

P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

Re	f. No	Date
رے،،	. 140	Date

Department of Computer Science UG Computer Science General Programme Outcomes (PO)

- 1. After completion of this programme, the students will demonstrate a strong foundational knowledge in computer science, including understanding and applying principles in areas such as computer fundamental, its architecture, database management system, operating system, data structure & algorithm.
- 2. Students will develop the ability to think critically and solve complex problems using computational methods, enabling them to analyze and interpret data effectively.
- 3. Through elective courses, students will have opportunities to specialize in various computational fieldsor explore interdisciplinary applications, enhancing their skills and knowledge base.
- 4. Graduates will be equipped with the skills to effectively communicate computational concepts and collaborate with peers on projects, important for professional success in any field.
- 5. After completion of this programme, the students will be prepared for further studies in computer science or related disciplines, providing a strong academic foundation for pursuing postgraduate education.
- 6. Students will gain proficiency in using various software and tools essential for modern day to day activities.
- 7. Graduates will understand the ethical implications of their work and the importance of computer in addressing social, scientific, and environmental issues.



P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

Course Outcomes

SEMESTER-I

Course	Course Title	Course	Course Outcome
Code		Credit	
UG-G-CC-	Computer	4(T)	1. Basics of Computer Fundamentals
L-101A	Fundamentals	&	
	and	2(P)	
	Programming		
	using C		



P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

Ref. No	Date
	 Illustrate the Flow Chart & explore algorithmic approaches to problem solving. Ability to analyze a problem and devise an algorithm to solve it. Understand how to write, debug and execute simple programs in C Able to formulate algorithms, pseudo codes and flowcharts for arithmetic and logical problems. Ability to implement algorithms in the 'C' language. Able to make program using Functions, Pointer, Structures, Multi dimensional Arrays & File handling Program Understand how to write, debug and execute simple programs in C.



P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

SEMESTER-II

Course Code	Course Title	Course Credit	Course Outcome
UG-G-CC- L-201B	Computer System Architecture	6	1. To study the basics of Logic gates, Boolean algebra, combinational circuits, circuit simplification, flip-flops and sequential circuits, decoders, multiplexers, registers, counters and memory units
			2. To get familiar with concepts of digital electronics, To learn number systems and their representation, To introduce the basic concepts of advanced Microcontrollers.
			 Able to develop structure of Assembler and macro processor for an hypothetical simulated computer. Able to develop various algorithms used for management of memory, CPU scheduling, File handling and I/O operations. To study Basic computer Organization. To study Basic computer Organization



P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

Ref	No	Date
–,		

SEMESTER-III

Course	Course Title	Course	Course Outcome
Code		Credit	
UG-G-CC- L-301C	Database Manageme nt System	4(T) & 2(P)	 To study the basics of Database Management Systems: Characteristics of database approach, data models, DBMS architecture. To understand E-R Diagram, Normalization. Ability to solve real world problems using appropriate set, function, and relational models. Ability to design E-R Model for given requirements and convert the same into database tables. To understand the Role of Database Designer & Administrator and to become the same designation. Use database techniques such as Structured Query language [SQL] & PL/SQL. To create database tables, generate Queries, Design Forms and generate different types of reports. Finally to Design a database application and to become Database Developer.



P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

UG-G-	Office	2	1. To perform documentation.
SEC-P-301	Automation Tools		2. To perform accounting operations
			3. To perform presentation skills





P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

Ref. I	lo	Date

SEMESTER-IV

Course	Course Title	Course	Course Outcome
Code		Credit	
UG-G-CC-	Operating System	6	1. Understand the role of operating system as System
L-401D			software.
			2. Helps gain knowledge on how the shell relates to
			the keyboard, the screen, the operating system, and users' programs.
			3. Enables students understand when and why
			command-line interfaces should be used instead of
			graphical interfaces.



P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

No			Date
			 4. Able to compare the various algorithms and commen about performance of various algorithms used for management of memory, CPU scheduling, File handling and I/O operations. 5. Understand various concepts related with Deadlock to solve problems related with Resources allocation after checking system in Safe state or not. 6. To understand role of Process synchronization towards increasing throughput of system.
UG-G- SEC-P-402	1.HTML Programm ing	2	 Applying basic HTML for creating websites. Creating CSS for styling web pages.



P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

		201001110	tps://psimeonege.de.m/
UG-G-	XML	2	1. How to create and manipulate XML documents
SEC-P-402	Programming		2. Understanding how DTDs and Schemas define XML
			document structures and languages
			3. Understanding how to use XML electronic text markup
			languages and XML metadata markup schemas
			4. Understanding how XML markup schemas and
			standards are currently being used in the library
			community.



P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

Re	f. No	Date
رے،،	. / ٧٠	Date

SEMESTER-V

Course	Course Title	Course	Course Outcome
Code		Credit	
UG-G-	Analysis	4(T)	1. Exposes students to basic data structures and
DSE-L- 501A	of	& 2(D)	algorithms.
301A	Algorithms	2(P)	2. Introduces students to various techniques for
	and Data		representation of the data in the real world.
	Structures		representation of the data in the real world.
			3. Helps understand and compute the complexity of various algorithms, be able to design and analyze the time and space efficiency of the data structures
			4. Understand different methods of organizing large amount of data using data structure.
			5. Able to choose appropriate data structure as applied to specified problem definition.
			6. Able to compute the complexity of various algorithms.
			7. Able to understand internal structure of compiler and interpreters.





P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

Ref. No.....

UG-G- SEC-P-503	Programming in Visual Basic/GAMBAS	2	1. Demonstrate knowledge of programming terminology and how applied using Visual Basic (e.g., variables, selection statements, repetition statements, etc.)
			Develop a Graphical User Interface (GUI) based on problem description
			3. Develop an Event Planning Chart based on problem description so as to define the processing that is to occur based on specific events
			4. Develop an Algorithm to verify processing is accurate
			5.Develop and debug applications using Visual Basic

Sibaret Banegie

/ Principal

Prof. S.N.H. College

Farakka, Murshidabad

Date.....



P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

Ref. No.....

UG-G- SEC-P-503	Multimedia And Applications	2	1. To Critically and analyze the key components of multimedia technologies including text, graphics, voice, video and animation and the broad principles associated with multimedia concepts used in computer graphics.
			2. Create vector and typographic designs and apply masking effect to images and Create an animation using the tools panel.
			3. Design an image using image editing tools and apply effectively. Create animated sequence with titles applying the principles of animation.
			4. Apply acquired knowledge in the field of multimedia for the good cause like advertisement in practice and independently continue to expand knowledge in this field.

SEMESTER-VI

Course	Course Title	Course	Course Outcome
Code		Credit	

Sibaret Banege / Principal Prof. S.N.H. College Farakka, Murshidabad

Date.....



P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://paphaellege.go.in/.

Website: https://psnhcollege.ac.in/

UG-G-	Project Work	6	1. The Project is the most essential part of this semester
DSE-PRO-	J	-	since the student is expected to apply all the
601B			potential different programming skills to develop
			the concerned project.
			2. The aim of the Project work is to acquire practical
			knowledge on the implementation of the
			programming concepts studied.
			3. Helps students to understand and develop the client
			required user interface.
			4. Helps develop a software project in a team.
			4. Helps develop a software project in a team.
			5. Student should use these techniques for their project.
			1 1 3
			6. Enables students to develop real time projects and
			applications.
			7. Able to learn Program Documentation Project
			Documentation
			8. Students will able to create report for real life
			projects
			projects
			9. Understand the software development process,
			models and software engineering principles and
			develop an ability to apply them to software design
			of real life problems.
			10. Plan, analyze, design and implementation software
			project using different programming languages etc.
			Gain the confidence at working major project with their
			team & Get the skill exposure in the corporate
			environment.



P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

UG-G-	MySQL	2	1.	Translate an information model into a relational databas
SEC-P-604	Programming (using			schema and to implement the schema using RDBMS.
	SQL/PL- SQL)		2.	Apply advanced SQL features like views, indexes, synonyms, etc. for database management.
			3.	Analyze PL/SQL structures like functions, procedures, cursors and triggers for database applications.
			4.	Examine database administration concepts like GRAN REVOKE etc. through SQL commands.
			5.	Work in teams to design solutions for real world problems/case studies by creating efficient database schema.



P.O.- Farakka Barrage. Dist- Murshidabad. Pin-742212 (W.B)

email: prof.snhcollege@rediffmail.com.

Website: https://psnhcollege.ac.in/

Ref. No.....

UG-G-	R Programming	2	1. Show the installation of R Programming
SEC-P-604			Environment.
			2. Utilize and R Data types for developing programs.
			3. Make use of different R Data Structures.
			4. Develop programming logic using R Packages.
			5. Analyze the datasets using R programming capabilities

Sibarent Banegie

/ Principal

Prof. S.N.H. College

Farakka, Murshidabad

Date.....