National Education Policy 2020

Siddharth University Kapilvastu

Syllabus Minor Course: Computer Science

Ordnance:

- 1. This syllabus shall come with effect from Academic Season 2021.
- 2. This paper will be a part of a minor optional course of University Bachelor's Degree Course.
- 3. Any student of BSc courses may opt this paper as minor Course in Computer Science.
- 4. The student opting this paper shall be required to pass it only in any of the semester of his/ her First Year or Second Year of Bachelor's degree Course but the option for this paper shall not be available in Third Year of the Bachelor's degree course.
- 5. This paper will carry 4 credits. The paper shall be divided in 4 units and each unit shall carry one credit as 25% of the maximum marks.
- 6. A minimum of 60 lectures in a single semester shall be required for teaching this paper

Scheme of Evaluation

- 1. This paper shall carry the maximum marks are Hundred and the duration of the examination will be three hours.
- 2. Standard of Passing: minimum marks required to pass the examination will be 40.
- 3. The student who fails in this paper at any semester examination shall be allowed to reappear in the semester examination of the subsequent academic session in accordance with the general policy and examination ordinance of the university.

Programme/Class: MINOR COURSE		Year: FIRST	7	ester: Second	
	Subject: Com	puter Science			
Course Code: BMCCS101T Course Title: Computer Fun					
Course ou	tcomes:				
	clops basic understanding of compu				
CO 2: Deve	clops the ability to work with compa	uters using various net	works/Intern	iet.	
Credits: 4 Elective as MINOR C			MINOR COL		
Max. Marks: 100 Min. Passing Marks				10	
	Total No. of Lectures-Tutorials-P	ractical (in hours per w	veek): 4-0-0		
Unit	Topic			No. of	
	100			Lectures	
I	INTRODUCTION: Introduction to computer, Basics of computers and its operation, History of computer, Capabilities and limitations of computers, Types of computers, Hardware & Software, various storage devices.			15	
n	Menu, running an application), (Creating and renaming of files at Simple Setting (Changing System)	SYSTEM: I, The User Interface (Task Bar, Icons, ion), File and Directory Management files and directories), Operating System ystem Date and Time, Changing Display ove a Windows Component, Changing			

	Mouse Properties).	
111	UNDERSTANDING WORD PROCESSING AND SPREAD SHEET: Word Processing Basics, Opening and closing Documents, Text Creation and manipulation, Formatting the Text, Elements of Electronic Spread Sheet, Manipulation of Cells.	15
IV	COMPUTER NETWORKS & INTERNET: Data communication, Computer Network, Internet, popular web browsing software, search engines, Web page, Website, URL, e-mail, Applications of Internet.	15

Programme/Class: MINOR COURSE				nester: d/Fourth
4. 1101000000	Subject: Comp	outer Science		
Course Code: BMCCS201T Course Title:		Course Title: C I Programming	Jangua	ge for
Course out	comes:			
CO 1: To le	arn how to solve common types of c	omputing problems.		
CO 2: To le	arn basic understanding of various co	omputer programming	languag	es and
	ops the ability to work with C Progra			
	Credits: 4	Elective as MINOR C		
Max. Marks: 100 Min. Passing Mark				
	Total No. of Lectures-Tutorials-Pra	etical (in hours per we	eek): 4-0-	
Unit	Topic		No. of	
				Lectures
I	Introduction: Evolution of Programming Languages; Programming Approaches: Top-down Approach, Bottom-up Approach; Algorithm; Flowchart; Source Code; Object Code; Executable File.		15	
II	C-Introduction, Data Types- Primitypes, User-Defined Data Types; Operators, Precedence of Operator Token: Variables, Constants, Literal Sequence; Types of Conversion: Typ	15		
Ш	Decision Control Statements: IF, IF-ELSE, Nested IF, IFELSE ladder, Switch-case; Iterative statements: FOR loop, WHILE loop, DO-WHILE loop; Jump Statements: Break, Continue.			15
IV	Arrays & Function: Array: Declaration of an Array, In Array: Single Dimension Array, Two User-Defined Functions; Function D Actual Arguments, Formal Arg Methods to Call a Function: Call Passing Arrays as Parameters, Recur	nitialization of Array, To-Dimensional Array eclaration; Types of Arg uments; Function De by Value, Call by Re	guments: finition;	15