

St.Aloysius' College (Autonomous) Jabalpur

Part A Introduction			
Program: Under Graduate Course		II year	Session: 2022-23
Course Code	V2- COS-WEBT		
Course Title	Web Development using PHP & MySQL		
Course Type	Vocational		
Pre-requisite (if any)	Level-1 course– V1-COS-WEBT (Web Designing)		
Course Learning outcomes (CLO)	<p>After completion of course, students will be able to -</p> <ul style="list-style-type: none">• Discover how the web works, what makes web sites work.• Implement simple and impressive design techniques, from basics to advanced – so as to focus on goal oriented and user centric designs.• Use Server Side Scripting.• Implement concept of data persistence.• Apply skills to program logic using PHP and handle data using MySQL.• Develop dynamic websites using PHP & MySQL.		
Expected Job Role / career opportunities	<p>Job Role - Web Designer / Front End & Back End Developer/ Creative Ad Designer.</p> <p>Job Description – PHP developers write server-side web applications using Hypertext Preprocessor (PHP) scripting languages. They are tasked with developing and coding back-end components and connecting applications to other web services. PHP developers also assist front-end developers to ensure their work integrates into the application.</p> <p>Career Opportunities –</p> <p>Typical employers of web developers and designers are –</p> <ul style="list-style-type: none">❖ Software companies❖ IT consultancies❖ Specialist web design companies❖ Large corporate organisations❖ Any organisation that uses computer systems❖ Self-employment/freelance work is often possible for individuals with appropriate experience. <p>Vacancies are advertised online, by career services and by recruitment agencies.</p>		
Credit Value	2 (Theory) + 2 (Practical) = 04		
Part B- Content of the Course			
Total No. of Lectures + Practical (in hours per week): L-1 Hr / P-1 Lab Hr (=2 Hrs)			
Total No. of Lectures/ Practical: L-30 /P-30 (60 Hrs)			

Module	Topics	No of lectures (Total 30)
I	BASICS OF PHP: Introduction to PHP, PHP features, installation of XAMPP, WAMP, Benefits of using PHP MYSQL, Server Client Environment, Web Browser, Web Server Installation & Configuration Files. OOPs with PHP, language basics, syntax, comments, variables, constants and data types, expressions and operators.	6
II	Flow control statements, looping structures, and Arrays Including HTML code in PHP and embedding PHP in web pages. FUNCTIONS & STRINGS in PHP: Defining a function, calling a function, variable scope, function parameters, return values, User Defined Function, System Defined Function, Parameterized Function, Date and time Function, formatting strings, and regular expression.	6
III	Strings: Creating & accessing strings, searching and replacing strings, and comparing strings. PHP Forms: \$ — GET, \$_POST, File Handling: File and directory, open, close, read, write. MySQL an Overview: Introduction, what is a Database, understanding an RDBMS, Tables, records & Fields, SQL Language.	6
IV	Working with phpmyadmin: Creating and using a database, selecting a database, creating/dropping a table, loading data into a table, retrieving information from a table, selecting all data, selecting particular rows, selecting particular columns, writing queries, sorting, calculations, working with NULL values, pattern matching, counting rows. MySQL DATABASES IN PHP: Introduction, connecting to a MySQL database, querying the database Designing applications using PHP & MySQL.	12 .

Text Books, Reference Books, Other resources
<ul style="list-style-type: none"> • Head First PHP & MySQL, Lynn Beighley & Michael Morrison, O'Reilly • PHP: A Beginner's Guide, Vikram Vaswani, McGraw-Hill Edition • Learning PUP, MySQL, JavaScript, & CSS: A Step-by-Step Guide to Creating Dynamic Websites, Robin Nixon, O'Reilly • PHP and MySQL Web Development, Luke Welling, Addison-Wesley • The Joy of PHP, Alan Forbes, BeakCheck LLC • Learning PUP, MySQL, JavaScript, & CSS: A Step-by-Step Guide to Creating Dynamic Websites, Robin Nixon, O'Reilly

Practical	No. of Lectures
<ol style="list-style-type: none"> 1. Create a simple HTML form and accept the user name and display the name through PHP echo statement. 2. Write a PHP script to demonstrate arithmetic operators, comparison operators, and logical operators. 3. Write a PHP Script to input marks, generate results and display grades. 4. Write a PHP Script for addition of two 2x2 matrices. 5. Write a PHP script to obtain the factorial of a number using the function 6. Write a PHP script to demonstrate string, date and math functions. 7. Create a student registration form using a text box, check box, radio button, select, and submit button. And display user inserted value in the new PHP page. 8. Write two different PHP scripts to demonstrate passing variables through a URL. 9. Write two different PHP scripts to demonstrate passing variables with sessions. 10. Write PHP script to demonstrate passing variables with cookies. 11. Write a program to keep track of how many times a visitor has loaded the page. 12. Write PHP script to demonstrate exceptional handling. 13. Write a PHP script to connect the MySQL server from your website. 14. Create EMP table with emp_no, emp_name, designation and salary. Write a program to read employee information from the EMP table and display all this information in the php page. 15. Create a customer table in MySQL with cust_no, cust_name, item_purchased, and mob no, and insert 10 records into it. 16. Write a program to read customer information from the customer table and display all this information in table format on a php page. 17. Designs a web form in PHP to input values for the customer record and insert the record in the customer table as a tuple. 18. Design an "update- web form to edit name of the customer to "Bob" with cust_no 19. Design a "delete web form to delete records with cust_no=3. 20. Create a dynamic web site using PHP and MySQL. 	<p>30 (02 Hours each)</p>

Part C-Learning Resources

Text Books, Reference Books, Other resources

- Head First PHP & MySQL, Lynn Beighley & Michael Morrison, O'Reilly
- PHP: A Beginner's Guide, Vikram Vaswani, McGraw-Hill Edition
- Learning PUP, MySQL, JavaScript, & CSS: A Step-by-Step Guide to Creating Dynamic Websites, Robin Nixon, O'Reilly
- PHP and MySQL Web Development, Luke Welling, Addison-Wesley
- The Joy of PHP, Alan Forbes, BeakCheck LLC
- Learning PUP, MySQL, JavaScript, & CSS: A Step-by-Step Guide to Creating Dynamic Websites, Robin Nixon, O'Reilly

	<ol style="list-style-type: none"> 1. Create a simple HTML form and accept the user name and display the name through PHP echo statement. 2. Write a PHP script to demonstrate arithmetic operators, comparison operator, and logical operator. 3. Write PHP Script to input marks, generate result and display grade. 4. Write PHP Script for addition of two 2x2 matrices. 5. Write PHP script to obtain factorial of a number using function 6. Write PHP script to demonstrate string, date and math function. 7. Create student registration form using text box, check box, radio button, select, submit button. And display user inserted value in new PHP page. 8. Write two different PHP script to demonstrate passing variables through a URL. 9. Write two different PHP script to demonstrate passing variables with sessions. 10. Write PHP script to demonstrate passing variables with cookies. 11. Write a program to keep track of how many times a visitor has loaded the page. 12. Write PHP script to demonstrate exceptional handling. 13. Write a PHP script to connect MySQL server from your website. 14. Create EMP table with emp_no, emp_name, designation and salary. Write a program to read employee information from EMP table and display all this information in php page. 15. Create customer table in mysql with cust_no, cust_name, item_purchased, and mob_no, insert 10 records into it. 16. Write a program to read customer information from customer table and display all these information in table format on php page. 17. Design a web form in php to input values for the customer record and insert the record in customer table as a tuple. 18. Design an "update" web form to edit name of customer to "Bob" with cust_no =1 19. Design a "delete" web form to delete record with cust_no=3. 20. Create a dynamic web site using PHP and MySQL. 	<p>30</p> <p>(02 Hours each)</p>
Project/ Field trip:		
Part C-Learning Resources		
Text Books, Reference Books, Other resources		
<ol style="list-style-type: none"> 1. Head First PHP & MySQL, Lynn Beighley & Michael Morrison, O'Reilly 		

2. PHP: A Beginner's Guide, Vikram Vaswani, McGraw-Hill Edition
3. Learning PHP, MySQL, JavaScript, & CSS: A Step-by-Step Guide to Creating Dynamic Websites, Robin Nixon, O'Reilly
4. PHP and MySQL Web Development, Luke Welling, Addison-Wesley
5. The Joy of PHP, Alan Forbes, BeakCheck LLC
6. Learning PHP, MySQL, JavaScript, & CSS: A Step-by-Step Guide to Creating Dynamic Websites, Robin Nixon, O'Reilly

Suggested equivalent online courses: e-reading:

1. https://onlinecourses.swayam2.ac.in/aic20_sp32/preview
2. <https://www.udemy.com/course/php-mysql-tutorial/>
3. <https://www.udemy.com/course/php-mysql-course-for-absolute-beginners/>
4. <https://www.simplilearn.com/learn-php-basics-free-course-skillup>
5. <https://www.coursera.org/learn/web-applications-php>

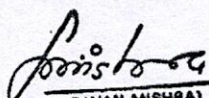
Part A: Introduction

Programme:	Class : II Year	Session : 2022-23
Subject :	E-Commerce	
Course Code	V2 - COM - DIGT	
Course Title :		
Course Type:	Vocational	
Pre-requisite:		
Course Learning Outcomes	<p>This paper aims to enhance skill for effective and contemporary applications of E-Commerce After completion of the course students will be able to:</p> <p>a) Describe the challenging needs of the society in the field of E-Commerce.</p> <p>b) Identify various activities and operations in the context of online transactions.</p> <p>c) Explain the steps in surfing of e-commerce websites.</p> <p>d) Describe various e-payment systems.</p> <p>e) Analyse security issues in E-Commerce.</p>	
Credit Value	04	
Total Marks		

Part B: Content of the course

Total No. of Lectures (in hours per week)- 3		
Unit	Topic	No. of lectures
Unit – 1	Introduction to E- Commerce Concepts and significance of E-commerce; Driving forces of E-commerce; E-commerce business models - Key elements of a business model and categories; Design and launch of E-commerce website - Decisions regarding Selection of hardware and software; Outsourcing Vs in-house development of a website; Functions of E-Commerce; Types of E-Commerce; E-Commerce Systems and Prerequisites, Scope of E-Commerce.	8
Unit – 2	E-Commerce Activities and Operations Various E-Commerce activities; Various manpower associated with e-commerce activities; Types of E-Commerce Providers and Vendors; Modes of operations associated with E-Commerce; E-commerce applications in various industries (banking, insurance, payment of utility bills and others), e-marketing, e-tailing, online services, e-auctions, online portal, online learning, e-publishing and e-entertainment, online shopping.	7
Unit- 3	E-payment System E-payment Methods- Debit card, Credit card, Smart cards, E-Money, E-Wallets; Digital signatures- procedures and legal position; Payment gateways; Online banking- concepts, importance; Electronic fund transfer; Automated Clearing House. Automated Ledger Posting, Emerging modes and systems of E-payment (M-Paisa, PayPal and other digital currency), UPI Apps, Aadhar Enabled Payment Systems, BHIM App E-payments risks.	8
Unit- 4	Security and Legal Aspects of E-commerce E-commerce security – meaning and issues. Security threats in the E-commerce environment- security intrusions and breaches, attacking methods like hacking, sniffing, cyber-vandalism etc.; Technology solutions- encryption, security channels of communication, protecting networks, servers and clients. Overview of Information Technology Act, 2000-provisions related to secure electronic records.	7

Expected Job Role / career opportunities	E-Business Consultant, Customer Relation Manager, Business Analyst, Supply Chain Manager, Project Manager, Database Administrator.	
	Practical	Total No. of lectures
	1. Help others to learn the use of e-wallet, e-payment, digital signatures. Prepare a report on the skills used by them to help others learn. 2. Use the internet banking facility to buy a product from any online website. 3. Open internet banking account and operate it. 4. Create their own YouTube channel and post one video on awareness of cyber security and crime 5. Clicking various E-Commerce websites and how to register and login on it. 6. Use the internet banking facility to buy a product from any online website. 7. Register the complaint regarding various issues i.e. refund, return, defective product and delay in delivery.	30
Part C-Learning Resources		
Text Books, Reference Books, Other resources		
1. E-commerce- Tulsiram Kundala, K. Maheshwari- Himalya publication Nagpur 2. E-commerce- Dr. Sandeep Srivastava, Er. Meera Goyal - SBPD-New Delhi 3. E-commerce - Avriti Tangri - VK Global Publications Pvt 4. E-commerce - B. Bhardwaj Dr. RS, Garg - Galgotia Publishing Company 5. Essential of E-Commerce –M.K. Mallick - Sanjay Sahity Bhavan Agra 6. <i>Business on the Net: An Introduction to the whats and hows of E-commerce</i> . Noida, Uttar Pradesh: Agarwala, K. N., Lal, A., & Agarwala, D Macmillan Publishers India Limited. 7. <i>Electronic commerce- A Manager's Guide to E- Business</i> .- Diwan, P., & Sharma, S- Vanity Books International Delhi .		
Suggested equivalent online courses: e-reading: 1. https://www.iare.ac.in/sites/default/files/lecture_notes/IARE_ECommerce_Lecture_Notes.pdf 2. https://oms.bdu.ac.in/ec/admin/contents/387_P16MCE4A_2020051801071611.pdf 3. https://www.gasckovilpatti.com/studymaterial/commerce/II%20MCOM%20E%20COMMERCE%20pKCM33.pdf 4. https://irp-cdn.multiscreensite.com/1c74f035/files/uploaded/introduction-to-e-commerce.pdf 5. https://backup.pondiuni.edu.in/storage/dde/dde_ug_pg_books/E-%20Commerce.pdf 6. https://www.tutorialspoint.com/e-commerce/e-commerce-tutorial.pdf		



(PROF. PAVAN MISHRA)

Chairman

Central Board of Studies (Commerce)

Department of Higher Education Govt. of M.P.

भाग अ - परिचय			
कार्यक्रम:		वर्ष: द्वितीय वर्ष	सत्र:2022-23
1	पाठ्यक्रम का कोड	V2-COM-DIGT	
2	पाठ्यक्रम का शीर्षक	ई-कॉमर्स	
3	पाठ्यक्रम का प्रकार	Vocational	
4	पूर्वापेक्षा (यदि कोई हो)	नहीं	
5	पाठ्यक्रम अध्ययन की परिलब्धियां (कोर्स लर्निंग आउटकम) (CLO)	<p>इस पेपर का उद्देश्य ई-कॉमर्स के प्रभावी और समकालीन अनुप्रयोगों के लिए कौशल को बढ़ाना है, पाठ्यक्रम पूरा होने के बाद छात्र निम्न में सक्षम होंगे:</p> <p>अ) ई-कॉमर्स के क्षेत्र में समाज की चुनौतीपूर्ण आवश्यकताओं का वर्णन</p> <p>ब) ऑनलाइन लेन-देन के संदर्भ में विभिन्न गतिविधियों और संचालन की पहचान।</p> <p>स) ई-कॉमर्स वेबसाइटों की सर्फिंग के चरणों की व्याख्या</p> <p>द) विभिन्न ई-भुगतान प्रणालियों का वर्णन</p> <p>इ) ई-कॉमर्स में सुरक्षा मुद्दों का विश्लेषण</p>	
6	क्रेडिट मान	04	
7	कुल अंक		

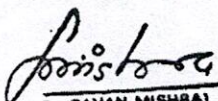
भाग ब- पाठ्यक्रम की विषयवस्तु

व्याख्यान की कुल संख्या (प्रति सप्ताह घंटे में): :

इकाई	विषय	व्याख्यान की संख्या
1	ई-कॉमर्स का परिचय ई-कॉमर्स की अवधारण एवं महत्व, ई-कॉमर्स की प्रेरक शक्ति, ई-कॉमर्स के व्यावसायिक प्रतिदर्श (मॉडल), व्यवसाय के रूप में आवश्यक तत्व एवं वर्ग, ई-कॉमर्स वेबसाइट का निर्माण, हार्डवेयर एवं सॉफ्टवेयर का चयन, वेबसाइट का विकास - आउटसोर्स बनाम आंतरिक, ई-कॉमर्स के कार्य, ई-कॉमर्स के प्रकार, ई-कॉमर्स का क्षेत्र, प्रणालियां एवं पूर्वापेक्षाएँ।	8
2	ई-कॉमर्स गतिविधियाँ एवं संचालन ई-कॉमर्स की विभिन्न गतिविधियाँ और उसमें नियोजित मानव संसाधन, ई-कॉमर्स विक्रेता एवं प्रदाता, ई-कॉमर्स संचालन के रूप, विभिन्न उद्योगों में ई-कॉमर्स का उपयोग जैसे :- बैंक, बीमा एवं अन्य संस्थाओं के बिलों का भुगतान, ई-भुगतान, ई-विपणन, ई-मिलान, ई-नीलाम, ऑनलाइन पोर्टल सेवा, ई-प्रकाशन, ई-मनोरंजन, ऑनलाइन खरीदना-बेचना।	7
3	ई-भुगतान पद्धति ई-भुगतान पद्धति -डेबिट कार्ड, क्रेडिट कार्ड, स्मार्ट कार्ड, ई-मुद्रा, ई-वॉलेट, डिजिटल हस्ताक्षर प्रक्रिया एवं कानूनी प्रावधान, भुगतान गेट-वे, ऑनलाइन बैंकिंग, इलेक्ट्रॉनिक	8

	फण्ड ट्रांसफर, स्वचलित क्लियरिंग हाउस, स्वचलित खाता प्रविष्टि, ई-भुगतान के नए तरीके – (एम पैसा, पे-पल एवं अन्य डिजिटल मुद्रा), यूपीआई एप्लीकेशन, आधार आधारित भुगतान पद्धति, भीम एप्लीकेशन, ई-भुगतान में जोखिम	
4	ई-कॉमर्स में सुरक्षा एवं कानूनी प्रावधान ई-कॉमर्स सुरक्षा – अर्थ एवं मुद्दे, सुरक्षा चेतावनी एवं निर्देश, सुरक्षा में सेंध, हैकिंग, स्निफिंग, सायबर अपराध – धोखाधड़ी। तकनीकी समाधान, एन्क्रिप्शन, संवाद की सुरक्षा चैनल, नेटवर्क प्रोटेक्शन, सर्वर एवं ग्राहक की सुरक्षा। सूचना तकनीक अधिनियम 2000 के सुरक्षा संबंधी प्रावधान।	7
प्रायोगिक क्रियाकलाप : विद्यार्थियों के लिए आवश्यक है कि - 1. विभिन्न ई-कॉमर्स वेबसाइटों पर क्लिक करना और उन पर पंजीकरण एवं लॉगिन। 2. इंटरनेट बैंकिंग खाता खोलना एवं उसका संचालन 3. किसी भी ऑनलाइन वेबसाइट से उत्पाद खरीदने के लिए इंटरनेट बैंकिंग सुविधा का उपयोग 4. ई-वॉलेट, ई-पेमेंट आदि के उपयोग को सिखाने में मदद 5. विभिन्न मुद्दों पर शिकायत दर्ज करना जैसे – दोषपूर्ण उत्पाद, वितरण में देरी, रिफंड, रिटर्न आदि		30

भाग स-अनुशंसित अध्ययन संसाधन			
स.क्र.	लेखक	पुस्तक का नाम	प्रकाशक
1.	M.K.Malik	ई –कॉमर्स की अनिवार्यता	संजय साहित्य भवन आगरा
2.	एस.एल.अरोरा	सूचनार्थ प्रणाली और ईकॉमर्स-	साहित्य भवन आगरा
3.	E-commerce	Dr. Sandeep Srivastava, Er. Meera Goyal	SBPD-New Delhi
अनुशंसित डिजिटल प्लेटफॉर्म वेब लिंक:- 1. https://ncert.nic.in/textbook/pdf/khbs105.pdf 2. https://sdak24.com/unit-1-introduction-e-commerce-bcom-notes 3. https://www.uou.ac.in/sites/default/files/slm/BCM-305.pdf 4. https://www.mcu.ac.in/wp-content/uploads/2020/04/2DCA2-Unit-I-Internet-and-E Commerce.pdf 5. SWAM PORTAL			



(PROF. PAVAN MISHRA)

Chairman

Central Board of Studies (Commerce)

Department of Higher Education Govt. of M.P.

Part A Introduction		
Program: _____/Diploma	Year: 2 nd yr	Session:2022-23
Course Code	V2-COA-DTPT	
Course Title	Desk Top Publishing with Advanced Page Maker	
Course Type	Vocational	
Pre-requisite (if any)		
Course Learning outcomes (CLO)	<p>After studying this Course the Student will be able to</p> <ul style="list-style-type: none">• Gain in depth knowledge of Page maker and its practical Applications.• Create, Edit & format documents using Page Maker.• Understand various advance concepts of Page maker for Desktop Publishing.• Using PageMaker, students will be able to gain practical knowledge of book preparation and handling of large amount of texts• Gain deep insights of working with PDF's	
Expected Job Role / career opportunities	<p>After studying this Course the Student will be able to pursue his/her career as a/an:</p> <ul style="list-style-type: none">• Graphic designer• Multimedia Editor• Logo Designer• Office Assistant• Desktop Publishing Operator	
Credit Value	4	
Part B- Content of the Course		
Total No. of Lectures + Practical (in hours per week): L-2 Hrs / P-2 Hrs		
Total No. of Lectures/ Practical: L-30hrs/P-60hrs		

Module	Topic	No. of Hours
I	Working with a publication, opening a publication, creating a new document, setting the margin, setting the page size, setting the page orientation, placing graphics, placing in-Line graphics, converting an Independent Graphics to an In-Line Graphics, Aligning In-Line Graphics, sizing graphics, Cropping Graphics, Object Linking and Embedding (OLE), Setting up an OLE linked Object, Embedding an OLE Object, Text Wrap.	8L
II	Introduction of control Palette, Control Palette Basics, Modifying objects by Adjusting Values, Using the reference point proxy, Moving Object, Rotating an Object, Reflecting an Object, Skewing an Object, Aligning and Distributing an Object, Grouping and Ungrouping, Locking objects, polygon setting, Long documents features:- Preparing a book, inserting page numbering, Creating a table of content, Inserting adobe table ,Formatting text in table, updating table, exporting table as text, exporting and saving adobe table,	10L
III	Introduction of adobe photoshop, Interface of photoshop, working of tools, image resizing, Image Transformation: - Scaling, Rotating, skewing, changing color modes of images and adjustments, Layer set, Locking	

	layers, flatten image, feathering image, Working with selection: - Add to selection, subtract from selection, intersect with selection, Load selection, save selection, filter effects on image, Animation on image using image ready	12L
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Project/ Field trip
Part C-Learning Resources
Text Books, Reference Books, Other resources
<p>Suggested Readings:</p> <ol style="list-style-type: none"> 1. Desk Top Publishing From A to Z by Bill Grout and Osborne; McGraw Hill 2. DTP (Desk Top Publishing) for PC user by Houghton; Galgotia Publishing House Pvt. Ltd., Daryaganj, New Delhi. 3. ADOBE PAGEMAKER 6.5 - Shashank Jain & Satish Jain – First Edition 2001, BPB Publications. 4. PAGEMAKER 6.5 COMPLETE – R. Shamms Mortier, Rick Wallace, Rick Wallace, Phil Gaskill, Richard Romano, Carla Rose, Ellen Wixted, First Indian Edition 1997, Techmedia. 5. DESKTOP PUBLISHING ON PC – M.C. Sharma, First Edition 1997, BPB Publications. 6. BPB'S DTP COURSE (DESKTOP PUBLISHING) – Satish Jain & M. Geetha Iyer. First Edition 2009. BPB Publications. 7. PAGEMAKER 7 FOR WINDOWS – Ted Alspach, First Indian Edition 2002, Techmedia. 8. ADOBE PAGEMAKER 7.0 - Shashank Jain & Satish Jain – First Indian Edition 2002, BPB Publications.
<p>Suggested equivalent online courses:</p> <p>https://www.youtube.com/watch?v=NxDeGx7RXTg</p> <p>https://www.youtube.com/watch?v=7pllLjZ8vgw</p> <p>https://www.youtube.com/watch?v=RiYkSiKfEu0</p> <p>https://www.youtube.com/watch?v=ZiqjVMrvvoI</p> <p>https://www.youtube.com/watch?v=ApHRQIIwJ8</p> <p>https://www.youtube.com/watch?v=tuRRqfRFWQ0</p> <p>https://www.youtube.com/watch?v=0pkMllsMZHk</p>

Project/ Field trip
Part C-Learning Resources
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<p>Suggested equivalent online courses:</p> <p> https://www.youtube.com/watch?v=NxDeGx7RXTg https://www.youtube.com/watch?v=7pllLjZ8vgw https://www.youtube.com/watch?v=RiYkSiKfEu0 https://www.youtube.com/watch?v=ZiqjVMryvoI https://www.youtube.com/watch?v=ApHRQIIwJ8 https://www.youtube.com/watch?v=tuRRqfRFWQ0 https://www.youtube.com/watch?v=0pkMllsMZHk </p>

Note if Any:

[Signature]
Dor Goswami