O. P. JINDAL SCHOOL, SAVITRINAGAR, TAMNAR

Annual Syllabus Break-up for the session 2023-2024

Subject: Informatics Practices   Class: XI

Sl.	Month	No. of Instructional days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
1	June	11	14	Unit 1: Introduction of Computer System	Prepare Power point presentation on above topic.	Basic computer organization: Computer system –I/O Devices, CPU, memory etc. Trouble shooting with parts of computer and basic operations of operating system etc.	About Whole IPO cycle and Operating Systems etc.

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2	July	23	27	Unit 3: Database Concepts and Management	Prepare Power point presentation on above topic.	Relational databases: Concept of a database,relations etc. attributes and tuples, keys - candidate key, primarykey, alternate key, foreign key etc.	Different functions / methods to maintain data using different database designs.

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3	July - August	23	27	Unit 3: Database Concepts and Management	Prepare a list and charts of all the functions according to their categories.	Use SQL - DDL/DML commands to CREATE TABLE, INSERT INTO, UPDATE TABLE, DELETE FROM, ALTER TABLE, MODIFY TABLE, DROP TABLE, keys etc.	Different functions / methods to maintain data using MySQL etc.

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4	August	23	27	Unit 4: Introduction to the Emerging Trends	Activities based on VR , Cyber Safety etc.	AI, ML, NLP, AR, VR, Robotics, and Cloud Computing, Cyber safety: safely browsing theweb, identity protection etc. Safely accessing web sites: adware, malware,viruses, Trojans etc.	Different functions / methods AR , VR etc.

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5	September	12	14	Revision and Assessment Half Yearly Examination		Revision and Assessment Half Yearly Examination	

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6	October	20	24	Unit 2: Introduction Python Programming	How create a Python Series. Make a charts to represent the main benefits of Python Object Series.	Familiarization with the basic of Python programming etc. Tokens - keywords, identifiers, Literals, Delimiters. Knowledge of data type andoperators etc.	Different functions / methods of data handling in Python Fundamental.

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7	November	13	17	Unit 2: Introduction Python Programming	How create a Python Series. Make a chart to represent the main benefits of Python Object Series and Dictionaries.	Conditional statements: if, if-else, if-elif-else; simpleprograms etc. Suggested programs: finding average and grade forgiven marks etc. List and dictionary etc.	Different functions / methods of data handling in Python Lists and Dictionary.

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8	December	19	24	Unit 2: Python Data Handling	Make charts to represent the tips for Data Handling Design in Python.	Text handling etc. Introduction to Python modules etc. Numpy 1D array, 2D array Arrays: slices, joins, and subsets. Arithmetic operations on 2D arraysetc.	Different functions / methods of data handling in Python

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9	January	22	20	Unit 2: Python Data Handling Revision / Assessment Project, Practical and Revision	Make charts to represent the tips for Data Handling Design in Python.	Arithmetic operations on 2D arraysetc. Revision / Assessment Project, Practical and Revision	Different functions / methods of data handling in Python

Sl.	Month	No. of Instructional days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
10	February	15		Revision / Assessment Annual Examination		Revision / Assessment	

SYLLABUS FOR EXAMINATION

SN	EXAMINATION	EXAMINATION'S MONTHS	MAX MARKS	Max Time	SYLLABUS FOR EXAMINATION
1	TEST – 1	July	20	1 Hr	Unit 1: Introduction ofComputer System Unit 3: DatabaseConcepts and Management
2	Half Yearly Examination	September	70	3 Hrs	Unit 1: Introduction ofComputer System Unit 3: DatabaseConcepts and Management Unit 4: Introduction tothe Emerging Trends
3	TEST – 2	November	20	1 Hr	Unit 2: Introduction Python Programming
4	Annual Examination	February	70	3 Hrs	**Complete Syllabus**