Yogoda Satsanga Palpara Mahavidyalaya

**NAAC Accredited ('B' Grade) and NCTE Recognized (B.Ed. and M.Ed Courses) affiliated to
Vidyasagar University, Midnapore and WBUTTEPA, Kolkata, (Govt. of West Bengal)**

At + P.O : Palpara, Dist : Purba Medinipur, PIN Code – 721458, West Bengal, India

B.Sc. in Multidisciplinary Studies in Computer Science Programme Specific Outcome (PSO)

The student will be capable of the following after completing the UG in Computer Scienceprogramme:

- Discipline knowledge: Acquiring knowledge on basics of Computer Science and ability
  to apply to design principles in the development of solutions for problems of varying complexity

- Problem Solving: Improved reasoning with strong mathematical ability to Identify, formulate and analyze problems related to computer science and exhibiting a sound knowledge on data structures and algorithms.

- Design and Development of Solutions: Ability to design and development of algorithmic solutions to real world problems and acquiring a minimum knowledge on statistics and optimization problems. Establishing excellent skills in applying various design strategies for solving complex problems.

- Programming a computer: Exhibiting strong skills required to program a computer for various issues and problems of day-to-day applications with thorough knowledge on programming languages of various levels.

- Application Systems Knowledge: Possessing a sound knowledge on computer application software and ability to design and develop app for applicative problems.

- Modern Tool Usage: Identify, select and use a modern scientific and IT tool or technique for modeling, prediction, data analysis and solving problems in the area of Computer Science and making them mobile based applicationsoftware.

- Communication: Must have a reasonably good communication knowledge both in oraland writing.

- Project Management: Practicing of existing projects and becoming independent to launch own project by identifying a gap in solutions.

- Ethics on Profession, Environment and Society: Exhibiting professional ethics to maintain the integrality in a working environment and also have concern on societal impacts due to computer-based solutions for problems.

- Lifelong Learning: Should become an independent learner. So, learn to learn ability.Motivation to take up Higher Studies: Inspiration to continue educations towards advanced studies on Computer Science.

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Course Outcome (CO)

<u>Semester – I</u>

- ### <u>COSSEC-01P: OFFICE AUTOMATION</u>

  <u>Outcomes:</u>

  By learning the course, the students will be able

  1. To perform documentation
  2. To perform accounting operations
  3. To perform presentation skills

- ### <u>COSMI – 01T: COMPUTER FUNDAMENTAL</u>

  <u>Outcomes:</u>

  On successful completion of this course, a student will be able to:

  1. Handle a computer system for day to day use.
  2. Enumerate different types of input/ output devices and types of memory.
  3. Perform basic arithmatic operations using different number systems including binary arithmetic.
  4. Differentiate between system and application software.
  5. Prepare documents / spreadsheets.

- ### <u>COSPMJ-101T: INTRODUCTION TO COMPUTERS</u>

  <u>Outcomes:</u>

  Upon completing requirements for this course, the student will be able to:

  1. Identify the basic elements required in a computer system.
  2. Produce electronic documents using various software applications.
  3. Illustrate the role of the computer for personal and professional uses.

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Semester – II

- **COSPMJ-101T: INTRODUCTION TO COMPUTERS**

Outcomes:

Upon completing requirements for this course, the student will be able to:

4. Identify the basic elements required in a computer system.
5. Produce electronic documents using various software applications.
6. Illustrate the role of the computer for personal and professional uses.

- **COSSEC-02P: WEB APPLICATION**

Outcomes:

At the end of the course students will be able to:

1. To introduce the fundamentals of internet, and the principles of web design.
2. To construct basic websites using html and cascading style sheets.
3. To build dynamic web pages with validation using java script objects and by applying different event handling mechanisms.
4. To develop modern interactive web applications using php, xml and mysql

- **COSMI-02T: INTRODUCTION TO PROGRAMMING**

Outcomes:
After the course the students are expected to be able to :

1. Identify situations where computational methods and computers would be useful.
2. Given a computational problem, identify and abstractthe programming task involved.
3. Approach the programming tasks using techniques learned and write pseudo-code.

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4. Choose the right data representation formats based on the requirements of the problem.
5. Use the comparisons and limitations of the various programming constructs and choose the right one for the task in hand.
6. Write the program on a computer, edit, compile, debug, correct, recompile and run it.
7. Identify tasks in which the numerical techniques learned are applicable and apply them to write programs, and hence use computers effectively to solve the task.

- **COSMI-02P:PROGRAMMING IN C LAB**

Outcomes:
After completing this course, you will be able to:

1. Develop a c program
2. Control the sequence of the program and give logical outputs
3. Implement strings in your c program
4. Store different data types in the same memory
5. Manage i/o operations in your c program
6. Repeat the sequence of instructions and points for a memory location 7.apply code reusability with functions and pointers