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DEEN DAYAL UPADHYAY KAUSHAL KENDRA
BACHELOR OF VOCATION (SOFTWARE DEVELOPMENT)
SEMESTER – VI

Subject		Course No.	Subject Title	T/P	Credit	WCH	Exam Duration	Marking Scheme		
								Internal	External	Total
Discipline Specific Course Core (Major)	Core Course-1	BVS06MAC01	Python Programming	T	4	4	2	50/18	50/18	100/36
	Core Course-2	BVS06MAC02	Server Side Programming	T	4	4	2	50/18	50/18	100/36
	Practical of Core Course	BVS06MAC03	Practical Lab of Python Programming and Server Side Programming	P	4	8	2	50/18	50/18	100/36
Minor	Minor Course-1	BVS06MIC04	Android Mobile Application	T	4	4	2	50/18	50/18	100/36
Ability Enhancement Course		BVS06AEC05	Internet of Things	T	2	2	1	25/09	25/09	50/18
Skill Enhancement Course/Internship/ Dissertation		BVS06SEC06	Internship	P	4	4	2	50/18	50/18	100/36
Minimum Quantifying Credits					**22**					

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BACHELOR OF VOCATION (SOFTWARE DEVELOPMENT)
SEMESTER – VI

Course Code	BVS06MAC01	Title of the Course	Python Programming
Total Credits of the Course	04	Hours per Week	04

Course Objectives:	1. To learn the fundamentals of the Python programming language. 2. To study the concepts of object-oriented programming in Python. 3. To learn exception handling and file handling in Python. 4. To understand how to access files and databases from Python

Course Content		
Unit	**Description**	**Weightage *(%)**
1.	**Python Basics – I** – Python Overview and History, Features of Python, Difference Between C, JAVA & Python, – Applications of Python, Programming Structure of Python, – Introduction to Python Libraries (NumPy, Pandas, Matplotlib, etc.) – Python Environment Setup, Basic Syntax of Python, Python Data types, Python variables, Casting, Operators, Comments – User Input, Decision making and Branching	25%
2.	**Python Basics – II** – Looping, Range – List and Tuple – Set and Dictionary – Strings and basic operations – RegEx Module (Regular Expressions), Python JSON	25%

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3.	**Object Orientated Concepts and Exception Handling** – Concept of Class, Object and Instances, Constructor, class attributes and destructors, Functions, Scope, Iterators – Inheritance, method overloading and overriding in python, Modules, Lamda function. – Debugging, Python Error with its Types, Exception handling in Python, Try-finally, raising exceptions, user-defined exceptions.	25%
4.	**File IO Management and Databases** – File Handling (Introduction, Create, Read, Write and Delete File) Database connection using MYSQL, Creating, Searching and Drop Tables, Record Manipulation (Select, Insert, Update, Delete, Searching, Sorting, Join)	25%

Teaching-Learning Methodology	Blended learning approach incorporating traditional classroom teaching and online /ICT-based teaching practices

Evaluation Pattern		
Sr. No.	**Details of the Evaluation**	**Weightage *(%)**
1.	Internal Written / Practical Examination.	50%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance.	
3.	External Examination.	50%

Course Outcomes: Having completed this course, the learner will be able to develop	
1.	Ability to develop computer programs using the Python programming language.
2.	Knowledge of manipulating different Python data types.
3.	Ability to develop object-oriented programs using Python.
4.	Basic knowledge of exception handling, file handling and database access in Python.

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Suggested References:	
Sr. No.	References
1.	John V Guttag. "Introduction to Computation and Programming Using Python", Prentice Hall of India in 2016.
2.	Wesley J. Chun. "Core Python Programming -Second Edition", Prentice Hall September 18, 2006.
3.	Learning Python: By Mark Lutz, David Ascher published in April 1999.
4.	Exploring Python Book by Timothy Budd published in February 2009.
5.	Head First Python: A Brain-Friendly Guide by Aaul Barry published in 2023.
6.	Introducing Python-Modern Computing in Simple Packages –Bill Lubanovic, O'Reilly Publication released in December 2019.
7.	Beginning Programming with Python for DummiesPaperback–2015 byJohn Paul Mueller published in February 2018 by Wiley.

On-line resources to be used if available as reference material	
1.	https://www.w3schools.com/python
2.	https://www.tutorialspoint.com/python

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DEEN DAYAL UPADHYAY KAUSHAL KENDRA
BACHELOR OF VOCATION (SOFTWARE DEVELOPMENT)
SEMESTER – VI

Course Code	BVS06MAC02	Title of the Course	Server Side Programming
Total Credits of the Course	04	Hours per Week	04

Course Objectives:	To learn the basics of 1. The ASP.NET web application execution model. 2. Development of Web Applications using ASP .NET. 3. Session management and validation controls in ASP .NET. 4. ADO .NET architecture. 5. Development of database applications using ADO .NET

Course Content		
Unit	**Description**	**Weightage *(%)**
1.	**Introduction** – ASP.NET – Introduction, overview of ASP.NET framework – Understanding ASP.NET controls – Understanding ASP.NET pages – Advantages of ASP.NET – Introduction to Web.Config – Internet Information Server (IIS) – Using Visual C# in ASP. NET: Introduction, Variables, Data Types, Scope of Variables, Operators	25%
2.	**ASP.NET Standard Controls and Validation Controls** – Using standard controls : [Control Properties] Label, TextBox, Button, CheckBox, CheckBoxList, RadioButton,RadioButtonList, Linkbutton, ImageButton, Hyperlink, DropDownList, ListBox – Overview of the validation controls : RequiredFieldValidator, RangeValidator, CompareValidator,RegularExpressionValidator, CustomValidator, ValidationSummary – Grouping Controls : Panel, PlaceHolder	25%

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	– Master Page and Themes	
3.	**State Management and Advanced Concepts** – View State : example, making view state secure, retaining member variables, storing custom objects – Transferring information, custom cookies, session state, session state configuration, application state – The Global.asax Application file – Login Controls – Site Navigation and Site Maps	25%
4.	**Accessing Data in ASP.NET** – ADO.NET Architecture - Connected – ADO.NET basics: DataProvider, Connection, Command, DataReader, Dataset, DataAdapter – ADO.NET Basic Control : GridView, DataList, DetailsView, FormView, ListView, Repeater	25%

Teaching-Learning Methodology	Blended learning approach incorporating both traditional classroom teaching as well as usage of ICT tools.

Evaluation Pattern		
Sr. No.	**Details of the Evaluation**	**Weightage *(%)**
1.	Internal Written / Practical Examination.	50%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance.	
3.	External Examination.	50%

Course Outcomes: Having completed this course, the learner will be able to develop	
1.	Describe the ASP.NET web application execution model.
2.	Develop ASP .NET Web Forms applications.
3.	Use session management and validation controls in ASP .NET.
4.	Understand ADO .NET architecture.

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5.	Develop database applications using ADO .NET.

Suggested References:	
Sr. No.	References
1.	ASP.NET 4.0 Covers C# 2010 & VB 2010 codes BLACK BOOK, Dreamtech Press 2010.
2.	Programming in C#, E Balagurusamy, Tata McGraw-Hill released in 2015.
3.	The Complete Reference C# 4.0, Herbert Schildt, Tata McGraw Hill, Edition 2010 (Third Reprint 2011)

On-line resources to be used if available as reference material	
1.	https://www.w3schools.com/asp
2.	https://www.tutorialspoint.com/asp

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DEEN DAYAL UPADHYAY KAUSHAL KENDRA
BACHELOR OF VOCATION (SOFTWARE DEVELOPMENT)
SEMESTER – VI

Course Code	**BVS06MAC03**	Title of the Course	**Practical Lab of Python Programming and Server Side Programming**
Total Credits of the Course	**04**	Hours per Week	**04**

Course Objectives:	1. To learn the Python Programming concepts. 2. To study the concepts of web programming using ASP.NET.

Course Content		
Sr. No.	Description	Weightage *(%)
1.	Practical Based on **Python Programming**	50%
2.	Practical Based on **Server Side Programming**	50%

Teaching – Learning Methodology	Project work in small groups, Hands on Training ICT tools.

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage *(%)
1.	Internal Written/Practical Examination.	50%
2.	Internal Continuo us Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance.	
3.	External Examination.	50%

Course Outcomes : Having completed this course, the learner will be able to	
1.	Gain the knowledge of Python Programming.
2.	Gain the knowledge of ASP.NET Programming.

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DEEN DAYAL UPADHYAY KAUSHAL KENDRA
BACHELOR OF VOCATION (SOFTWARE DEVELOPMENT)
SEMESTER – VI

Course Code	BVS06MIC04	Title of the Course	Android Mobile Application
Total Credits of the Course	04	Hours per Week	04

Course Objectives:	1. To learn fundamentals of the Android Technology and its applications. 2. To understand how to work with activities, fragments and intents. 3. To acquire basic knowledge about Android mobile application control, displaying pictures and Menus.

Course Content		
Unit	**Description**	**Weightage *(%)**
1.	**Introduction to Mobile Apps and Android** – Why we Need Mobile Apps – Different Kinds of Mobile Apps – Briefly about Android – History Behind Android Development – What is Android?, Pre-requisites to learn Android – Brief Discussion on Java Programming	25%
2.	**Android Architecture and Deep Overview in Android Stack** – Overview of Android Stack – Android Features – Introduction to OS layers – Linux Kernel – Libraries – Android Runtime – Application Framework – Dalvik VM	25%

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3.	**Installing Android Machine and creating first Android Application**
	     − Configuring Android Stack
	     − Creating Eclipse Environment
	     − Integrating Android with Eclipse IDE
	     − Exploring Eclipse IDE
	     − Creating Android Project
	     − Debugging Application through DDMS
	     − Setting up environment, AVD Creation
	     − Executing Project on Android Screen
		25%

4.	**Android Components and Hello World App**
	     − Android Components : Activities, Services, Broadcast Receivers, Content Providers
	     − Creating your first project
	     − The manifest file
	     − Layout resource
	     − Running your app on Emulator
		25%

Teaching-Learning Methodology	Blended learning approach incorporating both traditional classroom teaching as well as usage of ICT tools.

Evaluation Pattern		
Sr. No.	**Details of the Evaluation**	**Weightage *(%)**
1.	Internal Written / Practical Examination.	50%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance.	
3.	External Examination.	50%

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Course Outcomes: Having completed this course, the learner will be able to develop	
1.	Understanding of the fundamentals of Android Technology and its applications.
2.	Ability to understand how to work with activities, fragments and intents.
3.	Basic knowledge of Android mobile application control, displaying pictures and Menus.
4.	Ability to develop applications using Android Technology.

Suggested References:	
Sr. No.	References
1.	"Hello, Android Introducing Google's Mobile Development Platform" by Ed Burnette Released on 2015.
2.	Meier Reto : Professional Android 2 Application Development, Wiley Publishing, Inc., 2010
3.	Conder Shane, Darcey Lauren : Android Wireless Application Development, 2nd Edition, Addition Wesley, 2011

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DEEN DAYAL UPADHYAY KAUSHAL KENDRA
BACHELOR OF VOCATION (SOFTWARE DEVELOPMENT)
SEMESTER – VI

Course Code	**BVS06AEC05**	Title of the Course	**Internet of Things**
Total Credits of the Course	**02**	Hours per Week	**02**

Course Objectives:	1. To understand the concepts, techniques, characteristics and applications of Internet of Things. 2. To study the basic concepts related to search engine optimization, Internet of Things (IoT).

Course Content		
Unit	**Description**	**Weightage *(%)**
1.	**Introduction to Internet of Things** − Introduction of IoT − Characteristics of IoT − Advantages and Disadvantages of IoT − IoT Architecture − Applications of IoT − Hardware elements of IoT and their characteristics − Communication protocols commonly used with IoT	50%
2.	**Introduction to IoT Device Control and Communication** − Introduction to using Arduino and Raspberry Pi − Different types of sensors used in IoT. − Controlling other devices. − Communication using different protocols. − Security issues in IoT.	50%

Teaching-Learning Methodology	Blended learning approach incorporating both traditional classroom teaching as well as usage of ICT tools.

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Evaluation Pattern		
Sr. No.	**Details of the Evaluation**	**Weightage *(%)**
1.	Internal Written / Practical Examination.	50%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance.	
3.	External Examination.	50%

Course Outcomes: Having completed this course, the learner will be able to develop	
1.	Have knowledge of the definition, characteristics and applications of Internet of Things.
2.	Understand the basic concepts related to, search engine optimization, Internet of Things (IoT) and cloud computing.

Suggested References:	
Sr. No.	References
1.	Bahga, A., Madisetti, V.: Internet of Things – A Hands-on Approach, Universities Press, 2014.
2.	Hoile C., et al.: Make – Raspberry Pi and AVR Projects, MakerMedia, 2014. Margolis, M.: Arduino Cookbook, O'Reilly, 2nd Edition, 2011.
3.	Margolis, M.: Arduino Cookbook, O'Reilly, 2nd Edition, 2011.

On-line resources to be used if available as reference material	
1.	https://www.raspberrypi.org/magpi-issues/Beginners_Guide_v1.pdf.
2.	https://www.raspberrypi.org/magpi-issues/Projects_Book_v1.pdf .

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DEEN DAYAL UPADHYAY KAUSHAL KENDRA
BACHELOR OF VOCATION (SOFTWARE DEVELOPMENT)
SEMESTER – VI

Course Code	**BVS06SEC06**	Title of the Course	**Internship**
Total Credits of the Course	**04**	Hours per Week	**04**

Course Objectives:	1. To provide practical experience of software development. 2. To train students to develop software product. 3. To gain knowledge of software development life cycle.

Course Content		
Unit	**Description**	**Weightage *(%)**
1.	– Training on Software Development.	100%

Teaching-Learning Methodology	Project-based learning approach in which students acquire skills on design, development, analysis, critical thinking, decision making, evaluation and testing of software systems.

Evaluation Pattern		
Sr. No.	**Details of the Evaluation**	**Weightage *(%)**
1.	Internal Practical Examination.	50%
2.	External Examination.	50%

Course Outcomes: Having completed this course, the learner will be able to develop	
1.	Develop an application for solving real-life problems.
2.	Gain knowledge of software development process.