

Scheme of B.Sc. Computer Science

Year	Course Code	Subject Name	Theory/ Practical	Total Credit	Total Marks	
					Max	Min
First	COMP-1T	Computer Fundamental and Operating System	Theory	4	50	17
	COMP-2T	Programming with C and C++	Theory	4	50	17
	COMP-1P	LAB 1: Programming with C and C++	Practical	2	50	17
Second	COMP-3T	Data Structure	Theory	4	50	17
	COMP-4T	Web technology and Java	Theory	4	50	17
	COMP-2P	LAB 2: Web technology and Java	Practical	2	50	17
Third	COMP-5T	Data Communication and Networking	Theory	4	50	17
	COMP-6T	Relational Database Management System	Theory	4	50	17
	COMP-3P	LAB 3: Relational Database Management System	Practical	2	50	17
Total				30	450	

Note: There shall be four extra credits in all the years of under graduation for internship/apprenticeship. The certificate of extra credits would be provided by the concern university and is not mandatory.



Part A: Introduction			
Program: Degree Course		Class: B.Sc.-CS III Year	Year: 2022 Session: 2022-2023
1	Course Code	COMP-3P	
2	Course Title	LAB 3: Relational Database Management System	
3	Course Type	Practical	
4	Pre-requisite (if any)	Basic Knowledge of SQL	
5	Course Learning Outcomes (CLO)	<p>At the end of course, Students will be able to:</p> <ul style="list-style-type: none"> • Learn about Database Concepts, Architecture, various Users, Data Models and Data Management which helps them to interact with various Databases. • Develop various Tables and Databases which helps them to develop new Software. • Practice various SQL commands which helps them to generate new relationships among various Tables and Databases which are useful for Software Development. • Familiar about RDBMS Software like Oracle and SQL Server which are used as Backend for Software Development. • Develop new Databases for their Minor and Major Project Development which enhances their Data Storage, Data Accessibility and Data Management. 	
6	Credit Value	Practical: 2	
7	Total Marks	Max. Marks: 50	Min Passing Marks: 17

Part B: Content of the Course	
Total Periods: 30	
Tentative Practical List	<p>Note: This is tentative list; the teachers concern can add more program as per requirement.</p> <ol style="list-style-type: none"> 1. Design an employee table in Oracle/SQL Server having eid(primary key) ename, edesignation, edoj, edob, eaddress, salary, econtact as fields and answer the following questions : <ol style="list-style-type: none"> a) Insert five records in above created table. b) Display all five records. c) Delete the fourth record. d) Update the third record of field ename as 'hari'. e) Add one new field in the table. 2. Design a salary table Oracle/SQL Server with one primary key and foreign key(employee table) having following fields :



Month, working days, deptid, gross, incentive, deduction and net salary.

- a) Insert five records in above created table.
 - b) Display all five records.
 - c) Use foreign key relation and display records.
 - d) Update the second record of field deptid as 'Sales'.
 - e) Add one new field in the table.
3. Create a new user in Oracle/SQL Server.
 4. Create a view in Oracle/SQL Server.
 5. Create a new table in Oracle/SQL Server and practice for join operation.
 6. Create a new user in Oracle/SQL Server and practice for commit and rollback command.
 7. Create a new database in Oracle/SQL Server having atleast five tables for Hotel Management System.
 8. Create a new database in Oracle/SQL Server having atleast four tables for Covid Vaccination Management System.
 9. Create a new database in Oracle/SQL Server having atleast five tables for Library Management System.
 10. Create a new table in Oracle/SQL Server and practice for Group by and Order by Clause.
 11. Create a new table in Oracle/SQL Server and practice for max(), min(), avg() and count() functions.
 12. Create a new table in Oracle/SQL Server and practice for lower(), substr(), trim() and upper() functions.
 13. Create a new table in Oracle/SQL Server and practice for unique and check constraint.
 14. Create a new table in Oracle/SQL Server and practice for any two date formats.
 15. Create a new table in Oracle/SQL Server and practice for using clause.
 16. Create a new table in Oracle/SQL Server and practice for having clause with sub queries.
 17. Create a new table in Oracle/SQL Server and practice for alias in any table.
 18. Create a new table in Oracle/SQL Server and practice for inner and outer join.
 19. Create a new table in Oracle/SQL Server and practice for Drop command.
 20. Write a PL/SQL program for addition of two numbers.
 21. Write a PL/SQL program to find the factorial value of any entered number.
 22. Write a PL/SQL program for swapping of two numbers.



	<p>23) Write a PL/SQL program to print first ten Natural Numbers.</p> <p>24) Write a PL/SQL program to generate even series upto five digits starting from 2 and sum all the terms.</p> <p>25) Write a PL/SQL program to practice for implicit and explicit cursor.</p>
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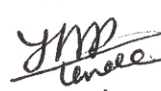

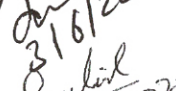


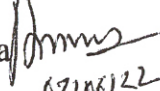
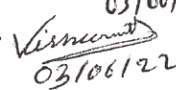
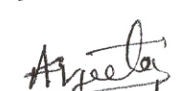
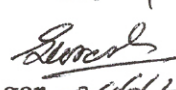
Part C - Learning Resources	
Text Books, Reference Books, Other Resources	
<p>Suggested Readings:</p> <ol style="list-style-type: none"> 1. Database system concept , H. Korth and A. Silberschatz, TMH Publications . 2. Data Base Management System, Alexies & Mathews, Vikash publication. 3. Data Base Management System, C. J. Date ,Narosha Publication. 4. Data Base Management System by James Matin. 5. Principles of Database System by Ullman. 6. Program Design, Peter Juliff, PHI Publications. 7. The Complete Reference, Kevin Loney, Oracle Press. 8. SQL, PL/SQL The Programming Language of Oracle, Ivan Bayross , PustakKosh Publication. 9. Microsoft SQL Server Management and Administration, Ross, STM Publications. <p>E Resources:</p> <ol style="list-style-type: none"> 1. SWAYAM URL link for DBMS and RDBMS: https://youtu.be/f6LGtJutWyA 2. SWAYAM URL link for DBMS and RDBM: https://youtu.be/IoL9Ve2SRwQ 3. SWAYAM URL link for DBMS and RDBMS : https://swayam.gov.in/courses/4434-data-base-management-system 	

Part D: Assessment and Evaluation		
<p>Suggested Continuous Evaluation Methods:</p> <p>Maximum Marks: 50</p> <p>Continuous Comprehensive Evaluation (CCE): Not Applicable</p> <p>University Exam(UE): 50 Marks</p>		
<p>Internal Assessment:</p> <p>Continuous Comprehensive Evaluation (CCE)</p>	Class Test/Assignment/Presentation	Not Applicable



Declaration

The syllabus of this subject is frame as per the TOR of department of higher education, Chhattisgarh.

- | | | | |
|--|---|----------------------------|---|
| 1. Dr. H.S. Hota
Prof. and Head, Dept. of Computer Science and Application | - | Chairman | 
03.06.2022 |
| 2. Dr. Sanjay Kumar
Prof. and Head, SoS in Computer Science, Pt. Ravishankar Shukla University, Raipur | - | Member | 
03.06.2022 |
| 3. Mr. Jitendra Kumar
Asst. Prof., Dept. of Computer Science and Application
Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur | - | Member | 
31/6/22 |
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| 12. Mr. Suresh Kumar Thakur
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02/06/22 |
| 13. Dr. Ugrasen Suman
Prof. and Head, Dept. of Computer Science
Devi Ahila Vishwavidyalaya, Indore | - | Member
(Present Online) | |

Date: 03.06.2022

Part A: Introduction			
Program: Degree Course		Class: B.Sc.-CS III Year	Year: 2022
		Session: 2022-2023	
1.	Course Code	COMP-5T	
2.	Course Title	Data Communication and Networking	
3.	Course Type	Theory	
4.	Pre-requisite (if any)	No	
5.	Course Learning Outcomes (CLO)	At the end of this course, the students will be able to: <ul style="list-style-type: none"> • Understand the basic computer network technology • Understand and explain the data communication system and its components. • Identify the different types of network topologies and protocols. • Understand the layers of the OSI model and TCP/IP. • Expose wireless and wired LANs. 	
6.	Credit Value	Theory: 4	
7.	Total Marks	Max. Marks: 50	Min Passing Marks: 17

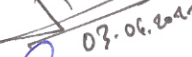




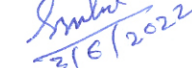





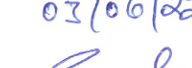
Part B: Content of the Course		
Total Periods: 60		
Unit	Topics	No. of Periods
I	Overview of Data Communication and Networking: Data Communications: components, data representation, direction of data flow (simplex , half duplex , full duplex; Networks : distributed processing, network criteria , physical structure (type of connection , topology), categories of network (LAN, MAN, WAN), Protocol and standards; Reference Models: OSI & TCP/IP reference model comparative study.	12
II	Physical layer: Analog and Digital Transmission: Transmission Impairments, Data Rates Limits, Digital to Digital Conversion, Digital to Analog conversion, Analog To Digital Conversion: Modulation, Transmission Modes, Parallel, Serials Asynchronous and Synchronous communication; Constellation Diagram, Analog to Analog conversion, Bandwidth Utilization, Transmission Media: Multiplexing: FDM, WDM AND TDM, Guided Media: Twisted Pair, Coaxial and Fiber Optic, Unguided Media : Wireless , Radio Waves, Microwaves and Infrared.	12
III	Data Link Layer: Flow control: Protocols: Stop & wait ARQ, Go-Back-N ARQ, Selective repeat ARQ, HDLC; Medium Access Sub-layer: Point to point protocol, LCP, NCP, FDDI, token bus, token ring; Multiple Access Protocols: Pure ALOHA, Slotted ALOHA, CSMA, CSMA/CD, FDMA, TDMA, CDMA; Traditional Ethernet, Fast Ethernet.	12
IV	Network Layer: Internetworking Devices: Repeaters , Hubs , Bridges, Switches, Router , Gateway; Addressing: Internet address, classful address, subnetting, classless address; Routing: Techniques, static vs dynamic routing, and routing table for classful address; Routing Algorithms: Shortest path algorithm, flooding , distance vector routing , link state routing; Protocols: ARP, RARP, IP, ICMP, IPV6; Unicast and multicast routing protocols;	12

V.	Transport Layer and Application Layer: UDP, TCP; Congestion control algorithm: Leaky bucket algorithm, Token bucket algorithm, choke packets; Quality of service: techniques to improve Qos; DNS,SMTP, SNMP,FTP, HTTP, Firewalls; Modern Topics: Wireless LAN: IEEE 802.11;Introduction to Bluetooth,VLAN's, Cellular telephony & Satellite network.	12
Keywords: Networking Model, Communication Protocol, Transmission Media, Internetworking Devices.		

Part C: Learning Resources	
Text Books, Reference Books, Other Resources	
<p>Suggested Readings:</p> <ol style="list-style-type: none"> 1. Data Communications and Networking, B.A. Forouzan, TMH, (Latest Edition) 2. Computer Networks, A.S. Tanenbaum, 4th Edition, Pearson Education/PHI 3. Data and Computer Communication, W. Stallings, 5th Edition, PHI/Pearson Education 4. Computer Networking – A top down approach featuring the internet, Kurose and Rose, Pearson Education. 5. Communication Networks, Walrand, TMH (Latest Edition) <p>E Resources:</p> <ol style="list-style-type: none"> 1. NPTEL URL link for Data Communication: https://nptel.ac.in/courses/106105082 Topics From SWAYAM Portal 2. Introduction to Data Communication https://www.youtube.com/watch?v=swtH_okidQc&list=PLUtfVcb-iqn8dG1-Cn7NTedILR3hRVgcN&index=1 3. Layered Architecture https://www.youtube.com/watch?v=xHO6LjSHeo0&list=PLUtfVcb-iqn8dG1-Cn7NTedILR3hRVgcN&index=2 4. Data and Signal https://www.youtube.com/watch?v=6ZGVZ7gUccE&list=PLUtfVcb-iqn8dG1-Cn7NTedILR3hRVgcN&index=3 5. Guided Transmission Media https://www.youtube.com/watch?v=y7v3EAJsWXA&list=PLUtfVcb-iqn8dG1-Cn7NTedILR3hRVgcN&index=5 6. Unguided Transmission Media https://www.youtube.com/watch?v=hKq1tYIVxdQ&list=PLUtfVcb-iqn8dG1-Cn7NTedILR3hRVgcN&index=6 7. Computer Networking https://www.tutorialspoint.com/data_communication_computer_network/index.htm 	
Part D: Assessment and Evaluation	
Maximum Marks: 50	

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Date: 03.06.2022

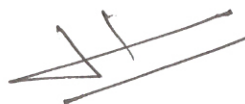
Part A: Introduction			
Program: Degree Course		Class: B.Sc.-CS III Year	Year: 2022
		Session: 2022-2023	
1.	Course Code	COMP-6T	
2.	Course Title	Relational Database Management System	
3.	Course Type	Theory	
4.	Pre-requisite (if any)	No	
5.	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> • Learn about Database Concepts, Architecture, various Users, Data Models and Data Management which helps them to interact with various Databases. • Develop various Tables and Databases which helps them to develop new Software. • Practice various SQL commands which help them to generate new relationships among various Tables and Databases which are useful for Software Development. • Familiar about RDBMS Software like Oracle and SQL Server which are used as Backend for Software Development. • Develop new Databases for their Minor and Major Project Development which enhances their Data Storage, Data Accessibility and Data Management. 	
6.	Credit Value	Theory : 4	
7.	Total Marks	Max Marks: 50	Min Passing Marks : 17

Part B: Content of the Course		
Total Periods: 60		
Unit	Topics	No. of Periods
I	Overview of Database Management: Data, Information and Knowledge, Data Processing versus Data Management, File Oriented Approach versus Database Oriented Approach, Data Independence, Database Administration Roles, Overview of Database, DBMS Architecture, Different kinds of DBMS users, Introduction to Data Dictionary. Data Models: Network Model, Relational Model, Hierarchical Model. Database Languages: DDL, DML, DCL, And TCL. Structured Query Language: Basic Data Types, Commands : Create, Insert, Select, Delete, Truncate , Drop, Alter, Grant ,Revoke, Commit, Rollback, Queries on Multiple Relation, Join Operation, String Operation, Set Operation, Grouping, Nested Subqueries.	12
II	Concepts of Database Management System : Definition of Tables, Cardinality relationships in a Database, Constraints in a Database, Entity, Attributes, Strong and weak entities, ER-Diagram, Symbols and Implementation, Concept of keys: Candidate key, Primary key, Alternate key, Foreign key, Case studies of ER modeling Generalization, Specialization and Aggregation. Converting an ER model into relational Schema. Extended ER features.	12
III	Relational Database Design: Normalization concept in logical model, Pitfalls in database design, Functional dependencies, Join dependencies, Natural Join, Normal forms (1NF, 2NF, 3NF). Boyce Codd Normal form, Decomposition, Multi-Valued Dependencies, 4NF, 5NF. Issues in physical design: Concepts of indexes, File organization for relational tables, De-normalization. Relational Database: Structure of Relational Database, Schema, Relational Operation:	12



	Database: Structure of Relational Database, Schema, Relational Operation: Selection, Projection, Cartesian Production, Union, Intersection and Minus operation. Relational Algebra: Select operation, Project operation, Union operation, Cartesian Product operation, Intersection operation, Join operation, Different types of joins (Inner join, Outer join, Self join).	
IV.	SQL Server Basics: Microsoft SQL Server 2019, Overview of SQL Server 2019, Versions of SQL Server, Installation of SQL Server 2019, SQL Server Management Studio(SSMS), Azure Data Studio(ADS), Features of SQL Server Express, SQL Server Support Life Cycle, Data Definition Language (DDL) Commands, Data Manipulation Language (DML) Commands, Data Control Language (DML) Commands, Transaction Control Language (TCL) Commands, Data Constraints, Stored Procedure, Function .	12
V.	Oracle Basics: Oracle Corporation, Versions of Oracle, Oracle Products, Oracle Installation, Oracle Client and Server Products, Online Transaction Processing, Hybrid cloud Installation, Data Definition Language (DDL) Commands, Data Manipulation Language (DML) Commands, Data Control Language (DML) Commands, Transaction Control Language (TCL) Commands, Data Constraints, Introduction to PL/SQL Programming, Data Types, Looping Statements, Cursors, Stored Procedure, Function .	12
Keywords: Data Models, Keys, SQL Commands, DBMS, RDBMS, Oracle, SQL Server.		

Part C - Learning Resources	
Text Books, Reference Books, Other Resources	
<p>Suggested Readings:</p> <ol style="list-style-type: none"> 1. Database system concept, H. Korth and A. Silberschatz, TMH Publications. 2. Data Base Management System, Alexies & Mathews, Vikash publication. 3. Data Base Management System, C. J. Date ,Narosha Publication. 4. Data Base Management System By James Matin. 5. Principles of Database System By Ullman. 6. Program Design, Peter Juliff, PHI Publications. 7. The Complete Reference, Kevin Loney, Oracle Press. 8. SQL, PL/SQL The Programming Language of Oracle, Ivan Bayross , PustakKosh Publication. 9. Microsoft SQL Server Management and Administration, Ross, STM Publications. <p>E Resources:</p> <ol style="list-style-type: none"> 1. SWAYAM URL link for DBMS and RDBMS: https://youtu.be/f6LGtJutWyA 2. SWAYAM URL link for DBMS and RDBM: https://youtu.be/IoL9Ve2SRwQ 3. SWAYAM URL link for DBMS and RDBMS: https://swayam.gov.in/courses/4434-data-base-management-system. 4. Introduction of DBMS: https://onlinecourses.swayam2.ac.in/cec19_cs05/preview 5. Introduction of RDBMS: https://onlinecourses.nptel.ac.in/noc19_cs46/preview 6. DMBS Contents from W3SHOOL: https://www.w3schools.in/dbms/intro 7. Data independence from W3SHOOL: https://www.w3schools.in/dbms/data-independence 8. Generalization and Aggregation: https://www.w3schools.in/dbms/generalization-aggregation 9. DMBS Contents from Javatpoint: https://www.javatpoint.com/dbms-tutorial 	

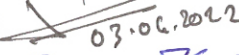
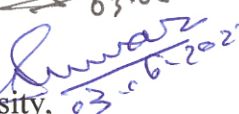
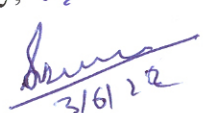


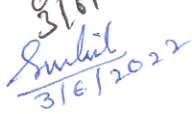

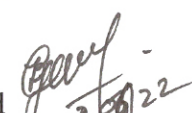
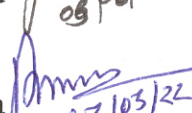
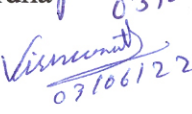
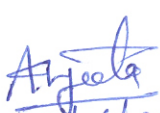
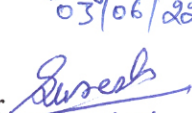


Part D: Assessment and Evaluation

Maximum Marks: 50

Declaration

The syllabus of this subject is frame as per the TOR of department of higher education, Chhattisgarh.

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03.06.2022 |
| 2. Dr. Sanjay Kumar
Prof. and Head, SoS in Computer Science, Pt. Ravishankar Shukla University, Raipur | - | Member | 
03.06.2022 |
| 3. Mr. Jitendra Kumar
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Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur | - | Member | 
31/6/22 |
| 4. Mr. H.S.P. Tonde
Asst. Prof. and Head, Dept. of Computer Science,
Sant Gahira Guru University Sarguja, Ambikapur | - | Member | 
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| 5. Dr. Mamta Singh
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| 12. Mr. Suresh Kumar Thakur
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03/06/22 |
| 13. Dr. Ugrasen Suman
Prof. and Head, Dept. of Computer Science
Devi Ahila Vishwavidyalaya, Indore | - | Member
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Date: 03-06-2022