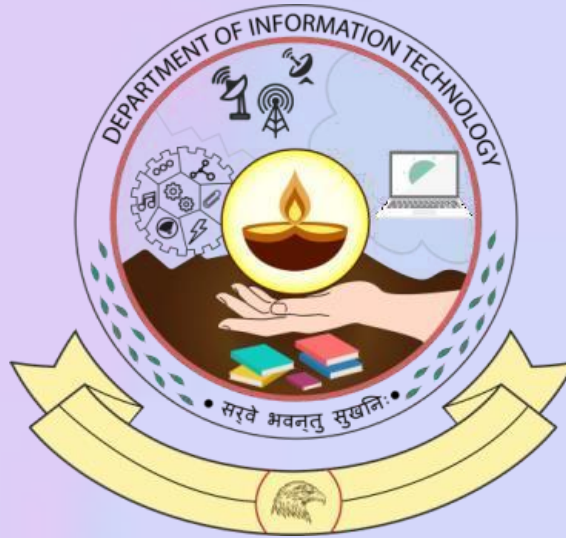




Government
Polytechnic
Thane

Technowize 2020-21

Department of Information Technology



The department of Information Technology was established in 2001 with intake capacity of 60 students. Information Technology department always strive to achieve excellence in education so as to enable students to establish themselves as world-class technicians. The department will provide vibrant infrastructure and software application tool sets to empower them with the proficiency and knowledge required to excel in the dynamic field of IT and to pursue higher education. Information Technology department is committed to create and disseminate knowledge through innovative teaching & learning so as to provide world class technicians at diploma level. It also imparts technical knowledge and skills to students towards continuous improvement in education and placement and prepares the students to meet the challenges in the technical advancement to serve the community. The department has qualified and experienced faculty to impart quality teaching to students. The students are motivated to achieve excellence not only in academics but also in their overall development. Students can also start their own careers in small software development firms or Hardware Maintenance firms.

VISION

To develop technical manpower in Information Technology by adapting rapid technological advancement.

MISSION

We are committed to

- **M1:** Provide hands on skills with well-equipped laboratories
- **M2:** Train faculty & staff to adapt changing technology.
- **M3:** Develop IT professionals with entrepreneurial skills.
- **M4:** Inculcate ethical values, honesty, equity, women empowerment and safety.

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: Provide socially responsible, environment friendly solutions to Information technology related broad-based problems adapting professional ethics.

PEO2: Adapt state-of-the-art Information Technology broad-based techniques to work in multi-disciplinary work environments.

PEO3: Solve broad-based problems individually and as a team member communicating effectively in the world of work.

Table of Content

Sr.no	Topics	Page No.
1	Message from principle	5
2	Message from HOD	6
3	Toppers list	7
4	Departmental Co-Curricular Activities	8-14
5	Participation and Achievements of institute in technical field	15-17
6	Technical articles by students	18-21
7	Technical Games	22-24

Message From Principal



Dr. Nitiket N. Mhala

Principal, Govt. Polytechnic, Thane

Government Polytechnic Thane is one of the oldest polytechnics established in Mumbai region in 1985. The institute belongs to Government of Maharashtra & under the governance of the Director of Technical Education (M.S) Mumbai. The institute is affiliated to Maharashtra State Board of Technical Education (MSBTE).

The Institute is a co-education institute responsible for imparting industry-responsive Diploma level programs in the field of engineering, technology & professional education to the students admitted as per norms stipulated by Government of Maharashtra.

The institute is much closer to the industrial area within the developing community. The notable industries located within 10 kms belt around Thane.

Well established infrastructure facilities are key factors for positive performances.

The faculty members are well qualified, experienced & well trained under NITTTR courses, I.S.T.E. courses & other personality development courses. Faculty members are capable of conducting continuing educational programmes for the industries and the other organizations.

As we believe that education is not simply the acquisition of knowledge, but it is something that develops thinking in the students which leaves a lasting effect upon them resulting in a lifelong learning. So, our goal is to support the students for their overall development. We take efforts to make our students able to face challenges and stand confidently in the increasingly complex world.

MESSAGE FROM HEAD OF THE DEPARTMENT



Prof. Dipali P. Sapkal

Editor-in- Chief Technical Magazine

Department of Information Technology

On behalf of Information Technology Department, I am pleased to announce the launching of the of Technical Magazine of Information Technology Department and to make it available to everyone. This Technical Magazine aims to disseminate achievements in technical developments, while featuring new break-through in the field of Information Technology Department. The entire Editorial team did their best to provide a platform for distinguished faculties, academicians, industry experts and students to share the latest accomplishments with faculties, Industry experts and students whereby disseminating the knowledge gained from their technical endeavours. As Editor-in-Chief, I am open to explore the opportunities for making this Technical Magazine an exciting and definitive forum for attracting and publishing innovative and transformative ideas and for making this technical magazine serve as a forum for disseminating timely and exciting technical development that can stimulate innovation. At the end, I would like to thank editorial board members, faculties, Industry experts and students and hope that our collective efforts stimulate further progress in this domain of activity with strong determination at both national and international levels.

Topper's List

Academic year 2020-21

First Year



Topper 1
89.40 %

ALDAR MOHD
ZEESHAN MOHD
SHARIF

Topper 2
88.93 %

DALVI DNYANESHWARI
NILESH

Second Year



Topper 1
94.18 %

PATIL KRISHNALI
SANTOSH

Topper 2
91.87 %

SIDDHESH RAVINDRA
SOLKAR

Third Year



Topper 1
96.00 %

PAWAR SAKSHI
JANARDAN

Topper 2
94.37 %

MALUSARE
MITALI VAIBHAV

Departmental Co-Curricular Activities

Expert Lecture

Sapana Birla is presenting

Tejas Patil and 74 more

You

**GOVERNMENT POLYTECHNIC
THANE**

INFORMATION TECHNOLOGY
10th Oct 2020
WELCOMES ALL...

Sapana Birla, dipali sapkal, Sachin Bhopi, Hemant Chau..., Ratan Singh, Akash Dange, Sakshi Pawar, siddhesh Solkar

Sapana Birla is presenting

Meeting details

Webinar on

“RECENT TRENDS in IT INDUSTRIES”

By Our Alumni :-
Mr. Sachin Bhopi
Senior UI Developer
IQVIA Ims Health & consultancy Pvt. Ltd.
Powai, Mumbai 400076.

Atharv Gcharge (You), Abhishek Tiwari, Aditya Jadhav, Affan Khan, Ajit Gawade, Akash Dange, Akshay Bangar, Aniket Bhoir

This screenshot shows a Zoom meeting gallery view with 9 participants. The participants are arranged in a grid:

- Top row: Sapana Birla, dipali sapkal, Sachin Bhopi
- Second row: Hemant Chauthe, Ratan Singh, Akash Dange
- Third row: Vedant Kulkarni, Sakshi Pawar, siddhesh Solkar

On the right side, the 'Meeting details' panel is open, showing a list of 95 people in the meeting. The list includes:

- Atharv Garge (You)
- Abhishek Tiwari
- Aditya Jadhav
- Affan Khan
- Ajit Bagal
- Ajit Gawade
- Akash Dange
- Akshay Bangar
- Aniket Bhoir

This screenshot shows a Zoom meeting where Sachin Bhopi is presenting a slide. The slide content is as follows:

Sachin Bhopi is presenting

RECENT TRENDS IN IT INDUSTRY

- Software, Hardware, Telecom services
- Emerging technologies like IoT (cloud), drone, robotics, mobile technologies, many automating technologies etc.

IT Pillars –

- Software Development
- Cybersecurity
- Data
- Infrastructure

The meeting details panel on the right shows the same list of 95 people as in the first screenshot. The bottom of the screen shows a gallery view of participants, including Sachin Bhopi, Sapana Birla, dipali sapkal, siddhesh Solkar, and Ratan Singh.











Participation and Achievements of institute in Technical Field





Akhil Bharatiya Maratha Shikshan Parishad's
Anantrao Pawar College Of Engineering & Research, Pune



Accredited by NAAC , ISO 9001:2015 Certified
 Under Mentorship Of College Of Engineering, Pune (COEP)
 Sr. No 103, Shahu College Campus Parvati, Near Swargate, Pune
 College Code:6794
 In association with



Maharashtra State Board of Technical Education (MSBTE)

'TECHNOTHON 2020'

NATIONAL LEVEL ONLINE PROJECT COMPETITION FOR POLYTECHNIC STUDENTS

CERTIFICATE OF PARTICIPATION

This Certificate is awarded to

Mr./Ms Yash Arjun More of Government

For his / her active Participation in TECHNOTHON 2020 Online Project Competition
held on 25 June, 2020 Polytechnic Thane (GPT)

Prof. Abhay Shelar
 Event Co-ordinator
 TECNOTHON 2020
 APCOER, PUNE

Dr. Sunil Thakare
 Principal
 APCOER, PUNE

Mrs. Pramila B. Galkwad
 Principal
 APCOER, PUNE



Akhil Bharatiya Maratha Shikshan Parishad's
Anantrao Pawar College Of Engineering & Research, Pune



Accredited by NAAC , ISO 9001:2015 Certified
 Under Mentorship Of College Of Engineering, Pune (COEP)
 Sr. No 103, Shahu College Campus Parvati, Near Swargate, Pune
 College Code:6794



In association with



Maharashtra State Board of Technical Education (MSBTE)

'TECHNOTHON 2020'

NATIONAL LEVEL ONLINE PROJECT COMPETITION FOR POLYTECHNIC STUDENTS

CERTIFICATE OF PARTICIPATION

This Certificate is awarded to

Mr./Ms Bishal Naskar of GPThane

For his / her active Participation in TECHNOTHON 2020 Online Project Competition
held on 25 June, 2020

Prof. Abhay Shelar
 Event Co-ordinator
 TECNOTHON 2020
 APCOER, PUNE

Dr. Sunil Thakare
 Principal
 APCOER, PUNE

Mrs. Pramila B. Galkwad
 General Secretary
 ABMS Parishad, Pune



GOVERNMENT POLYTECHNIC THANE

Vision

To create competent technical manpower to cater Industrial and Societal needs.



CERTIFICATE

This is to certify that Mr/Ms Aboli Vijay Sawale having enrollment number 1901160102 of Computer Engineering

has successfully qualified with 75% score in online quiz on the occasion of **75**

years of Independence "Aazadi ka Amrut Mahotsav" on date: 31/3/2021 organised by

Government Polytechnic, Thane.

Certificate Id: A37HPO-CE000029

Dr. N.N Mhala, Principal

Made for free with Certify'em

Article-01

System Analysis Program Development(SAP)

SAP is one of the world's leading producers of software for the management of business processes, developing solutions that facilitate effective data processing and information flow across organisations.

Founded in 1972, the company was initially called System Analysis Program Development (Systemanalyse Programmentwicklung), later abbreviated to SAP. Since then, it has grown from a small, five-person endeavor to a multinational enterprise headquartered in Walldorf, Germany, with more than 105,000 employees worldwide.

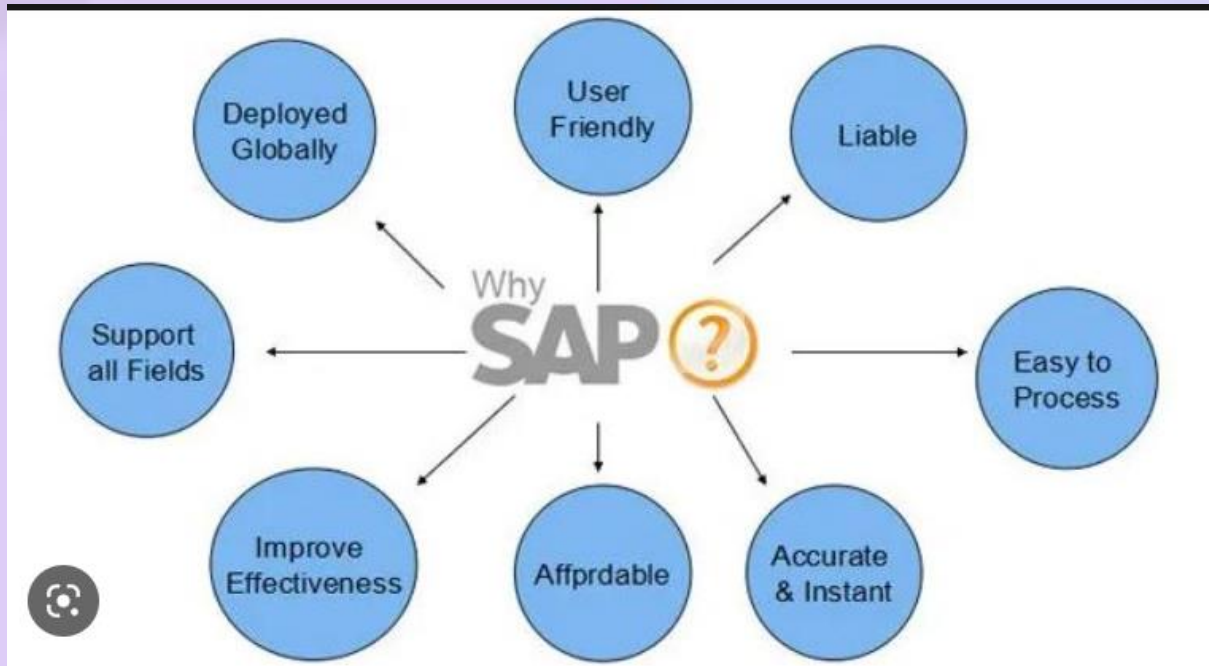
With the introduction of its original SAP R/2 and SAP R/3 software, SAP established the global standard for [enterprise resource planning \(ERP\) software](#). Now, [SAP S/4HANA](#) takes ERP to the next level by using the power of in-memory computing to process vast amounts of data, and to support advanced technologies such as artificial intelligence (AI) and machine learning.

The company's integrated applications connect all parts of a business into an intelligent suite on a fully digital platform, thereby replacing the process-driven, legacy platform. Today, [SAP has more than 230 million cloud users](#), more than 100 solutions covering all business functions, and the largest cloud portfolio of any provider.

What is ERP software?

[ERP](#) stands for “enterprise resource planning.” ERP software includes programmes for all core business areas, such as procurement, production, materials management, sales, marketing, finance, and human resources (HR).

SAP was one of the first companies to develop standard software for business solutions and continues to offer industry-leading ERP solutions.



What does SAP do?

SAP helps companies and organisations of all sizes and industries run their businesses profitably, adapt continuously, and grow sustainably.

Future of SAP:

SAP is going to be very very aggressive hence forth in the future like it has always been. SAP has been the leader in ERP. Microsoft and Oracle are the only 2 software companies better than SAP (in terms of revenue). But with SAP Hana there is a good chance of SAP beating(or very closely competing) with Oracle.. SAP might beat Oracle at their own game (coz in memory computation Hana is now well established and Oracle is still trying to release their version of the same thing 12C, even 2 years after Hana was).

-Dnyaneshwari Dalvi

Article-02

Hacking

Data breaches are occurring left and right, with media coverage putting them in the public eye and bringing on a culture of fear tied to cybersecurity and malicious attackers. But who are these malicious attackers? Are they truly hackers, to use the term everyone uses to describe groups and individuals behind high-profile attacks on organizations and governments?

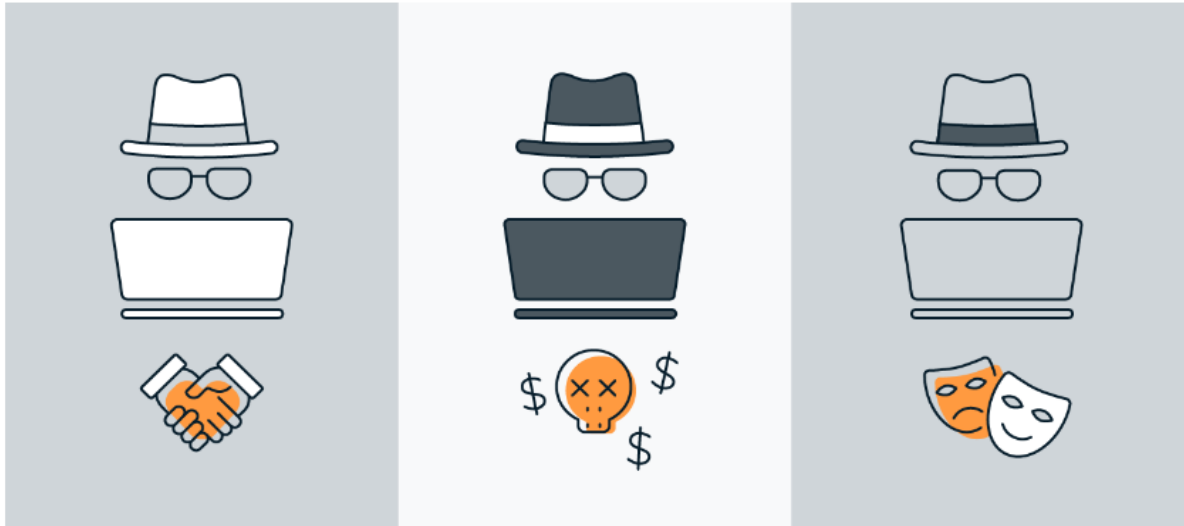
The term “hacker” is used by the media in a derogatory sense, to describe cybercriminals, those who pose a threat to our private information. But is that accurate? The term has had its fair share of meanings throughout the years. Put simply, a hacker is someone who possesses great wealth of knowledge on programming, various computer languages, code and general computer security, and uses their skills to find vulnerabilities in computer systems with the goal of improving and patching those vulnerabilities.

It’s normal to find hackers hired by different organizations to audit their networks, perform penetration testing and conduct all kinds of cybersecurity investigations to uncover any flaws in the system.

What the media calls a hacker is usually a “cracker” — someone who uses their knowledge with malicious intent to find flaws in systems, not with the goal of improving them, but to exploit them and gain unauthorized access.

Types of Hackers:

Hackers fall into three general categories: black hat hackers, white hat hackers, and gray hat hackers. Although hackers are often associated with exploiting vulnerabilities to gain unauthorized access to computers, systems, or networks, not all hacking is malicious or illegal.



White, black, and gray hat hackers have different motivations when breaking into systems.

-Hariprasad Thorve

Technical Games

Name: _____

Date: _____

Technology Vocabulary



Q Q E D E Q I N T E R N E T E X P L O R E R E D
W S W O D N I W C D K D D R A O B R E H T O M R
F U S S F B K T O V P I N S T A G R A M A T B A
L Z E N S V N I Z D Z N R O U T E R E W A N N O
C W E M C E M J N U W N A A P T Y T R O M Y X B
D H I S I I R K M D J L N D N P S C I C M U D Y
F J I K Z R K D C O L U S I T Y B Y V I N L Q E
G L A P B C A Q D H T E R A S R E B U I X E I K
V F A Q V A O F K A O P B G O C Z E L B L O G K
L Q H S P O C D A Z P L N W T I R R H C F S Q F
I U A G H F A D E S E I S S N X G B I L A V R B
A S R O T D C X U T T E E I O A X U R E V R E S
M S D Y G H R W I A R R A Z Y W I L I T U E K N
E C W C P G Q I R N E N E F S N R L H K P B O I
U A A Y X V V E V T U E G H O B W Y Q W P U O S
M N R R U A P J N E O H A R D D R I V E P T B O
E N E A C O B I T S M A R T P H O N E Z D U E F
D E B N P Y P M M A R J Y B F I Q S Y C F O C T
O R V I G O O G L E C H R O M E U Q Z W B Y A W
M C M B K L R T M O Z I L L A F I R E F O X F A
N X K R O W T E N T O E T I S B E W I C D R S R
E S U O M Q F G S L L A W E R I F L M A Y F U E
C R Z O W D D N O T Z O E A P P L I C A T I O N
R A I D E M L A I C O S G R O S S E C O R P X J

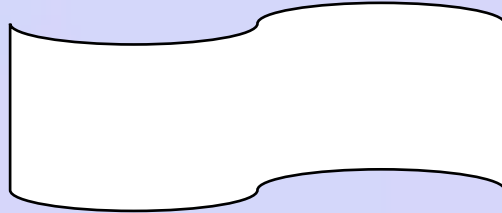


Tablet Kindle Smartphone website blog cyberbully
Operating System Flash Drive IP address binary code firewall
mozilla firefox internet explorer google chrome safari browser
DVD CD keyboard mouse printer scanner application
ROM RAM hard drive chip processor motherboard unix
linux ios windows router modem server network
software hardware email youtube pinterest facebook
instagram Social media

Riddles

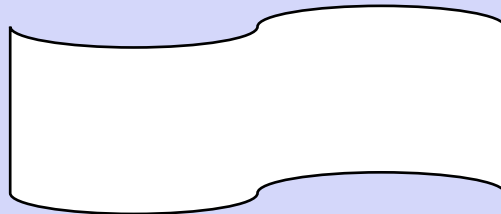
- I'm fundamental and used to build larger structures. While you'll find many different kinds of me, we all just mess with information in different ways. What am I?

Answer:



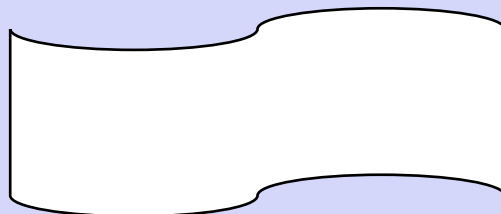
- I'm a simple thing, nothing special. While I have many cousins we're all very similar because we set your project up. What am I?

Answer:

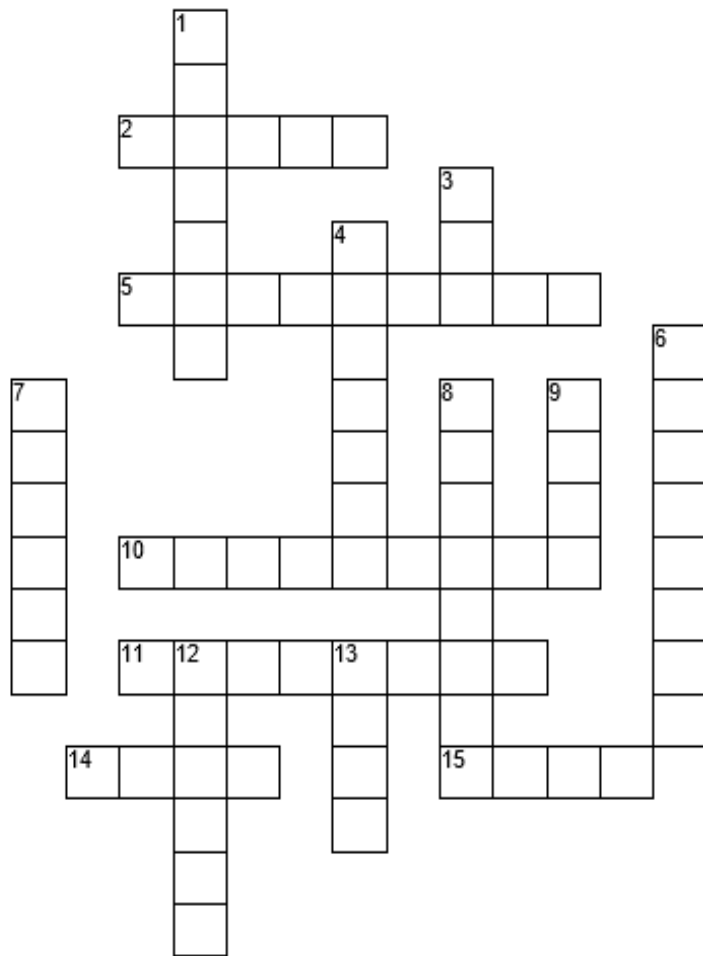


- I have a pulse but no heart, a brain but can't think and while I can sleep, I usually don't stay asleep for long? What am I?

Answer:



Technology Crossword Puzzle



Across

2. A device that feeds data into a computer, such as a keyboard or mouse.
 5. The exclusive right, as recognized separately in each country, to publish and sell literary, artistic, or musical materials.
 10. A software system that links topics on the screen to related information and graphics, which are typically accessed by point-and-click method.
 11. copy (data) from one computer system to another, typically over the Internet.
 14. Usually consists of eight bits.
 15. A measure of the amount of computational work that a computer system performs.

Down

1. Usually comprises the display device, circuitry, casing, and power supply.
 3. An error, flaw, failure, or fault in a computer program or system that causes it to produce an incorrect or unexpected result or to behave in unintended ways.
 4. A client software program that runs against a Web server or other Internet server and enables a user to navigate the World Wide Web (WWW) to access and display data.
 6. The collection of physical parts of a computer system.
 7. Sending an email, posting photos on a social media site and using your webcam.
 8. A part of a computer system or network that is designed to block unauthorized access while permitting outward communication.
 9. The combination of typeface and other qualities, such as size, pitch, and spacing.
 12. Any computer-generated information displayed on screen, printed on paper or in machine readable form, such as disk and tape.
 13. A word or group of words that act as a way to cross reference to other documents or files on the computer.



Government Polytechnic of Thane
Information Technology