Marathwada Shikshan Prasarak Mandal's

Sunderrao Solanke Mahavidyalaya, Majalgaon

INTERNAL QUALITY ASSURANCE CELL

Criterion1- Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including academic calendar and conduct of continuous internal assessment

Curricular Planning and Implementation
Part B-Computer Science Individual Level

INDEX

Curricular Planning and Implementation Part B-Computer Science

Sr. No.	Name of Faculty	Subject
1	Mr. J. S. Chaus	Computer Science
2	Mr. V. B. Solanke	Computer Science
3	Mr. S. D. Swami	Computer Science
4	Smt. R. D. Jawkar	Computer Science

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Department of Computer Science

Time Table of BSc(Optional) F.Y./S.Y/.T.Y - 2021-22

Time / Day	8.15 To 10.30 (Practical)	12.30 to 1.20	2.10 to 3.00
Monday	B.Sc. S.Y. (Practical)	--	Adv Data Structure(B.Sc.S.Y.)
Tuesday	--	--	Adv Data Structure(B.Sc.S.Y.)
Wednesday	--	--	Adv Data Structure(B.Sc.S.Y.)
Thursday	--	Comp.Fund. (B.Sc F.Y.)	
Friday	B.Sc. F.Y. (Practical)	Comp.Fund. (B.Sc F.Y.)	
Saturday	B.Sc. F.Y. (Practical)	Comp.Fund. (B.Sc F.Y.)	

Theory	Practical	Total
02X03=06	03x03=09	15

Chaus Javed Sayeed

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Department of Computer Science

Time Table of BCS F.Y./S.Y/.T.Y- 2021-22

Time / Day	10.00 to 10.50	11.40 to 12.30	1.20 to 3.45 (Practical)
Monday	Unix OS (BCS SY)	--	
Tuesday	Unix OS (BCS SY)	--	
Wednesday	Unix OS (BCS SY)	--	BCS S.Y. (Practical)
Thursday	--	C Prog. (BCS F.Y.)	BCS F.Y. (Practical)
Friday	--	C Prog. (BCS F.Y.)	BCS F.Y. (Practical)
Saturday	--	C Prog. (BCS F.Y.)	

Theory	Practical	Total
02X03=06	03x03=09	15

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Department of Computer Science
Time Table of B.C.A F.Y./S.Y/.T.Y - 2021-22

Time / Day	10.00 to 10.50	11.40 to 12.30	1.20 to 3.45 (Practical)
Monday	Unix OS (BCA SY)	--	
Tuesday	Unix OS (BCA SY)	--	
Wednesday	Unix OS (BCA SY)	--	BCA S.Y. (Practical)
Thursday	--	C Prog. (BCA F.Y.)	BCA F.Y. (Practical)
Friday	--	C Prog. (BCA F.Y.)	BCA F.Y. (Practical)
Saturday	--	C Prog. (BCA F.Y.)	

Theory	Practical	Total
02X03=06	03x03=09	15

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SUNDERRAO SOLANKE COLLEGE MAJALGAON

ANNAUAL TEACHING PLAN

Name: Chaus Javed Sayeed   **Subject: Computer Fundamentals (CS101)**   **Year: 2021-2022**

Sr. No.	Subject/ Paper	November	December	January	February
1	**Semester : Ist** B.Sc.(Optional) ISt year Paper **Computer Fundamentals** (Code:-CS101)	**Unit-I** **1. Fundamentals of Computer System** • Characteristics & features of Computers. • Components of Computers. • Organization of Computer. **2. Algorithm and Flowcharts** ☐Algorithm : Definition , Characteristics , Advantages and disadvantages , Examples • Flowchart : Definition , Define symbols of flowchart , Advantages and disadvantages , Examples **3. Computer Generation & Classification** • Generation of Computers : First to Fifth • Classification of Computers : Distributed & Parallel computers	**Unit-II** **4. Computer Languages** • Types of Programming Languages : Machine Languages , Assembly Languages, High Level Languages • Assembler, Linker, Loader, Interpreter & Compiler. **5. Computer Memory** • Memory Cell & Organization • Types of Memory (Primary And Secondary) : RAM , ROM , PROM , EPROM	o Secondary Storage Devices (FD, CD, HD, Pendrive, DVD, Tape Drive, DAT) **6. I/O Devices** • Input Devices : Touch screen , OMR, OBR , OCR, Light pen ,Scanners • Output Devices: Digitizers, Plotters, LCD, Plasma Display, Printers	**Unit – III** **7. Processor** • Structure of Instruction , Description of Processor , Processor Features • RISC & CISC **8. Operating system Concepts** • Why Operating System?, Functions of Operating System , Booting of OS & it's type • Types of Operating System : Batch O.S. , Multiprogramming O.S., Time Sharing O.S ,

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ANNAUAL TEACHING PLAN

Name: **Chaus Javeed Sayeed**   Subject: Programming in C   CS202   Year: 2021-2022

Sr. No.	Subject/ Paper	November	December	January	February
1	Semester : I st B.Sc.(Optional) Paper Code: CS202 Programming in C	1. Introduction ☐ An Overview of C , History of C language, ☐ C as a Structured Language, Features of C. 2. Basic Elements & Operators ☐ Character set, C Token, Identifier & Keywords, Variables ☐ Constant and its types. Integer constant, floating point constant, character constant, string constants. ☐ Operators: Arithmetic, Relational, Logical, Unary operators: Increment & decrement Assignment and Conditional operator. ☐ Precedence & Associatively of Operators	3. Data Types ☐ Data Types: int, char, float, double. Declaration & Initialization. ☐ Type modifier: long, short, signed & Unsigned 4. C Program & I/O statements 2/4, 2/3, 1/1 ☐ Structure of C Program, Compilation & Execution of C program ☐ I/O: Introduction, Formatted Input/Output function: scanf & printf, Escape sequence characters	☐ Library functions: General & Maths. 5. Control and Iterative Statements : 2/5, /6, 1/3, 1/4 ☐ Simple if, nested if, if-else, else if ladder ☐ Switch-case statement ☐ The conditional expression (? : operator) ☐ while and do-while loop, and for loop ☐ break & continue statement, goto statement	6. Arrays: ☐ Introduction, Declaration and initialization Accessing array elements, Memory representation of array. ☐ One dimension and multidimensional arrays, character array, Introduction to string. Core Reference: 1.

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ANNAUAL TEACHING PLAN

Name: **Chaus Javeed Sayeed**   Subject: **Programming in C**   CS304AT   Year: 2019-2020

Sr. No.	Subject/ Paper	August	September	October	November
1	Semester : I st B.Sc.(C.S.) Paper Code: CS304AT Programming in C	UNIT – 15 1. Introduction □ An Overview of C , History of C language, □ C as a Structured Language, Features of C. 2. Basic Elements & Operators □ Character set, C Token, Identifier & Keywords, Variables □ Constant and its types. Integer constant, floating point constant, character constant, string constants. □ Operators: Arithmetic, Relational, Logical, Unary operators: Increment & decrement Assignment and Conditional operator. □ Precedence & Associatively of Operators	3. Data Types □ Data Types: int, char, float, double. Declaration & Initialization. □ Type modifier: long, short, signed & Unsigned UNIT – II 15 4. C Program & I/O statements 2/4, 2/3, 1/1 □ Structure of C Program, Compilation & Execution of C program □ I/O: Introduction, Formatted Input/Output function: scanf & printf, Escape sequence characters	□ Library functions: General & Maths. 5. Control and Iterative Statements : 2/5, /6, 1/3, 1/4 □ Simple if, nested if, if-else, else if ladder □ Switch-case statement □ The conditional expression (? : operator) □ while and do-while loop, and for loop □ break & continue statement, goto statement	UNIT – III 15 6. Arrays: □ Introduction, Declaration and initialization Accessing array elements, Memory representation of array. □ One dimension and multidimensional arrays, character array, Introduction to string. Core Reference: 1.

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ANNAUAL TEACHING PLAN

Name: **Chaus Javeed Sayeed** Subject: Advance Programming in C CS304BT Year: 2020-2021

Sr. No.	Subject/ Paper	November	December	January	February
1	Semester II B.Sc.(C.S.) Advance Programming in C	UNIT – I 15 1 Functions 2/9, 1/5, 3 ☐ Introduction, types of functions. Defining functions, Arguments, Function prototype, actual parameters and formal parameters, Calling function, Returning function results, Call by value, Recursion. 2. Structure & Union 2/10, 1/10, ☐ Structure: Introduction, Declaration and initializing structure, Accessing structure members, Nested structures, Arrays of structure, typedef statement. ☐ Unions: Declaration, Difference between structure and union	UNIT - II 15 3. Pointers: ☐ Introduction, Memory organization. Declaration and initialization of pointers. The pointer operator * and &, De-referencing, Pointer expression and pointer arithmetic, Pointer to pointer. 4. Storage Class & Library Functions: 2 ☐ Storage classes, Scope, visibility and lifetime of variable, block and file scope, auto, extern, static and register storage classes. ☐ String handling functions: strcpy(), strcmp(), strcat(), strlen(), strupr(), strlwr(), gets(), puts() ☐ Data conversion functions from stdlib.h: atoi(), atol(), atof(), itoa(), ltoa(), random(), calloc(),malloc(),exit(), abs(), toupper(), tolower() 5. Preprocessor Directives: .	☐ File inclusion and conditional compiler directives, Macro substitution, #define, #if, #ifdef, #else, #elif, #endif, 6. Miscellaneous Features: ☐ Bitwise Operators: Introduction, Masking, Internal representation of data, Bit fields, Enumerated data types, Type casting. UNIT - III 15 7. File Handling ☐ File handling: Introduction, Opening & closing a file, Input/Output operations on files, text and binary files, getc(), putc() function. File copy	program, fprintf() and fscanf(). fread() and fwrite() function. Writing and reading records from binary file, Appending, modifying and deleting a record from file, random access functions fseek(), rewind(), flushall(), remove(), rename(). Command line arguments: use of argc and argv.. Graphics in C Introduction: initgraph() and detectgraph() function, Drawing object in C, Line,Circle, Rectangle, Ellipse,Changing foreround

Biodata Format

Name of Institute:

Full Name	CHAUS JAVED SAYEED
Name of Post	Assistant Professor
Subject	Computer science
Specialisation	Computer science
Caste Category Appointed From	Muslim (Open)
UG/ PG Teacher	**UG**
Address & Contact Details	Sunderrao Solanke Mahavidyalaya , Majalgaon Dist.Beed -431131 Mobile No : 9423757327 Email:chaus_javed@yahoo.co.in

Gender	Male	Date of Birth : 16/06/1973	
Mother tongue	Urdu	Knowledge of Marathi: Hindi,English	Specially Abled: No

:: Caste Category of Candidate

Category : Open

Cast : Muslim

:: Educational Qualification (Start from Ph.D/PDF to SSC) M.Sc.

Name of Exam	Board/University	Passing Mon-Year	Stream/Subject	Obtained/ Total Marks	% or Grade Point
SSC	Aurangabad	March-1989	Marathi,Eng,Science,Math	471	67.28%
HSC	Aurangabad	March-1991	Science	300	50%
B.Sc.	Dr.BAMU Aurangabad	M/A-1994	Science	348	58%
M.Sc.	Dr.BAMU Aurangabad	M/A-1998	Computer Science	678	56.5%

:: Work Experience

Name of Employer	Type of Service	Designation	Nature of Post	From-To	Pay scale	Approval date
J.S.Chaus		Assistant Professor	CHB	1999-2023	Fix pay	

:: Research Papers/ Conference Proceedings: Nil

Type of Journal	Title with Page No.	Journal Details	Published year	Sole/ Co-Author	Peer Review/Impact Factor	API Score

:: Paper Presented in Conference/Workshop/Symposium :Nil

Title of Paper	Type of Conf./Workshop/Symposium	Details of Conf./Workshop/Symposium	Organiser Details	Proceedings Published?	Sole/ Co-author	API Score

:: Research Publications- Books, Chapters, Articles etc. : Nil

Publication Type	Title of Book	Publisher Details	Book ISSN/ISBN	Published Year	Sole/ Co-author	API Score

:: Details of Research Students guided for M.Phil./Ph.D. : Nil

Student Name	Degree	Registration	Award of Degree	Branch/Title	Degree

		Date			Status

:: Details of Research Schemes/ Projects/ Consultancies undertaken : Nil

Project Name	Funding Agency	Fund Mobilised	Commencement Date	Completion Date	Worked as	API Score

CATEGORY I: TEACHING, LEARNING & EVALUATION RELATED ACTIVITIES

:: 1. Details of Lectures, Seminars, Tutorials, Practicals, Contact Hrs

Course/Paper	UG/ PG Level	Teaching Mode	Hours per week allotted	% of classes taken
B.Sc. (Optional)	UG	ICT,Oral ,PPT	12 hours	100 %
B.Sc.(C.S.)	UG	ICT,Oral,PPT	12 hours	100%
B.C.A. (Science)	UG	ICT,Oral,PPT	12 hours	100%

API Score for Classes taken (Max Score 50 for 100% performance & proportionate score) up to 80% performance; below which no score may be given)	
2. API Score for Teaching load in excess of UGC norm (Max Score: 10)	

3. Reading/ Instructional Material consulted/ additional knowledge resources provided to students:

Course/Paper	Consulted	Prescribed	Additional Resources Provided

API Score based on preparation & imparting knowledge/ instruction as per curriculum & syllabus enrichment by providing additional resources to students (Max Score:20)	
4. Use of Participatory & Innovative Teaching-Learning methodologies, updating of subject content, course improvement etc.	
API Score (Max Score:20)	

5. Examination Duties Assigned and Performed (invigilation; question paper setting, evaluation/ assessment of answer scripts) as per allotment:

Type of Examination Duties	Duties Assigned	Extent to which carried out (%)	API Score

CATEGORY II: CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES	
1. Student related co-curricular, extension & field based activities (such as extension work through NSS/NCC & other channels, cultural activities, subject related events, advisement & counseling) API Score (Max Score:20)	--
2. Contribution to Corporate life & management of the department & institution through participation in academic & administrative committiees & responsibilities API Score (Max Score:20)	---
3. Professional Development Activities (such as participation in seminars, conferences, short term, training courses, talks, lectures, membership of associations, dissemination & general articles, not covered above) API Score (Max Score:15)	--
Training Courses, Teaching, Learning Evaluation	

participation in seminars, conferences, short term, training courses, talks, lectures, membership of associations, dissemination & general articles, not covered above) **API Score (Max Score:15)**	
Training Courses, Teaching, Learning Evaluation Technology Programmes, Faculty Development Programmes (Not less than one week duration) **API Score**	--
Invited lectures or presentations for conferences/symposia	
Design of new course & curriculum	
Particulars of current research work at personal level	
Co-curricular & extra-curricular activities	
Consultancy work carried out	
Patents & IPR Details:	
Any other information you wish to specify	

Teaching Methods

Sr.No.	Short Description
1	Chalk & Black board Method
2	Practical Demonstration Method
3	Lectures & Seminars

	Teaching Aids
Sr.No.	**Short Description**
1	Models used for Teaching
2	ICT based teaching like PPT with help of Computer
3	Laboratory Practicals
4	Printed study materials & notes
5	Provided study material on WhatsApp Groups

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Department of Computer Science

Time Table of B.Sc(Optional) F.Y./S.Y/.T.Y-2021-22

Time / Day	8.15 To 10.30 (Practical)	12.30 to 1.20	2.10 to 3.00	3..00 to 5.30
Monday	--		Web Designing (B.Sc.T.Y.)	B.Sc.T.Y (Practical)
Tuesday	--		Web Designing (B.Sc.T.Y.)	--
Wednesday	--		Web Designing (B.Sc.T.Y.)	--
Thursday	--	Digital Electronics F.Y.	--	--
Friday	B.Sc. F.Y. (Practical)	Digital Electronics F.Y.	--	--
Saturday	B.Sc. F.Y. (Practical)	Digital Electronics F.Y.	--	--

Theory	Practical	Total
02X03=06	03x03=09	15

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Department of Computer Science

Time Table of BCS F.Y./S.Y/.T.Y - 2021-22

Time Day	10.00 to 10.50 (F.Y.)	12.30 to 1.20	1.20 to 3.45 (Practical)
Monday	--	Digital Electronics (B.Sc F.Y.)	--
Tuesday	--	Digital Electronics (B.Sc F.Y.)	--
Wednesday	--	Digital Electronics (B.Sc F.Y.)	--
Thursday	DBMS (BCS SY)		BCS F.Y. (Practical)
Friday	DBMS (BCS SY)		BCS S.Y. (Practical)
Saturday	DBMS (BCS SY)		BCS F.Y. (Practical)

Theory	Practical	Total
02X03=06	03x03=09	15

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Department of Computer Science

Time Table of B.C.A F.Y./S.Y/.T.Y - 2021-22

Time / Day	10.00 to 10.50 (F.Y.)	12.30 to 1.20	1.20 to 3.45 (Practical)
Monday	--	Digital Electronics (B.Sc F.Y.)	--
Tuesday	--	Digital Electronics (B.Sc F.Y.)	--
Wednesday	--	Digital Electronics (B.Sc F.Y.)	--
Thursday	DBMS (BCA SY)		BCA F.Y. (Practical)
Friday	DBMS (BCA SY)		BCA S.Y. (Practical)
Saturday	DBMS (BCA SY)		BCA F.Y. (Practical)

Theory	Practical	Total
02X03=06	03x03=09	15

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SUNDERRAO SOLANKE MAHAVIDYALAYA MAJALGAON

ANNUAL TEACHING PLAN

Name: **Solanke Vikas Balasaheb**   Subject: DIGITAL ELECTORINICS (Code:-CS02)   Year: 2021-22

Sr. No.	Subject/Paper	Jully	August	September	October
1	**Semester : Ist** Semster B. Sc. Ist year Paper DIGITAL ELECTORINICS (Code:-CS02)	Number Systems and Arithmetic Decimal Number System & Binary Number System Decimal to Binary conversion (Double-dabble method only) Binary to Decimal Conversion Binary Arithmetic : Binary addition, subtraction, multiplication & division Hexadecimal number system , Hexadecimal to binary, binary to Hexadecimal, Hexadecimal to decimal conversion	Number Systems and Arithmetic Decimal Number System & Binary Number System Decimal to Binary conversion (Double-dabble method only) Binary to Decimal Conversion Binary Arithmetic : Binary addition, subtraction, multiplication & division Hexadecimal number system , Hexadecimal to binary, binary to Hexadecimal, Hexadecimal to decimal conversion Hexadecimal arithmetic: Addition, subtraction, multiplication & division Binary subtraction using 1' complement, 2's complement method 2 Boolean Algebra and Logic Gates Postulates of Boolean Algebra Theorems of Boolean Algebra: Complementation , commutative, AND, OR, Associative, Distributive, Absorption laws , De Morgan's theorems Reducing Boolean expressions Logic Gates : AND, OR, NOT, Ex-OR, Ex-NOR NAND as Universal building block	3 Minimization Techniques Introduction , Minterms and Maxterms K-Map, K-map for 2 variables K-map for 3 variables K-map for 4 variables 4 Combinational and Arithmetic Logic Circuits Half Adder & Full Adder Binary parallel Adder Half Subtractor, Full Subtractor Adder/Subtractor in 2's complement system BCD to Decimal decoder 2 : 4 demultiplexer 4 line to 1 line multiplexer 5 Flip Flops Introduction : RS FF Clocked RS FF, D FF Triggering, preset and clear JK FF , T FF , Race around condition Master slave FF	6 Counters Introduction : Asynchronous/ ripple counter Modulus Counter , MOD-12 counter Synchronous counter : Synchronous serial & synch parallel counter BCD counter Ring counter Johnson counter 7 Shift Registers Introduction, Buffer register Serial- in serial –out, Serial-in parallel-out, Parallel-in serial-out, parallel-in parallel-out

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ANNAUAL TEACHING PLAN

Name: **Solanke Vikas Balasaheb**　　　　Subject: Operating System (Code:-CS04)　　　　Year: 2021-22

Sr. No.	Subject/Paper	December	January	February	March
1	**Semester : IInd** Semster B. Sc. Ist year Paper Operating System (Code:-CS04)	I Introduction to Software: • Software: Definition, classification and components of software, operating system as the main component of system software; II Operating System Fundamental • Operating Systems: OS as a resource manager, Structure of OS, OS functions, Characteristics of modern OS. • Types of O.S.: Early systems, simple batch systems, multiprogrammed batch systems, Time sharing system, Personal Computer systems, Parallel systems, Distributed systems, Real time systems • OS Structures: Components of OS: Process management, Memory management, Storage management, File management, I/O management.	III Process Management • Concept of Process: Process State, Operation on Processes, thread. • CPU Scheduling: Types of Schedulers, Criteria for scheduling, Scheduling Algorithms. • Process Synchronization: Need for synchronization, Critical Section, Hardware Synchronization, Semaphores, Monitors, Problem of synchronization. • Deadlocks: Concept of Deadlock, Deadlock Modeling, Methods for Handling Deadlock	Storage Management • Memory Management: Address Binding, Logical vs. Physical Address space, Memory Allocation, Paging, Segmentation, Segmentation and paging of Intel Pentium. • Virtual Memory: Demand Paging, Page replacement Algorithms (FIFO, Optimal, LRU), Virtual Memory in windows Xp. • File System Interface: Files, File Access, Directory Structure, Protection • Implementation of File System: Allocation Methods, Free space Management	I/O System • I/O System Components : I/O Devices , I/O Hardware , Application I/O interface • Secondary Storage Structure : Disk fundamental, Disk Scheduling , Disk Management

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SUNDERRAO SOLANKE MAHAVIDYALAYA MAJALGAON

ANNUAL TEACHING PLAN

Name: **Solanke Vikas Balasaheb**   Subject: Software Engineering   Year: 2021-2022

Sr.No.	Paper/Class		November	December	January
1	Semester : V B.Sc.Third Year Paper No.: CSO15 Paper title: Software Engineering		Unit:-I **Software and Software Engineering** What is Software, Characteristics of software, categories of Software, attributes of WebApps, software Engineering, Software Process, Essence Software Engineering Practice, General Principles, Software Myths	Unit –II **Software Process and Process Models** Software process Model Process Flow, Process Models, Waterfall model, Incremental Process Model, Evolutionary Process Models, Concurrent Models, Specialized Process Models, The Unified Process, Personal and Team Process Models, Product and Process **Agile** Introduction to Agility, Agility and the Cost of Change, Agile Process, Agility Principles, Human Factors, Extreme Programming (XP), XP Values, XP Process, Industrial, Critics of XP	Unit –III **Principles That Guide Practice** Principles That Guide Process, Principles That Guide Practice, Communication Principles, Planning Principles, Modeling Principles, Construction Principles, Deployment Principles

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ANNAUAL TEACHING PLAN

Name: **Solanke Vikas Balasaheb**   Subject: Database Management System (CS305-T)   Year: 2021-2022

Sr. No.	Subject/ Paper	Jully	August	September	October
1	B.C.S.Second Year III Sem. Paper No :-CS305-T Database Management System		**Unit – I: Basic Concept** • Data Definition, Types of Data, Record and File, File based System & Processing • Database System Application, Purpose of Database System • Abstraction & Data Integration • Three level Architecture proposal for a DBMS. • Component of a DBMS: Users, Facilities &Structure. • Advantageous & Disadvantageous of DBMS. **Data Modeling & Design** • Data Association – Entities , Attributes & Association, Relationship among Entities, Representation of Association & Relationships • Data Model: Importance of Data Model, Types of Data Model: Relational, ER, Semi-structured, Object-Oriented, Network & Hierarchical Data Model. Advantageous & Disadvantageous of above model.	**Unit – II: Entity-Relationship Data Model** • Entity , Entity Set, Types of Entities, Strong & Weak Entity, Representation • Attribute, Types of Attributes , Representation • Relationship : Binary & Ternary , Representation • Mapping Cardinality, Entity-Relationship Design Issues **Relational Data Model** • Basic Structure of Relational Data Model, Database Schema • Constraints : Integrity Rule 1 & 2 • Normal Form: Anomalies, Functional Dependency, Dependency Diagram, First Normal Form, Second Normal Form, Third Normal Form, Conversion from Universal to 1 NF, 1NF to 2 NF and 2NF to 3NF. UNIT TEST	**Unit – III:Relational Algebra** • Basic Operation – Union , Intersection, Difference and Cartesian Product • Advance Operation- Projection, Selection, Join (Inner and Outer) & Division • Examples based on above Operation. • Relation Algebraic Queries. **Introduction to Oracle** • Oracle Software : Versions of Oracles, Products of Oracle, Tools of Oracle • SQL: Logging to SQL/ iSQL, SQL plus worksheet.

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ANNAUAL TEACHING PLAN

Name: **SolankeVikas Balasaheb**   Subject: Advance Database Management System (CS405-T)   Year: 2020-21

Sr. No.	Subject/Paper		March	April	May	June
2	**Semester : IVth B.Sc(Computer Science)IIIrd yearPaper Adv.Database Management System (Code:-CS405-T)**		Introduction to Syllabus **Structured Query Language: SQL:** Characteristics of SQL, Advantage of SQL, SQL data types and literals. Types of SQL commands. SQL operators and their procedure. Tables, views and indexes. Queries and sub queries. Aggregate functions. Insert, update and delete operations. Joins, Unions, Intersection, Minus, Cursors in SQL.	**Transaction Management :Transactions Processing** Transaction Concept ,Transaction State ,Implementation of Atomicity and durability ,Concurrent Executions ,Serializabilty ,Recoverability ,Implementation of isolation , Testing for Serialization	**Concurrency Control Techniques :**Lock-Based Protocols ,Timestamp-Based Protocols ,Deadlock Handling. **Database System Architecture & Data Storage: Database System Architecture:** Centralized and Client-Server Architecture ,Server System Architecture ,Parallel System ,Distributed Systems ,Network Types	**Data Storage :** Overview of Physical Storage Media ,Magnetic Disk ,RAID ,Tertiary Storage Storage Access

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SUNDERRAO SOLANKE MAHAVIDYALAYA MAJALGAON

ANNAUAL TEACHING PLAN

Name: **Solanke Vikas Balasaheb**   Subject: Database Management System (CA301T)   Year: 2021-22

Sr. No.	Subject/ Paper		September	October	November	December
Dece mber	**Semester : IIIrd** B.C.A. IInd year Paper Database Management System (CA301T)		Introduction to Syllabus **1 Introduction to Basic Concepts of DBMS :** Database System Application ,Purpose of Database System, Database Architecture : 3-Level architecture ,Database Users & Administrators Responsibilities ,Functional Components of Database system : Storage & Query Processor Transaction Management	**2 Data Modeling & Design** Type of Data Model : Relation Data Model ,E-R Data Model ,Object Based Data Model , Semi-Structured Data Model ,Hierarchical & Network Data Model E-R Data Model: Entity, Entity set, Entity types, Attributes, Types of Attributes, E-R diagram.	Mapping Cardinalities , Data Association Constraints : Integrity constraints I & II Database Design : Overview of Design Process, Designing Phase, Normalization(1NF,2NF, 3 NF)	**Relational Data Model** Basic Structure , Database Schema , Integrity Rules , E.F.Codds Rules Relational Algebra : Union , Intersection , Difference, Cartesian Product, Selection , Projection, Join : Natural & Outer Join, Division

M.S.P. Mandal's

SUNDERRAO SOLANKE MAHAVIDYALAYA MAJALGAON

ANNAUAL TEACHING PLAN

Name: **Solanke Vikas Balasaheb**   Subject: Adv. Database Management System (Code:-CA401T)   Year: 2021-22

Sr. No.	Subject/Paper		March	April	May	June
2	**Semester : IVth B.C.A. IInd year Paper Adv.Database Management System (Code:-CA401T)**		Introduction to Syllabus **Introduction to SQL :SQL** Environment **Data Definition Language :** Naming Rules and Conventions, Data types, Constraints, Creating Table, Displaying Table Information, Altering an Existing Table, Dropping a Table, Renaming a Table	**Data Management and Retrieval: Data** Manipulation Language : Adding a New rows/records, Updating Existing records, Deleting records, Retrieving Data from a Table,Working with Tables: Function & Grouping Multiple Tables : Joins and Set	Operators, Subqueries: Nested Queries Objects, Transactions and Data Control	PL/SQL: An **Introduction** PL/SQL: Syntax overview, block structure. Variables, program flow, procedures, functions, triggers, cursors

HEAD

Biodata Format

Name of Institute:

Full Name	Mr. SOLANKE VIKAS BALASAHEB	
Name of Post	Assistant Professor	
Subject	Computer Science	
Specialisation	Computer Science	
Caste Category Appointed From	Maratha (Open)	
UG/ PG Teacher	**UG**	
Address & Contact Details	Sunderrao Solanke Mahavidyalaya , Majalgaon Dist.Beed -431131 **Mobile No : 9922698909** **Email:vik.solanke@gmail.com**	
Gender	Male	Date of Birth : 23/05/1977
Mother tongue	Marathi	**Knowledge of:** Marathi Hindi, English **Specially Abled:** No

:: **Caste Category of Candidate**

Category : Open

Cast : Maratha

:: **Educational Qualification (Start from Ph.D/PDF to SSC):** M.Sc.B.Ed.

Name of Exam	Board/University	Passing Mon-Year	Stream/Subject	Obtained/ Total Marks	% or Grade Point
S.S.C.	Aurangabad	March -1992	Marathi,English,Science ,Math	**490/700**	70 %
H.S.C.	Aurangabad	March -1995	Science	**423/600**	70.50 %
B.Sc.	Dr.B.A.M.U.Aurangabad	M/A -1998	Science	**2220/3700**	60 %
M.Sc.	Dr.B.A.M.U.Aurangabad	M/A - 2001	Computer Science	**410/600**	64.16 %
B.Ed	University of Mumbai	April -2006	Science	**270/500**	54 %

:: **Work Experience**

Name of Employer	Type of Service	Designation	Nature of Post	From-To	Pay scale	Approval date
V.B.Solanke		Assistant Professor	CHB	2003-2022	Fix Pay	

:: **Research Papers/ Conference Proceedings**

Type of Journal	Title with Page No.	Journal Details	Published year	Sole/ Co-Author	Peer Review/Impact Factor	API Score
Nil						

:: **Paper Presented in Conference/Workshop/Symposium**

Title of Paper	Type of Conf./Workshop/Symposium	Details of Conf./Workshop/Symposium	Organiser Details	Proceedings Published?	Sole/ Co-author	API Score
	Nil					

:: **Research Publications- Books, Chapters, Articles etc. :** Nil

Publication	Title of Book	Publisher	Book ISSN/ISBN	Published	Sole/ Co-	API Score

Type		Details		Year	author	

:: Details of Research Students guided for M.Phil./Ph.D. : Nil

Student Name	Degree	Registration Date	Award of Degree	Branch/Title	Degree Status

:: Details of Research Schemes/ Projects/ Consultancies undertaken : Nil

Project Name	Funding Agency	Fund Mobilised	Commencement Date	Completion Date	Worked as	API Score

CATEGORY I: TEACHING, LEARNING & EVALUATION RELATED ACTIVITIES

:: 1. Details of Lectures, Seminars, Tutorials, Practicals, Contact Hrs

Course/Paper	UG/ PG Level	Teaching Mode	Hours per week allotted	% of classes taken
B.Sc. (Optional)	UG	ICT,Oral ,PPT	12 hours	100 %
B.Sc.(C.S.)	UG	ICT,Oral,PPT	12 hours	100%
B.C.A. (Science)	UG	ICT,Oral,PPT	12 hours	100%

API Score for Classes taken (Max Score 50 for 100% performance & proportionate score) up to 80% performance; below which no score may be given)	
2. API Score for Teaching load in excess of UGC norm (Max Score: 10)	

3. Reading/ Instructional Material consulted/ additional knowledge resources provided to students:

Course/Paper	Consulted	Prescribed	Additional Resources Provided
Nil			

API Score based on preparation & imparting knowledge/ instruction as per curriculum & syllabus enrichment by providing additional resources to students (Max Score:20)	
4. Use of Participatory & Innovative Teaching-Learning methodologies, updating of subject content, course improvement etc.	
API Score (Max Score:20)	

5. Examination Duties Assigned and Performed (invigilation; question paper setting, evaluation/ assessment of answer scripts) as per allotment:

Type of Examination Duties	Duties Assigned	Extent to which carried out (%)	API Score

CATEGORY II: CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES	
1. Student related co-curricular, extension & field based activities (such as extension work through NSS/NCC & other channels, cultural activities, subject related events, advisement & counseling) API Score (Max Score:20)	--
2. Contribution to Corporate life & management of the department & institution through participation in academic & administrative committees & responsibilities API Score (Max Score:20)	---
3. Professional Development Activities (such as participation in seminars, conferences, short	---

participation in seminars, conferences, short term, training courses, talks, lectures, membership of associations, dissemination & general articles, not covered above) **API Score (Max Score:15)**	
Training Courses, Teaching, Learning Evaluation Technology Programmes, Faculty Development Programmes (Not less than one week duration) **API Score**	--
Invited lectures or presentations for conferences/symposia	
Design of new course & curriculum	
Particulars of current research work at personal level	
Co-curricular & extra-curricular activities	
Consultancy work carried out	
Patents & IPR Details:	
Any other information you wish to specify	

Teaching Methods

Sr.No.	Short Description
1	Chalk & Black board Method
2	Practical Demonstration Method
3	Lectures & Seminars

Teaching Aids

Sr.No.	Short Description
1	Models used for Teaching
2	ICT based teaching like PPT with help of Computer
3	Laboratory Practicals
4	Printed study materials & notes
5	Provided study material on WhatsApp Groups

Solanke Vikas Balasaheb

M.S.P.Mandal's

Sunderrao Solanke Mahavidhyalya Majalgaon

Department of Computer Science

Time Table of BSc(optional) F.Y./S.Y/.T.Y/ - 2021-22

Time Day	8.15 To 10.30 (Practical)	2.10 to 3.00	3.00 to 5.20
Monday	B.Sc. S.Y. (Practical)	Adv DDBMS(B.Sc.S.Y.)	
Tuesday	--	Adv DDBMS(B.Sc.S.Y.)	B.Sc. T.Y. (Practical)
Wednesday	--	Adv DDBMS(B.Sc.S.Y.)	
Thursday	--	DCN (B.Sc.T.Y.)	
Friday		DCN (B.Sc.T.Y.)	
Saturday		DCN (B.Sc.T.Y.)	

Theory	Practical	Total
02X03=06	02x03=06	12

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Department Of Computer Science
Sunderrao Solanke Mahavidyalaya
Majalgaon Dist.Beed

Swami Siddhant Dayanand

PRINCIPAL
Sunderrao Solanke Mahavidyalya
Majalgaon Dist. Beed (M.S.)

M.S.P.Mandal's

Sunderrao Solanke Mahavidhyalya Majalgaon

Department of Computer Science

Time Table of BCS F.Y./S.Y/.T.Y/ - 2021-22

Time / Day	10.50 to 11.40	11.40 to 12.30	1.20 to 3.45 (Practical)
Monday	--	Basic of Net.	BCS S.Y. (Practical)
Tuesday	--	Basic of Net.	BCS F.Y. (Practical)
Wednesday	--	Basic of Net.	
Thursday	Computer Fundamental	--	
Friday	Computer Fundamental	--	
Saturday	Computer Fundamental	--	BCS/BCA F.Y. (Practical)

Theory	Practical	Total
02X03=06	03x03=09	15

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Department Of Computer Science
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Majalgaon Dist.Beed

Swami Siddhant Dayanand

PRINCIPAL
Sunderrao Solanke Mahavidyalya
Majalgaon Dist. Beed (M.S.)

M.S.P.Mandal's

Sunderrao Solanke Mahavidhyalya Majalgaon

Department of Computer Science

Time Table of B.C.A F.Y./S.Y/.T.Y/ - 2021-22

Time Day	10.50 to 11.40	11.40 to 12.30	1.20 to 3.45 (Practical)
Monday	--	Basic of Net.	BCA S.Y. (Practical)
Tuesday	--	Basic of Net.	BCA F.Y. (Practical)
Wednesday	--	Basic of Net.	
Thursday	Computer Fundamental	--	
Friday	Computer Fundamental	--	
Saturday	Computer Fundamental	--	BCA F.Y. (Practical)

Theory	Practical	Total
02X03=06	03x03=09	15

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Sunderrao Solanke Mahavidyalava
Majalgaon Dist.Beed

Swami Siddhant Dayanand

PRINCIPAL
Sunderrao Solanke Mahavidyalya
Majalgaon Dist. Beed (M.S.)

SUNDERRAO SOLANKE COLLEGE MAJALGAON

ANNAUAL TEACHING PLAN

Name: Swami S.D.   **Subject: Computer Fundamentals (CS111 T)**   **Year: 2021-2022**

Sr. No.	Subject/ Paper	November	December	January	February
1	**Semester : Iˢᵗ B.Sc.(C.S.) – I Seme) Computer Fundamentals (Code:-CS111T)**	**Unit-I** **1. Fundamentals of Computer System** • Characteristics & features of Computers. • Components of Computers. • Organization of Computer. Examples **3. Computer Generation & Classification** • Generation of Computers : First to Fifth • Classification of Computers : Distributed & Parallel computers	**Unit-II** **5. Computer Memory** • Memory Cell & Organization • Types of Memory (Primary And Secondary) : RAM , ROM , PROM , EPROM o Secondary Storage Devices (FD, CD, HD, Pendrive, DVD, Tape Drive, DAT) **6. I/O Devices** • Input Devices : Touch screen , OMR, OBR , OCR, Light pen ,Scanners • Output Devices: Digitizers, Plotters, LCD, Plasma Display, Printers	**Unit – III** **7. Processor** • Structure of Instruction , Description of Processor , Processor Features • RISC & CISC **8. Operating system Concepts** • Why Operating System?, Functions of Operating System , Booting of OS & it's type	• Types of Operating System : Batch O.S. , Multiprogramming O.S., Time Sharing O.S , Unit IV Interner ,world wide web Unit V Test And Tutorial

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SUNDERRAO SOLANKE COLLEGE MAJALGAON

ANNAUAL TEACHING PLAN

Name: Swami S.D.   Subject: Data Structure (CS201-T)   Year: 2021-22

Sr. No.	Subject/Paper	March	April	May	June
1	**Semester : IInd Sem B.Sc.(Computer Science) Ist year Data Structure (Code:- CS201-T))**	**Unit-I** 1. Introduction to Data Structure: • Introduction • Basic Terminology : Data item, Fields, Records, Files, Entity, Attributes • Data Organization and Data Structure 2. Arrays • Representation of Linear Arrays • Traversing, Insertion and Deletions • Sorting & Searching Algorithms • Multidimensional Arrays : 2D & M-D Concept • Record: Record Structures, Representation in Memory	**Unit-II** 3. Linked List • Concept of Linked List • Representation of linked List in memory • Traversing a linked list • Searching a linked list : sorted and unsorted • Insertion & Deletion in Linked List • Header Linked List & Two way List	**Unit-III** 4. Stacks, Queues , Recursion • Stack: Operation , Array Representation of Stack, linked representation of stack, Arithmetic Expression POLISH & POSTFIX,	• Application of stacks: Quicksort, Recursion. • Queue: Representation of queues & link. • Types of Queues : Deques & Priority Queues

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M.S.P. Mandal's

SUNDERRAO SOLANKE COLLEGE MAJALGAON

ANNAUAL TEACHING PLAN

Name: **Swami S.D.**   Subject: OBJECT ORIANTED PROGRAMMING USING C++:- CS304-T)   Year: 2021-2022

Sr. No.	Subject/ Paper	November	December	January	February
1	Semester : III rd B.Sc.(Computer Science) Ist year Paper I OBJECT ORIANTED PROGRAMMING USING C++ (Code:- CS304-T)	Unit I **1 Introduction of OOP** Procedural Vs Objecst Oriented Programming, Basic concepts of Object Oriented Programming, Class, Object, Data Abstraction, Encapsulation, Inheritance, Polymorphism, Dynamic Binding, Message Passing. Benefits and applications of OOP, History and overview of C++, C++ program structure. Reference variables, Scope resolution operator, Member de-referencing operators, new and delete, cin and cout, The endl and	setw manipulator **2 Functions in C++:** Function prototype, Call by reference (using reference variable), Return by reference, Inline function, Default arguments, Const arguments. Unit II **1 Function overloading:** Different numbers and different kinds of arguments, **2 Objects and Classes:** Specifying a class, private and public, Defining member functions, Nesting of member function, Object as data . types, Memory	allocation for objects, static data members and member functions Array of objects, Objects as function argument, returning objects, Friend function and its characteristics. Unit III **1 Constructors and Destructors:** Introduction, default and parameterized constructors, Multiple constructors in a class, Copy Constructor, Destructors operators	**2 Operator Overloading:** Overloading unary operators, Rules for operator overloading, Overloading without friend function and using friend function, operators, Concatenating Strings, Comparison operators Overloading binary operators such as arithmetic and relational

Biodata Format

Name of Institute:

Full Name	Mr.Swami Siddhant Dayanand
Name of Post	Assistant Professor
Subject	Computer Science
Specialisation	Computer Science
Caste Category Appointed From	Mahar(SC)
UG/ PG Teacher	**UG**
Address & Contact Details	Sunderrao Solanke Mahavidyalaya , Majalgaon Dist.Beed -431131 **Mobile No : 7972859024** **Email:siddhant.swami5@gmail.com**

Gender	Male	Date of Birth : 11/10/1991	
Mother tongue	Marathi	Knowledge of Marathi: Hindi,English	Specially Abled:

:: Caste Category of Candidate

Category : SC

Cast : Mahar

:: Educational Qualification (Start from Ph.D/PDF to SSC)

Name of Exam	Board/University	Passing Mon-Year	Stream/Subject	Obtained/Total Marks	% or Grade Point
SSC	State Board Pune	Jun-2006	Mar,Eng,Sci,Math	629/750	83.86
HSC	State Board Pune	Jun-2008	Phy,Chem,Bio,Math,Sanskruit	355/600	59.17
BCS	BAMUA	Oct-2012	Computer Science	2457/3000	81.9
MCA	Pune University	May-2016	Computer Application	1887/2600	61.9

:: Work Experience

Name of Employer	Type of Service	Designation	Nature of Post	From-To	Pay scale	Approval date
Swami Siddhant Dayanand		Assistant Professor	CHB	2018-2022	Fix Pay	

:: Research Papers/ Conference Proceedings Nil

Type of Journal	Title with Page No.	Journal Details	Published year	Sole/ Co-Author	Peer Review/Impact Factor	API Score

:: Paper Presented in Conference/Workshop/Symposium Nil

Title of Paper	Type of Conf./Workshop/Symposium	Details of Conf./Workshop/Symposium	Organiser Details	Proceedings Published?	Sole/ Co-author	API Score

:: Research Publications- Books, Chapters, Articles etc. Nil

Publication Type	Title of Book	Publisher Details	Book ISSN/ISBN	Published Year	Sole/ Co-author	API Score

:: Details of Research Students guided for M.Phil./Ph.D. Nil

Student Name	Degree	Registration	Award of Degree	Branch/Title	Degree

		Date			Status

:: Details of Research Schemes/ Projects/ Consultancies undertaken Nil

Project Name	Funding Agency	Fund Mobilised	Commencement Date	Completion Date	Worked as	API Score

CATEGORY I: TEACHING, LEARNING & EVALUATION RELATED ACTIVITIES

:: 1. Details of Lectures, Seminars, Tutorials, Practicals, Contact Hrs

Course/Paper	UG/ PG Level	Teaching Mode	Hours per week allotted	% of classes taken
B.Sc.(Optional)	UG	ICT/Oral/PPT	12hr	100
B.Sc.(Computer)	UG	ICT/Oral/PPT	12hr	100
BCA(Science)	UG	ICT/Oral/PPT	12hr	100

API Score for Classes taken (Max Score 50 for 100% performance & proportionate score) up to 80% performance; below which no score may be given)	
2. API Score for Teaching load in excess of UGC norm (Max Score: 10)	

3. Reading/ Instructional Material consulted/ additional knowledge resources provided to students:

Course/Paper	Consulted	Prescribed	Additional Resources Provided

API Score based on preparation & imparting knowledge/ instruction as per curriculum & syllabus enrichment by providing additional resources to students (Max Score:20)	
4. Use of Participatory & Innovative Teaching-Learning methodologies, updating of subject content, course improvement etc.	
API Score (Max Score:20)	

5. Examination Duties Assigned and Performed (invigilation; question paper setting, evaluation/ assessment of answer scripts) as per allotment:

Type of Examination Duties	Duties Assigned	Extent to which carried out (%)	API Score

CATEGORY II: CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES

1. Student related co-curricular, extension & field based activities (such as extension work through NSS/NCC & other channels, cultural activities, subject related events, advisement & counselling) *API Score (Max Score:20)*	
2. Contribution to Corporate life & management of the department & institution through participation in academic & administrative committees & responsibilities *API Score (Max Score:20)*	
3. Professional Development Activities (such as participation in seminars, conferences, short term, training courses, talks, lectures, membership of associations, dissemination & general articles, not covered above) *API Score (Max Score:15)*	
Training Courses, Teaching, Learning Evaluation	

participation in seminars, conferences, short term, training courses, talks, lectures, membership of associations, dissemination & general articles, not covered above) API Score (Max Score:15)	
Training Courses, Teaching, Learning Evaluation Technology Programmes, Faculty Development Programmes (Not less than one week duration) API Score	--
Invited lectures or presentations for conferences/symposia	
Design of new course & curriculum	
Particulars of current research work at personal level	
Co-curricular & extra-curricular activities	
Consultancy work carried out	
Patents & IPR Details:	
Any other information you wish to specify	

Teaching Methods

Sr.No.	Short Description
1	Chalk & Black board Method
2	Practical Demonstration Method
3	Lectures & Seminars

Teaching Aids

Sr.No.	Short Description
1	Models used for Teaching
2	ICT based teaching like PPT with help of Computer
3	Laboratory Practicals
4	Printed study materials & notes
5	Provided study material on WhatsApp Groups

Swami Siddhant Dayanand

Sunderrao Solanke Mahavidhyalya Majalgaon

Department of Computer Science

Time Table of BCS F.Y./S.Y/.T.Y - 2021-22

Time Day	09.10 to 10.00	10.50 to 10.11.40	11.40 to 12.30	1.20 to 3.45 (Practical)
Monday	C++	Microprocessor-I	PHP-I	--
Tuesday	C++	Microprocessor-I	PHP-I	BCS F.Y. (Practical)
Wednesday	C++	Microprocessor-I	PHP-I	BCS S.Y. (Practical)
Thursday	--	Core Java		BCS T.Y. (Practical)
Friday	--	Core Java		
Saturday	--	Core Java		

Theory	Practical	Total
04X03=12	03x03=09	21

HEAD
Department Of Computer Science
Sunderrao Solanke Mahavidyalaya
Majalgaon Dist.Beed

Jawkar Rutuja Deepak

PRINCIPAL
Sunderrao Solanke Mahavidyalaya
Majalgaon Dist. Beed (M.S.)

Sunderrao Solanke Mahavidhyalya Majalgaon

Department of Computer Science

Time Table of B.C.A F.Y./S.Y/.T.Y - 2021-22

Time Day	09.10 to 10.00	10.50 to 10.11.40	11.40 to 12.30	1.20 to 3.45 (Practical)
Monday	C++	Microprocessor-I	PHP-I	--
Tuesday	C++	Microprocessor-I	PHP-I	BCA F.Y. (Practical)
Wednesday	C++	Microprocessor-I	PHP-I	BCA S.Y. (Practical)
Thursday	--	Core Java		BCA T.Y. (Practical)
Friday	--	Core Java		
Saturday	--	Core Java		

Theory	Practical	Total
04X03=12	03x03=09	21

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Jawkar Rutuja Deepak

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M.S.P. Mandal's

SUNDERRAO SOLANKE MAHAVIDYALAYA MAJALGAON

ANNAUAL TEACHING PLAN

Name: **Jawakar Rutuja Deepak**   Subject: Microprocessor - I (CS103T)   Year: 2021-22

Sr. No.	Subject/ Paper		September	October	November	December
	B.Sc.(C.S.) I Seme.		**UNIT – I** **1. Introduction to Microprocessor and Microcomputer** • Historical background • Microprocessor based personal computer system • Computer data formats **2. 8086 Hardware specification** • Microcomputer structure and operation	• 8086 internal architecture, • Real Mode & Protected Mode Memory Addressing, Memory Paging. • Introduction to programming 8086 : Prog.lang. **UNIT – II** **3. Addressing Modes** • Data addressing modes • Program memory addressing modes • Stack memory addressing modes	**4. Data Movement Instructions (Inst.related with 8086 only)** • MOV revisited: Machine language,the op-code, MOD field, resister assignment,R/M memory addressing,special addr.mode	**UNIT – III** **5. Data Movement Instructions (..)** • PUSH/POP, initializing stack. • Miscellaneous data transfer instructions: XCHG, LAHF & SAHF **6. Arithmetic instructions** • Addition, subtraction and comparison • Multiplication and division • BCD and ASCII arithmetic

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Sunderrao Solanke Mahavidyalaya
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M.S.P. Mandal's

SUNDERRAO SOLANKE MAHAVIDYALAYA MAJALGAON

ANNAUAL TEACHING PLAN

Name: **Jawakar Rutuja D.**   Subject: Micro Processor – II   B.Sc.(C.S.) II Seme.)   Year: 2021-22

Subject/ Paper		January	February	March	April
B.Sc.(C.S.) II Seme.		**UNIT – I** **1. 8086 Microprocessor:** **Logic instructions** • Basic logic Instructions: AND, OR, Exclusive-OR, NOT, NEG • Shift and rotate **2. Program control Instructions** • The JUMP group Instruction: Conditional & Un-Conditional. • Procedures - CALL & RET • Controlling the Flow of an Assembly Language Program ☐ Loops - WHILE, REPEAT UNTIL • Machine Control & Miscellaneous Instruction : WAIT, NOP, HALT, LOCK, ESC, ENTER, BOUND, LEAVE **UNIT – I** **1. 8086 Microprocessor:** **Logic instructions** • Basic logic Instructions: AND, OR, Exclusive-OR,	NOT, NEG • Shift and rotate **2. Program control Instructions** • The JUMP group Instruction: Conditional & Un-Conditional. • Procedures - CALL & RET , LOCK, ESC, **2. Program control Instructions** • The JUMP group Instruction: Conditional & Un-Conditional. • Procedures - CALL & RET • Controlling the Flow of an Assembly Language Program ☐ Loops - WHILE, REPEAT UNTIL • Machine Control & Miscellaneous Instruction : WAIT, NOP, HALT, LOCK, ESC, ENTER, BOUND, LEAVE	**UNIT – II** **3. Programming the Microprocessor** • **String Procedure & Macros** • **Modular Programming –** Assembler & linkers. **Instructions** – AAA, AAD, AAM, AAS, ADC, ADD, SUB, MOV, DAA, DEC, DIV, ESC, HALT, INT, INC, INTO, JNZ, JZ, JMP, LOOP, LOOPZ, MUL, MOVS, POP, PUSH, RET, ROR, SBB, WAIT, XCHG.	**UNIT – III** **4. Interrupts** • Basic Interrupt Processing, Hardware Interrupts, 8259 A Programmable interrupt Controller, Interrupt Examples. **5. DMA & DMA Control I/O** • Basic DMA Operation, 8237 DMA Controller, Shared Bus Operation, Disk Memory Systems, Video Displays

M.S.P. Mandal's

SUNDERRAO SOLANKE MAHAVIDYALAYA MAJALGAON

ANNAUAL TEACHING PLAN

Name: **Jawakar Rutuja Deepak**   Subject: **Principle of ManagementI   CA303T (III Sem.)**   Year: 2021-22

Subject/ Paper		September	October	November	December
BCA III Sem.		**Unit – I** **Introduction:** Management administration, organization concepts, definition, scope and importance of management. Evaluation of management, early contribution and modern management thought and pattern. **Principles of Management:** Division of work authority & responsibility, discipline – unity of command and direction, centralization remuneration. Scar, chain order equity, initiative	**Unit-II** **Function of management Planning:** nature and purpose, objectives – planning premise,forecasting decision making, policy formulation and planning in action **Organizing:** forms and complexities or organization in business, trading forms and modern forms. University of organization, nature and purpose of organization, organization charts – span of management, departmentationline, staff relationships, functional aspects, delegation and decentralization of authority making the organization work role of committee.	**Staffing:** The managerial job selection of managers, appraisal of management, personnel, development and training of managers, developing the executive tomorrow **3 Unit-III** **Direction:** Nature of direction, motivation – Human factors in business administration, organization as a special behaviours, participation in management, communication leadership in administration, dimensions leadership role –leader –follower relationship	**Controlling** Control process devices of control, overall control of performance ration analysis- management audit,control, quality control- advance control techniques,PER T, CPM etc. **Coordination:** Need, principles and techniques

Biodata Format

Name of Institute:

Full Name	Jawkar Rutuja Deepak
Name of Post	Assistant Professor
Subject	Computer Science
Specialisation	Computer Science
Caste Category Appointed From	Kasar (OBC)
UG/ PG Teacher	**UG**
Address & Contact Details	Sunderrao Solanke Mahavidyalaya , Majalgaon Dist.Beed -431131 **Mobile No : 8329392299** **Email:rutuja.jawkar410@gmail.com**

Gender	Female	Date of Birth : 04/10/1994	
Mother tongue :Marathi	Marathi	Knowledge of : Marathi Hindi,English	Specially Abled: No

:: **Caste Category of Candidate**

Category : OBC

Cast : Kasar

:: **Educational Qualification (Start from Ph.D/PDF to SSC)**

Name of Exam	Board/University	Passing Mon-Year	Stream/Subject	Obtained/ Total Marks	% or Grade Point
SSC	State Board Pune	March-2010	Eng,Math,Sci	475/550	86.36
Diploma in Computer Technology	State Board Of Technical Education	May-2013	Computer	604/775	77.94
B.E.	Savitribai Phule Pune University	Jun-2016	Computer	930/1500	

:: **Work Experience**

Name of Employer	Type of Service	Designation	Nature of Post	From-To	Payscale	Approval date
Jawkar Rutuja Deepak		Assistant Professor	CHB	2020-2022	Fix Pay	

:: **Research Papers/ Conference Proceedings**

Type of Journal	Title with Page No.	Journal Details	Published year	Sole/ Co-Author	Peer Review/Impact Factor	API Score

:: **Paper Presented in Conference/Workshop/Symposium**

Title of Paper	Type of Conf./Workshop/Symposium	Details of Conf./Workshop/Symposium	Organiser Details	Proceedings Published?	Sole/ Co-author	API Score

:: **Research Publications- Books, Chapters, Articles etc.**

Publication Type	Title of Book	Publisher Details	Book ISSN/ISBN	Published Year	Sole/ Co-author	API Score

:: **Details of Research Students guided for M.Phil./Ph.D.**

Student Name	Degree	Registration Date	Award of Degree	Branch/Title	Degree Status

:: Details of Research Schemes/ Projects/ Consultancies undertaken

Project Name	Funding Agency	Fund Mobilised	Commencement Date	Completion Date	Worked as	API Score

CATEGORY I: TEACHING, LEARNING & EVALUATION RELATED ACTIVITIES

:: 1. Details of Lectures, Seminars, Tutorials, Practicals, Contact Hrs

Course/Paper	UG/ PG Level	Teaching Mode	Hours per week allotted	% of classes taken
B.Sc.(Optional)	UG	ICT/Oral/PPT	12hr	100
BCS	UG	ICT/Oral/PPT	12hr	100
BCA	UG	ICT/Oral/PPT	12hr	100

API Score for Classes taken (Max Score 50 for 100% performance & proportionate score) up to 80% performance; below which no score may be given)	
2. API Score for Teaching load in excess of UGC norm (Max Score: 10)	

3. Reading/ Instructional Material consulted/ additional knowledge resources provided to students:

Course/Paper	Consulted	Prescribed	Additional Resources Provided

API Score based on preparation & imparting knowledge/ instruction as per curriculum & syllabus enrichment by providing additional resources to students (Max Score:20)	
4. Use of Participatory & Innovative Teaching-Learning methodologies, updating of subject content, course improvement etc.	
API Score (Max Score:20)	

5. Examination Duties Assigned and Performed (invigilation; question paper setting, evaluation/ assessment of answer scripts) as per allotment:

Type of Examination Duties	Duties Assigned	Extent to which carried out (%)	API Score

CATEGORY II: CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES

1. Student related co-curricular, extension & field based activities (such as extension work through NSS/NCC & other channels, cultural activities, subject related events, advisement & counseling) *API Score (Max Score:20)*	
2. Contribution to Corporate life & management of the department & institution through participation in academic & administrative committiees & responsibilities *API Score (Max Score:20)*	
3. Professional Development Activities (such as participation in seminars, conferences, short term, training courses, talks, lectures, membership of associations, dissemination & general articles, not covered above) *API Score (Max Score:15)*	
Training Courses, Teaching, Learning Evaluation	

participation in seminars, conferences, short term, training courses, talks, lectures, membership of associations, dissemination & general articles, not covered above) API Score (Max Score:15)	
Training Courses, Teaching, Learning Evaluation Technology Programmes, Faculty Development Programmes (Not less than one week duration) API Score	--
Invited lectures or presentations for conferences/symposia	
Design of new course & curriculum	
Particulars of current research work at personal level	
Co-curricular & extra-curricular activities	
Consultancy work carried out	
Patents & IPR Details:	
Any other information you wish to specify	

Teaching Methods

Sr.No.	Short Description
1	Chalk & Black board Method
2	Practical Demonstration Method
3	Lectures & Seminars

Teaching Aids

Sr.No.	Short Description
1	Models used for Teaching
2	ICT based teaching like PPT with help of Computer
3	Laboratory Practicals
4	Printed study materials & notes
5	Provided study material on WhatsApp Groups

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