GOVERNMENT COLLEGE FOR MEN

(Autonomous)

Reaccredited with 'B++' Grade by NAAC

Kadapa – 516004

B.Com. Honours COMPUTER APPLICATIONS

Board of Studies

on

16th September 2025

with effect from **2025–26** Academic Year

DEPARTMENT

OF

COMPUTER SCIENCE & APPLICATIONS

BOARD OF STUDIES MEETING

IN

B.Com. Honours COMPUTER APPLICATIONS

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

B.Com. Honours COMPUTER APPLICATIONS

	Category	Name & Designation of the Person	Chairperson /Member
1.	Head Department of Computer Science and Applications	**Smt Y Anitha** Lecturer in Computer Science	Chairman
2.	Faculty Members	**Sri T Manohar Reddy,** Lecturer in Computer Science **Sri K H Sampath Kumar Raju** Lecturer in Computer Science **Smt B Renuka Devi** Lecturer in Computer Science **Sri M Mahaboob Subhani** Lecturer in Computer Science **Sri P Veera Reddy** Lecturer in Computer Science **Sri M. Govardhan** Lecturer in Computer Science **Sri K. Pulla Reddy** Lecturer in Computer Science	Member Member Member Member Member Member Member
3	Subject expert in the Subjectto be nominated by the Vice-Chancellor from a panel of six recommended by the principal	**Dr B Reddaiah,** Associate Professor, Dept. of CSE, YVCET of YVU, Proddatur, Andhra Pradesh.	Member
4	Subject Experts in the Subject from outside the college to be nominated by the Academic Council	**Dr C. Shoba Bindu,** Professor, Department of CSE, JNTUA Anantapuramu, Andhra Pradesh. **Dr A Sri Lakshmi,** Lecturer in Computer Applications, Govt. Degree College, Nagari, Chittoor(dt), Andhra Pradesh.	Member Member
5	A representative from industry/ corporate sector related to placements nominated by the principal	**Sri. G Trivikram,** Senior project Manager, Kumaran Systems, Bangalore.	Member
6	One Meritorious Alumnus	**Sri K Krishna Geeth,** Senior Software Engineer, Wipro Technologies, Hyderabad.	Member

BOS Chairman

Principal

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

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Members of the board of studies attended meeting Online through Google Meet Video Conferencing tool under the chairmanship of **Smt.Y. Anitha**, Lecturer in-charge ofthe Department of Computer Science and Applications on **16–09-2025 at 12:00 PM** to discuss and finalize the following agenda.

Agenda

1. To discuss the syllabus for 5th Semester of B.Com. Honours Computer Applications with effect from 2025-2026 academic year.
2. To discuss the internal and external question papers patterns for 5th Semester of B.Com. Honours Computer Applications with effect from 2025-2026 academic year.
3. To consider the list of question paper setters and list of examiners.

Resolution: All the members unanimously resolved to approved

1. It is resolved to approve the Course structure of the programme for 5th Semester of B.Com. Honours Computer Applications w.e.f. 2025-26.
2. It is resolved to approve the proposed syllabus of III-year 5 th Semester B.Com. Honours Computer Applications from 2025-2026.
3. It is resolved to approve the paper Business Analytics and Mobile Applications Development as elective subjects.
4. It is resolved to approve the paper Web Programming and Web Development Using PHP & MySQL as minor in semester V from 2025-2026.
5. External and Internal Evaluation with the ratio of 60 and 40.
6. Internal and external question papers pattern and blueprint for external question paper for 5th Semester of B.Com. Honours Computer Applications are also finalized.

Internal Evaluation Pattern for 5 th Semester of B.Com. Honours Computer Applications

1st Internal Examination	: Max. 20 Marks2nd
Internal Examination	: Max. 15 Marks
Assignment	: Max. 05 Marks
Seminar	: Max. 05 Marks
Extra-curricular activities	: Max. 05 Marks
Total	**: Max. 50 Marks**

- *Should scale down 50 marks to 40 marks by using formula:*

$$scaled\ marks = \frac{total\ scored\ marks * 40}{}$$

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

B.Sc. Honours COMPUTER SCIENCE

External Evaluation Pattern for 5th Semesters of B.Com. Honours Computer Applications

Time: 3 Hrs **Model Question Paper** **Max. marks: 60**

Section – A **5 x 4 = 20 Marks**

Answer any **FIVE** questions from the following **1 to 8** questions.

Each question carries **4** marks.

[**At least one question should be given from each unit**]

Section – B **5 x 8 = 40 Marks**

Answer any **FIVE** questions from the following **9 to 16** questions.

Each question carries **8** marks.

[**At least one question should be given from each unit**]

with effect from 2025–26 academic year

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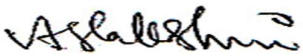
Members Present:

	Name of the Member	Signature with date
1.	Smt Y. Anitha (Chairman)	
2.	Dr B. Reddaiah (Nominee from the University)	
3	Dr C. Shoba Bindu (Subject Expert)	
4	Dr A. Sri Lakshmi (Subject Expert)	
5	Sri. G Trivikram (Industrialist)	
6	Sri K Krishna Geeth (Alumnus)	
7	Sri T. Manohar Reddy (Member)	
8	Sri K. H. Sampath Kumar Raju (Member)	
9	Smt B Renuka Devi (Member)	
10	Sri M Mahaboob Subhani (Member)	
11	Smt K. Deepthi (Member)	
12	Smt P. Rama Lakshumma (Member)	

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B.Com. Honours COMPUTER APPLICATIONS

Revised UG Syllabus under CBCS

with effect from 2025–2026 Academic Year

Structure for III Year B.Com. Honours Computer Applications

MAJOR SUBJECTS

Year	Semester	Course Code	Course Name	Hours per week			Credits
				L	T	P	
III	V		Business Analytics (T) (OR) Cyber Security (T)	3	0	0	3
			Business Analytics(P) (OR) Cyber Security (P)	0	0	2	1
			Mobile Applications Development(T) (OR) Block Chain Technology (T)	3	0	0	3
			Mobile Applications Development(P) (OR) Block Chain Technology (P)	0	0	2	1
						Total	8

MINOR SUBJECTS

Year	Semester	Course Code	Course Name	Hours per week			Credits
				L	T	P	
III	V		Web Programming (T)	3	0	0	3
			Web Programming (P)	0	0	2	1
			Web Development Using PHP & MySQL(T)	3	0	0	3
			Web Development Using PHP & MySQL(P)	0	0	2	1
						Total	8

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DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

B.Com. Honours Computer Applications

Program Code	Course Business Analytics	Program & Semester III B. Com [CA]- V Semester			
Teaching	Hours Allocated:	L	T	P	C
Pre-requisites		3	0	0	3

Course Objectives:

- The course aims to help learners to acquire knowledge on Business Analytics and explain why Business Analytics is important. State some typical examples of Business Applications and differentiate between OLAP and OLTP.
- Explain the concepts of Business Intelligence and understand different types of Analytics Differentiate between Data Mining and Machine Learning Concepts

Learning Outcomes:

- After Completing this course, the students will be able to Understand business analytics and develop business intelligence.
- Analyze data using statistical and data mining techniques for business intelligence.
- Understand case studies for predictive models. Expertise in OLAP Tools.
- Apply different Analytic Techniques

Unit 1:

Business Analytics: definition, Components of Business Analytics, Types of Business Analytics methods, Benefits of Business Analytics, Business Analytics Tools, Applications of Business Analytics, Trends in Business Analytics

Case Study:

1. Retail Analytics

2. Marketing Analytics

Unit 2:

Descriptive Analytics, Statistics: Types of Statistics, Types of Data, Measure of Central Tendency: Mean, Median, Mode, Standard Deviation, Variance

Case Study:

1. Financial Analytics **2.** Social Media and Web Analytics

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Unit 3:

OLAP, OLAP Operations: Roll Up, Drill Down, Slice and Dice, Pivot, Types of OLAP, OLAP Tools, OLTP, Characteristics of OLTP, OLTP advantages and disadvantages,

Case Study: Working with any one of the OLAP Tools

Unit 4:

Architecture and Components of Business Intelligence, Business Intelligence for Management, Operational BI, What is Business Intelligence, Benefits of BI, Roles and Responsibilities of BI, Overview of Popular BI Tools in Market

Case Study: Real-Time Credit and Debit Card Fraud Detection, an HPE Shadowbase

Unit 5:

Data Mining Concept, Concepts of data mining model with its development and deployment in business scenario, Types of Data Mining Models, Machine Learning: definition, How ML works, Features and Importance of ML, Machine Learning Concepts: Classification of ML

Case Study: Healthcare Analytics

Text Books:

1. Module 5, Business Data Analytics by IBM

2. Essentials of Business Analytics: An introduction to the methodology and its applications by Bhima sankaram P, Sridhar S

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Program Code	Course Business Analytics (P)	Program & Semester III B. Com[CA] V Semester			
Teaching	Hours Allocated:	L	T	P	C
Pre-requisites		0	0	2	1

List of Experiments

1. Draw the diagram showing the types of Variables with examples.
2. Differentiate between Numerical and Categorical Variables.
3. What are Named variables? Using Ms-Excel, create a list of 10 named variables and add the numbers automatically.
4. What is a Ratio Variable? State the importance of Ratio Variable in Data Analytics.
5. Explain the Data Table in Excel. Create a One Variable Data Table in Excel.
6. What is a two Variable Data Table? Write steps to create a Two Variable Data Table.
7. Write steps for analyzing a Data Table with Multiple Formulas in Excel.
8. How do you Create, Rename, Recode, and Merge Variables in R?
9. Write steps to create Your Name, Age, Class, and College Name in R.
10. Draw a Chart for R- Variables.
11. Find the Average Price of given items using MS-Excel.

Rice Bag Ashirwad	1450
Rice Bag India Gate	1200
Sona's Sona Masurie	1300
Kohinoor Rice	1100
Aabida Basmati Rice	1400
Indian Valley	1250
Mannat Rice	1200
Shaalimaar Rice	1425

12. Using MS-Excel, find the Median Value of the following items.

Items	Status	Amount Rs.
Banana	Delivered	758
Apple	Cancelled	258
Cherry	In-transit	587
Banana	Delivered	495
Banana	Cancelled	687
Apple	Delivered	258
Cherry	Delivered	684

13. Find the most frequently ordered Quantity from a supermarket store in MS-Excel.

Products	Quantity	MRP (Rs.)
Tang Orange Flavour	5	1050
Rasna Orange	6	1200
RoohAfza	5	1800
Tang Apple	10	1200
Rasna Green Apple	5	1700
Tang Cocktail	5	1400
Jaljeera	15	120

14. Find the Highest and Lowest Marks of Students obtained in English using Ms-Excel

Himabindu	85
Karthik	15
Renuka	78
Mallika .S	15
Ashok Jaiswal	100
Billu Yadav	75
Girish J.	50
Sarika	05

15. Find the Geometric and Harmonic Mean Wages from the following data using Ms-Excel

Job	Wages (Rs.)
Electrician	200
Nurse	500
Sales Manager	540
Manufacturing Engineer	540
Celebrity	450
Beautician	480
Data entry operator	350
Plumber	240

16. Using MS-Excel, calculate Standard Deviation of total sales from the given data.

Total Sales (Rs.)	Branch
258000	Delhi
485220	Mumbai
875010	Kolkata
235461	Hyderabad
875212	Indore
785223	Surat
345621	Pune

17. Find Q1 and Q3 and also Quartile Deviation from the following information in Ms-Excel

S. No.	Value
1	145
2	254
3	156
4	354
5	253
6	253
7	245
8	892
9	242
10	268

18. Find the Quartiles from the following data in Ms-Excel.

Height (in inches)	58	59	60	61	62	63	64	65	66
No. of Persons	2	3	6	15	10	5	4	3	1

19.Compare and find the Range of 10 Students' marks in Mathematics and Statistics using Ms-Excel.

Maths	25	40	30	35	21	45	23	33	10
Statistics	30	39	23	42	2	40	25	30	18

20. Calculate Variance from the following data in MS-Excel.

X: 10, 11, 17, 25, 7, 13, 21, 10, 12, 14

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Model Question Paper

III B.Com [CA]- Honours (Computer Applications)- V Semester

Paper Title: Business Analytics

Time: 3 hours **Max. Marks: 60 Marks**

SECTION – A

Answer any Five of the following questions. **5 x 4 = 20 M**

1. Write about Business Analytics Tools ?
2. Write about Applications of Business Analytics ?
3. Write about Types of Data .
4. Write Types of Statistics .
5. Write about types of OLAP.
6. Explain about various BI Tools ?
7. Write Benefits of Business Intelligence
8. Write about types of Machine Learning .

SECTION – B

Answer any Five of the following questions. **5 x 8 = 40 M**

9. Write about various types of Business Analytics Methods .
10. Explain Components Business Analytics
11. Explain measure of Central Tendency.
12. Explain measure of Variance and Standard Deviation .
13. Explain various OLAP Operations .
14. Explain various OLTP Advantages and Disadvantages of OLTP.
15. Explian Architecture and Components of Business Intelligence
16. Explain Data Mining Models with its Development and Deployment

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Model Question Paper

III B.Com [CA]- Honours (Computer Applications)- V Semester

Paper Title: Business Analytics

BLUE PRINT FOR THE MODEL PAPER

S.NO.	Type of Question	To be given in the Question Paper			To be answered		
		No. of Questions	Marks allotted to each question	Total Marks	No. of Questions	Marks allotted to each question	Total Marks
1	Section – A (Short Questions)	8	4	32	5	4	20
2	Section – B (Essay Questions)	8	8	64	5	8	40
Total Marks				**96**	**Total Marks**		**60**

BLUE PRINT FOR THE QUESTION PAPER SETTING

Chapter Name	Short Questions 4 Marks	Essay Questions 8 Marks	Marks allotted to the Chapter
UNIT - I	2	2	24
UNIT - II	2	2	24
UNIT - III	1	2	20
UNIT - IV	2	1	16
UNIT - V	1	1	12
Total No. of Questions	**8**	**8**	**96**

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Program Code	Course CYBER SECURITY (T)	Program & Semester III B. Com[CA] V Semester			
Teaching	Hours Allocated:	L	T	P	C
Pre-requisites		3	0	0	3

Course Objectives:

- The aim of this course is to help the learner to understand key terms and concepts in cyber security. The Learner will learn to secure clean and corrupted systems, protect personal data, and secure computer networks.
- The Learner will be able to examine secure software development practices and gain an understanding of cryptography, how it has evolved, and some key encryption techniques used today.

Learning Outcomes:

The students will be able to:

- Analyze and evaluate the cyber security needs of an organization. Determine and analyze software vulnerabilities and security solutions to reduce the risk of exploitation.
- Measure the performance and troubleshoot cyber security systems.
- Implement cyber security solutions and use of cyber security, information assurance, and cyber / computer forensics software/tools.
- The Learner will develop an understanding of security policies (such as confidentiality, integrity, and availability) and protocols to implement such policies and will gain familiarity with prevalent network and distributed system attacks, defenses against them, and forensics to investigate the aftermath.

Unit 1:

Cyber Security Fundamentals: Network Security Concepts: Information Assurance Fundamentals, Basics of Cryptography: Symmetric and Asymmetric, DNS, Firewalls, Virtualization, Radio-Frequency Identification Microsoft Windows Security Principles: Windows Tokens, Window Messaging, Windows Program Execution, Windows Firewall Case Study: Install any Virtualization Software and perform various tasks

Unit 2:

Attacker techniques and motivations: Anti forensics, Tunneling Techniques, Fraud Techniques, and Threat Infrastructure Case Study: Working with Free and commercial proxies available from web-hack.ru.

Unit 3:

Exploitation: Techniques to gain a Foothold, Misdirection, Reconnaissanse, and Disruption Methods Case Study: Working with SQL Injection attacks and DDoS attacks

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Unit 4:

Malicious Code: Self-Replicating Malicious Code, Evading Detection and Elevating Privileges, Stealing Information and Exploitation. Case Study: Identify latest Malwares and differentiate different types of malwares

Unit 5:

Defense and Analysis Techniques: Memory Forensics, Honeypots, Malicious Code Naming, Automated Malicious Code Analysis Systems, Intrusion Detection Systems Case Study: Identify latest Anti-Virus Softwares in the market and compare the functionality of each Anti-Virus

Text Books:

1. Cyber Security Essentials by James Graham, Richard Howard, Ryan Olson, CRC Press
2. Introduction to Cyber Security by Jeetendra Pandey 3. Cryptography and Network Security by William Stallings

References:

Cyber Security for Beginners by Heimdal® Security - Proactive Cyber Security Software (heimdalsecurity.com)

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Program Code	Course CYBER SECURITY (P)	Program & Semester III B. Com[CA] V Semester			
Teaching	Hours Allocated:	L	T	P	C
Pre-requisites		0	0	2	1

Assignment 1:

1. What is the command used for finding host/domain name and IP address?
2. What is the command will display the assigned IP address of ETHERNET adapter?
3. What is the command used for checking the network connectivity?
4. What is the command used for finding all the ip addresses of a given domain name?
5. What is the command used for finding connection to and from the host?
6. What is the command used to view user information, user's login name, real name terminal name and write status ?
7. What is the command used for mapping name to IP addresses?
8. What is the command used for connecting to a host on a particular port?
9. What is the command used to make a connection to a remote machine and execute programs as if one were physically present ?
10. What are the text based web browsers available through command line?

Assignment 2:

1. What is the command used for downloading a website for off-line view ?
2. What is the command used for displaying or manipulating the ARP (Address Resolution Protocol) information on a network device or computer. ?
3. What is the command used for checking/starting/stopping networking services, users, messaging, configuration and so on...?
4. What is the command a packet filtering configuration program used for manipulating net filter kernel based firewall?
5. What is the command used for showing network statistics?
6. What is the command used for displaying and manipulating routing table ?
7. What is the command used to monitor access control for supported services ?
8. What is the command used to view network traffic?
9. What is the command used to change your hostname ?
10. What is the command used for an interface IP address ?

Assignment 3:

1. What is the command used for controls access to daemons at the application level, rather than at the IP level?

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2. What is the command used for connecting to a host with encryption?
3. In what is the file, we can find the local look up server used by the browser.
4. Command used to find out the intermediate nodes between the host and the server is.
5. What is the command used to find out the intermediate domain name nodes between the host and the server?
6. Command used to follow all the information a DNS server has about a particular domain
7. The command get documents/files from or send documents to a server
8. How to check if a particular interface is up and running?
9. This command used to list info about machines that respond to SMB name queries (for example windows based machines sharing their hard disks).
10. This command used to look up the contact information from the "who is" databases, the servers are only likely to hold major sites. Note that contact information is likely to be hidden or restricted as it is often abused by crackers and others looking for a way to cause malicious damage to organizations.
11. It allows you to send and receive files between two computers.
12. Another part of the ssh package. This command similar to ftp but uses an encrypted tunnel to connect to an ftp server and is therefore more secure than just plain ftp.
13. Part of the ssh package. Allows you to copy files from one computer to another computer.
14. nfs - nfsfstab format and options
15. where to look to find out the services What is the are available to the system .
16.where to look to find out the list of protocols What is the are available to the system along with their port numbers .
17. To listing the iptables of your linux system.
18. How to know if a service is running or not.
19. How to Enable IP Forwarding in Linux

Assignment 4:
1. Study of Wireshark Manual.

Assignment 5 : Perform the following using Wireshark
1. Identify the first 2 packets (i.e. their packet numbers) containing HTTP GET request.
2. What webpage was visited in the above 2 packets?
3. What version of HTTP was used?
4. What is the destination IP address in the above packets?
5. List the source and destination ports of the packets travelling from the client to this server in the above packets?
6. In the HTTP server's response, look at the information sent about the server. What server software was used?
7. What are the IP addresses of the server?

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Assignment 6: Perform the following using Wireshark.
1. What are the MAC addresses of the client and server?
2. How many WebPages (not websites) have been opened?
3. What is the time difference between first HTTP GET and the first HTTP response (OK)?
4. Count the total number of HTTP GET requests.
5. What is the time difference between the first and last HTTP GET requests? Hint: Follow a similar procedure as mentioned previously.
6. How may packets were exchanged between the server (corresponding to the both IP addresses) and the client? (Note: Their sum must be equal to the total no. of packets)
7. Find the total no. of HTTP requests sent by the host spongebob.wikia.com.

Assignment 7: 1. SQL Injection Implementation and Execution.

Assignment 8:
1. Give a short note on OSSEC?
2. What are the components of OSSEC
3. List the few key features of OSSEC.
4. What are the types of agent in OSSEC?
5. What are the roles of Manager (server) and an Agent in OSSEC?
6. What is Syscheck in OSSEC?
7. What is LIDS and HIDS?

Assignment 9:
1. What is the type of log used by pflogsumm?
2. What is the type of log used by webalizer?
3. What are the different types of logs used by AWStats?
4. Pflogsumm analyzes is a mail/weblog or both?
5. Webalizer analyzes is a mail/weblog or both?
6. Command line option used for increment log analysis, mention domain name and squid log file with webalizer.
7. AWStats tools written in What is the language?

Assignment 10: 1. Steps for setting up Cyber Security in organization.

References for All Assignments:
1. http://www.ossec.net/
2. www.linuxmanpages.com/man1/pflogsumm.1.php
3. www.webalizer.org/
4. http://www.computersecuritystudent.com/SECURITY_TOOLS/DVWA/

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Program Code	Course MOBILE APPLICATON DEVELOPMENT USING ANDROID(T)	Program & Semester III B. Com[CA] V Semester			
Teaching	Hours Allocated:	L	T	P	C
Pre-requisites		3	0	0	3

Course Objectives:

The course aims to help learners to acquire conceptual knowledge of understanding Android SDK .

To help students to gain a basic understanding of Android application development and instill working knowledge of the Android Studio development tool

Course Outcomes:

- The student will be able to:Identify various concepts and features of Android operating system. Configure Android environment and development tools.
- Develop rich user Interfaces by using layouts and controls.
- Use User Interface components for android application development.
- Create Android application using database. Publish Android applications.

Unit 1:

Introduction to Android: - Overview, History, Features of Android, The Android Platform, Understanding the Android Software Stack – Android Application Architecture –The Android Application Life Cycle – The Activity Life Cycle, Creating Android Activity -Views- Layout Android SDK, Android Installation, Building you First Android application, Understanding Anatomy of Android Application, Android Manifest file.

Case Study:

1. Give a brief description of Android Architecture and its parts.
2. List out the challenges we face while using Android?
3. List the new features of Android in the latest version.

Unit 2:

Android Application Design Essentials: Anatomy of an Android applications, Android terminologies, Creating User Interfaces with basic views- Application Context, Activities, Services, Intents, linking activities with Intents, Receiving and Broadcasting Intents, Android Manifest File and its common settings, Using Intent Filter, Permissions.

Case Study:

1. Present an idea that you would like to convert it into an application in the future.

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Unit 3:

Android User Interface Design Essentials: User Interface Screen elements, Designing User Interfaces with Layouts, Drawing and Working with Animation. Layouts, Recycler View, List View, Grid View and Web view.

Input Controls: Buttons, Checkboxes, Radio Buttons, Toggle Buttons, Spinners, Input Events, Menus Toast, Dialogs, Styles and Themes, Creating lists, and Custom lists

Case Study:

1. Present detail report on the features of Check Boxes, Radio Buttons and Toggle Buttons

Unit 4:

Testing Android applications: Publishing Android application, Using Android preferences, Managing Application resources in a hierarchy, working with different types of resources.

Case Study:

1. List out the special features of Android with its counterparts.

Unit 5:

Using Common Android APIs: Internal Storage, External Storage, SQLite Databases, Managing data using Sqlite, Sharing Data between Applications with Content Providers, Using Android Networking APIs, Using Android Web APIs, JSON Parsing, Using Android Telephony APIs, Deploying Android Applications to the World. Google Maps, Using GPS to find the current location, Sensors, and Bluetooth / Wi-Fi Connectivity.

Case Study:

1. List out the points to keep in mind to make you application more attractive.
2. List the controls that make you application attractive.

REFERENCE BOOKS:

1. Reto Meier, “Professional Android 2 Application Development”, Wiley India Pvt Ltd
2. Mark L Murphy, “Beginning Android”, Wiley India Pvt Ltd
3. “Android Application Development All in one for Dummies” by Barry Burd, Edition: I
4. “Android”, Dixit, Prasanna Kumar Vikas Publications, New Delhi 2014, ISBN: 9789325977884
5. Maclean David, Komatineni Satya,Allen Grant , “Pro Android 5”, ApressPublications2015ISBN: 978-1-4302-4680-0
6. ” Android Programming for Beginners” by Hortan, John, Packet Publication, 2015ISBN: 978-1-78588-326-2
7. Lauren Darcey and Shane Conder, “Android Wireless Application Development”,Pearson Education, 2nd ed. (2011)

ONLINE READING / SUPPORTING MATERIAL:

1. http://www.developer.android.com
2. http://developer.android.com/about/versions/index.html
3. http://developer.android.com/training/basics/firstapp/index.html

4. http://docs.oracle.com/javase/tutorial/index.htm (Available in the form of free downloadable eBooks also).
5. http://developer.android.com/guide/components/activities.html
6. http://developer.android.com/guide/components/fundamentals.html
7. http://developer.android.com/guide/components/intents-filters.html.
8. http://developer.android.com/training/multiscreen/screensizes.html Syllabus of BCA (Honours) under CBCS 33 9. http://developer.android.com/guide/topics/ui/controls.html
9. http://developer.android.com/guide/topics/ui/declaring-layout.html
10. http://developer.android.com/training/basics/data-storage/databases.html

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

B.Com. Honours Computer Applications

Program Code	Course MOBILE APPLICATON DEVELOPMENT USING ANDROID(P)	Program & Semester III B. Com [CA] V Semester			
Teaching	Hours Allocated:	L	T	P	C
Pre-requisites		0	0	2	1

LIST OF EXPERIMENTS

Develop a program to implement frame layout, table layout and relative layout.

2. Develop a program to implement Text View and Edit Text.
3. Develop a program to implement Auto Complete Text View.
4. Develop a program to implement Button, Image Button and Toggle Button.
5. Develop a program to implement login window using the above U1 controls.
6. Develop a program to implement Checkbox.
7. Develop a program to implement Radio Button and Radio Group.
8. Develop a program to implement Progress Bar.
9. Develop a program to implement List View, Grid View, Image View and Scroll View.
10. Develop a program to implement Custom Toast Alert.
11. Develop a program to implement Date and Time Picker.
12. Develop a program to create an activity. Develop a program to implement new activity using explicit intent and implicit intent.
13. Develop a program to implement content provider.
14. Develop a program to implement service.
15. Develop a program to implement broadcast receiver.
16. Develop a program to implement sensors.
17. Develop a program to build Camera.
18. Develop a program for providing Bluetooth connectivity.
19. Perform CRUD operations using SQLite.
20. Develop a program for JSON parsing.

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE/APPLICATIONS

Model Question Paper

III BCOM(CA)Honours - V Semester

Paper Title: MOBILE APPLICATION DEVELOPMENT USING ANDROID

Time: 3 hours **Max. Marks: 60 Marks**

SECTION – A

Answer any Five of the following questions. **5 x 4 = 20M**

1. Describe the Android application architecture and the roles of its core components:Activities ,Services,Broadcast Receivers,and Content providers.
2. Illustrate the Android application lifecycle and its various states.
3. Explain the process of creating user interfaces in Android using basic views and layouts, and describe how these contribute to user interaction.
4. Analyze the structure and purpose of the Android Manifest file,detailing common settings and their impact on application behaviour.
5. Define the key components of Android user interface screen elements and explain their roles in application development.
6. Define mobile application testing and discuss its various types, including functional,performance, and usability testing.
7. Examine the user of the Resource Manager in Android studio for managing UI resources and how it facilitates efficient resource handling.
8. Explain the role of SQLite databases in Android applications, including how to create,manage, and interact with the for data persistence.

SECTION – B

Answer any Five of the following questions. **5 x 8 = 40M**

9. Explain Views and Layouts.
10. Define History of Android.
11. Explain Android Terminologies.
12. Write about Creating User Interfaces with Basic views.
13. Define User Interface screen elements.
14. Explain about (List view,Grid view, Web view).
15. What is Functional Testing.
16. Explain Google Maps Integration.

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE/APPLICATIONS

III BCOM(CA)Honours (COMPUTER APPLICATIONS)- V Semester

Paper Title: MOBILE APPLICATION DEVELOPMENT USING ANDROID

BLUE PRINT FOR THE MODEL PAPER

S.NO.	Type of Question	To be given in the Question Paper			To be answered		
		No. of Questions	Marks allotted to each question	Total Marks	No. of Questions	Marks allotted to each question	Total Marks
1	Section – A (Short Questions)	8	4	32	5	4	20
2	Section – B (Essay Questions)	8	8	64	5	8	40
Total Marks				**96**	**Total Marks**		**60**

BLUE PRINT FOR THE QUESTION PAPER SETTING

Chapter Name	Short Questions 4 Marks	Essay Questions 8 Marks	Marks allotted to the Chapter
UNIT - I	2	2	24
UNIT - II	2	2	24
UNIT - III	1	2	20
UNIT - IV	2	1	16
UNIT - V	1	1	12
Total No. of Questions	**8**	**8**	**96**

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

III B.Com. Honours Computer Applications

Program Code	Course **BLOCK CHAIN TECHNOLOGY**	Program & Semester III B. Com [CA] V Semester			
Teaching	Hours Allocated:	**L**	**T**	**P**	**C**
Pre-requisites		**3**	**0**	**0**	**3**

Course Objectives:

- The course aims to help learners to acquire conceptual knowledge of Block Chain Technology.
- To Understand Security systems in Block Chain Technology.
- To acquire knowledge to applications of Block Chain Technology.

Learning Outcomes:

The students will be able:

- Identify various types of Software Architecture and understand types of Cryptography.
- Improve knowledge in understanding underlying technologies in Block Chain Technologies. Understand the storage methods and advantages and have knowledge on the applications of Block Chain

Unit 1:

Layers of a Software System, Integrity, A Payment System, Types of Software Architecture, Purpose of the Blockchain, Peer-to-Peer system: Definition, Architecture, Link between Peer-to-Peer and Blockchain, Integrity Threats in Peer-to-Peer Systems, Four ways of Defining Blockchain, The purpose of the Blockchain, Blockchain Properties

Case Study: Identify Different Crypto Payments and Differentiate Them

Unit 2:

Foundations of Ownership, Security Related concepts in Block chain, Purpose and Properties of a Ledger, Double Spending Problem, Designing and Developing a Software System, Documenting Ownership, Integrity of the Transaction History .

Case Study: Study about Harbor, Ubitquity, Propy that are used in Real Estate

Unit 3:

Hash Function in Block chain, Patterns of Hashing Data, Uses of Hash Values, Cryptography: Activities, Types of Cryptography, Digital Signatures.

Case Study: Differentiate between various Blockchain Techniques used in Medical Field such as Ambrosus, Connecting Care, Farma Trust, MedRec .

Unit 4:

Transforming Book into Blockchain Data structure, Chaining Blocks of Data, Protecting the Data Store, Distributing the Data Store among Peers, Verifying and Adding Transactions

Unit 5:

Choosing a transaction History, Paying for Integrity, Technical Limitations of Blockchain, Conflicting Goals of the Blockchain, Characteristics of the Blockchain, Blockchain Applications, Blockchain Platforms

Case Study: Identify various Blockchain Technologies used in Entertainment

Text Books:

1. Blockchain Basics by: A Non-Technical Introduction in 25 Steps by Daniel Drescher, APress
2. Blockchain: Cybrosys Limited Edition.

Web References:

1. 10 Blockchain Use Cases in Real Practical World | GoLinuxCloud
2. 33 Top Blockchain Applications to Know for 2023 | Built In
3. 15+ Practical Blockchain Use Cases in 2022 - 101 Blockchains
4. 30+ Real Examples Of Blockchain Technology In Practice (forbes.com)

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

II B.Com. Honours Computer Applications

Program Code	Course BLOCK CHAIN TECHNOLOGY	Program & Semester III B. Com [CA]- V Semester			
Teaching	Hours Allocated:	L	T	P	C
Pre-requisites		0	0	2	1

List of Experiments:

1. Creating and Building Up Crypto Token
2. Ethereum Smart Contract
3. Creating and Building Up Bitcoin Wallet
4. Introduction to Hyperledger
5. Creating a Business Network using Hyperledger
6. Creating a Business Network using Hyperledger- II
7. Building and Deploying multichain private Blockchain

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

III B.Com. Honours Computer Applications - V Semester

Model Question Paper

Paper Title: BLOCK CHAIN TECHNOLOGY

Time: 3 hours **Max. Marks: 60 Marks**

SECTION – A

Answer any Five of the following questions. **5 x 4 = 20 M**

1.
2.
3.
4.
5.
6.
7.
8.

SECTION – B

Answer any Five of the following questions. **5 x 8 = 40 M**

9.
10.
11.
12.
13..
14.
15.
16.

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

III B.Com. Honours Computer Applications - V Semester

Paper Title: BLOCK CHAIN TECHNOLOGY

BLUE PRINT FOR THE MODEL PAPER

S.NO.	Type of Question	To be given in the Question Paper			To be answered		
		No. of Questions	Marks allotted to each question	Total Marks	No. of Questions	Marks allotted to each question	Total Marks
1	Section – A (Short Questions)	8	4	32	5	4	20
2	Section – B (Essay Questions)	8	8	64	5	8	40
Total Marks				**96**	**Total Marks**		**60**

BLUE PRINT FOR THE QUESTION PAPER SETTING

Chapter Name	Short Questions 4 Marks	Essay Questions 8 Marks	Marks allotted to the Chapter
UNIT - I	2	2	24
UNIT - II	2	2	24
UNIT - III	2	1	16
UNIT - IV	1	2	20
UNIT - V	1	1	12
Total No. of Questions	**8**	**8**	**96**

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

III B.Com. Honours Computer Applications

Program Code	Web Programming	Program & Semester III B. Com [CA]- V Semester			
Teaching	Hours Allocated:	L	T	P	C
Pre-requisites		3	0	0	3

Course Objectives:

1. Learn the basics of creating a website.
2. Understand HTML5 coding conventions
3. Understand the philosophy of how HTML and CSS should fit together
4. Learn how JavaScript came to be.

Course Outcomes: Upon Completion of the course, the students will be able to

1. Understand the Web Design Process.
2. Apply the HTML tags, elements and attributes
3. Apply different types of HTML elements
4. Use of organizational elements, tables and images
5. Use of audio, video files
6. Apply JavaScript concepts

Unit-I:

Introduction to Web Programming: Introduction, creating a website, HTML tags, HTML Elements, HTML attributes, CSS Preview, History of HTML, Differences between old HTML and HTML5, how to check your HTML code

Case Study: Create a web page of your department using standard HTML tags, HTML elements and HTML attributes

Unit-II:

Coding Standards, Block Elements:

HTML coding conventions, Comments, HTML Elements, Should Describe Web Page Content Accurately, Content Model Categories, Block Elements, blockquote Element, Whitespace Collapsing, pre Element, Phrasing Elements, Editing Elements, q and cite Elements, dfn, abbr, and time Elements, Code-Related Elements, br and wbr Elements.

Text Elements, and Character References:

sup, sub, s, mark, and small Elements, strong, em, b, u, and i Elements, span Element, Character References, Web Page with Character References, and Phrasing Elements.

Case Study: Create a web page related to famous water reservoir/ famous tourist spots near by your location using block elements, text elements and character references

Unit-III:

Cascading Style Sheet(CSS) :

CSS Overview, CSS Rules, Example with Type Selectors and the Universal Selector, CSS Syntax and Style, Class Selectors, ID Selectors, span and div Elements, Cascading, style Attribute, style Container, External CSS Files, CSS Properties, Color Properties, RGB Values for Color, Opacity Values for Color, HSL and HSLA Values for Color, Font Properties, line-height Property, Text Properties, Border Properties, Element Box, padding Property, margin Property.

Case Study: Description of your City or place with the use of CSS and compare it with previous two case studies

Unit-IV:

Organizing a Page's, Content with Lists, Figures, and Various, Organizational Elements:

List, Descendant selector, Figure with picture and caption, Organizational elements, Navigation bar, Header and Footer, User agent stylesheet, Child selector, CSS inheritance

Tables and CSS Layout: Data tables vs Layout tables, Table elements, Format table

Links and Images: Implement a link with the a element, different types of href attribute Values, relative URLs, Implement a link that jumps to a particular location within a web page, element's target attribute, Understand the concepts behind GIF, JPEG, and PNG bitmap image formats, implement bitmap image elements within a web page, implement SVG image elements within a web page

Case Study: Create a web page related to your department time table and images of any activity

Unit-V:

Image Manipulations, Audio and Video:

Position an image, how to display a shortcut icon in a browser's tab area, iframe, Create an image sprite file, Implement an audio player using the audio element, Handle different audio file formats, Cover a web page's background with an image, web fonts, Implement a video player using the video element, Center a web page's content, Cover a web page's background with a color gradient

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DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

III B.Com. Honours Computer Applications

Introduction to JavaScript:

Button control with an event Handler, Syntax rules for functions, variables, identifiers, and assignments, Document Object Model(DOM), form with a text control and a button, event-handler attributes, rollover using mouse events

Case Study: Create a webpage involving audio and video of your college day activities

Prescribed Text Books:

1. Web Programming with HTML5,CSS and JavaScript, John Dean, Jones & Bartlett Learning

Reference Text Books:

2. HTML & CSS: The Complete Reference, 5th Edition, Thomas. A. Powell

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

III B.Com. Honours Computer Applications

Program Code	Web Programming LAB	Program & Semester III B. Com [CA]- V Semester			
Teaching	Hours Allocated:	L	T	P	C
Pre-requisites		0	0	2	1

List of Experiments:

Course Outcomes: On successful completion of this practical course, student shall be able to:

1. Create web pages using HTML.
2. Apply different styles to HTML page.
3. Work with different scripting elements.

WEEK-1

1. Write an HTML code to display your education details in a tabular format.
2. Write an HTML code to display your CV on a web page.

WEEK-2

1. Create a webpage with HTML describing your department. Use paragraph and list tags.
2. Apply various colors to suitably distinguish key words. Also apply font styling like italics, underline and two other fonts to words you find appropriate. Also use header tags.
3. Create links on the words e.g. “Wi-Fi” and “LAN” to link them to Wikipedia pages.
4. Insert an image and create a link such that clicking on image takes user to other page.
5. Change the background color of the page. At the bottom create a link to take user to the top of the page.

WEEK-3

1. Create a table to show your class time-table.
2. Use tables to provide layout to your HTML page describing your university infrastructure.
3. Use and tags to provide a layout to the above page instead of a table layout.
4. Use frames such that page is divided into 3 frames 20% on left to show contents of pages, 60% in center to show body of page, remaining on right to show remarks.
5. Embed Audio and Video into your HTML web page.

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III B.Com. Honours Computer Applications

WEEK-4

1. Write an HTML code to illustrate the usage of the following:

- Ordered List
- Unordered List
- Definition List

WEEK-5

1. Write an HTML code to create a frameset having header, footer, navigation and content sections. **WEEK-6**

1. Write an HTML code to demonstrate the usage of inline CSS.
2. Write an HTML code to demonstrate the usage of internal CSS.
3. Write an HTML code to demonstrate the usage of external CSS.

WEEK-7

1. Create a form similar to the one in previous experiment. Put validation checks on values entered by the user using JavaScript (such as age should be a value between 1 and 150).
2. Write a JavaScript program to display information box as soon as page loads.
3. Write a JavaScript program to change background color after 5 seconds of page load.
4. Write a JavaScript program to dynamically bold, italic and underline words and phrases based on user actions.
5. Write a JavaScript program to display a hidden div (e.g. showing stats of a player when user clicks on his name
6. Write a Java script to prompt for users name and display it on the screen.
7. Design HTML form for keeping student record and validate it using Java script.
8. Write programs using Java script for Web Page to display browsers information.

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

III B.Com. Honours Computer Applications - V Semester

Model Question Paper

Paper Title: Web programming

Time: 3 hours **Max. Marks: 60 Marks**

SECTION – A

Answer any Five of the following questions. **5 x 4 = 20 M**

1.
2.
3.
4.
5.
6.
7..
8.

SECTION – B

Answer any Five of the following questions. **5 x 8 = 40 M**

9.
10.
11.
12.
13.
14.
15.
16.

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

II B.Sc. /B. Com/ B.A/ B.B.A - (IV Semester)

Paper Title: Web programming

BLUE PRINT FOR THE MODEL PAPER

S.NO.	Type of Question	To be given in the Question Paper			To be answered		
		No. of Questions	Marks allotted to each question	Total Marks	No. of Questions	Marks allotted to each question	Total Marks
1	Section – A (Short Questions)	8	4	32	5	4	20
2	Section – B (Essay Questions)	8	8	64	5	8	40
Total Marks				96	**Total Marks**		**60**

BLUE PRINT FOR THE QUESTION PAPER SETTING

Chapter Name	Short Questions 4 Marks	Essay Questions 8 Marks	Marks allotted to the Chapter
UNIT - I	2	2	24
UNIT - II	2	2	24
UNIT - III	2	1	16
UNIT - IV	1	2	20
UNIT - V	1	1	12
Total No. of Questions	**8**	**8**	**96**

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

III B.Com. Honours Computer Applications

Program Code	WEB DEVELOPMENT USING PHP & MYSQL	Program & Semester: III B. Com [CA]- V Semester			
Teaching	Hours Allocated:	L	T	P	C
Pre-requisites		3	0	0	3

Course Outcomes: Upon Completion of the course, the students will be able to

1. Write simple programs in PHP.
2. Understand how to use regular expressions, handle exceptions, and validate data.
3. Apply In-Built functions and Create User defined functions in PHP programming.
4. Write PHP scripts to handle HTML forms.
5. Write programs to create dynamic and interactive web-based applications using PHP and MYSQL.
6. Know how to use PHP with MySQL DB and can write database driven web pages.

Unit-I:

Using PHP: PHP Basics: Accessing PHP, Creating Sample Application, Embedding PHP in HTML, Adding Dynamic Content, Identifiers, Variables, Constants, Operators, Data types, Accessing Form Variables, Variable handling Functions, Making Decisions with Conditions, Repeating actions through Iterations, Breaking Out of a Control Structure

Storing and Retrieving Data: Processing Files, opening a File, writing to a File, closing a File, Reading from a File, Other File Functions, Locking Files.

CASE STUDY: Web Based Social Network Application Development

Unit-II:

Arrays: Arrays basics, Types, Operators, Array Manipulations.

String Manipulation and Regular Expressions: Strings Basics, Formatting Strings, Joining and Splitting Strings with String Functions, Comparing Strings, Matching and Replacing Substrings with String Function, Introducing Regular Expressions, Find, Replace, Splitting in regular Expressions

CASE STUDY: Retail E-commerce Application Development for Apparels & Garments

Unit-III:

Reusing Code and Writing Functions: The Advantages of Reusing, Using require () and include (), Using Functions in PHP, Scope, Passing by Reference Versus Passing by Value, keyword, Recursion.

Object-Oriented PHP: OOP Concepts, Creating Classes, Attributes, and Operations in PHP, Implementing Inheritance in PHP, Understanding Advanced Object-Oriented Functionality in PHP.

Error and Exception Handling: Error and Exception Handling, Exception Handling Concepts.

CASE STUDY: e-Commerce Application for Manufacturing Industry

Unit-IV:

Using MySQL: Relational Database Concepts, Web Database Architecture, Introducing MySQL's Privilege System, Creating Database Tables, Understanding MySQL, Identifiers, Database Operations, querying a Database, Understanding the Privilege System, Making Your MySQL Database Secure, Optimization, Backup, Restore.

CASE STUDY: Custom CMS Website Development

Unit-V:

Introduction of Laravel PHP Framework: Why Lavarel, setting up Lavarel Development Environment, Routing and Controllers: introduction to MVC, the HTTP verbs, and REST, Route Definitions, Route Groups, Signed Routes, Views, Controllers, Route Model Binding, Redirects, Custom Responses

Case Study: E-commerce Business Solution delivered for Groceries Vendor

Prescribed Text Books:

1. Luke Welling, Laura Thomson, "PHP and MySQL Web Development", 5th Edition
2. Matt Stauffer, "Lavarel: Up & Running", 2nd Edition
3. Julie C. Meloni, SAMS Teach yourself PHP MySQL and Apache, Pearson Education (2007).
4. Steven Holzner , PHP: The Complete Reference, McGraw-Hill
5. Robin Nixon, Learning PHP, MySQL, JavaScript, CSS & HTML5, Third Edition O'reilly, 2014
6. Xue Bai Michael Ekedahl, The web warrior guide to Web Programming, Thomson (2006).
7. Web resources:

http://www.codecademy.com/tracks/ph

http://www.w3schools.com/PHP

http://www.tutorialpoint.com

8. Other web sources suggested by the teacher concerned and the college librarian including reading material.

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

III B.Com. Honours Computer Applications

Program Code	WEB DEVELOPMENT USING PHP & MYSQL	Program & Semester III B. Com [CA]- V Semester			
Teaching	Hours Allocated:	L	T	P	C
Pre-requisites		3	0	0	3

Course Outcomes: On successful completion of this practical course, student shall be able to:

- Write, debug, and implement the Programs by applying concepts and error handling techniques of PHP.
- Create an interactive and dynamic website.
- Create a website with reports generated from a database.
- Create an interactive website for e-commerce sites like online shopping, etc.

Practical (Laboratory) Syllabus: (30 hrs.)

1. Write a PHP program to Display "Hello", and today's date.
2. Write a PHP program to display Fibonacci series.
3. Write a PHP Program to read the employee details.
4. Write a PHP program to prepare the student marks list.
5. Write a PHP program to generate the multiplication of two matrices.
6. Create student registration form using text box, check box, radio button, select, submit button. And display user inserted value in new PHP page.
7. Create Website Registration Form using text box, check box, radio button, select, submit button. And display user inserted value in new PHP page.
8. Write PHP script to demonstrate passing variables with cookies.
9. Write a program to keep track of how many times a visitor has loaded the page.
10. Write a PHP application to add new Rows in a Table.
11. Write a PHP application to modify the Rows in a Table.
12. Write a PHP application to delete the Rows from a Table
13. Write a PHP application to fetch the Rows in a Table.
14. Develop an PHP application to implement the following Operations. Registration of Users. Insert the details of the Users. Modify the Details. Transaction Maintenance. No of times Logged in Time Spent on each login. Restrict the user for three trials only. Delete the user if he spent more than 100 Hrs of transaction.
15. Write a PHP script to connect MySQL server from your website.

16. Write a program to read customer information like cust-no, cust-name, itempurchased, and mob no, from customer table and display all these information in table format on output screen.
17. Write a program to edit name of customer to “Kiran” with cust-no =1, and to delete record with cust-no=3.
18. Write a program to read employee information like emp-no, emp-name, designation and salary from EMP table and display all this information using table format.
19. Create a dynamic web site using PHP and MySQL.

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE/APPLICATIONS

Model Question Paper

III BCOM(G)/BBA/BA Honours - V Semester

Paper Title: Web Application Development using PHP & MYSQL

Time: 3 hours **Max. Marks: 60 Marks**

SECTION – A

Answer any Five of the following questions. **5 x 4 =20M**

1. Explain PHP Data types.
2. Explain PHP functions.
3. Explain objects in PHP.
4. Explain data and time functions in PHP.
5. Explain Query strings in PHP.
6. Explain about cookies in PHP.
7. How to connect MySQL with PHP.
8. What is the importance of Lavarel in PHP framework?

SECTION – B

Answer any Five of the following questions. **5 x 8 = 40M**

9. Explain operators in PHP with examples.
10. Explain arrays in PHP.
11. Explain strings in PHP.
12. Explain forms in PHP.
13. Explain files in PHP.
14. How to plan and create database tables?
15. Explain the procedure to setup Lavarel Development Environment.
16. Explain the importance of MVC in Lavarel with nice example.

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GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE/APPLICATIONS
III BCOM(G)/BBA/BA Honours COMPUTER APPLICATIONS
V Semester
Paper Title: Web Application Development using PHP & MYSQL

BLUE PRINT FOR THE MODEL PAPER

S.NO.	Type of Question	To be given in the Question Paper			To be answered		
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BLUE PRINT FOR THE QUESTION PAPER SETTING

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Total No. of Questions	**8**	**8**	**96**

with effect from 2025–26 academic year

GOVERNMENT COLLEGE FOR MEN (A), KADAPA

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

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