Smt. Savitaben Panalal Kothari College of Secondary Education
Vidyamandir Trust, Palanpur
Affiliated to Hemchandracharya North Gujarat University, Patan

Syllabus of Value-Added Courses

Course Name: Basic Computer

Course Code: SPKVAC102

Course Credits: 2

	COURSE LEARNING OUTCOMES (CLO's)
1.	Grasp foundational knowledge of computer components, functions, and data handling.
2.	Develop proficiency in basic programming concepts and problem-solving strategies.
3.	Apply computer education methodologies effectively during teaching practice, integrating technology into lessons.
4.	Demonstrate the ability to create basic educational content using relevant software tools.
5.	Analyze and comprehend ongoing ICT trends, understanding their impact on educational practices.
6.	Successfully incorporate technology into educational activities, enriching teaching and learning experiences.
7.	Anticipate and prepare for future technological advancements, enabling adaptation and utilization in educational contexts.

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SMT. S. P. KOTHARI COLLEGE OF
SEC. EDU. (ENG. MED.) PALANPUR

Principal
Smt. S. P. Kothari College of
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Details of Modules

	Content/ Topic	No. of Hours (Lab)
1.	Overview of Computer a. Brief Introduction of Computer (Generation of Computer, Computer Unit or Space in the Memory) b. Uses in Education.	6
2.	Programming Basic a. Introduction to Programming logic and algorithms. b. Fundamentals of a Programming Language (e.g., C, C++)	6
3.	Practical Teaching Experience a. Internship or practical Sessions in Schools to apply Computer education in teaching Practicals.	4
4.	Digital Content Creation a. Basic skills in creating straightforward educational content (Slideshows, Basic graphics, Educational Documents)	4
5.	ICT Trends and Future a. Analysis of current trends in ICT. b. Exploration of emerging technologies and their potential impact. c. Discussions on the future of ICT and its role in various fields.	6
6.	Digital Citizenship and Safety a. Ethical use of technology and promoting digital citizenship among students. b. Cyber security, online Safety and responsible digital behaviour.	6

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Evaluation Pattern

- **Weekly/Monthly Tests**
- **Quiz**
- **PPT Presentation**
- **Theory Paper**
- **Practical Paper**

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Course Name: Advanced Computer

Course Code: SPKVAC202

Course Credits: 2

	COURSE LEARNING OUTCOMES(CLO's)
1.	Develop skills to comprehend, evaluate, and apply emerging technologies, fostering adaptability and innovation in future tech landscapes.
2.	Demonstrate proficiency in Scratch and Python programming, showcasing theability to solve complex problems and develop innovative solutions.
3.	Utilise Moodle LMS effectively, creating engaging and interactive learning experiences for diverse audiences.
4.	Develop comprehensive open E-learning courses, integrating multimedia and interactive elements for enhanced learning experiences.
5.	Attain mastery in web programming languages, enabling the design and development of responsive, dynamic web applications and interfaces.
6.	Analyse and anticipate ICT trends, preparing to adapt and contribute to future technological advancements through informed decision-making and innovation.

Details of Modules

	Content/Topic	No. of Hours (Lab, Th.)
1.	Introduction to Emerging Technologies - Exploration of current and upcoming technologies - Basic of Artificial Intelligence, Machine Learning, Internet of Things (IoT), and Blockchain - Practical applications and potential future impact	4
2.	Introduction to Scratch Programming - Overview of the Scratch programming environment - Hands-on exercises creating interactive stories, games, andanimations - Understanding basic programming concepts using Scratch's block-based approach	8

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3.	Introduction to Python Programming - Fundamentals of Python programming language - Syntax, data types, and control structures in Python - Practical applications and problem-solving using Python	4
4.	Introduction to Moodle LMS - Understanding Learning Management Systems (LMS) - In-depth exploration of Moodle features and functionalities - Creating and managing online courses using Moodle	4
5.	Introduction to Open E-learning Interactive CourseDevelopment - Overview of open-source e-learning platforms - Hands-on experience with course development tools - Designing engaging and interactive e-learning content	7
6.	Web Programming HTML, CSS, and JavaScript - Basics of web development with HTML, CSS, and JavaScript - Creating static and dynamic web pages - Introduction to popular web development frameworks	5

Evaluation Pattern

- Weekly/Monthly Tests
- Quiz
- PPT Presentations
- Theory Paper
- Practical Paper

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