GANPAT UNIVERSITY

GANPAT VIDYANAGAR CAMPUS

KHERVA

FACULTY OF COMPUTER APPLICATIONS

DEGREE OF BACHELOR OF COMPUTER APPLICATIONS
B. C. A.
(Three-year Graduate Degree Programme)

Regulation

For

Award of B.C.A.

CBCS SYSTEM

GANPAT UNIVERSITY

FACULTY OF COMPUTER APPLICATION

TEACHING AND EXAMINATION SCHEME

Programme	BCA		Branch/Spec.	Computer Application		
Semester	VI					

Effective from Academic Year		2016-17	Effective for the batch Admitted in		June 2014

Subject Code	Subject Name	Teaching scheme													Examination scheme (Marks)					
		Credit						Hours (per week)							Theory			Practical		
		Lecture(DT)			Practical(Lab.)			Lecture(DT)			Practical(Lab.)				CE	SEE	Total	CE	SEE	Total
		L	TU	Total	P	TW	Total	L	TU	Total	P	TW	Total							
U36A1OST	OPEN SOURCE TECHNOLOGY	3	-	3	2	-	2	3	-	3	4		4		40	60	100	20	30	50
U36A2SDPII	SYSTEM DEVELOPMENT PROJECT-II	-	-	-	18	-	18	-	-	-	-		-					200	300	500
Total		3	-	3	20	-	20	3		3	4	-	4							

GANPAT UNIVERSITY
FACULTY OF COMPUTER APPLICATIONS

Programme	Bachelor of Computer Application		Branch/Spec.	Computer Application	
Semester	VI		Version	1.0.0.0	
Effective from Academic Year		2016-17	Effective for the batch Admitted in		June 2014
Subject code	U36A1OST	Subject Name	OPEN SOURCE TECHNOLOGY		

Teaching scheme					Examination scheme (Marks)			
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW				
Credit	3		2		5	Theory	40	60	100
Hours	3		4		7	Practical	20	30	50

Pre-requisites:
Students should have knowledge regarding Basic HTML, Basic concept of any computer language and fundamental of SQL.

Learning Outcome:
By the completion of this course, students will be able to know about Open Source technology and PHP. Be able to implement small websites.

Theory syllabus

Unit	Content	Hrs
1	**Introduction of Open source & Php** • What is Open Source • Pros and Cons of open source. • How open source works. • Features of Open Source • Introduction to different open source software (Linux, ERP, CMS) • Introduction of web server, Domain Name Registration, Web Space, web hosting • Introduction to Open Source Technologies, Introduction to PHP, Advantages and disadvantages of PHP, Client-side scripting, Server-side scripting	(7)
2	**Introduction, Basic Programming constructs, Adding PHP to HTML, Strings & Numbers** • Introduction to Open Source Technologies, Introduction to PHP, Advantages and disadvantages of PHP, Client-side scripting, Server-side scripting • Syntax of PHP, Comments, Variables, Data types in PHP, Output data to the browser, Boolean Expressions, Branching Statements, Looping, Using Functions • Canonical PHP tags, Short-open (SGML-style) tags, jumping in and out of PHP mode, including files • Strings in PHP, String functions, Mathematical operators, Mathematical functions	(9)
3	**Arrays and Array functions, Exceptions and Error handling** • Creating and using Arrays, Multidimensional Arrays, using iteration functions, using for each • Error handling in PHP, Errors and exceptions, Exception class, try/catch block, throwing an exception, defining your own Exception subclasses	(10)

4	**File system and System Functions, Passing information between pages**	(9)
	• Understanding PHP file permissions, File reading and writing functions, File system and Directory functions, File Upload)	
	• HTTP, GET arguments, POST arguments, formatting Form variables, using Sessions in PHP, Session functions, Cookies, The setcookie() function, Deleting cookies, Reading cookies	
5	**Displaying queries in tables, MySQLwith PDO**	(10)
	• HTML tables and database tables, Database manipulation (Select, Insert, Update, Delete), Validating user input using JavaScript	
	• PHP/MYSQL Connection and function, MySQL functions, MySQLi functions,Introduction to PDO, Driver installation for PDO, Database manipulation using PDO, Database-Manipulation (CREATE, INSERT, UPDATE, DELETE) Operation.	

Practical content
NIL

Text Books	
1	PHP 5 and MySQL Bible publication

Reference Books	
1	The Complete Reference PHP, by Steven Holzner, TATA McGraw-Hill Publication
2	1. Beginning PHP and MySQL, by W. Jason Gilmore, ApressPublication

Examination Scheme :

Note for Examiners:

Q-1 Must be common from any topics from syllabus.

Q-2 And onwards must be from specific topics and internal choice or option can be given.

Paper Structure:

Q-1 Attempt any Six Out of nine: each question must be 5 marks: (30 Marks)

    Questions must be covered all possible section.

Q-2 Must from topics: Open source & introduction To Php: (06 marks)

Q-3 Must from topics: Basic Programming constructs, PHP to HTML, Strings & Numbers (06 marks)

Q-4 Must from topics: Arrays and Functions, Exceptions and Error handling (06 marks)

Q-5 Must from topics: File system and functions, Passing information between pages (06 marks)

Q-6 Must from topics: Displaying queries in tables, MySQLwith PDO (06 marks)

GANPAT UNIVERSITY
FACULTY OF COMPUTER APPLICATIONS

Programme	Bachelor of Computer Application		Branch/Spec.	Computer Application	
Semester	VI		Version	1.0.0.0	
Effective from Academic Year		2016-17	Effective for the batch Admitted in		June 2014
Subject code	U36A2SDPII	Subject Name	SYSTEM DEVELOPMENT PROJECT-II		

Teaching scheme					Examination scheme (Marks)			
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW				
Credit			18		18	Theory			
Hours						Practical	200	300	500

Pre-requisites:

System Development Life Cycle (SDLC), Concepts of OOP, Concepts of DBMS, Design technique like System Flow Chart (SFC) , Data Flow Diagram(DFD) and E-R Diagram, Basic information about business processes as per project definition.

Learning Outcome:

By the completion of this course, students will be able to develop actual system development software.

Theory syllabus

Unit	Content	Hrs
	(1) The duration of the project will be full semester term. The students can develop their project individually or in a group of not more than 2 students. (2) The passing standard is 40% in internal and external Examination jointly. (3) The project can be developed in any language or platform but it is required to get it approved by the head of the institution. For the purpose of approval, they have to submit their project titles and proposals with the name of internal and external guides to the Head/Project Coordinator of Institution within specified time period of the commencement of the sixth semester. In case, if the student proposal is rejected, the revised proposal in the same or other area, is required to submit and get it sanctioned within deadline given by Head/Project coordinator. Failing to do this, His/her term will not be granted. (4) Once the project proposal is approved, it should not be allow changing without	

	prior permission of Head/Project coordinator.	
	(5) The students have to report to the internal guide regularly during the project life span with the progress report duly signed by external guide. Moreover they have to bring these reports with the final report at the time of external examination. Students are required to submit their presentation in one softcopy and two hard copy as per format given by Head/Project coordinator before external examination.	
	(6) The external examiners appointed by the University will give the external marks on the basis of the heads like Presentation, Demonstration, Viva Voice, Documentation etc. The distribution of the marks to different heads may be decided at the time of evaluation of the project but it is expected to have the same distribution.	
	(7) The Internal Guide/Project Coordinator of Institution will give the internal marks. These marks may be given on the bases of regular reporting of the student to the internal guide, internal examination and a report obtained from the external guide.	

Practical content
System development project

Text Books	
1	

Reference Books

Examination Scheme :

Note for Examiners:
Exam Marks must be putted out of 300 by observing overall work of student in the project.