Bidhan Chandra College, Rishra
Department of Computer Science

Programme and Course Outcome

in Computer Science under Choice Based Credit System (CBCS), 2018

Programme offered	B.Sc. (Gen.)	
B.Sc. (Gen.) with Computer Science as a general subject		
Programme Outcome	PO1	Course is designed so that students can get basic knowledge on computers and some of the very useful and popular softwares,
	PO2	After completion of the course the students can pursue higher education such as PGDCA, MCA , MBA etc.
	PO3	After completion of the course students can get jobs at different organizations as well as different public and private sector companies, banks, rail etc.

Semester I

Course Code	Course Name	Course Outcome
CMS-G-CC-1-1-TH	Computer Fundamentals and Digital Logic Design	Students are taught computer fundamentals along with different logic gates, combinational circuits, sequential circuits.
CMS-G-CC-1-1-P	Word Processing, Spreadsheet, Presentation and Web Design by HTML	Students are taught Microsoft word, Microsoft excel, Microsoft PowerPoint and HTML. Assignments on those topics are given to them. They solve the assignments in the computer lab.

Semester II

Course Code	Course Name	Course Outcome
CMS-G-CC-2-2-TH	Algorithm and Data Structure	Students are taught different topics on Algorithm and data structure such as arrays, linked list, stacks, queues, trees, searching and sorting.
CMS-G-CC-2-2-P	Programming with C	Students are taught the high level language C. They learn the basics of C programming language such as data types, preprocessors, loops, control statements, functions, arrays, pointers, user defined data types and file accessing. Students are given assignments on above topics in C programming language. They solve the assignments using C in the computer lab.

Semester III		
Course Code	**Course Name**	**Course Outcome**
CMS-G-CC-3-3-TH	Computer Organization	Students taught about computer Organization. Topics covered are Basic computer organization, CPU Organization, Control unit, , Instructions, RISC and CISC processors, I/O organization, Memory and computer peripherals.
CMS-G-CC-3-3-P	Programming using Python	Students learn different aspects of Python programming language, like List, Tuples, Dictionary, Array, etc. They are given assignments with they are supposed to solve using python programming language.

Semester IV		
Course Code	**Course Name**	**Course Outcome**
CMS-G-CC-4-4-TH	Operating Systems	Students are taught about different aspects of operating systems such as type of operating systems, shell, kernel, process and its scheduling, CPU scheduling, deadlock, memory, file and I/O management.
CMS-G-CC-4-4-P	Shell Programming (Linux)	Students are taught Linux operating system and assignments on shell programming are given to them and they solve the assignment in computer lab using Linux

Semester V		
Course Code	**Course Name**	**Course Outcome**
CMS-G-SEC-A-X-2-TH	Software Engineering	Students are taught the different aspects of software engineering such as software development life cycle, requirement specification and analysis, project estimation and costing, coding, designing and testing of a software, software quality assurances etc.
CMS-G-DSE-A-5-1-TH	Database Management System (DBMS)	Students are taught about different data models, entities, E-R diagrams, file organization, relational algebra, relational calculus, domain calculus, functional dependency, normalization rules and database design, SQL etc.

Course Code	Course Name	Course Outcome
CMS-G-DSE-A-5-1-P	DBMS Lab using SQL	Students are given assignments on DBMS. They solve the assignments using SQL in the computer lab.

Semester VI

Course Code	Course Name	Course Outcome
CMS-G-SEC-B-X-1-TH	Multimedia and its Applications	Students learn about Multimedia Systems, Multimodal communications like Video Conferencing, Networking Support etc. They also learn about Synchronization and QoS, Multimedia Servers, etc.
CMS-G-DSE-B-6-3-TH	Computational Mathematics	Students learn about Numerical approaches to solve problems. They study Interpolation, System of Liner Equations and Non Liner Equations, Integration etc. They also study Graph theory in details.
CMS-G-DSE-B-6-3-P	Computational Mathematics Lab using C	Students are assigned multiple assignments based on the Graph theory and Numerical Methods. They implement these problems using C Programming language.