Udai Pratap College, Varanasi

(An Autonomous Institution)

Syllabus of the Subject: Vocational Courses

As per guidelines of National Education Policy-2020 (NEP-2020)
w.e.f. the session 2021-2022

04/9/2024

Subject: Vocational Course		
Course Code:	Course Title: **Information & Communication Technology**	
Credits: **1**	Core : Elective	
Max. Marks: **25+75**	Min. Passing Marks:	

Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: **1-0-0**

Unit	Topics	No. of Lectures
	Information & Communication Technology	
I	Introduction to Computer, History of Computer, Characteristics Of Computer System , Central Processing Unit Keyboard, mouse and VDU, ALU, CU, computer memory RAM, ROM, PROM, EPROM, Input devices and Output devices , Number systems, Binary, octal, hexadecimal , Decimal and their Conversions. translator (Assembler, compiler, interpreter), concepts of high level language and low level languages.	5
II	Feature of C++, Constants, Variables and data types, Operators and expressions.	5
III	Data Input and Output, Control statements and Functions, Looping (while, do-while ,For Nested) switch case ,If-Else, Array, User defined functions and C++ programs.	5

Suggested Readings

1.Fundamental of Computer by V.Rajaraman
2.Programming in C++ by V.Rajaraman

This course can be opted as an Elective by the students of following subjects

Open to all

Continuous Internal Evaluation (CIE) Methods

20 Marks for Test / Quiz / Assignment / Seminar

05 Marks for Class Interaction

04/9/21

Subject: Vocational Course	
Course Code:	Course Title: **Information & Communication Technology (Practical)**
Credits: **2**	Core : Elective
Max. Marks: **25+75**	Min. Passing Marks:
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: **0-0-4**	

	Topics	No. of Lectures
	Information & Communication Technology (Practical)	
	1. DOS, Internal and External commands, Windows. 2. Write a program in c++ for following series as a) Natural Number, b) Even Number, c) Odd Number d) Prime number e) Fibonacci Numbers 3. Write a program in c++ for cheek a number for Armstrong or not. 4. Write a program in c++ for cheek a number for Poly. 5. Write a program in c++ for 1 to 20 Tables 6. Write a program in c++ for print the following pattern 1 1 2 1 2 3 1 2 3 4 1 2 3 4 5 7. Write a program in c++ for print the following pattern 1 2 2 3 3 3 4 4 4 4 5 5 5 5 5 Some other experiments will be done based on the theory.	60

Suggested Readings

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Open to all

Continuous Internal Evaluation (CIE) Methods

10 Marks for Record File (depending upon the no. of experiments performed out of the total assigned experiments)
10 Marks for Viva Voce
05 Marks for Class Interaction