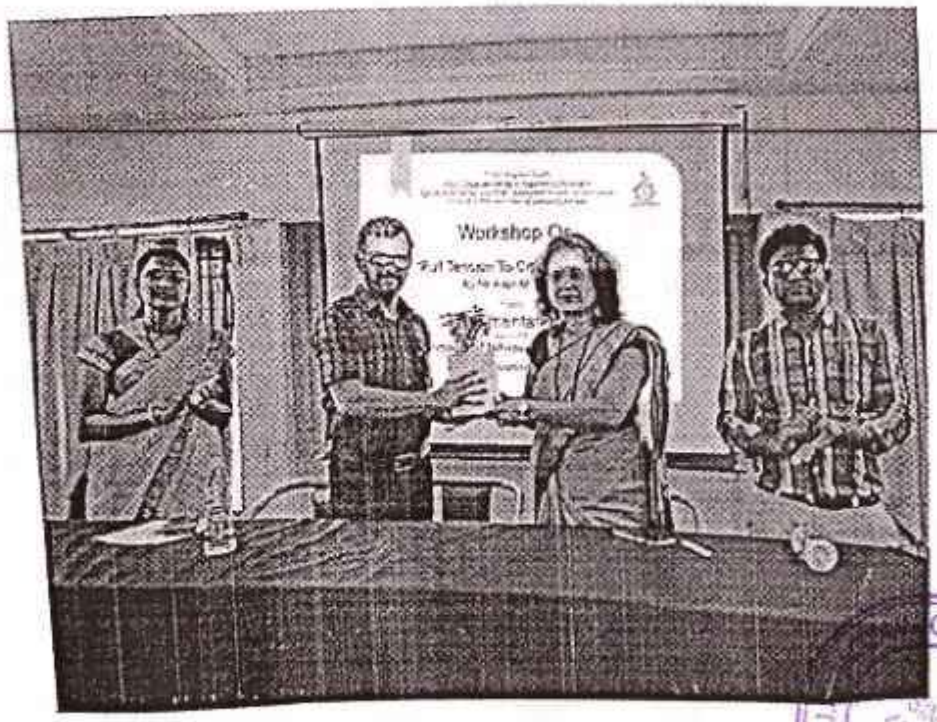
41	Patil Samruddh Dattatray	
42	Patil Sanika Uttam	
43	Pawar Shraddha Tanaji	
44	Powar Pallavi Tanaji	
45	Raut Prathamesh Prashant	
46	Raut Sitaram Rajaram	
47	Sanadi Sohel Salim	
48	Sangale Aishwarya Prakash	
49	Shaikh Ayeshasiddiqa Mehboob	
50	Shinde Omkar Madhukar	
51	Shinde Prathmesh Ravindra	
52	Shinde Vaishnavi Sanjay	
53	Thorat Rajvardhan Dhanajirao	
54	Wankar Muskan Amir	
55	Yadav Swarup Mahadev	
56	Prafull Bharat Awale	P.B.Awale.

Prof .Mrs. A.G. Chendke
Class Coordinator (SY IT)

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur-41610
Department of Information Technology
2022-23

Date: 29/09

Non Technical workshop on **"Full tension to cool tension"** unde
Augmentation Cell



2.3.4(Project)

C – Copyright
D – Design - patent.

Dr. J. J. Magdum College of Engineering, Jaysingpur.
Department of Information Technology Engineering
Class-B.Tech.IT
Btech Project Detail 2022-23

Roll.No.	Name Of the Student	Title of the project	Type of Project	Project group	Faculty Name
1	GAWAS AASHWINI RAGHOBA	Hospitality Service Management System	C	G1 - Management+Sponsor ✓	Mrs.S. J. Chougule
2	KAMBLE SIYANG PRAFULLA				
3	MITHARE AKASH SURESH				
4	NARDEKAR SURAJ JAYKUMAR				
5	JAMADADE SHREYA ANIL	Gesture recognition based on virtual mouse & keyboard		G2- Social level	Mrs.J.T.Patil
6	MANGLEKAR RUTUJA PRAKASH				
7	MOHITE SAMRUDDHI SURESH				
8	NIMBALKAR AISHWARYA PRAKASH				
9	HIREMATH ADITYA NANDIKESHWAR	Fertilizer Optimizer		G3- Innovative+	Mrs. S.S.Solapure
10	JARE PRASHANT LAXMAN			or Techno societal	
11	KUMBHAR OMKAR BAJIRAO				
12	MOMIN MOHAMMAD RAASHID				
13	PATIL ROHIT LAXMAN				
14	KAMBLE ATISH VIJAY	Brain Tumor Detection Using Mask R-CNN	D	G4-Medicare And Solutions	Mrs.S. J. Chougule
15	KHARE SURAJ RAVINDRA				
16	MAHAMUNI SHREYAS SATISH				
17	MULLA HAIDARALI TAJUDDIN				
18	PAWAR ASHLESHA MADHUKAR	Software for Vaishnavi Jeweilers	C	G5- Industry real time ✓ Sponsored	Mrs. A.G.Chendke
19	POTDAR DIPALI GAJANAN				
20	RAJPUT GOURI ARUNSING				
21	WAGH POONAM PRABHAKAR				
22	BANDGAR SAVITA APPASO	Stock Management System	C	G6-Industry Real Time Sponsored	Mrs.J.T.Patil
23	PATHAN MUSKAN ISAK				
24	PATIL DIVYARANI DATTATRAY				
25	RAWAL MANASI MAHESH				
26	GAVALI ANUSHKA ARUN	Waste Food Management System Using Flutter		G7- Innovative+Techno Societal	Mr. R.A. Sanadi
27	KALE SHUBHAM DINESH				

Dr. J.J. Magdum College of Engineering Jaysingpur I.T. Dept.

PG

MHAMULKAR SANIYA PANDURANG			
MORE ROHIT MARUTI			
ABAR YOGESHRI SHIVAJI	Medical Management System	G8-Management + Real Time	Mr. R.A. Sanadi
ENJALE KEDAR DATTATRAY		Sponsor	
HADE NAYAN NAVJEEVAN			
ATIL NIKITA BALKRISHNA			
HAVAN POOJA TULSIDAS	Dairy Automation C	G9-Techno Societal	Mrs..P.R.Patil
HOLE AKSHATA YUVRAJ		Sponsored	
AMADADE VRUSHALI TANAJI			
ANE PRJAKTA SHIVAJI			
HAVAN GAYATRI SHASHIKANT	Pet Adoption App	G10-Techno Societal	Mrs.P.A.Tambgave
ADHAV SHREYA SHRIKANT			
AGDUM AKANKSHA SADASHIV			
AGDUM ANIKET SADASHIV			
ADHAV SHRAVAN ASHOK	Driver drowsiness detection system	G11-Techno societal	Mrs.Pallavi Desai
ANADE AMRUT ANANDA			
ANE SANDESH UTTAM			
HELAKE ASHWAGANDHA MOHAN			
URAV PRAJWAL MAHADEV	E-Commerce Website with PWA Technology for Interiors and Electricals	G12-Industry Real Time	Mrs.S.B.Holkar
ANKPAL GOURANK PRASHANT		Sponsored	
ATIL PRAJAKTA CHANDRAKANT			
ATIL PRAVIN PRALHAD			
UKKERI SHRINATH RAJKUMAR	Audio Sentimate Analysis D	G13-Social level	Mrs. P.R Patil
ASAL ABHISHEKH SANJAY			
ESAI RAHUL SHIVAJI			
PARATE SANKET SUDHAKAR			
ULLA AMAN RIYAJ	Design an IoT based noise detection and alert system for D	G14- Social Level	Mrs. S.S.Solapure
UJARI RUSHIKESH PRAKASH	silent zone areas.		
HAIKH JUNED JAHANGIR			
HIRDHONE CHIDANAND EKNATH			
ATIL SUSHANT VASABTRAO	Gas Leakge Detector using Arduino UNO	G15-Inter disciplinary	Mrs.P.A.Tambgave

59	DHAVALE POOJA YASHWANTRAO			
60	JADHAV SNEHAL DATTATRAY			
61	SAVANT SUDHIR RAGHUNATH			
62	PATIL SAIESH SHEKHAR	Advance dynamic E-commerce website for power jet appliances	G16-Industry real Time Sponsored.	Mrs.S.B.Holkar
63	PATIL SHRIDHAR SURESH			
64	SHINTRE GOURAV GIRISH			
65	SUTAR SWAPNIL SATISH			
66	BHOSALE OMKAR SHIVAJI	Fake news prediction	G17-Techno societal	Mrs.Pallavi Desai
67	REVANNA PRATIK SACHIN			
68	SARNOBAT PRAJWAL KRUSHNAT			
69	SHAHAPURE RAJAT RAJENDRA			

Shahapure

Solapure S.S.
DRC - co-ordinator

Dr. J. J. Magdum College of Engineering, Jaysingpur
I.T. Dept.

HOD, IT

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

Dr. J. J. Magdum College of Engineering, Jaysingpur.
Department of Information Technology Engineering
Class-B.Tech.ITBtech Project Details -2022-23

Date: 13/03/23

Refer all PR1-PR6 rubrics in detail to understand the meaning of a,b,c,d before giving marks

	Mark sheet			PR4- review marks(20)			Total
Roll.No.	Name Of the Student	Project group	Faculty Name With sign	/10	/10		20
				a	b		a+b
5	JAMADADE SHREYA ANIL	G2	/J.T.P	4	4		8
6	MANGLEKAR RUTUJA PRAKASH			4	4		8
7	MOHITE SAMRUDDHI SURESH			4	4		8
8	NIMBALKAR AISHWARYA PRAKASH			4	4		8
18	PAWAR ASHLESHA MADHUKAR	G5	/ A.G.C	9	10		19
19	POTDAR DIPALI GAJANAN			AB	AB		AB
20	RAJPUT GOURI ARUNSING			9	10		19
21	WAGH POONAM PRABHAKAR			9	10		19
22	BANDGAR SAVITA APPASO	G6	/J.T.P	5	5		10
23	PATHAN MUSKAN ISAK			7	7		14
24	PATIL DIVYARANI DATTATRAY			8	8		16
25	RAWAL MANASI MAHESH			7	7		14
26	GAVALI ANUSHKA ARUN	G7	R.A.S	AB			AB
27	~~KALE SHUBHAM DINESH~~			9	9		18
28	MHAMULKAR SANIYA PANDURANG			9	9		18
29	MORE ROHIT MARUTI			---	---		AB
30	BABAR YOGESHRI SHIVAJI	G8	R.A.S	6	6		12
31	KENJALE KEDAR DATTATRAY			6	6		12
32	KHADE NAYAN NAVJEEVAN			6	6		12
33	PATIL NIKITA BALKRISHNA			6	6		12
34	CHAVAN POOJA TULSIDAS	G9	/P.R.P	6	6		12
35	DHOLE AKSHATA YUVRAJ			6	6		12
36	JAMADADE VRUSHALI TANAJI			6	6		12
37	MANE PRJAKTA SHIVAJI			6	6		12

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

42	JADHAV SHRAVAN ASHOK	G11	/P.R.D	4	4		8
43	KANADE AMRUT ANANDA			9	9		18
44	MANE SANDESH UTTAM			4	4		8
45	SHELAKE ASHWAGANDHA MOHAN			9	9		18
50	HUKKERI SHRINATH RAJKUMAR	G13	/P.R P	9	9		18
51	RASAL ABHISHEKH SANJAY			—	—	—	AB
52	DESAI RAHUL SHIVAJI			—	—	—	AB
53	UPARATE SANKET SUDHAKAR			9	9		18
66	BHOSALE OMKAR SHIVAJI	G17	/P.A.D	5	5		10
67	REVANNA PRATIK SACHIN			4	5		9
68	SARNOBAT PRAJWAL KRUSHNAT			5	4		9
69	SHAHAPURE RAJAT RAJENDRA			5	4		9

R4 –

- Quality and accuracy of Software System/Model
- Demonstration of software system /Module working and Functioning

Submitted by Faculty: P. R. Desai

gaire.

A

Project Report

On

"Hospitality Service Management System"

Submitted by,

Name of Student	Roll No.
Miss. Gawas Aashwini Raghoba	01
Mr. Kamble Siyang Prafulla	02
Mr. Mithare Akash Suresh	03
Mr. Nardekar Suraj Jaykumar	04

Under the guidance of

Prof. S. J. Chougule

DEPARTMENT OF INFORMATION TECHNOLOGY

Dr. J. J. Magdum College of Engineering, Jaysingpur.

Academic Year

2022-2023

HOTEL
RASIKA

[redacted]

Date - 18TH December 2022

To,

Dept. of Information Technology Engg.,

Dr. J. J. Magdum college of Engineering,

Jaysingpur.

Sub - Sponsorship Letter for Project.

This is to certify, that the following students of Information Technology dept. of Dr. J. J. Magdum college of Engineering, Jaysingpur are working on our project "IOT Based Hospitality Services Management System" fulfillment of their B Tech Final Year project which is part of their syllabus.

We are offering sponsorship for their working project group.

1. Gawas Aashwini Raghoba.
2. Kamble Sayang Pralulla.
3. Mithare Akash Suresh.
4. Nardekar Suraj Jaykumar.

HOTEL RASIKA, KOLHAPUR

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Abstract

The Hospitality Services Management System for Online Liquor is a specialized software solution designed to streamline and enhance operations in the online liquor industry. This comprehensive system aims to provide a seamless and user-friendly experience for customers while optimizing the management of liquor products, orders, and customer interactions.

The system offers various modules and functionalities tailored specifically to the online liquor sector. It includes features such as product catalog management, order processing, inventory control, customer management, and secure payment processing. with the product catalog management module, liquor vendors can efficiently organize and showcase their product offerings. Detailed product information, including descriptions, prices, and availability, is readily available to customers, enabling them to make informed purchasing decisions.

The order processing module automates the entire order fulfillment process, from the placement of orders to order tracking and delivery. Customers can easily browse and select their preferred liquor products, add them to their cart, and proceed to checkout. The system handles order validation, updates inventory levels in real-time, and generates order confirmations for both customers and vendors. Inventory control is a critical aspect of the system, ensuring accurate stock management. It provides real-time visibility into inventory levels, allowing vendors to monitor stock availability, set thresholds for reordering, and manage stock replenishment efficiently.

Customer management features enable vendors to maintain customer profiles, manage loyalty programs, and offer personalized recommendations based on customers' preferences and purchase history. This fosters customer engagement and retention, ultimately enhancing customer satisfaction and loyalty. To facilitate secure and seamless transactions, the system integrates with trusted payment gateways, ensuring the confidentiality and integrity of customers' payment information. It supports various payment methods, such as credit cards, digital wallets, and online banking, providing customers with convenient options for completing their transactions.

By leveraging technology and automation, the Hospitality Services Management System for Online Liquor simplifies and streamlines various aspects of the online liquor business. It empowers vendors to efficiently manage their product offerings, process orders, maintain accurate inventory, and provide exceptional customer service. Ultimately, this system contributes to an enhanced online liquor shopping experience for customers while optimizing business operations and driving growth in the competitive online liquor industry.

Thanking you,

Yours faithfully,

Prof.U.H.Kamble
Head of the Department
Information Technology

Prof.A.K.Gupta
Vice-Principal

Ref.No.-JJMCOE/Cv/STTP/2008-09/151/A

Date:- December 27, 2008

To,

Dr. Pranesh Murnal,
Professor & Head,
Department of Applied Mechanics,
Government College of Engineering,
Karad.

Sub :- **Thanking Letter...**

Dear Sir,

We express our sincere gratitude for presiding as a **'Guest of honour'** for the Valedictory function of One Week Short Term Training Program on "MODERN APPROACHES FOR EARTHQUAKE RESISTANT DESIGN OF STRUCTURES" scheduled on 27th December 2008, and giving valuable guidance to the participants.

We hope to receive similar cooperation in future also.

CERTIFICATE

Dr. J. J. Magdum Trust's

Dr. J. J. Magdum College of Engineering,

Jaysingpur – 416 101 .

Ref.No:- JJMCOE/CV/STTP/2008-09/151 Date:- December 27, 2008

This is to certify that,

Mr. Patil Sushant Vasantrao

Miss. Dhavale Pooja Yashawantrao

Miss. Jadhav Snehal Dattatray

have satisfactorily completed the project entitled **" Gas Leakage Detector System By Using Arduino UNO"** in partial fulfillment for award of Bachelor of Engineering Degree in Information Technology by Shivaji University, Kolhapur in Academic Year : 2022-23.

Prof. P. A. Tamgave
[Project Guide]

Prof. R. A. Bharatiya
[Head, IT Department]

Dr. S. B. Patil
[Principal]

External Examiner

Dr. J. J. Magdum College Of Engineering, Jaysingpur

Dr. J. J. Magdum College of Engineering, Jaysingpur I.T. Dept.

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Abstract

Autonomous Robot which follows a line until that line exists. Generally, the line is drawn on the work floor. It can be either black or white. The line can also be normal visible colour or invisible magnetic field or electric field. The Arduino uno follows the line by using Infra-Red Ray (IR) sensors. There are five IR sensors which makes it an IR sensor array. These [illegible] the Arduino uno movement. Arduino uno follows path drawn on the floor. The line will be mainly black on a white surface. If it occurs any line break on its way, the Arduino uno will go forward. If it finds a cross line, the Arduino uno will stop this cross line is start and stop point of Arduino uno movement. Lines and Arduino uno movements can be changed by using programming [illegible] easily. If this Arduino uno detects any obstacle in its path [illegible] any employee or any machine senses it on the predefined path of the Arduino uno, then the Arduino uno will either stop for a few seconds or avoid it, then resume its running on an obstacle-free path.

[illegible] Arduino uno [illegible] the additional feature of this project. Arduino uno can continually detect the surrounding area if fire is detected by the Arduino uno from its current fire sensing path. With the help of an alarm, the Arduino uno gives the indication that fire is detected and continues to alarm while not reaching its final destination.

A
Project Report
On

"Medical Management System."

SUBMITTED BY,

Nayan Navjeevan Khade
Kedar Dattatray Kenjale
Yogeshri Shivaji Babar
Nikita Balkrishna Patil

Under the guidance of
Prof. R.A.Bharatiya.

DEPARTMENT OF INFORMATION TECHNOLOGY,
Dr. J. J. Magdum College of Engineering, Jaysingpur.

Academic Year

2022-23

Dr. J. J. Magdum Trust's

Dr. J. J. Magdum College of Engineering, Jaysingpur.

CERTIFICATE

This is to certify that,

Mr. Nayan Navjeevan Khade.

Mr. Kedar Dattatray Kenjale.

Miss. Yogeshri Shivaji Babar.

Miss. Nikita Balkrishna Patil.

have satisfactorily completed the Project entitled **"Medical Management System"** in partial fulfillment for award of Bachelor of Engineering Degree in Information Technology by Shivaji University, Kolhapur in Academic Year 2022-23.

Project Guide
Prof. R.A. Bharatiya.

Head of IT Dept,
Prof. R.A. Bharatiya.

Principal
Dr. Mrs. S. B. Patil

External Examiner

DR. J.J MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 101

Dr. J. J. Magdum College of Engineering, Jaysingpur.

Information Technology Department

CERTIFICATE

This is to certify that, Report of the project entitled,

"Medical Management System"

is presented before Department Research Committee (DRC) by,

Sr No.	Student Name	Roll No
1	Nayan Navjeevan Khade	32
2	Kedar Dattatray Kenjale	31
3	Yogeshri Shivaji Babar	30
5	Nikita Balkrishna Patil	33

Under the guidance of Prof. R. A. Bharatiya for the academic year 2022-23.

The DRC has consented to give the approval for the said project.

Head,
Department Research Committee, (DRC)
Department of Information Technology

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

ABSTRACT

The medical management system is built in order to replace manual based system to computerize. Here system is expected to be efficient, useful, and affordable on implementing tasks that is instructed by the pharmacy manager. Software does all things in pharmacy like sale, insert new incoming goods, make bills, calculate taxes, and debt, also compute employees' salaries, give information about products, make different statistics as best month to sale some product via provides charts, also manage employees work.

The purpose of Medical Management System is to automate the existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements. Medical management system project used to maintain and track medicine stock inventory detail and store customer and bill detail for medical store.

Medical Store Management System, as described above, can lead to error free, secure, reliable, and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. Here in this medical store system project, we use MySQL database.

This is a very useful application for the pharmacist, which reduces the work load and it will help you to manage all the components of the pharmacy, such as Drug Administration, Invoicing, etc. that is, the increase in the efficiency of processing. This will increase the clinical efficiency and patient convenience, in view of the fact that Ethiopia is in the direction of the pharmaceutical care of the patient. It automates tasks, and account management. In a pharmacy, and the bill inspection is an essential process.

A

Project Report

On

"*Hospital Management System*"

Submitted

by

Name of Student	Roll No
Miss. Supriya Praveensinh Mane	19
Mr. Sourabh Tukaram Murukate	20
Miss. Rutuja Pramod Salunkhe	32
Miss. Smruti Dilip More	50

Under the guidance of

Prof. R. A. Sanadi

DEPARTMENT OF INFORMATION TECHNOLOGY

Dr. J. J. Magdum College of Engineering, Jaysingpur.

Academic Year 2021-2022

Dr. J. J. Magdum Trust's

Dr. J. J. Magdum College of Engineering, Jaysingpur.

CERTIFICATE

This is to certify that,

Miss. Supriya Praveensinh Mane	19
Mr. Sourabh Tukaram Murukate	20
Miss. Rutuja Pramod Salunkhe	32
Miss. Smruti Dilip More	50

has satisfactorily completed the project entitled "Hospital Management System" in partial fulfillment for award of Bachelor of Engineering Degree in Information Technology by Shivaji University, Kolhapur.

Guide
Prof. R. A. Sanadi

Head,
Dept. of IT

Principal

External Examinator

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr. J. J. Magdum College of Engineering, Jaysingpur

Information Technology Department

CERTIFICATE

This is to certify that the project entitled

Hospital Management System

is Presented before Department Research Committee (DRC) by,

Sr.no	Name of Student	Roll No.
1	Supriya P Mane	19
2	Sourabh T Murukate	20
3	Rutuja P Salunkhe	32
4	Smruti D More	50

Under the guidance of Prof. R. A. Sanadi for the academic year 2021-22 The DRC has consented to give the approval for the said Project

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Head,

Department Research Committee (DRC)

Department of Information Technology

ABSTRACT

Our project **Hospital Management system** includes registration of patients, storing their details into the system, and also booking their appointments with doctors.

Our software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. User can search availability of a doctor and the details of a patient using the id. The Hospital Management System can be entered using a username and password. It is accessible either by an administrator or receptionist. Only they can add data into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast.

It is having mainly two modules. One is at Administration Level and other one is of user i.e., of patients and doctors. The Application maintains authentication in order to access the application. Administrator task includes managing doctors' information, patient's information. To achieve this, aim a database was designed one for the patient and other for the doctors which the admin can access. The complaints which are given by user will be referred by authorities.

The Patient modules include checking appointments, prescription. User can also pay doctor's Fee online.

Miniproject

DR. J.J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR
DEPARTMENT OF INFORMATION TECHNOLOGY
SY. BTECH MINI PROJECT LIST
A.Y.2022-23(SEM-IV)

SR_NO	Roll_No	Name	Topic Name	Group No
1	1	ATIGRE PRATHAM UMAJI		
2	3	BHOSALE SAHIL ARVIND		G1
3	2	BHOSALE RAJVARDHAN VIJAY		
4	6	CHOUGALE KETAN BABASO	MINIATURE GOLF	
5	4	CHAVAN AKSHAY DAYANAND		G2
6	10	DESHMANE SHREYASH SHRIKANT		
7	17	GAVHANE ARYAN VIKAS		
8	25	JADHAV SHIVAM SANJAY	FAIR DIVISION	
9	5	CHIKHALKAR SHRIHARI SANDIP		G3
10	13	DUDHAL VIJAY SUNIL		
11	16	GAIKWAD SHREYASH SANTOSH	CARDIOLOGY	
12	7	CHOUGULE AJAY SHIVAJI		G4
13	8	DALAVI SWAPNIL ANANDA		
14	11	DIVATE ATHARV ASHOK	CAR RENTAL SYSTEM	
15	9	*DESAI SALONI DILIP		G5
16	14	*FAKIR MUSKAN MAKBUL		
17	15	*GAIKWAD KALYANI AMOL	UNCROSSED KNIGHTS TOUR	
18	12	*DOMANE SAKSHI YUVARAJ		
19	18	GUJAR SHREYASH ANAND		G6
20	53	*PATIL SAMARTHA AJIT		
21	59	*PHALLE ASMITA RAMESH	HAND OF THE FREE MARKED	
22	19	*GURAV SIDDHI DILIP		
23	39	*MANE GOURI GANESH		G7
24	41	*MANE PRERANA ASHOK		
25	48	PATIL ADITYA RAVSAHEB	SURVELLIANCE	
26	20	*HONGEKAR ANJALI NANDKUMAR		
27	38	*MANE AVANTIKA AJAY		G8
28	42	*MANE SHREYA DINKAR		
29	69	*VASUDEV PRADNYA SUNIL	CRYSTAL CROSSWIND	
30	21	HULWAN SHANTANU JAYDEEP		G9
31	24	JADHAV SANKET SHIVAJI		
32	26	JARAG DNYANESHWAR SAMPAT		
33	28	KALEL AVISHKAR BHARAT	OPPORTUNITY COST	
34	22	*INDALKAR ANTARI SHIVAJI		
35	27	KAJI SAHIL SHABBIR		G10
36	36	*LAYKAR AMRUTA CHANDRAKANT		
37	37	MAGDUM ABHISHEK SHANKAR	DEAD END DETECTOR	
38	23	INGOLE RAVIRAJ NAMDEO		

College of Engineering, Jaysingpur I.T. Dept. J.J.Magdum

39	33	*KOLEKAR SAKSHI AJIT		G11
40	34	KUNDEKAR BHARAT UTTAM		
41	54	PATIL SAMMED GUNDHAR	LANDSCAP GENERATOR	
42	30	KATKAR AYUSH EKNATH		
43	31	KHADE PRATIK TANAJI		G12
44	35	LANJEWAR PALASH NAGSEN	AZULEJOS	
45	32	*KHALATE SAMIDHA PRAMOD		G13
46	47	*PATHAN SHAHIN HAKEEMASAB		
47	48	PATIL ADITYA RAVSAHEB		
48	49	*PATIL ARJU ASHOK	COMMA SPRINKLER	
49	40	MANE KIRAN VILAS		G14
50	44	MOHITE SUYOG SUNIL		
51	52	PATIL MAHESH CHANDRAKANT	GEM ISLAND	
52	43	MANE UTKARSH DILIP		G15
53	45	NIKAM MAHADEV PANDURANG		
54	46	NILKANTH ANSHUL UMESH		
55	51	PATIL JINENDRA RAVINDRA	MOSIAC BROWSING	
56	50	PATIL AVINASH PANDURANG		G16
57	63	*SANGALE AISHWARYA PRAKASH		
58	64	*SHAIKH AYESHASIDDIQA MEHBOOB		
59	70	*WANKAR MUSKAN AMIR	TRAFFIC BLIGHT	
60	55	PATIL SAMMED SHANTINATH		G17
61	62	SANADI SOHEL SALIM		
62	65	SHINDE OMKAR MADHUKAR		
63	68	THORAT RAJVARDHAN DHANAJIRAO	SWAP SPACE	
64	56	PATIL SAMRUDDH DATTATRAY		G18
65	61	RAUT PRATHAMESH PRASHANT		
66	66	SHINDE PRATHMESH RAVINDRA		
67	71	YADAV SWARUP MAHADEV	CIRCULAR DNA	
68	60	*POWAR PALLAVI TANAJI		
69	57	*PATIL SANIKA UTTAM		G19
70	67	*SHINDE VAISHNAVI SANJAY	WHICH PLANET IS THIS?	

Prof. P.A. Tamgave
Miniproject Incharge

Prof. J. T. Patil
Academic Coordinator

Prof. R. A. Sanadi
HOD

Dr. J.J. Magdum College of Engineering, Jaysingpur
I.T. Dept.

Dr. J.J. Magdum College of Engineering
I.T. Dept.

DR. J.J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR
DEPARTMENT OF INFORMATION TECHNOLOGY

SY IT MINI PROJECT(2022-23)
PRACTICAL CONTINUES WORK ASSESSMENT
TERMWORK

Roll No.	Seat No.	PRN No.	Students Name	Mid term	End term	Practical	Out of 25	Total	Sing
				Out of 5	Out of 5	Out of 15		Out of 50	
1	1694	2020081042	ATIGRE PRATHAM UMAJI	4	4	11	19	38	
2	1703	2020081171	BHOSALE RAJVARDHAN VIJAY	2	3	12	17	34	
3	1695	2020081059	BHOSALE SAHIL ARVIND	3	3	10	16	32	
4	1688	2020080804	CHAVAN AKSHAY DAYANAND	4	3	10	17	34	
5	1684	2020081157	CHIKHALKAR SHRIHARI SANDIP	4	4	10	18	36	
6	1704	2020081164	CHOUGALE KETAN BABASO	3	3	9	15	30	
7	1705	2020080829	CHOUGULE AJAY SHIVAJI	3	3	10	16	32	
8	1706	2020081060	DALAVI SWAPNIL ANANDA	3	2	12	17	34	
9	1707	2020081198	*DESAI SALONI DILIP	4	3	13	20	40	
10	1708	2020081165	DESHMANE SHREYASH SHRIKANT	3	4	13	20	40	
11	1709	2020081040	DIVATE ATHARV ASHOK	4	3	9	16	32	
12	1685	2020081025	*DOMANE SAKSHI YUVARAJ	4	3	14	21	42	
13	1689	2019088865	DUDHAL VIJAY SUNIL	4	3	11	18	36	
14	1710	2020081155	*FAKIR MUSKAN MAKBUL	4	4	14	22	44	
15	1686	2020081037	*GAIKWAD KALYANI AMOL	3	2	11	16	32	
16	1711	2020081034	GAIKWAD SHREYASH SANTOSH	3	3	13	19	38	
17	1712	2020081156	GAVHANE ARYAN VIKAS	2	3	11	16	32	
18	1687	2020080978	GUJAR SHREYASH ANAND	4	3	11	18	36	
19	1713	2020081161	*GURAV SIDDHI DILIP	3	3	14	20	40	
20	1714	2020081153	*HONGEKAR ANJALI NANDKUMAR	3	3	13	20	40	

21	1715	2020081200	HULWAN SHANTANU JAYDEEP	2	3	12	17	34	
22	1716	2020080831	*INDALKAR ANTARI SHIVAJI	3	4	13	20	40	
23	1717	2020081170	INGOLE RAVIRAJ NAMDEO	2	3	13	18	36	
24	1696	2020081173	JADHAV SANKET SHIVAJI	3	2	13	18	36	
25	1690	2021079187	JADHAV SHIVAM SANJAY	4	3	11	18	36	
26	1718	2021079053	JARAG DNYANESHWAR SAMPAT	4	3	10	17	34	
27	1719	2021079198	KAJI SAHIL SHABBIR	3	3	13	19	38	
28	1720	2021079192	KALEL AVISHKAR BHARAT	3	3	11	17	34	
29	1721	2021079218	KAMBLE ADITYA RAJU	4	3	11	18	36	
30	1721	2021079077	KATKAR AYUSH EKNATH	2	3	14	19	38	
31	1691	2021079207	KHADE PRATIK TANAJI	3	3	9	15	30	
32	1697	2021079206	*KHALATE SAMIDHA PRAMOD	3	3	11	17	34	
33	1722	2021079209	*KOLEKAR SAKSHI AJIT	3	3	13	19	38	
34	1723	2020081160	KUNDEKAR BHARAT UTTAM	3	3	11	17	34	
35	1724	2021079212	LANJEWAR PALASH NAGSEN	3	3	13	19	38	
36	1725	2021079189	*LAYKAR AMRUTA CHANDRAKANT	4	3	12	19	38	
37	1726	2021079208	MAGDUM ABHISHEK SHANKAR	3	3	13	19	38	
38	1727	2021079066	*MANE AVANTIKA AJAY	3	4	14	21	42	
39	1692	2021079061	*MANE GOURI GANESH	3	2	14	19	38	
40	1682	2021079222	MANE KIRAN VILAS	3	3	9	15	30	
41	1680	2021079190	*MANE PRERANA ASHOK	3	2	11	16	32	
42	1728	2021079171	*MANE SHREYA DINKAR	3	3	13	19	38	
43	1681	2021079114	MANE UTKARSH DILIP	3	3	10	16	32	
44	1729	2021079058	MOHITE SUYOG SUNIL	2	3	11	16	32	
45	1730		NIKAM MAHADEV PANDURANG	2	3	10	15	30	
46	1731		NILKANTH ANSHUL UMESH	2	3	13	18	36	
47	1732	2021079185	*PATHAN SHAHIN HAKEEMASAB	3	3	14	20	40	
48	1698	2021079181	PATIL ADITYA RAVSAHEB	3	3	10	16	32	
49	1733	2021079204	*PATIL ARJU ASHOK	3	3	12	18	36	
50	1734	2021079063	PATIL AVINASH PANDURANG	3	3	11	17	34	
51	1693	2021079199	PATIL JINENDRA RAVINDRA	3	4	12	19	38	
52	1735	2021079110	PATIL MAHESH CHANDRAKANT	3	3	13	19	38	
53	1699	2021079168	*PATIL SAMARTHA AJIT	3	3	12	18	36	

54	1736	2021079186	PATIL SAMMED GUNDHAR	2	3	11	16	32	
55	1701	2021079080	PATIL SAMMED SHANTINATH	3	4	11	18	36	
56	1737	2021079049	PATIL SAMRUDDH DATTATRAY	4	4	14	22	44	
57	1738	2021079112	*PATIL SANIKA UTTAM	3	3	11	17	34	
58	1739	2021079194	*PAWAR SHRADDHA TANAJI	2	3	13	18	36	
59	1700	2021079213	*PHALLE ASMITA RAMESH	3	2	11	16	32	
60	1740	2021079210	*POWAR PALLAVI TANAJI	3	3	13	19	38	
61	1741	2021079179	RAUT PRATHAMESH PRASHANT	3	2	14	19	38	
62	1683	2021079051	SANADI SOHEL SALIM	2	3	9	14	28	
63	1742	2021079052	*SANGALE AISHWARYA PRAKASH	2	3	13	18	36	
64	1743	2021079060	*SHAIKH AYESHASIDDIQA MEHBOOB	3	3	11	17	34	
65	1744	2021079215	SHINDE OMKAR MADHUKAR	3	3	12	18	36	
66	1745	2021079068	SHINDE PRATHMESH RAVINDRA	3	4	14	21	42	
67	1746	2021079214	*SHINDE VAISHNAVI SANJAY	3	3	14	20	40	
68	1702	2021079183	THORAT RAJVARDHAN DHANAJIRAO	3	2	14	19	38	
69	1747	2021079211	*VASUDEV PRADNYA SUNIL	4	3	13	20	40	
70	1748	2021079217	*WANKAR MUSKAN AMIR	3	3	11	17	34	
71	1749	2021079219	YADAV SWARUP MAHADEV	3	3	9	15	30	

Prof. P. A. Tamgave
Subject Incharge

Prof. J. T. Patil
Academic Coordinator

Prof. R. A. Bharatiya
HOD

Dr. J. J. Magdum College of Engineering, Jaysingpur
I.T. Dept.

Dr. J. J. Magdum College of Engineering, Jaysingpur
I.T. Dept.

A

Project Report

"Project Title- Cardiology"

Submitted by,

Name	Roll No.
Shrihari Chikhalkar	5
Vijay Dudhal	13
Shreyash Gaikwad	16

Under the guidance of

Prof. Ms J. T. Patil

DEPARTMENT OF INFORMATION TECHNOLOGY
Dr. J. J. Magdum College of Engineering, Jaysingpur
Academic Year
2022-2023

DR. J. J. MAGDUM COLLEGE OF ENGINEERING,
JAYSINGPUR.DEPARTMENT OF INFORMATION
TECHNOLOGY.

CERTIFICATE

This is to certify that,

Mr. Shrihari Chikhalkar

Mr. Vijay Dudhal

Mr. Shreyash Gaikwad

Students of Second Year Information Technology of Dr. J. J. Magdum College of Engineering, Jaysingpur has submitted project report on the subject

"CARDIOLOGY"

Under my supervision and guidance in a satisfactory manner in the academic year 2022 – 2023 Sem IV.

Place: Jaysingpur.

Date:

GUIDE
Prof. Ms. J. T. Patil

HOD
Prof. Mr. R. A. Bharatiya

PRINCIPAL
Dr. **S. B.Patil**

Dr. J. J. Magdum College of Engineering, Jaysingpur,

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

CERTIFICATE

This is to certify that, the project entitled, Cardiology is presented before Department Research Committee (DRC) by,

Sr. No.	Name of Student	Roll No.
1	Shrihari Chikhalkar	5
2	Vijay Dudhal	13
3	Shreyash Gaikwad	16

Under the guidance of Prof. J. T. Patil for the academic year 2022-23.The

DRC has consented to give the approval for the said project.

Head,

Department Research Committee, (DRC)

Department of Information Technology

DR. J.J.MAGDUM COLLEGE OF ENGINEERING ★ JAYSINGPUR 416101

Dr. J. J. Magdum College of Engineering, Jaysingpur,

ABSTRACT

The Twenty-One Card Trick, also known as 11th card trick or three column tricks, is a simple self-working card trick that uses basic mathematics to reveal users selected card. The game uses selection of 21 cards out of a standard deck. These are shuffled and player selects one at random. The cards are then dealt out face up in three columns of 7 cards each. And player points at one card.

INDEX

A

Mini Project

Report On

"Project Title-
Dead End Detector"

Submitted by,

Name	Roll No.
Indalkar Antari Shivaji	22
Kaji Sahil Shabbir	27
Laykar Amruta Chandrakant	36
Magdum Abhishek Shankar	37

Under the guidance of

Prof Pranoti Tamgave

DEPARTMENT OF INFORMATION TECHNOLOGY
Dr. J. J. Magdum College of Engineering, Jaysingpur
Academic Year
2022-2023

DR. J. J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR.

DEPARTMENT OF INFORMATION TECHNOLOGY.

CERTIFICATE

This is to certify that,

Miss.Indalkar Antari Shivaji.

Mr.Kaji Sahil Shabbir.

Miss.Laykar Amruta Chandrakant.

Mr.Magdum Abhishek Shankar.

Students of Second Year Information Technology of Dr. J. J. Magdum College of Engineering, Jaysingpur has submitted project Synopsis on the subject

"Dead End Detector"

Under my supervision and guidance in a satisfactory manner in the academic year 2021 – 2022 Sem IV.

Place: Jaysingpur.

Date: 31/5/2023

GUIDE	HOD	PRINCIPAL	External
Prof. Pranoti Tamgave	**Prof. R. A. Sanadi**	**Prof. S. B.Patil**	

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

CERTIFICATE

This is to certify that, the project entitled, Miniature Golf is presented before Department Research Committee (DRC) by,

Sr. No.	Name of Student	Roll No.
1	Indalkar Antari Shivaji	22
2	Kaji Sahil Shabbir	27
3	Laykar Amruta Chandrakant	36
4	Magdum Abhishek Shankar	37

Under the guidance of Prof. Pranoti Tamgave for the academic year 2021-22.

The DRC has consented to give the approval for the said project.

Head,

Department Research Committee, (DRC)

Department of Information Technology

DR. J.J. MAGDUM COLLEGE OF ENGINEERING ★ JAYSINGPUR 416101

INDEX

ABSTRACT

The mini project titled "Dead End Detector" focuses on developing an algorithmic solution for identifying dead ends in a given network graph. Dead ends refer to nodes in a graph that have only one outgoing edge or no outgoing edges at all, making them unreachable from other nodes in the network.

The project aims to design and implement an efficient dead end detection system using the ICPC (International Collegiate Programming Contest) problem as a reference. The system utilizes graph traversal techniques to identify and highlight dead ends within a given graph. The project involves the following key components:

1. Graph Representation: The project begins with creating an appropriate data structure to represent the network graph. This may involve using adjacency lists, adjacency matrices, or other graph representations.

2. Graph Traversal Algorithm: An algorithmic approach is developed to traverse the graph and identify dead ends. This may include using depth-first search (DFS), breadth-first search (BFS), or any other suitable graph traversal technique.

3. Dead End Detection: The traversal algorithm is applied to the graph to identify nodes that qualify as dead ends. These nodes are isolated and have no further connections within the graph.

4. Visualization and Output: The identified dead ends are visually highlighted or displayed as output, allowing users to understand and analyze the structure of the given graph.

The abstract highlights the key objectives of the mini project, which include developing an efficient algorithmic solution for dead end detection, creating an appropriate graph representation, and providing a visual output to enhance understanding. The project aims to contribute to the field of graph theory and algorithm design by addressing the specific problem of dead end detection in network graphs.

A

Mini project

REPORT ON

TITLE:

"SWAP SPACE"

Submitted by,

Sr. No.	Name of Student	Roll No.
1)	Sammed Patil.	55
2)	Sohel Sanadi.	62
3)	Omkar Shinde.	65
4)	Rajvardhan Thorat.	68

Under the guidance of

Prof. P.R.DESAI

DEPARTMENT OF INFORMATION TECHNOLOGY
Dr. J. J. Magdum College of Engineering, Jaysingpur
Academic Year
2022-2023

DR. J. J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR.

DEPARTMENT OF INFORMATION TECHNOLOGY.

CERTIFICATE

This is to certify that,

Sammed Patil 55
Sohel Sanadi 62
Omkar Shinde 65
Rajvardhan Thorat 68

Students of Second Year Information Technology of Dr. J. J. Magdum College of Engineering, Jaysingpur has submitted project Synopsis on the subject

"swap space"

Under my supervision and guidance in a satisfactory manner in the academic year 2021 – 2022 Sem IV.

Place: jaysingpur

Date:31/05/2023

Guide	HOD	PRINCIPAL
Prof. P.R. Desai	Prof. R.A.Bharatiya	Prof.S.B. Patil

External

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

CERTIFICATE

This is to certify that, the project entitled, Miniature Golf is presented before Department Research Committee (DRC) by,

Sr. No.	Name of Student	Roll No.
1)	Sammed patil	55
2)	Sohel sanadi	62
3)	Omkar shinde.	65
4)	Rajvardhan thorat	68

Under the guidance of Prof. Pranoti Tamgave for the academic year 2021-22.

The DRC has consented to give the approval for the said project.

Head,

Department Research Committee, (DRC)

Department of Information Technology

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr.J.J.Magdum College Of Engineering, Jaysingpur

Swap space

INDEX

ABSTRACT

Welcome to Swap Space. A computer has a sufficient amount of physical memory but most of the time we need more so we swap some memory on disk. Swap space is a space on a hard disk that is a substitute for physical memory. It is used as virtual memory which contains process memory images. Whenever our computer runs short of physical memory it uses its virtual memory and stores information in memory on disk. Swap space helps the computer's operating system in pretending that it has more RAM than it actually has. It is also called a swap file. This interchange of data between virtual memory and real memory is called swapping and space on disk as "swap space".

Virtual memory is a combination of RAM and disk space that running processes can use. **Swap space** is the **portion of virtual memory** that is on the hard disk, used when RAM is full.

Seminar

Dr. J.J. Magdum Trust's
Dr. J.J. Magdum College of Engineering, Jaysingpur
Department of Information Technology
2022-2023

Date: 22/05/2023

NOTICE

(Seminar)

All the students of TY-IT are informed that, prepare your final seminar report in the below format up to 27th May, 2023 . Check it from your respective Seminar guide. The sample copy of seminar report is given on Google classroom. The link of Google classroom is, https://classroom.google.com/c/NTIwMjEyMDQyMTEz?cjc=hoznx7m.

Sr. No.	Contents		Page No.
1	**Acknowledgement**		
2	**Abstract**		
3	**Chapter 1**	**Introduction** 1.1 Introduction to proposed topic 1.2 Literature Survey 1.3 Significance of the topic	
4	**Chapter 2**	**Proposed Technology** 1.1 Introduce to this technology 1.2 Types 1.3 Components 1.4 Tools & Techniques	
5	**Chapter 3**	**Application** 1.1 Describe various application 1.2 Uses	
6	**Chapter 4**	**Discussion** 1.1 Merits and Demerits 1.2 Hardware & Software requirements	
7	**Chapter 5**	**Conclusion**	
8	**References**		

Chendke

Prof. A. G. Chendke
Seminar In charge

Dr. J.J. Magdum College of Engineering, Jaysingpur I.T. Dept.

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Prof. R. A .Bharatiya
HOD IT

Dr. J. J. Magdum Trusts

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

TY .Btech SEM-V I(2022-23) Subject-Seminar Topic Final

Roll No.	Student Name	First Topic Name	Second Topic Name	Final Topic
1	Sangramsinh Kantilal Bhusnar	5 G wireless technology	Wireless network security	Wireless network security
2	Bhushan Dandavate	Virtual gaming	Meta verse	Virtual gaming
3	Desai Shubham B.	Librabty management web app	Data base connectivity using SQL	Librabty management web app
4	Vaibhavi Vinod Gaikwad	Machine Learning	Data Compression	Machine Learning
5	Avantika Janardan Jambhale	Artificial Intelligence	Data Compression	Artificial Intelligence
6	Aishwarya Kale	Big Data	Cloud Computing	Big Data
7	Purushottam sanjay kamble	Digital Signature	Cyber security	Cyber security
8	Swacchand kasar	e- cash payment system	spring boot	spring boot
9	Sudiksha Gajanan khedekar	Virtual Reality	Cloud computing	Virtual Reality
10	Shweta Dhananjay khot	Graphics processing unit	Firewall	Graphics processing unit
11	Yashoda Tukaram Kolape	Blockchain	Mobile computing	Blockchain
12	Manali Rajendra Mankar	DOS attack	Wireless network security	DOS attack
13	Patil pratiksha Chandrakant	Database security in Cloud computing	Product management system	Database security in Cloud computing
14	Sarvesh patil	Invisible technology	mobile application development	Invisible technology
15	Omkar Dagadu Pinjari	Cloud computing using Amazon web service	Wireless Application Protocol	Cloud computing using Amazon web service
16	Suyog Shivaji Powar	Cloud Computing	Internet Of Things	Internet Of Things
17	Shital Sanjay Salunkhe	Search engine optimization	Java Swing	Search engine optimization
18	Sant Mayuri	Screenless Display	DOS attack	Screenless Display
19	Pratiksha Balaso Satape	Network traffic Management	Software testing	Network traffic Management
20	Prajakta ramesh vhankhande	SDLC	Cloud Security	Cloud Security
21	sutar Swaliha	Track my parcel- web app		Track my parcel- web app
22	Varad Shinde	Game development	Ethical Hacking	Ethical Hacking
23	Ganesh Yewate	Quantom Computing	Artificial Inteligence	
24	Swapnil Kiran Abhrange	Cyber attacks	Construction Consultancy	Construction Consultancy
25	Prathmesh Pradeep Aitawade	Flutter Application Development	Web Application	Flutter Application Development
26	Ana Raju Bandi	Operating system	The future of IOT	The future of IOT
27	Anjali Bansode	Question paper manage survey		Question paper manage survey
28	Kirtikumar Ashok Birnale	Barcod technology	Man in middle attack	Man in middle attack
29	Chavan Aishwarya	Data mining applications using google cloud platform	Encryption using google cloud platform	Data mining applications using google cloud platform
30	Choudhari Siddhant Sachin	Digital twin tchnique	Mobile Infrastructure	Digital twin tchnique

31	Anand Chougule	ADAS advance driving assist system	Graphical Processing Unit	ADAS advance driving assist system
32	Dhakane Jyoti Sudhakar	Android app development	IoT	Android app development
33	Dhavale Om	Hologram	Smart Devices	
34	Ajay Dhananjay Dhokale.	Driver Drowsiness detection	Virtual Reality	Driver Drowsiness detection
35	Samruddhi devidas fase	Home Automation	Wireless USB	Home Automation
36	Gurav Prathamesh	hyperleger fabric	Ethereum Blockchain	Ethereum Blockchain
37	Sakshi Sharad Hargude	Weather App.	Portfolio Website	Weather App.
38	Hulle Abhijit Padappa	Near field Communication	Snap Dragoan	Snap Dragoan
39	Ingale Aswini	Data compresion technique	Multi-touch Technology	Data compresion technique
40	JADHAV SHIVAM RAMCHANDRA	CYBER TERRRORISM	STORAGE AREA NETWORK	CYBER TERRRORISM
41	Preeti Jalindar Kadam	Chatgpt Technology	Machine Learning	Chatgpt Technology
42	Kamble Yogesh			
43	Kamble Hrishkesh Deepak	Robotics process automation	5 G technology	Robotics process automation
44	Neha Ulhas Khanaj	Google glass	GSM	Google glass
45	Sakshi Mohan Kore	Rasberry pi	Finger scan technology	Rasberry pi
46	Shreyash Nilesh Kothari	Barcode	Virtual Reality	Virtual Reality
47	Sanket Kumbhar	Cyber security and ethical hacking (SQL Injection)	Social engineering attacks	Cyber security and ethical hacking (SQL Injection)
48	Vaishnavi Vishwas Lad	Gi-Fi Technology	Multi-touch Technology	Multi-touch Technology
49	Anuradha Maruti Lohar	Fishing Attack	Blockchain_Technology	Fishing Attack
50	Rushikesh Jaykumar Magdum	Artificial intelligence	Cloud computing	Cloud computing
51	Ajeem Aniskhan Makandar	ATM using Fingerprint	tableau python	tableau python
52	Pratiksha Pravin Mane	Web Scraping	HCI- Human computer Interface	Web Scraping
53	Sonal vijay methe	Chatbot design and development	image processing using open CV	image processing using open CV
54	Vinayak Mhetre	Night vision technology	Voice Portal	Night vision technology
55	Sainath Vilas Mohite	Supervised machine learning	Unsupervised machine learning	Supervised machine learning
56	more abhijeet venkatrao	Quantum Computing and its Applications	Robotics and automation	Robotics and automation
57	Swapnil Anil Pakhare	Deep Learning Techniques for Image Recognition and Object Detection	Natural Language Processing: Applications, Challenges and Future Directions	Deep Learning Techniques for Image Recognition and Object Detection
58	Pradeep Mahadev Parit	Metaverse	Hologram	Metaverse
59	Aditya Dhondiram Alias Balasaheb Patil	Ambient Intelligence	Digital Signature	Ambient Intelligence
60	Pournima Pandurang Patil	Cloud computing or technology	Eye gaze comunication	Eye gaze comunication
61	Sakshi Rajendra Patil	Phishing	Opera(Web browser)	
62	Sakshi Sanjay Patil	BlockChain Technology	Blue Brain Technology	
63	Sayali Rajaram Patil	MANET	Virtual Instrumentation	
64	Patil Sneha Ganpati	Web of Things (WOT)	Computer forensics	Web of Things (WOT)

65	Subodh Patil	Autopiolet	5G	Autopoilet
66	Rhushabh Pethkar	Onion Routing	Networking in Cloud Security	Onion Routing
67	Sourabh Pethkkar	Cloud Security	IoT Security	IoT Security
68	Gauri arun pise	Smart card	Green computing	
69	Shubhangi Rajesh Pujari	Data security in local network	Internet of Things	Data security in local network
70	Samruddhi savaikar	Silverlight	Cyber bullying detection	Cyber bullying detection
71	Aftab Firojkhan Shaikh	Intergreated Circuit	Automatic Sanitizer unnel Machine	Automatic Sanitizer unnel Machine
72	Vaibhav Todkar	IPV 6	Quantum Computing	
73	Ruchita Yadav	Role of AI and ML in robotics	Machine learning	Role of AI and ML in robotics
74	Aniruddha parshuram yalgudre	Web 3.O Technology	touch screen	Web 3.O Technology
75	Rajkumar Balasaheb Ainapure	Anjular JS framework	Big Data	Anjular JS framework
76	Patil Vrushab	Block chain technology	Robotics	Block chain technology
77				

Prof. A. G. Chendke
Seminar Coordinator

Prof. J. T. Patil
Academic Coordinator

Prof. R. A. Bharatiya
HOD

Dr. J. J. Magdum College of Engineering
I.T. Dept.

Dr. J. J. MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR 416101

Dr. J. J. Magdum Trusts

Dr. J. J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

TY Btech SEM-VI (2022-23)

TERMWORK(Marks-25)

Subject-seminar

Roll no.	Seat No.	Student Name	Topic	Information	Presentat	Interactio	PPT	Total
			Out of 5	Out of 5	Out of 5	Out of 5	Out of 5	out of 25
8	3814	KASAR SWACCHAND SAMBHAJI	4	4	4	4	4	20
14	3815	PATIL SARVESH AVINASH	4	2	2	2	3	13
77	3816	KAMBLE YOGESH SATYAWAN	3	3	2	2	2	12
24	3817	ABHRANGE SWAPNIL KIRAN	5	5	4	4	5	23
75	3818	AINAPURE RAJKUMAR BALASAHEB	4	5	4	4	5	22
25	3819	AITAWADE PRATHMESH PRADEEP	5	5	4	4	5	23
26	3820	* BANDI ANA RAJU	5	5	4	4	5	23
27	3821	* BANSODE ANJALI PRAKASH	5	5	4	4	4	22
1	3822	BHUSNAR SANGRAMSINH KANTILA	5	4	4	4	4	21
28	3823	BIRNALE KIRTIKUMAR ASHOK	5	5	4	4	4	22
29	3824	* CHAVAN AISHWARYA VILAS	5	5	4	4	5	23
30	3825	CHOUDHARI SIDDHANT SACHIN	5	5	4	4	4	22
31	3826	CHOUGULE ANAND DILIP	5	5	4	4	5	23
2	3827	DANDAVATE BHUSHAN SADASHIV	4	4	3	3	4	18
3	3828	DESAI SHUBHAM BHIMGONDA	4	4	3	3	4	18
32	3829	* DHAKANE JYOTI SUDHAKAR	3	4	3	3	4	17
33	3830	DHAVALE OM CHANDRASHEKHAR	5	5	4	4	4	22
34	3831	DHOKALE AJAY DHANANJAY	5	5	4	4	4	22
35	3832	* FASE SAMRUDDHI DEVIDAS	5	5	4	4	4	22
4	3833	* GAIKWAD VAIBHAVI VINOD	5	5	4	4	5	23
36	3834	GURAV PRATHAMESH GANPATI	5	5	4	4	5	23
37	3835	* HARGUDE SAKSHI SHARAD	4	4	3	3	4	18
38	3836	HULLE ABHIJIT PADAPPA	4	4	4	4	4	20
39	3837	* INGALE ASHWINI RAMESH	4	4	4	4	5	21
40	3838	JADHAV SHIVAM RAMCHANDRA	5	4	4	4	5	22
5	3839	* JAMBHALE AVANTIKA JANARDAN	5	5	4	4	5	23
41	3840	* KADAM PREETI JALINDAR	4	4	5	4	4	21
6	3841	* KALE AISHWARYA SUBHASH	5	4	4	4	4	21
43	3842	KAMBLE HRISHIKESH DEEPAK	4	4	3	4	5	20
7	3843	KAMBLE PURUSHOTTAM SANJAY	4	4	3	3	4	18
44	3844	* KHANAJ NEHA ULHAS	5	5	4	5	4	23
9	3845	* KHEDEKAR SUDIKSHA GAJANAN	4	4	3	4	4	19
10	3846	* KHOT SHWETA DHANANJAY	4	4	3	4	3	18
11	3847	* KOLAPE YASHODA TUKARAM	5	5	5	4	4	23
45	3848	* KORE SAKSHI MOHAN	4	4	4	4	5	21
46	3849	KOTHARI SHREYASH NILESH	4	4	5	4	5	22
47	3850	KUMBHAR SANKET SANJAY	5	5	4	4	5	23
48	3851	* LAD VAISHNAVI VISHWAS	5	5	5	4	4	23
49	3852	* LOHAR ANURADHA MARUTI	5	4	4	5	5	23
50	3853	MAGDUM RUSHIKESH JAYKUMAR	5	4	5	5	4	23
51	3854	MAKANDAR AJEEM ANISKHAN	5	4	4	4	4	21
52	3855	* MANE PRATIKSHA PRAVIN	4	4	5	4	5	22
12	3856	* MANKAR MANALI RAJENDRA	4	4	4	4	4	20
53	3857	* METHE SONAL VIJAY	5	5	5	4	4	23
54	3858	MHETRE VINAYAK SADASHIV	4	5	4	4	4	21
55	3859	MOHITE SAINATH VILAS	5	5	5	3	4	22
56	3860	MORE ABHIJEET VENKATRAO	5	4	4	4	5	22
57	3861	PAKHARE SWAPNIL ANIL	5	4	4	4	4	21
58	3862	PARIT PRADEEP MAHADEV	4	4	3	4	4	19
62	3863	* PATIL SAKSHI SANJAY	4	5	4	4	4	21
59	3864	PATIL ADITYA DHONDIRAM ALIAS I	4	4	3	4	4	19
60	3865	* PATIL POURNIMA PANDURANG	5	3	2	3	2	15
13	3866	* PATIL PRATIKSHA CHANDRAKANT	5	5	4	4	5	23

61	3867	* PATIL SAKSHI RAJENDRA	4	4	4	4	3	19
63	3868	* PATIL SAYALI RAJARAM	5	4	4	5	5	23
64	3869	* PATIL SNEHA GANPATI	5	4	5	3	4	21
65	3870	PATIL SUBODH RAVINDRA	4	4	4	3	3	18
76	3871	PATIL VRUSHAB BAJIRAO	3	2	3	3	3	14
66	3872	PETHKAR RHUSHABH MANISH	5	4	4	5	5	23
67	3873	PETHKAR SOURABH GIRISH	4	4	3	4	4	19
15	3874	PINJARI OMKAR DAGADU	4	2	2	2	3	13
68	3875	* PISE GAURI ARUN	4	5	5	4	4	22
16	3876	POWAR SUYOG SHIVAJI	4	4	4	4	4	20
69	3877	* PUJARI SHUBHANGI RAJESH	5	4	4	4	5	22
17	3878	* SALUNKHE SHITAL SANJAY	5	5	4	4	5	23
18	3879	* SANT MAYURI DEVANAND	4	4	4	4	4	20
19	3880	* SATAPE PRATIKSHA BALASO	5	5	4	4	5	23
70	3881	* SAVAIKAR SAMRUDDHI SHRIHAR	5	4	5	5	4	23
71	3882	SHAIKH AFTAB FIROJKHAN	4	3	4	4	3	18
22	3883	SHINDE VARAD SUDARSHAN	4	4	4	4	4	20
21	3884	* SUTAR SWALIHA INAYATULLA	5	5	4	4	5	23
72	3885	TODKAR VAIBHAV DEVBA	4	4	4	4	4	20
20	3886	* VHANKHANDE PRAJAKTA RAMES	4	4	3	3	4	18
73	3887	* YADAV RUCHITA BHARAT	4	4	4	5	5	22
74	3888	YALGUDRE ANIRUDDHA PARSHUR	5	4	4	4	4	21
23	3889	YEWATE GANESH GOVIND	5	5	4	4	5	23
42								0

Subject Incharge Exam Incharge Academic Co-ordinator HOD IT Departmen

Dr. J.J. Magdum College of Engineering, Jaysingpur
I.T. Dept.

DR. J.J. MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR
416101

A

Seminar On

"Data Mining Applications Using Google Cloud Platform"

Submitted by,
Ms. Aishwarya Vilas Chavan

Under the guidance of

Prof. A. G. Chendke

DEPARTMENT OF INFORMATION TECHNOLOGY

DR. J. J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR

ACADEMIC YEAR

2022-2023

DR. J. J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR.

DEPARTMENT OF INFORMATION TECHNOLOGY.

CERTIFICATE

This is to certify that,

Ms. Aishwarya Vilas Chavan

Students of Third Year Information Technology of Dr. J. J. Magdum College of Engineering, Jaysingpur has submitted Seminar report on the subject

"Data Mining Applications Using Google Cloud Platform"

Towards the partial filament of TY B.Tech in Information Technology for the academic year 2022-23. This Report Represent the benefited work done by Aishwarya Vilas Chavan.

Place: Jaysingpur.

Date:

EMINAR GUIDE	SEMINAR COORDINATOR	HOD
Prof. A. G. Chendke	Prof. A. G. Chendke	Prof. R. A. Bharatiya

Principal

Prof . S. B. Patil

(External)

B. S. Jadhav

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr. J. J Magdum College of Engineering, Jaysingpur
Shivaji University, Kolhapur
Academic Year 2022-23.

INDEX

Dr. J. J. MAGDUM COLLAGE OF ENGINEERING, JAYSINGPUR.

Department of Information Technology

A SEMINAR REPORT ON,

"IPv6 Addressing"

Submitted by,

Vaibhav Devba Todkar

Under the guidance of

Prof. A. S. Patil

DR. J. J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR.

DEPARTMENT OF INFORMATION TECHNOLOGY.

CERTIFICATE

This is to certify that,

Mr. Vaibhav Devba Todkar

Students of Third Year Information Technology of Dr. J. J. Magdum College of Engineering, Jaysingpur has submitted Seminar report on the subject

"IPv6 Addressing"

Towards the partial fulfillment of TY B.Tech in Information Technology for the academic year 2022-23.This Report Represent the benefited work done by Vaibhav Devba Todkar.

Place: Jaysingpur.

Date:

SEMINAR GUIDE	SEMINAR COORDINATOR	HOD
Prof. A. S. Patil	**Prof. A. G. Chendke**	**Prof. R. A. Bharatiya**

PRINCIPAL	EXTERNAL
Dr. Mrs. S. B. Patil	B. S. Jadhav

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr. J. J Magdum College of Engineering, Jaysingpur
Shivaji University, Kolhapur
Academic Year 2022-23.

INDEX

Dr. J. J. MAGDUM COLLEGE OF ENGINEERING,

JAYSINGPUR.

Department of Information Technology

A SEMINAR REPORT ON ,

"Phishing"

Submitted by,
Sakshi Rajendra Patil.

Under the guidance of,

Prof. Mrs. A.S.Patil.

DEPARTMENT OF INFORMATION TECHNOLOGY

Dr. J. J. MAGDUM COLLEGE OF ENGINEERING,

JAYSINGPUR.

CERTIFICATE

This is to certify that , Sakshi Rajendra Patil Student of Third Year Information Technology Dr. J. J. Magdum college of Engineering, Jaysingpur have satisfactorily completed the seminar on ,

"Phishing"

Towards the partial fulfill of TY B.Tech in information Technology for the academic year 2022-23.This Report Represent the benefited work done by student.

Place: Jaysingpur
Date:

Seminar Guide (Prof.A.S.Patil)	Seminar Co-Ordinator (Prof.A.G.Chendke)	HOD (Prof.R.A.Bharitiya)

Principle
(Dr.S.B.Patil)

External Examiner
B.S. Jadhav

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Dr. J. J Magdum College of Engineering, Jaysingpur
Shivaji University, Kolhapur
Academic Year 2022-23.

INDEX

subject - STTP/FDP attended.

Sr. No	Name of Faculty	Name of workshop	Duration of w	Place(Name of College)
1	Ms. S. J. Chougule	Amazon web services cloud	One day	Jjmcoe
		Research methodology	Two day	Bharati Vidyapeeth, kolhapur
		Reasearch funding schemes and writing proposal	One day	JJMCOE
		Power BI	One day	JJMCOE
2	Pallavi R. Desai	AWS cloud	1 day	Dr. JJMCOE
		Data Visualization using power BI	1 day	Dr. JJMCOE
		Research Methodology: Tools and Techniques	2 days	Bharati Engineering college , Kolhapur
		Deep Learning	1 week	VIIT, Pune
3	Prof. P. R. Patil	Amazon web services cloud	ONE DAY	JJMCOE
		Data visualization using power BI	ONE DAY	JJMCOE
4	Ms. Jayshree T. Patil	"Deep Learning Application Development, Tools and Research"	28th Feb -4th	VIIT,Pune
		"Research Methodology: Tools and Techniques"	24th March -2	Bharati Vidyapeeth's College of Engineering,Kolhapur.
		One Day FDP on "Data Analysis using Visualization Tools-An Industry Approach"	31st March 20	Dr. JJMCOE, Jaysingpur.
5	Prof.A. G. Chendke	AWS cloud	1 day	Dr. JJ Magdum college of Engineering, Jaysingpur.
		Research Funding scheme and Writing Proposals	1 day	Dr. JJ Magdum college of engg. Jaysingpur.
		Research Methodology: Tools and Techniques	2 day	Bharati Vidyapeeth's college of engg.Kolhapur.

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Dr. J.J. Magdum College of Engineering, Jaysingpur I.T. Dept.

STTP/FDP attended

		Data analysis using Visulization Tools-An Industry Approach	1 day	Dr. JJ Magdum college of Engg.Jaysingpur
6	Prof. R.A. Bharatiya	Data analysis using Visulization Tools-An Industry Approach	1 day	Dr. JJ Magdum college of Engg.Jaysingpur
		AWS cloud	1 day	Dr. JJ Magdum college of Engineering, Jaysingpur.
7	Prof. S.B. Holkar	Data analysis using Visulization Tools-An Industry Approach	1 day	Dr. JJ Magdum college of Engg.Jaysingpur
		AWS cloud	1 day	Dr. JJ Magdum college of Engineering, Jaysingpur.
		Research Methodology: Tools and Techniques	2 day	Bharati Vidyapeeth's college of engg.Kolhapur.
		Research Funding scheme and Writing Proposals	1 day	Dr. JJ Magdum college of engg. Jaysingpur.
8	Prof. P.A. Tamagve	Data analysis using Visulization Tools-An Industry Approach	1 day	Dr. JJ Magdum college of Engg.Jaysingpur
		AWS cloud	1 day	Dr. JJ Magdum college of Engineering, Jaysingpur.
		Research Methodology: Tools and Techniques	2 day	Bharati Vidyapeeth's college of engg.Kolhapur.
		Research Funding scheme and Writing Proposals	1 day	Dr. JJ Magdum college of engg. Jaysingpur.

CERTIFICATE

This certificate declares that

Sayali Bhushansiha Holkar

has successfully completed two days online FDP on "Research Methodology: Tools and Techniques" organized by Department of Computer Science & Engineering of Bharati Vidyapeeth's College of Engineering, Kolhapur under lead college Shivaji University, Kolhapur from 24th March to 25th March 2023

Mr. V. D. Chougule
Coordinator

Ms. A. M. Yadav
Coordinator

Mrs. S. M Mulla
Convener

Dr. V. R. Ghorpade
Principal

CERTIFICATE

This certificate declares that

Rajesh Appa Bharatiya

has successfully completed two days online FDP on "Research Methodology: Tools and Techniques" organized by Department of Computer Science & Engineering of Bharati Vidyapeeth's College of Engineering, Kolhapur under lead college Shivaji University, Kolhapur from 24th March to 25th March 2023

Mr. V. D. Chougule Coordinator	Ms. A. M. Yadav Coordinator	Mrs. S. M Mulla Convener	Dr. V. R. Ghorpade Principal

Dr. J. J. Magdum
Trust's

DR. J. J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR

Your Dream, Our Mission

An ISO 21001: 2018 Cetrified Institute
NAAC 'A' grade accredited Institute

Certificate

This is to Certify that Dr/Prof/Mr/ Ms/Mrs Sadhana J. Chougule has attended One Day Workshop on **"Research Funding Scheme and Writing Proposals"** Organised by Research and Development Cell held on

18th March 2023.

Dr. D. B. Desai
Workshop Coordinator

Dr. Mrs. S. B. Patil
Principal

Dr. S. S. Admuthe
Campus Director

DR. J.J.MAGDUM COLLEGE OF ENGINEERING ★ JAYSINGPUR 416101

CERTIFICATE OF PARTICIPATION

This Certificate is awarded to

Ms. Jayshree T. Patil

For actively participating in 5 days Faculty Development Program on "Deep Learning Application Development, Tools and Research" Organized By Department of Artificial Intelligence and Data Science, VIIT, Pune,India held from 28th February-4th March 2023.

Mr. Prasad Chaudhari
Assistant Professor
AI&DS Dept, VIIT

Mr. Yashwant Ingle
Assistant Professor
AI&DS Dept, VIIT

Dr. Parikshit Mahalle
Head of Dept
AI&DS

Dr. Vivek Deshpande
Director-VIIT, Pune

subject - STTP/FDP conducted.

Number of Seminars/conferences/workshops conducted by the institution during the year			
Year	**Name of the workshop/ seminar**	**Number of Participants**	**Date From – To**
2022-23	Data Analysis using visualisation tools- An Industry	22	31/03/2023
2022-23	Linux Basics	20	3/12/2023

Dr. J.J.Magdum College of Engineering, Jaysingpur
I.T. Dept.

DR. J.J.MAGDUM COLLEGE OF ENGINEERING ★ JAYSINGPUR 416101

STTP/FDP Conducted

Lead College Program Proposal

	To, The Director TKIET, Warananagar.
Name of the College/Institute Date(s) of Event-	Dr. J. J. Magdum College of Engineering, Jaysingpur Proposed date 31st January2023
Name of Activity/Program	One Day Faculty Development Program on: "Data Analysis using visualization tools –an Industry approach"
Activity Type Student/Academic/Research/Cultural/Sports/other)	Academic
Target Participants(Students/Faculty/Nonteaching/etc.)	Faculty membersfromComputerScience,InformationTechnology, Electronics, Civil and MechanicalEngineering.
Name of the Coordinator	Prof. R.A.Sanadi
Objectives of the program	The Objective of this program is to expose the faculty members of nearby colleges in training and education to improve occupational &technical knowledge as per the Industry need. This workshop provides hands-on for the software tools which are being used in the industry for data visualization. It will enhance the knowledge of the faculties for the state of the art technologies as per the industry need.
Abstract of program	The purpose of this workshop is to develop skills and techniques necessary to bridge the gap between academia and industry, skill up gradation. It will help the faculties to upgrade student knowledge as per the industry need. The hands on session will again help to increase the practical knowledge as compare to theoretical knowledge.

DR. J.J.MAGDUM COLLEGE OF ENGINEERING ★ JAYSINGPUR 416101

Dr. J. J. Magdum Trust

Dr. J. J. Magdum College of Engineering, Jaysingpur

ISO 21001:2018 CERTIFIED INSTITUDE

Accredited with "A" Grade by NAAC

Department of Information Technology

Faculty Development Cell

Certificate

* * * * *

This is to Certify that, Mr./Ms./Mrs./ _____ of _____

Department from _____ has attended One Day workshop on **"Data Analysis using Visualization Tools - An Industry Approach"** under Lead College Program of **Shivaji University, Kolhapur** on Friday, 31st March 2023 at **Dr. J. J. Magdum College of Engineering, Jaysingpur.**

Prof. P. R. Patil	Prof. R. A. Bharatiya	Dr. Mrs. S. B. Patil	Dr. S. S. Admuthe
FDP CORDINATOR	HOD, IT	PRINCIPLE	CAMPUS DIRECTOR

One Day Faculty Development Program
On

Data Analysis using visualization Tools –An Industry Approach

Under

Lead College Scheme of Shivaji University, Kolhapur

Friday 31/03/2023

REGISTRATION FORM

Name of Participant: .....

Designation: .....

Name of the Organization: .....

Address : .....

Mobile No.:

E-mail ID:

How to Apply :

Prescribed form has to be filled by an individual with institute heads signature and College stamp and send to following email id –

pournima.patil@jjmcoe.ac.in

Registration Fees:

No fees for Member Institutes
Fees for other institutes Rs.200/-

Signature & Seal of Sponsoring Authority

OBJECTIVES OF PROGRAMME

- This course helps how to setup and run Cloud Services in Amazon Web Services (AWS) all the way through to IaaS with hands-on experience on AWS Public cloud.
- It helps to understand basic concept & structure of cloud computing and apply their knowledge about AWS cloud to identify / rectify problems onboard.
- To understand and get hands on Elastic Load Balancers, Understanding High Availability Configuration ELB Configuration, Auto Scaling, Identity & Access Management, Understanding the IAM Policies, IAM User

RESOURCE PERSON:

Mr. Yogesh Prabhakar Marumkar
Chief Executive Officer and Corporate Trainer, Bharat Soft Solutions,Pune

ELIGIBLE PARTICIPANTS:

- Teaching faculty
- Research Scholars

Dr. J. J Magdum Trust's

Dr. J. J. Magdum College of Engineering, Jaysingpur

Information Technology Department
Organizes

One Day Faculty Development Program
on
"Data Analysis using visualization Tools –An Industry Approach"
Under
Lead College Scheme of
Shivaji University, Kolhapur

On Friday, 31/03/2023

About Institute

Dr. J. J. Magdum College of Engineering, Jaysingpur is one among the premier technical institutes in Maharashtra state. It was established, in 1992, by Dr. J. J. Magdum Trust under the charismatic leadership of Late Dr. J. J. Magdum. The mission of the institute is to have holistic development of all courses by following participating management methodology, healthy HR practices, strong industry participation and continuous development in physical resources. The institute is accredited by NBA, New Delhi and also accredited by TCS, Banglore. Institute runs five UG and one PG courses.

About Department (IT)

The Department was started in the year 2007. The department students have a disciplined environment and experience research and experimentation in the best possible laboratories for their career. The department has magnificent placement records over the last many years. The department always strives to give best expertise knowledge to students for betterment of their career. Both departments maintain good Industry Institute partnership by MoU's signed with renowned industries.

- **CHIEF PATRONS:**

Dr. Veejhay J. Magdum
Chairman,
Dr. J.J. Magdum Trust, Jaysingpur

Adv. Dr. Mrs. Sonale V. Magdum
Vice Chairperson,
Dr. J.J. Magdum Trust, Jaysingpur

- **ADVISORY COMMITTEE :**

Dr. Sunil S. Admuthe
Campus director

Dr. Mrs. S. B. Patil
I/C Principal

Prof. M. U. Phutane
Dean Faculty Development Cell

Dr. Mrs. S. R. Mahadik
Coordinator Lead College Scheme, SUK

- **CONVENER :**

Prof.R.A.Bharatiya
Associate Professor
HOD, Dept. of Information Technology

- **Co-ordinator :**

Prof. P.R.Patil
Assistant Professor
Department of Information Technology
Mob No. 8788096923

Dr. J. J. Magdum Trust's

Dr. J. J. Magdum College of Engineering, Jaysingpur

DEPARTMENT OF INFORMATION TECHNOLOGY

One Day Workshop on

"Data Analysis using visualization Tools -An Industry Approach"

FEEDBACK FORM

Participants are required to fill up this form by tick (✓) marking in appropriate space against each question and write their honest impression wherever asked. Please remember that this feedback form will only serve to improve our future programs.

1) **Whether the workshop is useful to you?**

☑ Excellent ☐ Good ☐ Satisfactory

2) **Are the contents in workshop are sufficient?**

☑ Sufficient ☐ Too Long ☐ Too Short

3) **Is the duration of workshop is sufficient?**

☑ Sufficient ☐ Too Long ☐ Too Short

4) **Willing to attend such workshop in future?**

☑ Yes ☐ No

5) Comments, Suggestions impressions if any

Excellent & informative workshop

J. J. Magdum College of Engg. I.T. Dept.

Dr. J. J. Magdum Trust's (No. E / 902)

Dr. J. J. Magdum College of Engineering, Jaysingpur.

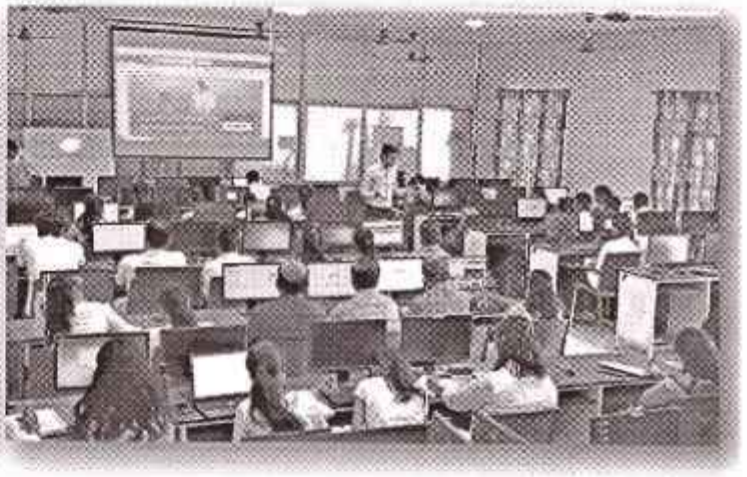
Department of Information Technology

One Day University level FDP on
" Data Analysis using visualization Tools –An Industry Approach"
under
Lead College Scheme of
Shivaji University, Kolhapur

Day: Friday **Date: 31/03/2023**

Sr. No	Time	Session	Venue
1	9.30am to 10am	Registration	
2	10am to 10.20am	Inaugural Function	
3	10.20am to 10.35am	Breakfast & Tea	
4	10.45am to 1.30pm	Session – I	CCF Department
5	1.30pm to 2.30pm	Lunch Break	
6	2.30pm to 3.30pm	Session – II	
7	3.30pm to 3.40pm	High Tea Break	
8	3.40pm to 4.40pm	Session – III	
9	4.45pm onwards	Valedictory Function	



Date : 31 March, 2023

College of Engineering

Dr. J. J. Magdum Trust's

Dr. J. J. Magdum College of Engineering, Jaysingpur.

Department of Information Technology

Organizes A One Day University Level

Linux Basics

Hands-On Workshop

For Supporting Staff

By

Mr. Ranjit Vandaka

Bits Techno Development Pvt. Ltd. Kolhapur.

Highly Qualified & Experienced Industrialist Person

(**10 years** as a Instructor & **09 years** in IT Industry)

DECEMBER 3

09:30 AM to 04:30 PM

3 December, 2022

IT @ JJMCOE

REGISTRATION FEE : 200/-

E-CERTIFICATE WILL BE GIVEN TO EACH PARTICIPATE

CONTACT : 8421522064

For Registration

https://forms.gle/9Q Mgvg2BbnaZnvAfUA

Prof. S. S. Solapure	Prof. R. A. Sanadi	Dr. S. B. Patil	Dr. S. S. Admuthe
DRC & FDP Head	Head of Department	Principal	Campus Director

Dr. J. J. Magdum Trust's

Dr. J. J. Magdum College of Engineering, Jaysingpur.

Department of Information Technology

Organizes A One Day University Level

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Prof. S. S. Solapure	Prof. R. A. Sanadi	Dr. S. B. Patil	Dr. S. S. Admuthe
DRC & FDP Head	Head of Department	Principal	Campus Director

University Level One Day Workshop
on
"LINUX BASICS"
(Hands-On)

Saturday, 3rd December 2022

REGISTRATION FORM

Name of Participant: Mr. Rohan B. Waghmare

Designation: Sr. Technical Assistant

Name of the Organization: ADCET, Ashta.

Mailing Address : RBW_etc@adcet.in

Tel. No.:

Mobile No.: 9637431966

E-mail ID: rbw_etc@adcet.in

How to Apply :

1. Through online registration link provided in brochure

Or

2. Prescribed form has to be filled by an individual with institute heads signature and college stamp.

- 200/- registration fees

Signature & Seal of Sponsoring Authority

Online Registration Link :
https://forms.gle/yiJgWbUuUAsTMG8g7

CHIEF PATRONS:

Dr. Vijay J. Magdum
Chairman,
Dr. J.J. Magdum Trust, Jaysingpur

Adv. Dr. Mrs. Sonale V. Magdum
Vice Chairperson,
Dr. J.J. Magdum Trust, Jaysingpur

ADVISORY COMMITTEE :

Dr. Sunil S. Admuthe
Campus Director
Dr. J. J. Magdum College of Engineering,Jaysingpur

Dr. Mrs. S. B. Patil
I/C Principal & Coordinator
Dr. J. J. Magdum College of Engineering,Jaysingpur

CONVENER :

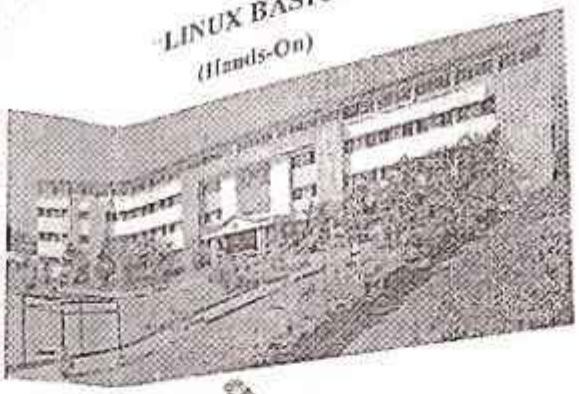
Prof. R. A. Sanadi
HOD & Assistant Professor
Department of Information Technology

COORDINATORS :

Prof. S. S. Solapure
DRC & FDP Head
Assistant Professor
Department of Information Technology
E-mail:- sharwari.solapure@jjmcoe.ac.in
Mobile No: - 7498008084

Dr. J. J. Magdum College of Engineering, Jaysingpur • I.T. Dept.

University Level One Day
on
"LINUX BASICS"
(Hands-On)



Dr. J. J. Magdum College of Engineering, Jaysingpur

Organized by

Information Technology Department

Day & Date: Saturday, 3rd December 2022

JJMCOE
Your Dream.. Our Mission..

11	Shantanu Hukwan	Shatay
13	Ingole Paviraj	
14	Jadhav Sanket	
39	Mahesh Patil	
60	Vijay Dudnaik	
22	Bharat Kundekar	
50	Omkar Shinde	
DSY	Shreyash Santosh Gaikwad	
63	Sahil Shabbir Kaji	
32	Mahadev Nikam	
62	Dnyaneshwar Jurgy	
56	Rajvardhan Bhosale	
61	Shreyash Anand Gujar	
04	Swapnil Ananda Dakvi	
23	Palash N. Lajewar	
24)	Ayush Katkar	
25)	Atharv Divate	
26)	Avishkar Kalel	
DSY	Peadny Sunil Vasudev	
DSY	Anjali Nandkumar Hongekar	
DSY	Avantika Ajay Mane.	
DSY	Shreya Dinkar mane	
36	Arju Ashok Patil	
52	Vaishnavi Sanjay shinde	
44	Powar Pallavi Tanaji	
49	Shaikh Ayeshaiddiqa	
08	Fakir Muskan	
24	Laykar Ameeta C	
54	Muskan Amir Wankar	

Expert lec

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Dr.J.J.Magdum College of Engineering, Jaysingpur

Department of Information Technology

Expert Lectures by Academician

Year:2022-2023

Sr.No.	Person Name	Title	Dates(from-to) (DD-MM-YYYY)	Year
1	Prof. S. S. Satpute Asst. Professor,JJMCOE	File Handling in C	06-01-2023 to 06-01-2023	2023
2	Dr. S. B. Patil, Principal,JJMCOE	Interfacing Techniques in 8	03-01-2023 to 03-01-2023	2023
3	Mr. Sunil Kore	Interfacing IO devices	02-12-2022 to 02-12-2022	2022
4	Ms. P. R. Desai, Asst. Professor,JJMCOE	Synchronization in OS	29-11-2022 to 29-11-2022	2022
5	Mrs. Varsha Lokare, Asst. Professor, RIT Sakhrale	PHP & Bootstrap Framewo	14-12-2022 to 14-12-2022	2022
6	Mr. Pradip Khot, DKTE,Ichalkaranji	Turning Machine	19-05-2023 to 19-05-2023	2023
7	Mr. Rohit D. Mane, Asst. Professor,JJMCOE	Cyber Security	19-05-2023 to 19-05-2023	2023

Prof. P. R. Patil
Expert Lecture Coordinator

Dr. J. J. Magdum College of Engineering, Jaysingpur I.T. Dept.

Prof. R. A. Bharatiya
HOD

Dr. J. J. Magdum College of Engineering I.T. Dept.

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

2022-2023

Date: 05/01/2023

NOTICE

All the students of TY IT are hereby informed that, department is going to arrange a expert lecture on **"File Handling in C"** for SY-BTech class.

The schedule for the same is mentioned below,

Venue	:	Classroom 207
Lecture	:	Offline Mode
Day and Date	:	Thursday, 6th Jan 2023
Time	:	9:30 am. To 11:30am.
Resource Person	:	Prof. Sneha S. Satpute Assistant Professor, CSE Department, Dr. JJMCOE, Jaysingpur

So, everyone should attend the same.

Ms. P. R. Desai
Expert lecture Co-ordinator

Prof. J.T.Patil
Academic Coordinator

Mr. R. A. Sanadi
Head of Department

Dr. J.J. Magdum College of Engineering, Jaysingpur I.T. Dept.

DR. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Expert lecture on "File Handling on C" (06/01/ 2023 SY-IT)

Dr. J.J. Magdum College of Engineering Jaysingpur
I.T. Dept.

Dr. J. J. Magdum Trust's

Dr.J.J.Magdum College of Engineering, Jaysingpur

Department of Information Technology

Expert Lectures by Industrialist

Year:2022-2023

Sr.No.	Industrial Person Name	Title	Dates(from-to)(DD-MM-YYYY)	Year
1	Mr. Umesh H. Annegirikar Atos Syntel Ltd. Talawade, System Analyst Application Lead	Database Connectivity	15-12-2022 to 15-12-2022	2022
2	Mr. Akib Momin CEO & R&D Head, Mirasung Technologies, Miraj	MangoDB and NodeJS	23-03-2023 TO 23-03-2023	2023
3	Mr. Yogesh P. Murumkar CEO & Corporate Trainer, Bharat Soft Solutions, Pune	Power BI	31-03-2023 to 30-03-2023	2023

Dr. J. J. Magdum College of Engineering I.T. Dept.

Prof. P. R. Patil
Expert Lecture Coordinator

Prof. R. A. Bharatiya
HOD

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

2022-2023

Date: 14/12/2022

NOTICE

All the students of TY IT are hereby informed that, department is going to arrange a expert lecture on **"JAVA Database Connectivity"** under ITESA.

The schedule for the same is mentioned below,

Venue	:	Classroom 206
Lecture	:	Offline Mode
Day and Date	:	Thursday, 15th Dec 2022
Time	:	9.30am. To11:30am.
Resource Person	:	Mr. Umesh Annegirikar, Application Lead, Atos Syntel.

So, everyone should attend the same.

Ms. P. R. Desai
Expert lecture Co-ordinator

Prof. J.T.Patil
Academic Coordinator

Mr. R. A. Sanadi
Head of Department

Dr. J. J. Magdum College of Engg. Jaysingpur
Department of Information Technology
Jaysingpur - 416101

DR. J.J. MAGDUM COLLEGE OF ENGINEERING

Expert lecture on "Java Database Connectivity" (15/12/2022 SY-IT)

Dr. J.J.Magdum College of Engineering, Jaysingpur
I.T. Dept.

Dr. J.J. Magdum Trust's (No. E/902)

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

Guest Lecture Details

A.Y. 2022-2023

Sr.No.	Date	Details of Resource Person	Class	Topic
1	27/03/2023	Mr. Vaibhav Sutar, CEO, Vishwa Technologies, Wathar	SY	Introduction to Python
2	21/03/2023	Mr. Sailesh Dinde, Automation Tester	BTECH	AWS
3	8/11/2022	Mr. Vijay Khot, Asst. Professor, JJMCOE	TYIT	Business Start Up
4	16/11/2021	Mrs. Vinayshree S. Akkalkot Director Domain Computer Education, Sangli.	BTECHIT	AWS-Cloud Computing

J.J. Magdum College of Engineering I.T. Dept.

HOD, I.T.
Dr.J.J. Magdum College of Engineering, Jaysingpur.

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

2022-2023

Date: 20/03/2023

NOTICE

All the teaching & non-teaching staff members of our department are hereby informed that a guest lecture is organized on the topic **"Introduction to Python"** for SY IT class.

The schedule for the same is mentioned below,

Venue	:	Classroom 201
Lecture	:	Offline Mode
Day and Date	:	Monday, 27th March 2023
Time	:	10.00am to 12.00 pm
Resource Person	:	Mr. V. V. Sutar CEO, Vishwa Technologies, Wathar

So, everyone should attend the same if he/she is free.

Dr. J.J. Magdum College of Engineering, Jaysingpur I.T. Dept.

Ms. P. R. Desai
Guest lecture Co-ordinator

Prof. J.T.Patil
Academic Coordinator

Mr. R. A. Bharatiya
Head of Department

Dr. J.J. Magdum College of Engineering, Jaysingpur I.T. Dept.

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College Of Engineering,

Dr. J. J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.
Department of Information Technology
2022-23

Date:27/03/2023

To,

Mr. V. V. Sutar
CEO, Vishwa Technologies,
Wathar

Subject: -Thanking Letter.

Respected Madam,

As per our request you have accepted our invitation as a Resource person for Guest Lecture on "**Introduction of Python** " on Monday, 27th April 2023. You delivered the session very well.

On behalf of Department of Information Technology, we are thankful that you have given your precious time & effective knowledge for final year students through this session.

Thanking you,

Prof.P.R.Desai
Guest Lecture Coordinator

Prof. J. T. Patil
Academic Coordinator

Prof. R. A. Bharatiya
HOD (IT)

I.T. Dept.

Received by
27-3-23

Dr. J. J. Magdum Trust's

Dr. J. J. Magdum College of Engineering, Jaysingpur-416101.

Department of Information Technology

2022-23(27/03/2023)

Guest Lecture on "Python" (SYIT)

Roll No	Name of the student	Sign	Roll No	Name of the student	Sign
1	Brahmam U. Atigre		36		
2	Baiwardhan Bhosale		37	Abhishek S. Magdum	
3	Sahil Bhosale		38	Avantika Ajay Mane.	
4			39	Gauri G. Mane	
5	Shrihari S. Chikhalkar		40		
6	Ketan B. Chougale.		41	Prerana A. Mane.	
7	Ajay S. Chougule		42	Shreya Dinkarrao	
8			43		
9	Salani Desai		44	Suyog S. Mohite.	
10	Shreyash Deshmane		45	Mahadev Nikam	
11	Atharv Divate		46	Anshul Nilkanth	
12	Sakshi Y. Dornane		47		
13	Vijay Dudnal		48	Aditya B. Patil	
14	Muskan Fakir		49	Aju Patil	
15	Kalyani Gaikwad		50		
16	Shreyash S. Gaikwad		51	Jineshwa Patil	
17	Gavhane Aryan		52	Sa Mahesh C Patil	
18	Shreyash A. Gurjar		53	Samartha Patil	
19	Siddhi. D. Gurav.		54	Samved G Patil	
20	Anjali N. Hongekar.		55		
21	Shantanu Hadwan		56	Saraquddh Patil	
22			57	Sanika Patil	
23	Raviraj N Injale		58		
24	Sanket Jadhav		59	Asmita Phalle	
25			60	Pallavi Powar	
26	Jnaneshwar S. Jarag.		61.	Prathamesh Raut	
27	Sahil S. Kaji		62	Sohel S. Saaadi	
28	Ayushkar Kalal		63		
29			64		
30			65	Omkar Shinde	
31			66	Prathmesh Shinde	
32			67	Vaishnavi Shinde	
33	Sakshi Kolekar		68		
34	Bharat Kundekar		69	Peadonja S. Vasudev	
35			70	Muskan. A. WANKAR	
			71	Swarup M. Yadav	

I.T. Dept.

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering, Jaysingpur.

Department of Information Technology

2022-23

Guest Lecture for SY was held on 27th March 2023

Participation in techeve

Dr. J.J. Magdum Trust's

Dr. J.J. Magdum College of Engineering, Jaysingpur

Department of Information Technology

2022-23

Students Participation in Technical Events

Sr.No	Activities Name	Activity Under and Institute	Date	No. of Students Attended
2022-23				
1	C and C++programming test	ITESA, JJM COE	15/09/2022	108
2	CRACKER 2K22	ITESA, JJM COE	13/10/2022	31
3	Coding Club	ITESA, JJM COE	21/11/2022	125
4	Android Development	Augmentation, JJM COE	12/12/2022	47
5	CRACKER'S (2.0) 2K23	ITESA, JJM COE	27/02/2023	215
6	A Beginner's guide to Wordress	Augmentation, JJM COE	16/05/2023	51

Prof. A.G. Chendke
Augmentation Cell Coordinator

Dr. J.J. Magdum College of Engineering, Jaysingpur I.T. Dept.

Prof. R. A. Bharatiya
HOD(IT)

Dr. J.J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

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Dr. J. J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR.

Accredited with 'A' Grade by NAAC

Department of Information Technology

ITESA

This is to certify that, Mr. / Miss. Vaibhavi Gaikwad

of JJMCOE institute has participated & Secured Second

Rank in the University level technical event Expert under **"CRACKERS (2.0) 2K23"** held at

Dr. J. J. Magdum College of Engineering, Jaysingpur on 2nd March 2023.

DR. J. J. MAGDUM COLLEGE OF ENGINEERING ★ JAYSINGPUR 416101

Prof. Miss P. R. Patil	Prof. Mrs. A. G. Chendke	Prof. Mr. R. A. Bharatiya	Dr. Mrs. S. B. Patil	Dr. Mr. S. S. Admuthe
Coding Club Coordinator	ITESA Coordinator	Head of Department	Principal	Director

Class- B.Tech
Subject- Data Science

Tutorial 1

1. Python Set Methods
2. Python Dictionary Methods
3. What is the difference between a list and a tuple?
4. What is the difference between .iloc and .loc?
5. **Explain Arithmetic operators with example**
6. **Explain all string operators with example**

Tutorial 2

1)Implement magic function in python

2)Implement styles

3)Load images

Tutorila 3

1) Implement graph
2) plot multiple lines-Legend,title,xxlable,ylable.plot
3) Implement scatter plot, bar plot, histogram,pie chart

Tutorial 4

Imlement Exploratory data analysys on Imcome or Toyoto dataset

Also measure the performance , contingenct matrix

Tutorial 5

1) Immplement data analysys on Imcome datset
2) Measure central tendancy,percentile,normality, count categorical data,frequency
3) Create contingency table

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DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Bhaugule
subject Incharge

Subject –Database Engineering
Class-TY

Assignment No 1

1) Explain the concept of physical data independence and its importance in database systems.
2) What are five main functions of a database administrator?

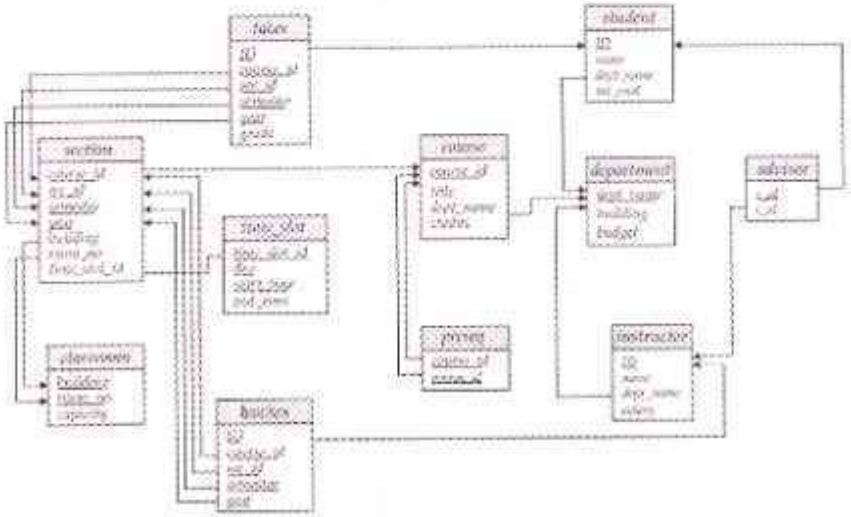

Figure 2.8 Schema diagram for the university database.

3) Write schema for above database
4) Consider the relational database
   a. employee (person name, street, city)
   b. works (person name, company name, salary)
   c. company (company name, city)

Give an expression in the relational algebra to express each of the following queries:

a. Find the names of all employees who live in city "Miami".

b. Find the names of all employees whose salary is greater than $100,000.

c. Find the names of all employees who live in "Miami" and whose salary is greater than $100,000.

5) Consider the bank database
   a. branch(branch name, branch city, assets)
   b. customer (customer name, customer street, customer city)
   c. loan (loan number, branch name, amount)
   d. borrower (customer name, loan number)
   e. account (account number, branch name, balance)
   f. depositor (customer name, account number)

Give an expression in the relational algebra for each of the following queries.

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Department of Information Technology (22-23)

Assignment (computer Network)

class : SY

Unit 1:

- Explain Hamming code steps.
- Write short note on: checksum, Error control at data link layer
- Which are the Data link layer design issues? Explain any one.
- What is framing. Explain any one framing method in detail.

Unit 2:

- Explain with example Go-Back- N protocol
- Discuss selective repeat sliding window protocol with example.
- Enlist the assumptions for Dynamic Channel Allocation. Describe any two of them.
- Explain Selective repeat algorithm with example.

Unit 3:

- With neat diagram explain Store- and –Forward Packet Switching.
- Describe Shortest Path Algorithm with example.
- List out Network Layer Design Issues. Explain any one
- Differentiate between virtual circuits and datagram networks.

Unit 4:

- Draw & explain IP datagram format.
- Discuss about which problem solved by Network Address Translation (NAT) and how.
- With proper example write about the notations used in IPv4.
- Enlist ICMP Error Reporting Messages. Explain any one of them with format.

Unit 5:

- Explain TCP segment format with diagram
- Explain well known ports used by TCP
- Explain Flow control in TCP

Unit 6:

- Data Connection in FTP, HTTP Request Message, FTP, DNS, HTTP, Telnet
- Explain Domain name system
- Draw & explain first scenario of electronic mail.

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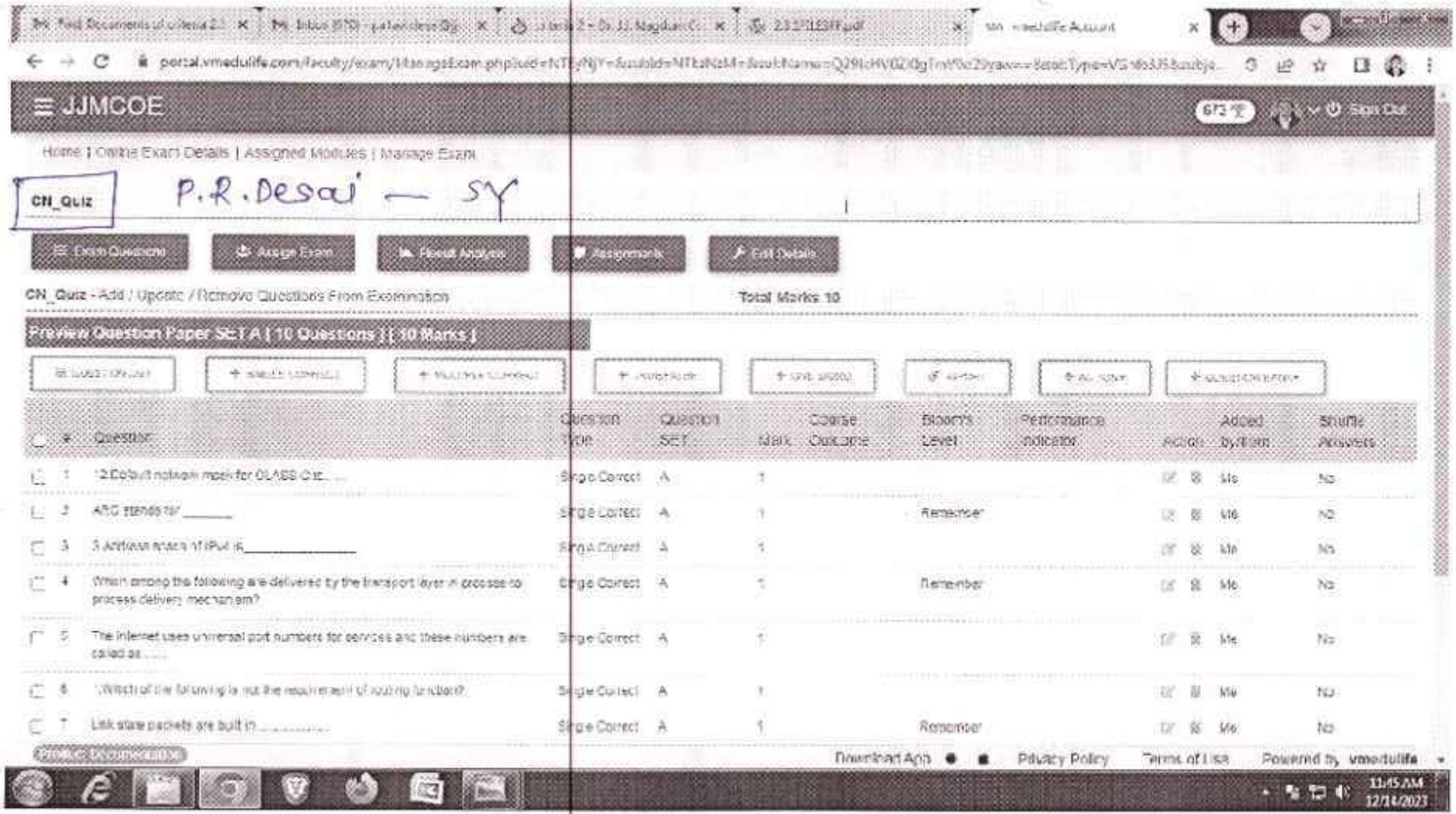
P. R. Desai

subject Incharge.



Q.12

subject - Database Engineering
class - TY

+ MULTIPLE CORRECT

+ TRUE/FALSE

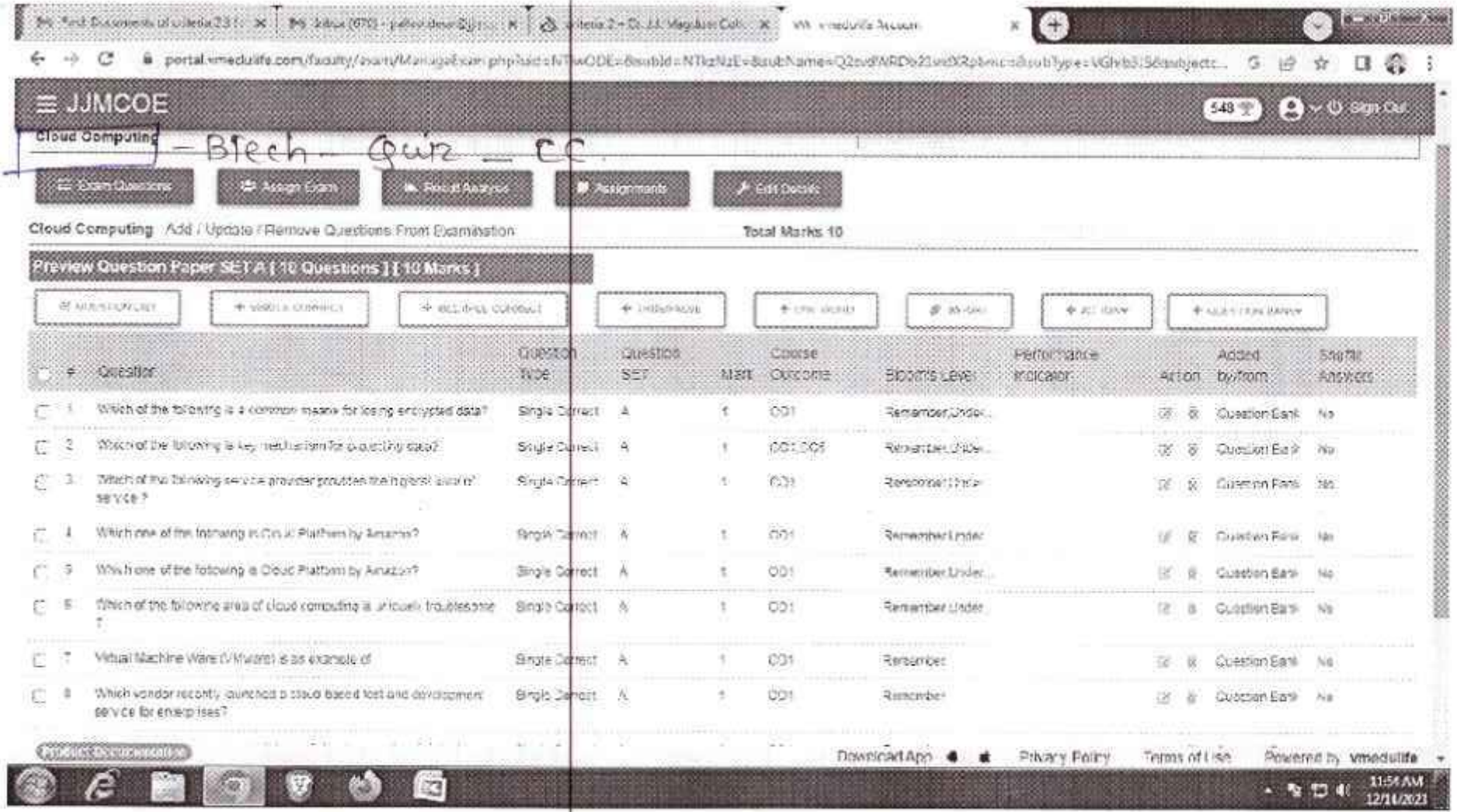
+ ONE WORD

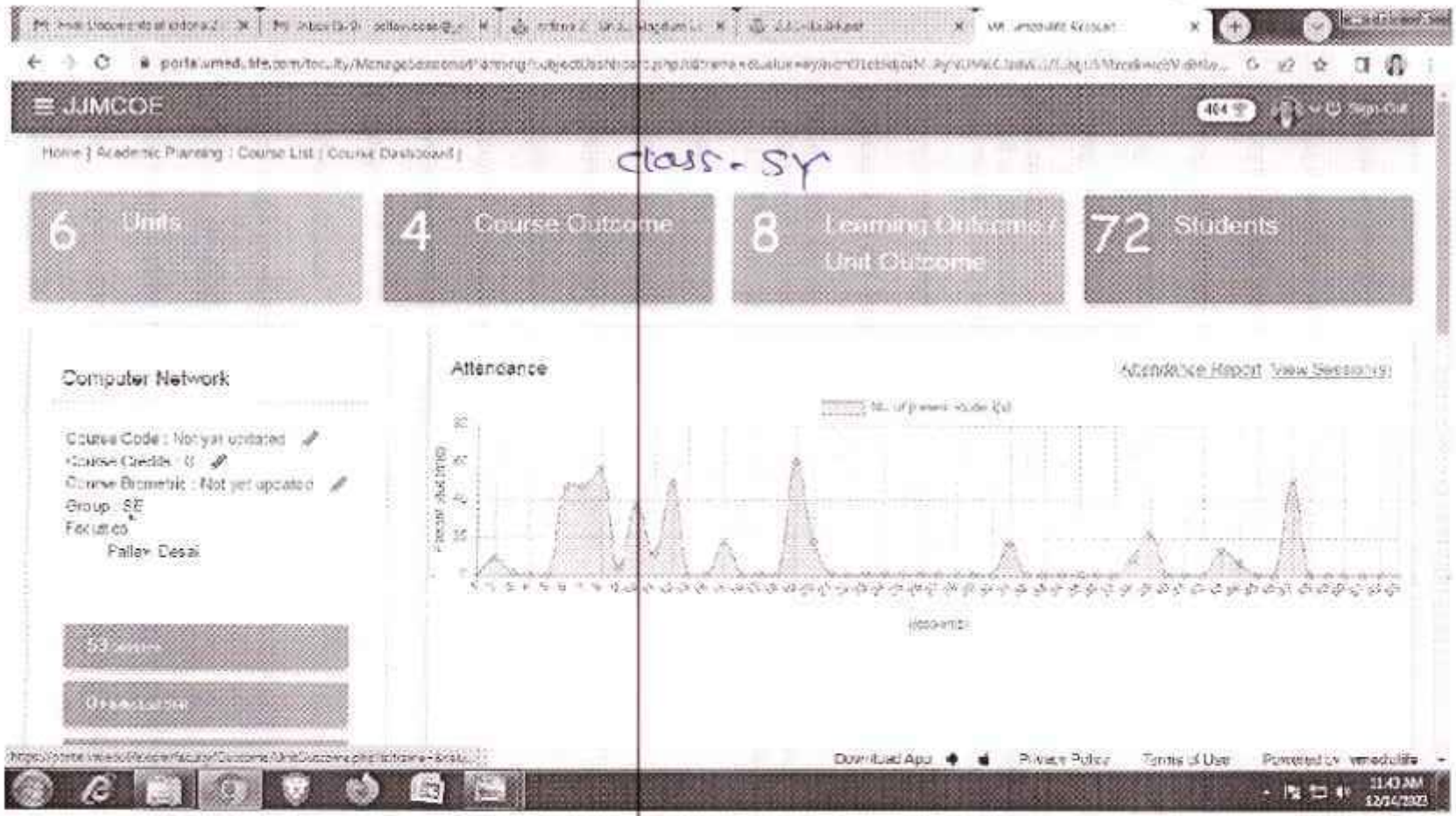
IMPORT

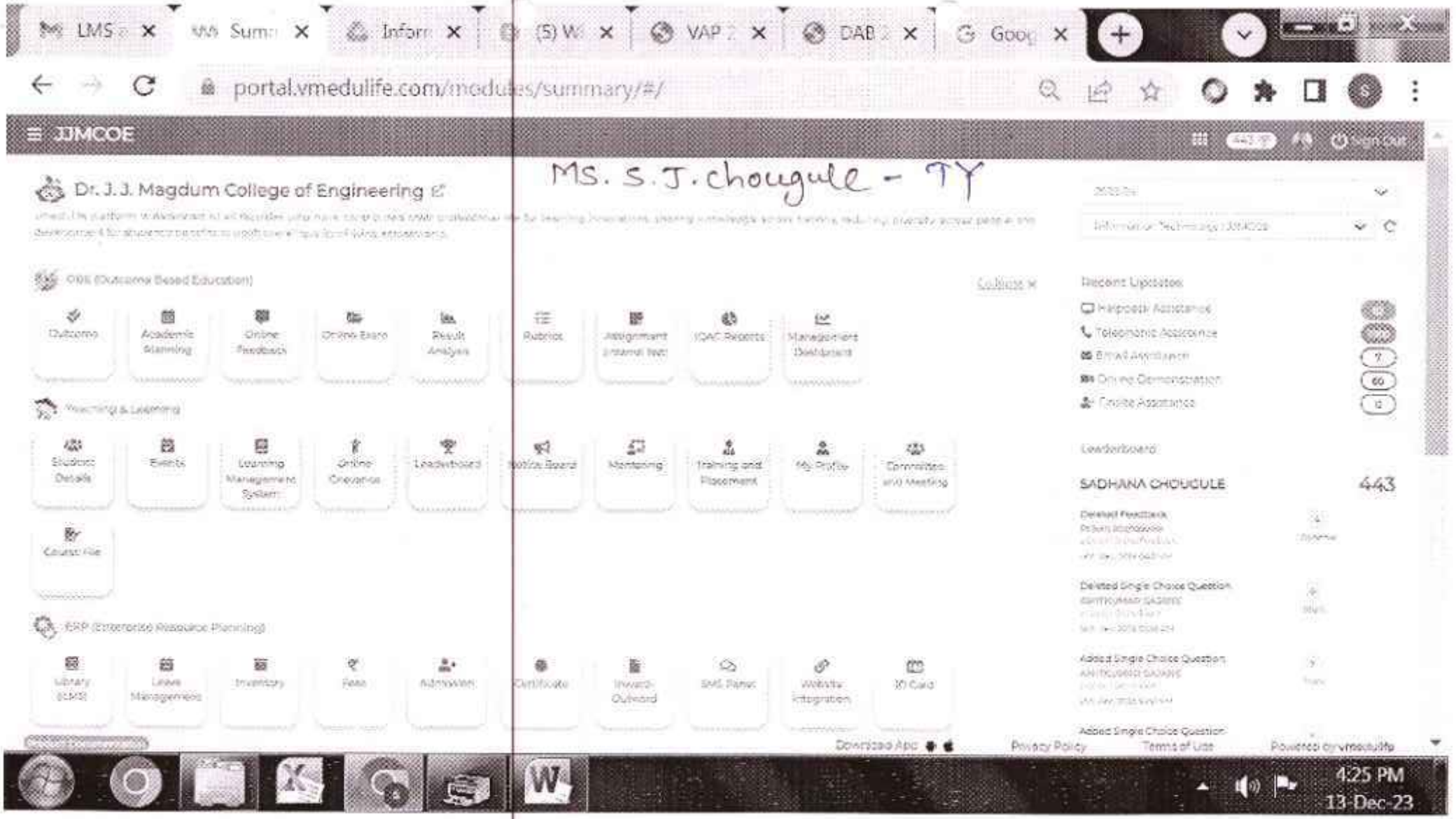
+ ACTION

QUE BA

	#	Question	Question Type	Question SET	Mark	Course Outcom
☐	1	What is a database?	Multiple Correct	A	1	CO1
☐	2	Which of the following is a function of the DBMS?	Multiple Correct	A	1	CO1
☐	3	3) Which of the following is known as a set of entities of the same type that share same properties, or attributes?	Multiple Correct	A	1	CO3
☐	4	4)____________ is a set of one or more attributes taken collectively to uniquely identify a record.	Multiple Correct	A	1	CO2
☐	5	5)Which command is used to remove a relation from an SQL?	Multiple Correct	A	1	CO3
☐	6	6)____________ operations do not preserve non-matched tuples.	Multiple Correct	A	1	CO3
☐	7	Which forms have a relation that contains information about a single entity?	Multiple Correct	A	1	CO2







JJMCOE

329 Sign Out

Home | Academic Planning | Course List | Course Dashboard | Faculty Name - J.T. Patil _ BTech. cloud computing

6 Units	5 Course Outcome	8 Learning Outcome / Unit Outcome	69 Students

CloudComputing

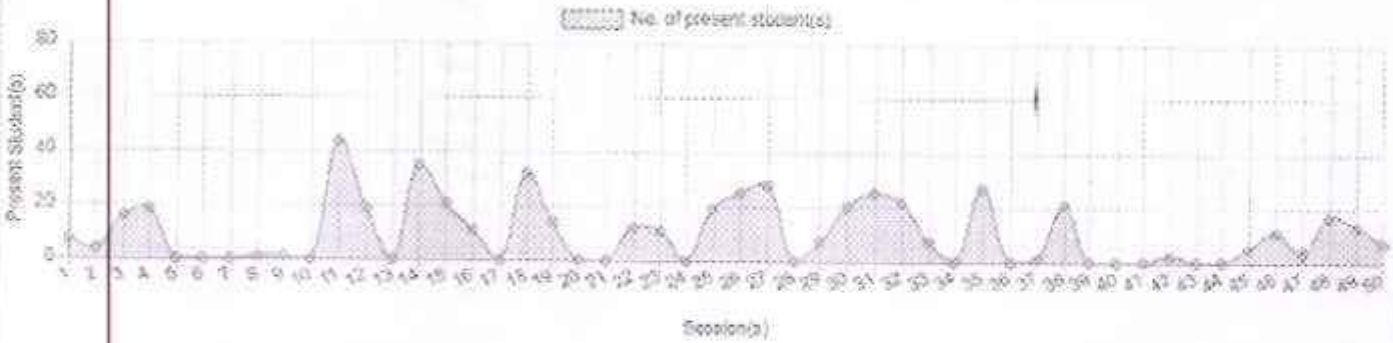
Course Code : Not yet updated
Course Credits : 0
Course Biometric : Not yet updated
Group : BE
Faculties
JAYASHREE PATIL
POURNIMA PATIL

50 Lessons

0 Interactive Task

Attendance

Attendance Report View Session(s)



Product Documentation

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11:51 AM
12/14/2023

Dr. J.J. Magdum College of Engineering, Jaysingpur
I.T. Dept.

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INVOICE

No.: 2011-12/026
Date: 13/10/2011

P.O.No.:
P.O.Date:

To,
Principal,
J.J.Magdum Engg.College, Jaysingpur

Dr. J. J. Magdum College of Engg.
Jaysingpur
Central Library
Inward/Serial No. 422
Date:- 13/10/11

Sr.	Particulars	Rate	Qty.	Amount (Rs.)
1	VidyaSagar - ONLINE Library Software (Dev.Charges + Symbol LS9208 Barcode Scanner)	45000	1	45000.00
		Total		45000.00
		Other Charges		
		Grand Total		45000.00
		Net Payable Amount		**45000**

Package Contents :
1 Online Software,Symbol LS9208 Barcode Scanner (S/N:M1N59C88C) and ....SATISFACTION

Terms and Conditions

1 Mode of Payment - Immediately by Cash/DD/Cheque payable at Kolhapur
2 In case of non payment within 8 days from the date of this invoice,
interest will be charged @24 %p.a. from the date of this invoice
3 Email support will be given free for the period of 1 year
from the date of this invoice, all other kind of support at extra cost
4 Above charges indicates development charges only. Installation and support, if required will cost extra.
5 Any possible upgradation in the supplied software will be charged extra,
against 100% payment in advance and suggestions in writing
6 All charges to be paid 100% advance before starting concerned period.
7 Software upgradation will take some time depending upon possible requirements
8 Subject to Kolhapur jurisdiction
9 Accepting this invoice indicates your acceptance to above terms and conditions
10 Delivery at Kolhapur
11 Warranty for USB dongle will be 6 months from the date of this invoice.
12 Responsibility of software, database and all related things is of customer only.
13 This is a computer generated invoice

Receiver's Name

Signature

For Easy and Useful

Proprietor

We offer user friendly, powerful English/Marathi
softwares and web solutions perfect for your business.
I will modernise your business to suite needs of the time.
Let's make India - The I.T. superpower !

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

Dr. J. J. Magdum College of Engineering Jaysingpur

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दिनांक Date

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Rupees

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अदा करें

Rs.

No. 091910100011017

BANK OF INDIA

JAYSINGPUR BRANCH
JAYSINGPUR 416 101
IFSC:BKID0000919

J.J.MAGDUM COLLEGE OF ENGINEERING

⑈008965⑈ ⑆416013156⑆ 000356⑈ 10

DR. J. J. MAGDUM TRUST'S

Library Automation

Library has purchased Library Management System Software. The software is bar-code enabled and web based. Library has completed bar-coding on procured reading materials. Daily book circulation has been done by system.

Details of the software

Name of the software –.Vidya-Sagar

01. Version -4.2
02. Mobile application facility available
03. Name of the Supplier – Easy and Useful Software's with web Solutions 32,Ashwin Society, Near CentrePoint, Staition Road Kolhapur 416001
04. Price of the software – 45,000/-
05. Year of Purchase – 2011-12 – till date it is in working
06. Services on Annual maintenance charges.

Current details the use of software as per given below.

Sr. No.	Particular	Total Number
01	Total No. of Users Enrolled	10571
02	Total No. of students enrolled (Live)	1252
03	Total No. staff enrolled (Live)	184
04	Total books entered	47105
05	Daily transaction (DEC 2022)	73
06	Total No. of titles	12718

Librarian

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

Principal

Dr. J. J. Magdum College of Engineering, Jaysingpur
Approved by A.I.C.T.E. New Delhi Recognized by Govt. of Maharashtra (D.T.E.) Affiliated to SHIVAJI UNIVERSITY, Kolhapur
Gat No. 289 (314/330), Shirol-Wadi Road, (Agarbhag), JAYSINGPUR - 416 101. Dist. Kolhapur (M.S.)
Tel. No. (02322) 221825, 221123, Fax No.: (02322) 221831

No. [illegible]

Dated 13-Oct-2023

[illegible] IT Solutions
[illegible] Society
[illegible] Station Road
Kolhapur
E-Mail: [illegible]

Receipt

Received with thanks from: JJ Magdum Engg.College, J.Pur

The sum of: INR Eight Thousand Only

By: [illegible]

Remarks: Vidyasagar LMS annual subscription by NEFT

₹ 8,000.00

Authorised Signatory

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

Dr. J. J. Magdum Trust's (No. E/902)

(An "A" Grade Institution Awarded by Govt. of Maharashtra, Approved by A.I.C.T.E., New Delhi, Recognized by Govt. of Maharashtra (DTE) & Affiliated TO SHIVAJI UNIVERSITY, KOLHAPUR)

Gat No. 269 (314/309), Shirol-Wadi Road, (Agarbhag), JAYSINGPUR - 416 101, Dist. Kolhapur (M.S.)

Tel. No. : (02322) 221625, 663100, Fax No. : (02322) 221831 • Email : principal@jjmcoe.org

Chairman : (O): 221626 (R) : 226273 / Exe. Dir : (O) 221630 / Principal : (O) : 221629 www.jjmcoe.org

JJMCOE/LIB/810/2011-12 DATE 11/08/2011

TO,

THE MANAGER,
Taraget Exploration,
21 Ujawal Society,Narendra Nagar,
Nagpur 440015

SUBJECT: -Regarding Purchase NPTEL Series
Remittance there off.

With reference to the above subject, please find enclosed herewith a D.D. No. "031555" drawn on BANK OF INDIA Branch MUMBAI S. B. Dt. 09/08/2011 amounting to Rs.35000.00 (THRITY FIVE THOUSAND ONLY) .

Kindly acknowledge receipt of the same & oblige.

Thinking you,

Librarian

बैंक ऑफ इंडिया BANK OF INDIA 03658485
JAYSINGPUR BRANCH
(जारीकर्ता शाखा Issuing Branch)

जारी किए जाने की तारीख से छः महीने तक वैध है
VALID FOR SIX MONTHS FROM THE DATE OF ISSUE
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दिनांक DATE 09-08-2011

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Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

Dr. J. J. Magdum Trust's (No. E/902)

Dr. J. J. Magdum College of Engineering

An 'A' Grade Institution (Awarded by Govt. of Maharashtra)
Approved by A.I.C.T.E. New Delhi, Recognised by Govt. of Maharashtra (DTE)
& Affiliated TO SHIVAJI UNIVERSITY, KOLHAPUR
Gat No. 314/330, Shirol-Wadi Road, Agarbhag, JAYSINGPUR - 416 101. Dist. Kolhapur.

Ref. No.:- JJMCOE/LIB/807/2011-12/ Date :-04-08-2011

To,
Target Expolrations,
21, Ujwal Society,Narendra Nagar,
Nagpur 440015

Subject: - Purchase Order for NPTEL IIT Videos

Dear Sir,

With reference to your Quotation & subsequent negotiations with the undersigned, we are pleased to place the order for the following

Sr. No.	Description of Applications	Quantity	Rate (Rs.)	Amount (Rs.)
1.	NPTEL IIT Videos	01	35,000/-	35,000/-
2				
	Net Price			35000/-
	(In words- Thirty Five Thousand only)			

Material is to be supplied on Door Delivery basis. If you are unable to supply the material within the specified period, please inform us well in advance.

Delivery Terms
* Data Replaceable on Demand :-
* Taxes :- Included
* Delivery schedule :-Immediate after Demo.
* Terms of Payment :- on delivery

This purchase order is issued subject to terms and condition printed overleaf.

Vice Principal 04/08/11

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

Tel. No. : (02322) 221825, 221827
Fax No. : (02322) 221831
E-mail : kpr_jjmcoe@sancharnet.in
Website : www.jjmcoe.org

Chairman : (O) : 221830, (R) : 228273
Exe. Dir. : (O) : 221828, (R) : 221292
Principal : (O) : 221829 (Direct)

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Implementation
Training

Target Explorations
Management Consultancy Services

INVOICE

21 Ujjwal Housing Society
Narendra Nagar, Nagpur - 440 015
Cell: 91-9823120245
Email: jagdeep@sancharnet.in   iitvideos@gmail.com

IIT VIDEO LECTURE SERIES

To.	Invoice No.	Date:
M/s Dr. J. J. Magdum College of Engineering, Jaysingpur	IITVDO/2011/1/8/11	4/8/2011
	Purchase Order No: JJMCOE/LIB/804/2011-12	Date: 04/08/2011

Particulars	Rate	Quantity	Amount Rs.
Product :- IITVDO IIT Video Lecture Series - Engineering Courses. Total Approx 4000 Videos	35,000	1	35,000.00
Add External USB Hard Disk (1000 GB)			
Add Installation Charges for Out Stationed Locations.			
Total			35,000.00

First Year	12 Subjects	400 Videos
Civil Engineering	16 Subjects	600 Videos
Computer Science	19 Subjects	650 Videos
Electrical Engineering	23 Subjects	800 Videos
Electronics Engineering	18 Subjects	800 Videos
Mechanical Engineering	15 Subjects	700 Videos

Total in Words: Thirty Five Thousand Rupees Only

Terms:
1. The prices mentioned above are not inclusive of all taxes.
2. The installation charges are subject to increment.
3. The delivery will be done within 1-2 weeks after receiving the purchase order.
4. Full Advance payment is expected before installation and releasing the registration codes.

5. The registration codes will be released only after receiving the DD
6. DD Should be issued in favor of "Target Explorations" payable at NAGPUR.

Contact Person – Mahesh Jagdeep - 9823120245
iitvideos@gmail.com

For **Target Explorations**

Authorised Signatory

ST - 904/NAG/CBS/SB/2003

Dr. J. J. Magdum Trust's (No. E/902)

An ISO 9001:2008 Certified Institution (Awarded by Govt. of Maharashtra)
Approved by A.I.C.T.E., New Delhi, Recognized by Govt. of Maharashtra (DTE)
& Affiliated TO SHIVAJI UNIVERSITY, KOLHAPUR
Gat No. 514/330, Shirol-Wadi Road, Agarbhag, JAYSINGPUR - 416 101. Dist. Kolhapur

Ref No: JJMCOE/IB/807/2011-12/ Date :-04-08- 2011

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Target Expolrations,
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Nagpur 440015

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* Taxes :- Included
* Delivery schedule : - Immediate after Demo.
* Terms of Payment: - on delivery

This purchase order is issued subject to terms and condition printed overleaf.

Vice Principal

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

Tel. No. : (0232) 221826, 221827
Fax No. : (0232) 221827
E-mail : kor_uncle@rediffmail.in
Website : www.jjmcoe.org

Chairman : (O) : 221830 (R) : 228273
Exe. Dir. : (O) : 221828 (R) : 221292
Principal : (O) : 221829 (Direct)

DR.J.J.MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR.

Late. Mrs. Prabha J.Magdum Central Library

Details of investment Year – wise (2017-2023)

SR NO.	YEAR	Budget Allocated by institute	Total Cost of Books (in Rs.)	Cost of Journals (In Rs.) (Hard copy)	Cost of e-journals & Database	Total Cost In (Rs)
01	2017-18	14,58,000.00	358749.00	173065.00	69920.00	561734.00
02	2018-19	5,80,000.00	279337.00	180065.00	66390.00	545792.00
03	2019-20	5,80,000.00	149268.00	161235.00	71390.00	381893.00
04	2020-21	1,50000.00	00	164885.00	71309.00	236194.00
05	2021-22	6,74412.00	17385.00	115028.00	65608.00	198021.00
06	2022-23	6,50,000.00	88000.00	112777.00	65608.00	266385.00
0	2023-24	600000.00	240847.00	149673.00	70570.00	461090.00
	Total		1133586.00	1056728	480795.00	2651109.00
	Up to 2017		00	00	2803828.00	00

Librarian

Pri[illegible]

7/12/23

Librarian
Dr. J. J. Magdum College of
Engineering, Jaysingpur.

DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Late.Mrs. Prabha J.Magdum Central Library

LIBRARY MEMBERSHIPS

Sr.no.	Membership	Type	Valid Up to
01	DELNET	Asso.Membership (Annual)	07/10/2023
02	National Digital Library of India (NDLI)	Life Membership	Library Membership
03	INFED (Inflibnet Access Federation)	Life Membership	Library Membership

Librarian

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

E-Resources Resources 2023-24

Sr.. No.	Product of e-Resources	LOGIN (which is enable to College Global I.P.)	Journals-books full text /proceedings/Topics/Thesis/ Dissertations	Validity up to
01	e-Books	www.k-hub.in User Name – KB496KOP PASSWORD- %mI'wK9FK	5066 e-books,10333 e-Journals, 194 Videos, 113 Proceedings, 157 e-magazines	21/04/2024
02	DELNET (Developing Library Networking)	http://delnet.nic.in User Name - mhdjjme Password – djj5938	Union catalogue of Books CCF-2,51,90,300, Periodicals-37,847, Catalogue of Periodicals 20,235, Database of Articles- 9,84,809, engineering & technology e-journals 911. Video Recordings-6,000, Thesis & Dissertations - 1,02,096 e- books – 1613	07/10/2024
03	NDL	National Digital Library	Open Access to all	Life time membership
04	INFED (Shivaji University Kolhapur)	www.[illegible].unishivaji.ac.in	User Name- ILDRJ1903 Password-ILDRJ1903	Shivaji University Off-Campus Access

Librarian

Principal

7/12/23

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

DR.J.J.MAGDUM TRUST'S
DR.J.J.MAGDUM COLLEGE OF ENGG. JAYSINGPUR
Late Mrs. Prabha J. Magdum Central Library

e-Book details

SR.NO.	SUBJECT	E-BOOKS QUNT.		
		LIB.HAS	K-HUB	DELNET
01	Civil Engg.	067	1008	411
02	Construction Management			
03	Earth Science			
04	Arichecture			
05	Environmental engg.			
06	Mechanical Engg.	086	1062	205
07	Material Sci.			
08	Production Engg.			
09	Hydraulic Engg.			
10	Robotics			
11	Energy Engg.			
12	Industrial and Management			
13	Vechicle Transportation			
14	Electronics Engg.	35	475	141
15	Electrical			
16	Control System			
17	Telecommunication	30	704	230
18	Neural Network			
19	Electrical & Necular Engg.			
20	Computer science and information Tech.	122	886	360
22	General Engineering	47	661	66
23	MCA	000	270	200
	Total	387	5066	1613
	TOTAL 7066			

Librarian

Principal

7/12/23

Librarian
Dr. J. J. Magdum College of
Engineering, Jaysingpur.

Dr. J. J. Magdum College of Engg. Jaysingpur
CENTRAL LIBRARY

Late Mrs. Prabha J. Magdum Central Library

Library at glance for existing courses

E-BOOKS and E-JOURNALS

Total e-books --- 7066

List of e-books		TITLES	TOTAL BOOKS	JOURNALS	
BRANCH				K-HUB	DELNET
CIVIL ENGG.	U.G	1000	1000	1067	150
	P.G	486	486	286	79
MECHANICAL ENGG.	U.G	1353	1353	833	201
ELECTRONICS & COMM.ENGG.	U.G	1615	1615	108	70
INFORMATION TECH.		1000	1000	140	160
COMPUTER.		368	368	619	
GENERAL ENGG.& other Engg.		774	774	913	65
MCA		470	470	00	00
TOTAL		**7066**	**7066**	**3966**	**725**

Total e-journals - 4691

Librarian

Principal

7/12/23

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

Bill To

Principal
Dr.J.J.Magdum College of Engineering
Gat No. 289, Shirol - Wadi Road , Agar Bhag
KOLHAPUR-416101
MAHARASHTRA
INDIA
GSTN:-

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UG-7, JYOTI SHIKHAR, DISTRICT CENTRE,
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Invoice no	2951
SUBSCRIPTION No	IN DJJMCE KOP 2023 2951
Date	06/09/2023
Ref. No	renewal
Ref. Dt.	01/09/2023

Sl No	Journal Name	SAC CODE	Type	Curr	Subs. Period	Price + Postage	Conv Rate	Net INR	Dis On Title	Final Amt in INR
1	K-HUB ENGINEERING E-LIBRARY	998431	ON	INR	23/May/2023-23/May/2024	49000.00+0.00	1.00	49000.00	7	45570
									Amt Before Tax	45570
					₹ Rupees Fifty Three Thousand Seven Hundred Seventy Three Only				GST @ 18%	8202.6
									Grand Total	53772.60

Conv Type : GOC Rate

PR = Print ,ON= Online ,PD= Print + Online

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DR. J.J.MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR 416101

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

INFOTRACK LIBRARY SOLUTIONS

k-hub.in e library (Knowledge Hub) | Clinical Investigations | Drug Matter | Lipi: Digital Manuscripts Collection

2nd December 2023

Dr. J. J. Magdum College of Engg. CENTRAL LIBRARY

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Dr.J.J. Magdum College of Engineering is a subscriber of k-hub.in engineering e library** vide subscription id: DJJM[illegible]E KOP **from 23rd May 2023 till 23rd May 2024.**

Thanks & regards,

Team k-hub.in
Infotrack Library Solutions

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

DR. J. J. MAGDUM COLLEGE OF ENGINEERING

UG –7, Jyoti Shikhar
District Center, Janak Puri
New Delhi – 110058 INDIA

011 - 25624233
011 - 25594233

info@infotrackLS.com
info@k-hub.in

www.k-hub.in | www.infotrackLS.

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Developing Library Network

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Automobile Engineering (15)	Chemical Engineering & Technology (46)
Computer Science(160)	Construction & Infrastructure (79)
Electrical and Electronic Engineering EEE(51)	Electronics & Communication Engineering(41)
Electrical and Nuclear Engineering(70)	Hydraulic Engineering (44)
General & Civil Engineering(115)	Manufacturing (25)
Industrial Engineering (46)	Mechanical Engineering (40)
Materials(36)	Mining and Metallurgy (20)
Military Sciences (23)	Transportation (35)
Technology (General)(65)	

K. Hub - e-Books 10333
e-Sources 5066
e-magazine 157
Proceedings - 113
Videos 154

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

DR. J. J. MAGDUM COLLEGE OF ENGINEERING JAYSINGPUR

Dr. J. J. Magdum College of Engg. Jaysingpur CENTRAL LIBRARY

11/6/2023,

No. Receipt No./77033/2023-24

Dated 27-Oct-23

DELNET- Developing Library Network
Jawaharlal Nehru University Campus
Nelson Mandela Road, Vasant Kunj
New Delhi-110070
State Name : Delhi, Code : 07

Dr. J.J. Magdum College of Engg. Jaysingpur
CENTRAL LIBRARY

Receipt

Received with thanks from : **DR. J.J. MAGDUM COLLEGE OF ENGINEERING**
JAYSINGPUR-416101
TAL-SHIROL, DIST.-KOLHAPUR
(DELNET MEM NO. IM-5938)

The sum of : **Indian Rupees Thirteen Thousand Five Hundred Seventy Only**

By : DR. J.J. MAGDUM COLLEGE OF ENGINEERING, Federal Bank (India)
Inter Bank Transfer

Remarks : **AMOUNT RECEIVED TOWARDS ANNUAL INSTITUTIONAL MEMBERSHIP FEES FOR THE PERIOD 08-10-2023 TO 07-10-2024** [redacted] 16-Oct-23 **13,570.00**

**₹ 13,570.00/-

**Subject to Realisation*

Authorised Signatory

Librarian
Dr. J. J. Magdum College of
Engineering, Jaysingpur.

DR. J.J. MAGDUM COLLEGE OF ENGINEERING
JAYSINGPUR 416101

Dr. Sangeeta Kaul
Director

DELNET
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DELNET/IM-5938/mhDJMCE/MEM/2023

November 2, 2023

Sub: DELNET Membership Renewal

Dear Mr. Mane,

We acknowledge with thanks the receipt of ₹ 13,570 (₹ Thirteen Thousand Five Hundred Seventy only) received through NEFT dated 16.10.2023 made towards the DELNET Annual Institutional Membership Fee for the period 8.10.2023 to 7.10.2024. The receipt no. 77033 dated 27.10.2023 is enclosed for the office records.

You are requested to access DELNET databases through the World Wide Web using the following procedure:

Web Address: http://www.delnet.in

Kindly click onto "New Discovery Portal". Since the IP address provided by you is registered with us, you should be able to open the landing page without login prompt. Please let us know if you encounter any difficulty.

We are also glad to provide the following login & password for accessing DELNET remote:

Login : mhdjmce
Password : dj5938

Kindly note your Inter Library Loan (ILL for Books) Password is **"mhdjmcelib"** to be used while registering a request. You are also welcome to send us the bibliographical references at sangs@delnet.ren.nic.in, sangskaul2003@yahoo.co.in for the resources needed by you. We will try our best to locate these resources. We would like to inform you that DELNET has launched WEBVIEW Youtube channel which contains a large number of video recordings of Webinars organised by DELNET including sessions on DELNET resources and services. The link is available at the Discovery Portal. We would further like to inform you that Usage Report can be generated through "**USAGE STATISTICS**" link which appears at the top side of the landing page of the discovery portal. Kindly use the password as **5938***1992 to download the pdf, containing usage report of your institution.

I would like to mention that DELNET provides access to more than 3.8 crore catalogue records of books, journals, articles, etc. through Discovery Portal and also more than one crore and fifty lakh full-text e-books, e-journals & e-articles through *Knowledge Gateway Portal*. We are pleased to inform you that DELNET has also recently launched ViSiOn Portal which contains Video Recordings of Lectures on varied subjects. We request you to kindly contribute the video lectures of the Faculty Members of your Institution. Kindly contact us for further assistance. DELNET also provides Delphis software free of charge for library automation purpose. DELNET Guest House facility at New Delhi can also be availed by member-libraries on payment basis. Also, we are pleased to inform you that DELNET has developed DELDReSS Portal exclusively for Schools, which is of great relevance to the School students, teachers and administrators.

We would also like to mention that DELNET offers DrillBit software for plagiarism detection for an annual subscription of Rs 48,000 (inclusive of GST) for 300 documents checking.

I would also like to inform you that DELNET shall be glad to organise a one hour webinar on DELNET Networked Resources and Services at a mutually convenient date and time for the students, faculty, researchers and scholars of "Dr. J. J. Magdum College of Engineering, Jaysingpur, Maharashtra". It will help in the effective utilisation of DELNET resources and services.

I am enclosing a poster on DELNET and a Certificate of Membership. Please kindly let us know if you wish to get any books on ILL or the journal articles.

With kind regards,

Yours sincerely,

Sangeeta Kaul

Librarian
Dr. J. J. Magdum College of Engineering, Jaysingpur.

Mr. D.R. Mane
Sr. Librarian
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DR. J. J. MAGDUM COLLEGE OF ENGINEERING

Encl: (1) Receipt no. 77033 dated 27.10.2023 of ₹ 13,570
(2) Tax Invoice
(3) DELNET Poster
(4) Certificate of Membership