Vivekanand College, Kolhapur (Autonomous)
Department of B.Sc. (Computer Science Entire)
Academic Year: 2020-2021
Syllabus Completion

Name of the teacher: Pallavi M Dessai
Programme   B.Sc computer science entire   Semester-I
Subject:- Computer science   Course Title: Programming in C-I

Section –II

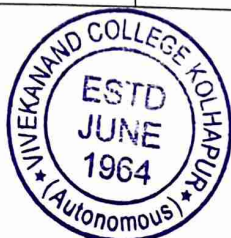| MONTHS	UNIT NAME	POINTS TO BE COVERED
May/June	Programming Concepts	Program and programming, Programming languages, Algorithm: Definition, Examples Characteristics of an algorithm, Notation of Algorithm, Pseudo code conventions Flowcharts- Definition, Symbol, features.
July/August	Introduction to C	History of 'C', Structure of 'C' program, Program execution phases, Character set and keywords, Constant and its type, Variable and its Data types in 'C', Operators, operator precedence
September	Input-Output Statements Control Structures	Character input-output - getch(), getche(),getchar(),putchar() String input-output - gets(), puts() , Formatted input-output - printf(), scanf(),Conditional Control Statements –if –if-else –nested if-else –else-if ladder.
October	Control Structures	Multiple Branching Control Statement –switch-case Loop Control Statements –while –do-while –for –Nested Loops Jump Control statements –break –continue –goto –exit

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Syllabus Completion

Name of the teacher: Pallavi M Dessai
Programme   B.Sc computer science entire   Semester-II
Subject:- Computer science Section II   Course Title: Programming in C-II

MONTHS	UNIT NAME	POINTS TO BE COVERED
December	Arrays and strings	Array –One dimensional arrays Two dimensional arrays ,Initializing strings, Reading string , string handling functions
January	Function, Pointer, dynamic memory allocation and Structure	What is function? Advantages of using functions, Function Prototype –Defining a function, Calling a function ,Return statement ,Types of functions

		,Recursion, Local and global variables Def of Pointer, Declaration of Pointer Variables, Assigning Address to Pointer Variables ,De-referencing Pointer Variables,
February	Pointer, dynamic memory allocation and Structure	Pointer Arithmetic –Pointer comparisons –De-reference and increment pointer –Null pointer , Parameter Passing Techniques – call by value, call by address, Dynamic memory allocation Why is structure used? What is structure? Advantages of structures, Defining a Structure , Declaration of Structure Variables , Initialization of Structure Variables , Accessing Structure Members Storage of Structures in Memory ,Size of Structures, Reading and Displaying Structure Variables , Assignment of Structure Variables , Pointers to structures, Array of structures , Arrays within structures , Nested structures
March	File Handling	Concept of File ,Text and binary files, Opening and closing files, File opening mode- read, write, append character and integer handling Formatted output

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Vivekanand College, Kolhapur (Autonomous)
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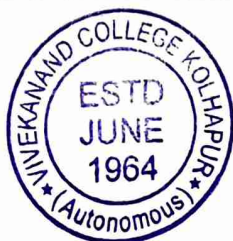Academic Year: 2020-2021
Syllabus Completion

Name of the teacher: Miss Pallavi M. Dessai
Programme   B.Sc. computer science entire   Semester-V
Subject: computer science Section-II   Course Title: Operating system

Months:- May/June	Module/Unit:	Sub-units planned
	Operating System overview	Introduction and definition of operating system Objectives and function Types of operating system ,Operating system services , Protection: input output, memory and CPU protection System calls: types of system calls and system call implementation , System programs and application programs

Month: July/August	Module/Unit:	
	Process Management	Process concept, Process states, Process control block (PCB)
		Context switching , Threads, concept of multithreads, benefits of threads and types of threads
		Process scheduling: scheduling objectives, types of schedulers, scheduling criteria, scheduling algorithms- Preemptive and non-preemptive.
		Process synchronization, critical section problem, semaphores.
Month: September	Module/Unit:	Sub-units planned
	Memory Management	Logical and physical address map , Swapping
		Memory allocation- contiguous memory allocation- fixed and variable partition, internal and external fragmentation and compaction.
		Paging and virtual memory, demand paging, locality of reference, page fault, dirty page/ dirty bit, page replacement policies FIFO, optimal, LRU, MFU
		Disk structure, Disk scheduling
Month: October	Module/Unit:	Sub-units planned
	File management and Deadlocks	File concept, access methods- sequential and direct, file types and operations
		Directory structure- single level, two level, tree structure, acyclic graph, general graph directory structure
		Allocation method- contiguous, linked and indexed
		Definition of deadlock, characteristics
		Deadlock prevention, detection and recovery

Name and sign of teacher

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Vivekanand College, Kolhapur (Autonomous)
Department of Computer Science, Entire
VIVEKANAND COLLEGE, KOLHAPUR
(AUTONOMOUS)
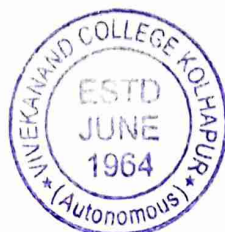Academic Year: 2020-2021
Syllabus Completion

Name of the teacher: Pallavi M. Dessai
Programme B.Sc computer science entire   Semester-VI
Subject: computer science Section I   Course Title: Linux operating system
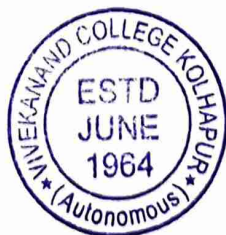
Month:December	Module/Unit:	Sub-units planned
	Linux Basics	• What is an OS? What is Linux, history of Linux, Linux distribution The shell, kernel, Linux file system, login, logout Different general purpose utility commands (GPU) Concept of directory, home directory, directory handling commands,Basic file attributes metacharacters. Access permission chmod command File handling commands-cat, cp, mv, rm, lp, man, pipe
Month:-January	Module/Unit:	Sub-units planned
	Basic filters	What is a filter, head, tail, sort, grep, sed, awk regular expressions and its types ,environment variables-concept of process, PID, PS, KILL, FREE
Month:-February	Module/Unit:	Sub-units planned
	VI editor	What is the VI editor-command mode, insert mode, last line mode VI editing commands, moving within a file, saving and closing the file Command mode movement, command mode- making changes, repeating VI actions
Month:-March	Module/Unit:	Sub-units planned
	Essential shell programming	Linux shells, shell scripting, running a shell script Statements- read, echo, exit, expr Conditional statements- test, if, case Looping statements- while, until,for Positional parameters- set, shift

Name and sign of teacher

HOD`

Vivekanand College, Kolhapur (Autonomous)

Department of B.Sc CS (Entire)

Academic Year: 2020-21

Syllabus Completion Report

Name of the teacher: Mr Rajesh R Mane   **Subject: Computer Science**

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
BCS-I	I	**Introduction To computers and C –programming-I**	Unit 1. I-Introduction to Computer and Basic Organization Unit 2:Input, Output Devices and Concept of Memory Unit 3:Operating System concepts Unit 4:MS-POWER POINT,Excel & Access Practical's Fundamentals of computers	Unit 1. I-Introduction to Computer and Basic Organization Unit 2:Input, Output Devices and Concept of Memory Unit 3:Operating System concepts Unit 4:MS-POWER POINT,Excel & Access Practical's Fundamentals of computers	-----	Completed
BCS-I	II	**A Introduction to computers and programming using C-II**	Unit 1: Computer Network Basic Concepts Unit 2: Introduction To HTML Unit 3: IMAGES,MAPS.FORMS,TABLES,Frames Unit 4: Introduction to CSS Practical's Fundamentals of computers	Unit 1: Computer Network Basic Concepts Unit 2: Introduction To HTML Unit 3: IMAGES,MAPS.FORMS,TABLES,Frames Unit 4: Introduction to CSS Practical's Fundamentals of computers	-----	Completed

MR Rajesh R Mane

Miss Pallavi M. Dessai
(HOD)

Vivekanand College, Kolhapur (Autonomous)
Department of B.Sc CS (Entire)
Academic Year: 2020-21

Syllabus Completion Report

Name of the teacher: Mr.Rajesh R Mane

Subject: Computer Science

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
BCS-III	V	**E-Commerce**	1. Introduction to E-commerce 2. EDI 3. E Payment system 4. Security Issues & Threats Practical's Fundamentals of computers	1. Introduction to E-commerce 2. EDI 3. E Payment system 4. Security Issues & Threats Practical's Fundamentals of computers	-----	Completed
BCS-III	VI	**Data warehouse and mining**	1. Introduction to data Warehousing 2. Introduction to data mining 3. Data preprocessing and association rule mining 4. Classification, prediction and clustering Practical's Fundamentals of computers	1. Introduction to data Warehousing 2. Introduction to data mining 3. Data preprocessing and association rule mining 4. Classification, prediction and clustering Practical's Fundamentals of computers	--------	Completed

Mr .Rajesh R.Mane

Miss Pallavi M. Dessai
(HOD)

Vivekanand College, Kolhapur (Autonomous)
Department of Computer Science (Entrire)

Academic Year: 2020-21

Syllabus Completion

Name of the teacher: Vaishali Chandrashekhar Dalvi

Programme: B.Sc. Computer Science (Entrire) III   Semester- V

Subject: Computer Science

Course Title: Introduction to C#.Net

MONTHS	UNIT NAME	POINTS TO BE COVERED
JUN, JULY	I- .net Framework	Event Driven programming, Introduction to framework.. NET architecture. CLR, CTS, JIT compiler, MSIL, .NET framework class library. Garbage collection. Assemblies.
AUGUST ,SEPTEMBER	II-C#.NET basics.	.NET development environment, data types, operators,
SEPTEMBER,OCTOMBER	III-OOPS concepts with C#.Net	Class and Objects Properties, methods and events. Constructors and destructors Method overloading & overriding. Inheritance, Access modifiers. Interface, Polymorphism.
NOVENMBER	IV- Windows applications in c#.Net	Windows forms Controls Mouse Events Keyboard events.

Name and Signature of Teacher

Vaishali C. Dalvi

Name and Signature of HoD

Pallavi M. Dessai

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Department of Computer Science (Entrire)
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Syllabus Completion

Name of the teacher: Vaishali Chandrashekhar Dalvi

Programme: B.Sc. Computer Science (Entrire) III   Semester- VI

Subject: Computer Science

Course Title: Introduction to ASP.Net

MONTHS	UNIT NAME	POINTS TO BE COVERED
DESCEMBER,JANUARY	I-Exception Handling	control structure, procedures. Exception Handling. Classes and objects. Console application.
JANUARY ,FEBRUARY	II- Database connectivity in C#.NET	Database, Connection to database using MS-Access, Data binding with controls, Data form wizards. Data validations.
MARCH	III-Using Crystal Reports	Conenctions to Database, Tables Create, modify reports. Formatting Fields and inserting Header and footers. Working with multiple tables.
APRIL	IV-ASP.NET with C#.NET	Introduction to ASP.net Working with web controls.

Name and Signature of Teacher

Vaishali C. Dalvi

Name and Signature of HoD

Pallavi M. Dessai

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Syllabus Completion Report

Name of the teacher: Miss NITA N.BARGALE   **Subject: computer science**

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc-III	V	**DSE-1305E** Section-I Core Java	Unit 1:introduction to java Unit 2: control statement, class and object	Unit 1: introduction to java Unit 2: control statement, class and object	-----	Completed
B. Sc-III	V	**DSE-1305E** Section-I Core Java	Unit 3: package ,inheritance and interface Unit 4:Exception handling and multithreading	Unit 3: package ,inheritance and interface Unit 4:Exception handling and multithreading	-----	Completed
B. Sc-III	VI	**DSE-1305F** Section –I Advance java	Unit 1: 1: User Interface Components with AWT and Swing Unit 2:JDBC	Unit 1: 1: User Interface Components with AWT and Swing Unit 2:JDBC	-----	Completed
B. Sc-III	VI	**DSE-1305F** Section –I Advance java	Unit 3 : servlet Unit 4: jsp	Unit 3 : servlet Unit 4: jsp	-----	completed
B. Sc-III	V	Practicals	All Practicals	All Practicals	-----	Completed
B. Sc-III	VI	Practicals	All Practicals	All Practicals	-----	Completed

Miss Nita N.Bargale

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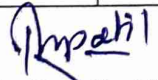## Academic Year: 2020-21

Syllabus Completion Report

Name of the teacher: Miss Radhika M. Patil　　　　　　**Subject: Computer Science**

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Cover	Remarks
BCS-II	III	Object Oriented Programming Using C++	Unit 1: Introduction to C++ and Basics of Object Oriented programming Concepts Unit 2: Class and Object Unit 3: Constructor, Destructor, Operator Overloading Unit 4: Inheritance and Polymorphism	Unit 1: Introduction to C++ and Basics of Object Oriented programming Concepts Unit 2: Class and Object Unit 3: Constructor, Destructor, Operator Overloading Unit 4: Inheritance and Polymorphism	-----	Completed
BCS-II	IV	Introduction to Data Structure using C++	Unit 1: Introduction to Data structure and Linear Data Structures Unit 2: Stack and Queue Unit 3: Linked List, Trees, Searching and Sorting algorithms Unit 4: Searching and Sorting	Unit 1: Introduction to Data structure and Linear Data Structures Unit 2: Stack and Queue Unit 3: Linked List, Trees, Searching and Sorting algorithms Unit 4: Searching and Sorting	-----	Completed
BCS-II	III and IV	C++, MySQL and Data Structure Programs	ALL Practical Assignments	ALL Practical Assignments	-----	Completed
BCS-III	V	Data Communication	Unit 1: Basics of Data communication Unit 2: Transmission media and modes Unit 3: Multiplexing and Switching, Protocols and Standards Unit 4: Physical Layer and Data Link Layer	Unit 1: Basics of Data communication Unit 2: Transmission media and modes Unit 3: Multiplexing and Switching, Protocols and Standards Unit 4: Physical Layer and Data Link Layer	-----	Completed
BCS-III	VI	Computer Network	Unit 1: Data Link Layer Protocols and network layer. Unit 2: Network Layer and Transport Layer Unit 3: Session and Presentation layer Unit 4: Application layer	Unit 1: Data Link Layer Protocols and network layer. Unit 2: Network Layer and Transport Layer Unit 3: Session and Presentation layer Unit 4: Application layer	-----	Completed

Miss Radhika M. Patil

Miss Pallavi M. Dessai
(HOD)

Vivekanand College, Kolhapur (Autonomous)
Department of B.Sc CS (Entire)
Academic Year: 2020-21

Syllabus Completion Report

Subject: Computer Science

Name of the teacher: Miss Nadiya D.Patel

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
BCS-II	III	CC-CS-1304C Introduction to RDBMS using MySQL and Object Oriented Programming Using C++	Unit 1: Introduction to RDBMS Unit 2: Introduction to Data Models and Normalization Unit 3: Introduction to MySQL Unit 4: Sub-queries and Joins	Unit 1: Introduction to RDBMS Unit 2: Introduction to Data Models and Normalization Unit 3: Introduction to MySQL Unit 4: Sub-queries and Joins	-----	Completed
BCS-II	IV	Cyber Security Essentials	Unit 1: Introduction to Computer Network Unit 2: Introduction to Cyber security Unit 3: Introduction to information security and threats Unit 4: Access Control and cyber security laws	Unit 1: Introduction to Computer Network Unit 2: Introduction to Cyber security Unit 3: Introduction to information security and threats Unit 4: Access Control and cyber security laws	-----	Completed

Miss Nadiya D. Patel

Miss Pallavi M. Dessai
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Syllabus Completion Report

Name of the teacher: Miss Nadiya D.Patel   **Subject: Computer Science**

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
BCS-III	V	**Software Engineering with UML**	1.Introduction to software engineering and process models 2. Introduction to Requirements Analysis and specification and UML 3. UML Diagrams- I 4.UML Diagrams- II and introduction to Software Testing	1.Introduction to software engineering and process models 2. Introduction to Requirements Analysis and specification and UML 3. UML Diagrams- I 4.UML Diagrams- II and introduction to Software Testing	-----	Completed
BCS-III	VI	**Introduction to Artificial Intelligence and Expert Systems**	1.Introduction to Artificial Intelligence 2.Introduction to Intelligent System 3.Problem Solving in A.I. 4. Introduction to Expert System	1.Introduction to Artificial Intelligence 2.Introduction to Intelligent System 3.Problem Solving in A.I. 4. Introduction to Expert System		
BCS-III	III	Practical's Operating System and Linux V and VI	ALL	ALL	-----	Completed

Miss Nadiya D. Patel

Miss Pallavi M. Dessai
(HOD)

Name of the Teacher: Mr. N. P. Mote

Subject: Electronics

Class	Sem	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remark
B. Sc. Computer Science Entire -I	I	GEC-1301 A Electronics Paper – I Analog Electronics – I and Digital Electronics – I	Unit 1: Basic circuit elements Unit 2:DC Circuit Analysis Unit 3:Semiconductor Diodes Unit 4: Bipolar Junction Transistor	Unit 1:Basic circuit elements Unit 2:DC Circuit Analysis Unit 3:Semiconductor Diodes Unit 4:DC Power Supply	-----	Completed
B. Sc. Computer Science Entire -I	II	GEC-1301 B Electronics Paper – II Analog Electronics – II and Digital Electronics – II	Unit 1: Field Effect Transistor Unit 2: Amplifiers and Oscillators Unit 3: Operational Amplifier Unit 4: DC Power Supply	Unit 1:Bipolar Junction Transistor Unit 2:Field Effect Transistor Unit 3:Amplifiers and Oscillators Unit 4: Operational Amplifier	-----	Completed
B. Sc. Computer Science Entire - II	III	GEC-1301 C Computer Instrumentation And Organization, Processor Programming	Unit 1: Transducers and Sensors Unit 2: Signal conditioning Unit 3: Data Converters Unit 4: Digital Instruments and Data Acquisition	Unit 1: Transducers and Sensors Unit 2: Signal conditioning Unit 3: Data Converters Unit 4: Digital Instruments	-----	Completed
B. Sc. Computer Science Entire – II	IV	GEC-1301 D Communication Principles And 8051 Microcontroller Interfacing, Programming	Unit 1:Introduction to Electronic Communication Unit 2: Modulation and Demodulation Unit 3: Multiplexing and Multiple Access Techniques Unit 4: Mobile communication	Unit 1:Introduction to Electronic Communication Unit 2: Modulation and Demodulation Unit 3: Multiplexing and Multiple Access Techniques Unit 4: Mobile communication	-----	Completed
B. Sc. Computer Science Entire -I	I&II	Practicals	20Practicals	20 Practicals	-----	Completed
B. Sc. Computer Science Entire-II	III & IV	Practicals	20Practicals	20 Practicals	-----	Completed

Mr. N. P. Mote

Vivekanand College, Kolhapur (Autonomous)
Department of Electronics
Academic Year: 2020-21

Syllabus Completion Report

Name of the teacher: Dr. Milind S. Patil
Subject: Electronics

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
BCS-I	I	GEC-1301 A Section- I Electronics Paper – I Analog Electronics – I and Digital Electronics – I	Unit 1: Number System, Binary Codes and Binary Arithmetic Unit 2: Logic Gates and Boolean Algebra Unit 3: Combinational Circuits Unit 4: Sequential Circuits	Unit 1: Number System, Binary Codes and Binary Arithmetic Unit 2: Logic Gates and Boolean Algebra Unit 3: Combinational Circuits Unit 4: Sequential Circuits	-----	Completed
BCS-II	III	GEC-1301 C Section- II Computer Instrumentation And Organization, Processor Programming	Unit 1: Computer organization Unit 2: The Art of Assembly Language Programming Unit 3: Instruction Set of 8086 microprocessor Unit 4: Assembly programming	Unit 1: Computer organization Unit 2: The Art of Assembly Language Programming Unit 3: Instruction Set of 8086 microprocessor Unit 4: Assembly programming	-----	Completed
BCS-I	II	GEC-1301 B Section- I Electronics Paper – II Analog Electronics – II and Digital Electronics – II	Unit 1: Multivibrators, Unit 2: Memory devices and memory Organization, Unit 3: Introduction to Microprocessor, Unit 4: Instruction Set and Programming of 8085 Microprocessor	Unit 1: Multivibrators, Unit 2: Memory devices and memory Organization, Unit 3: Introduction to Microprocessor, Unit 4: Instruction Set and Programming of 8085 Microprocessor	-----	Completed
BCS-II	IV	GEC-1301 D Section- II Communication Principles And 8051 Microcontroller Interfacing, Programming	Unit 1: Introduction To Microcontroller Unit 2: 8051 Instruction Set Unit 3: Facilities In 8051 Unit 4: Real World Interfacing	Unit 1: Introduction To Microcontroller Unit 2: 8051 Instruction Set Unit 3: Facilities In 8051 Unit 4: Real World Interfacing	-----	Completed

BCS-I	I & II	Practicals	20 Practicals	20 Practicals	-----	Completed
BCS-II	III & IV	Practicals	20 Practicals	20 Practicals	-----	Completed

Dr. Milind S. Patil

Miss P.M.Desai

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Vivekanand College, Kolhapur (Autonomous)
Department of B.Sc CS (Entire)
Academic Year: 2020-21
Syllabus Completion Report

Name of the teacher: Mr.A.A.Pawar

Subject: Statistics

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Cover	Remarks
BCS-I	I	Descriptive statistics-I	Unit 1: Introduction Unit 2: Measure of Central Tendency Unit 3: Measures of dispersion Unit 4: Moments, Skewness and Kurtosis	Unit 1: Introduction Unit 2: Measure of Central Tendency Unit 3: Measures of dispersion Unit 4: Moments, Skewness and Kurtosis	-----	Completed
BCS-I	II	Probability and Discrete Probability Distributions-I	Unit 1: Probability: Unit 2: Conditional probability and independence of events Unit 3: Univariate probability distributions Unit 4: Some standard discrete probability distributions	Unit 1: Probability: Unit 2: Conditional probability and independence of events Unit 3: Univariate probability distributions Unit 4: Some standard discrete probability distributions	-----	Completed
BCS-I	II	Descriptive statistics-II	Unit 1: Correlation (for ungrouped data) Unit 2: Regression (for ungrouped data) Unit 3: Multiple, partial Correlation & Regression (For Trivariate Data): Unit 4: Time Series	Unit 1: Correlation (for ungrouped data) Unit 2: Regression (for ungrouped data) Unit 3: Multiple, partial Correlation & Regression (For Trivariate Data): Unit 4: Time Series	-----	Completed
BCS-I	II	Continuous Probability Distributions and Testing of Hypothesis	Unit 1:Continuous Univariate Distributions Unit 2: Exact sampling distributions Unit 3: Testing of hypothesis Unit 4: Simulation	Unit 1:Continuous Univariate Distributions Unit 2: Exact sampling distributions Unit 3: Testing of hypothesis Unit 4: Simulation	-----	Completed

Mr.A.A.Pawar

Miss Pallavi M. Dessai
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