

GOVERNMENT DEGREE COLLEGE NAGARI Department of Computer Science COURSE OUTCOMES (2020)

1.	3-1-108R	Problem Solving in C	Upon successful completion of the course, a student
	5 - 100K		will be able to:
			CO1: Understand the evolution and functionality of a Digital Computer.
			CO2: Apply logical skills to analyze a given problem
			CO3: Develop an algorithm for solving a given problem.
			CO4: Understand "C" language constructs like Iterative statements, Array processing, Pointers, etc.
			CO5: Apply "C" language constructs to the algorithms to write a "C" language program.
2.		DATA STRUCTURES	Upon successful completion of the course, a student
		USING C	will be able to: CO1: Understand available Data Structures for data
			storage and processing.
			CO2: Comprehend Data Structure and their real- time applications - Stack, Queue, Linked List, Trees and Graph
			CO3: Choose a suitable Data Structures for an application
			CO4: Develop ability to implement different Sorting and Search methods
			CO5: Have knowledge on Data Structures basic operations like insert, delete, search, update and traversal
			CO6: Design and develop programs using various data structures
			CO7: Implement the applications of algorithms for sorting, pattern matching etc
3.		Database Management Systems	On completing the subject, students will be able to: CO1: Gain knowledge of Database and DBMS.
		Systems	CO2: Understand the fundamental concepts of DBMS with special emphasis on relational data model.

		CO3: Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database
		CO4: Model database using ER Diagrams and design database schemas based on the model.
		CO5: Create a small database using SQL.
		CO6: Store, Retrieve data in database.
4.	Object orientated programming through Java	At the end of this course student will: CO1: Understand the benefits of a well-structured program
	Java	CO2: Understand different computer programming paradigms
		CO3: Understand underlying principles of Object- Oriented Programming in Java
		CO4: Develop problem-solving and programming skills using OOP concepts
		CO5: Develop the ability to solve real-world problems through software development in high-level programming language like Java
5.	OPERATING SYSTEMS	Upon successful completion of the course, a student will be able to: CO1: Know Computer system resources and the role of operating system in resource management with algorithms
		CO2: Understand Operating System Architectural design and its services.
		CO3: Gain knowledge of various types of operating systems including Unix and Android.
		CO4: Understand various process management concepts including scheduling, synchronization, and deadlocks.
		CO5: Have a basic knowledge about multithreading.
		CO6: Comprehenddifferent approaches for memory management.
		CO7: Understand and identify potential threats to operating systems and the security features design to guard against them.
		CO8: Specify objectives of modern operating systems and describe how operating systems have evolved over time.
		CO9: Describe the functions of a contemporary operating system



GOVERNMENT DEGREE COLLEGE NAGARI Department of Computer Science COURSE OUTCOMES (2016)

Fundamentals and Programming in Cable to:CO1:Understanding the concept of input output devices of Computers and how it work recognize the basic terminology used in com programming.CO2:Write, compile and debug programs language and use different data types for writi programs.CO3:Design programs connecting de structures, loops and functions.CO4:Explain the difference between call by and call by address.CO5:Understand the dynamic behavior of m	ks and nputer in C ng the ecision value
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CO5: Understand the dynamic behavior of m	emory
	l l
by the use of pointers.	
CO6: Use different data structures and cre	-
manipulate basic data files and deve	loping
applications for real world problems.	
2. 3-2-109 Object Oriented After Completion of this course the student	would
Programming Using be able to	ام محمد ما
C++ CO1: Describe the procedural and object or	
paradigm with concepts of streams, cl functions, data and objects.	asses,
CO2: Understand dynamic memory manag	omont
techniques using pointers, constru	
destructors, etc	10013,
CO3: Describe the concept of function overlo	ading,
operator overloading, virtual functions	and
polymorphism.	
CO4: Classify inheritance with the understance	
early and late binding, usage of exception har	ndling,
generic programming.	
CO5: Demonstrate the use of various	OOPs
concepts with the help of programs.	ا مان میں
3.3-3-108Object Oriented Programming UsingAfter Completion of this course the student be able to:	would
Java De able to. CO1: Understand the use of OOPs concepts.	
CO2: Apply OOPs concepts to solve real	world
problems	
CO3: Understand the use of abstraction, Page	kages
and Interface in java.	-
CO4: Develop Programs for exception har	ndling,
multithreaded applications with synchronization	
CO5: Able to design GUI based application	s and
develops applets for web applications.	

4.	3-4-108	Data Structures	After Completion of this course the student would
			be able to:
			CO1: Describe how arrays, records, linked
			structures, stacks, queues, trees, and graphs are
			represented in memory and used by algorithms.
			CO2: Apply for arrays, records, linked structures,
			stacks, queues, trees, and graphs in developing
			applications. CO3: Compare alternative implementations of data
			structures with respect to performance and benefits
			of dynamic and static data structures
			implementations.
			CO4: understand the concept of recursion, and
			describe how it can be implemented using a stack.
			CO5: calculate computational efficiency of the
			principal algorithms for sorting, searching, and
			hashing.
5.	3-5-111	Database	After completing this course satisfactorily, a student
		Management	will be able to:
		Systems	CO1: Understand the fundamental elements of
			relational database management systems.
			CO2: Gain knowledge concepts of relational data
			model, entity-relationship model, relational database
			design, relational algebra and SQL. CO3: Design ER-models to represent simple
			database application scenarios.
			CO4: Convert the ER-model to relational tables,
			populate relational database and formulate SQL
			queries on data.
			CO5: apply normalization in database design.
6.	3-5-112	Software	After completing this course satisfactorily, a student
		Engineering	will be able to:
			CO1: Gain knowledge on software engineering
			principles and techniques.
			CO2: Develop, maintain and evaluate large-scale
			software systems.
			CO3: Produce efficient, reliable, robust and cost-
			effective software solutions. CO4: Ability to work as an effective member or
			leader of software engineering teams.
			C5: Understand and meet ethical standards and legal
			responsibilities.
7.	3-6-107B	Computer Networks	After completing this course satisfactorily, a student
	-		will be able to:
			CO1: Independently understand basic computer
			network technology.
			CO2: Identify the different types of network
			topologies and protocols.
			CO3: Explain the types of transmission media with
			real time applications
			CO4: Gain knowledge on the functions of all layers
		<u> </u>	and their protocols.

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			CO5: Understand the routing protocols and analyze how to assign the IP addresses for the given network.
8.	3-6-107B2	Cloud Computing	 After completing this course satisfactorily, a student will be able to: CO1: Compare the strengths and limitations of cloud computing. CO2: Identify the architecture, infrastructure and delivery models of cloud computing. CO3: Apply suitable virtualization concepts. CO4: Choose the appropriate cloud player, Programming Models and approach. CO5: Address the core issues of cloud computing such as security, privacy and interoperability.
9.	3-6-107B1	Distributed Systems	After completing this course satisfactorily, a student will be able to: CO1: Demonstrate knowledge of the basic elements and concepts related to distributed system technologies and architectural aspects of distributed systems; CO2: Understand various distributed algorithms, such as logical clocks and leader election. CO3: Design and implement distributed applications; CO4: Demonstrate knowledge of details the main underlying components of distributed systems (such as RPC, file systems); CO5: Use and apply important methods in distributed systems to support Task Assignment, Load balancing, Migration and threads.