GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
KUMBAKONAM - 612 001
Affiliated to Bharathidasan University
DST - CURIE Sponsored Institution
IV Cycle of Accreditation

📞 **0435 – 2401391**   ✉ **principal@gcwk.ac.in**

Estd. 1963

DEPARTMENT OF COMPUTER SCIENCE – UNDER GRADUATE

SL. NO	COURSE CODE	COURSE NAME	ISSUED ADDRESSED	FOCUS OF THE COURSE
1.	17CSC101	Programming in C	Environment & Sustainability	To obtain knowledge about the structure of the programming language C and to develop the program writing and logical thinking skill.
2.	17CSC102P1	Practical - Programming in C Lab	Environment & Sustainability	To obtain knowledge about C programming concepts.
3.	17CSC203	Object Oriented Programming with C++	Environment & Sustainability	To gain the basic knowledge of object oriented programming concepts and to understand the details of C++ streams, templates and error handling concepts of C++ programming.
4.	17CSC204P2	Practical – Programming in C++ Lab	Environment & Sustainability	To Develop skills to write C++ Programs using OOPS concepts.
5.	17CSC305	Fundamentals of Data Structures and Algorithms	Professional Ethics	To give a fundamental knowledge on data structures and exposure to development of algorithms related to data structures
6.	17CSC306P3	Practical – Data Structures using C++ Lab	Environment & Sustainability	To gain knowledge in practical applications of data structures.
7.	17CS3NMEC1	Fundamentals of Photoshop	Environment & Sustainability	To give a fundamental knowledge of data structures and exposure to the development of algorithms related to data structures.
8.	17CSC407	Programming in JAVA.	Environment & Sustainability	To provide basic knowledge of Object Oriented Programming and to impart the programming skills in JAVA.
9.	17CSC408P4	Programming in Java Lab	Environment & Sustainability	To give basic knowledge of Object Oriented Programming and to impart the programming skills in JAVA.
10.	17CS4NMEC2	Internet Programming	Environment & Sustainability	To introduce the basic concepts of Internet and designing the webpage using HTML.
11.	17CSC509	Operating Systems	Professional Ethics	To impart a basic knowledge of processes, Scheduling concepts, Memory Management, Device Management and Information Management.
12.	17CSC510	Computer Architecture & Fundamentals of Microprocessor	Professional Ethics	To gain knowledge about the architecture of computer and to understand the concepts of CPU, ALU Design, Input Output Instruction format and different processors.

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SL. NO	COURSE CODE	COURSE NAME	ISSUED ADDRESSED	FOCUS OF THE COURSE
13.	17CSC511	Data and Computer Communications	Environment & Sustainability Professional Ethics	To impart depth knowledge about data communication and networks.
14.	17CSC512P5	Microprocessor and Animation Lab	Environment & Sustainability Professional Ethics	To gain knowledge about the architecture of computer and to understand the concepts of CPU, ALU Design, I/O Instruction format and different processors.
15.	17CS5EC3:1	Computer Graphics	Professional Ethics	To introduce the basic principles of generating primitives, package development, interactive graphics, raster graphics, two and three dimensional graphics and their transformations.
16.	17CS5EC3:2	Multimedia Systems	Environment & Sustainability	To understand and familiarize the concepts of Multimedia by creating multimedia applications.
17.	17CS5EC3:3	Digital Image Processing	Professional Ethics	To learn the fundamental concepts of Digital Image Processing: To study basic image Processing Operations.
18.	SBHC	Hardware Concepts	Environment & Sustainability	To develop and acquire in-depth knowledge in understanding thoroughly the principles of hardware design.
19.	17CSC613	Data Base System Concepts	Environment & Sustainability, Professional Ethics	To understand the fundamentals of Database systems and file systems; To introduce the basic SQL functionalities.
20.	17CSC614P6	RDBMS Lab	Environment & Sustainability	The major objective of this *lab* is to provide a strong formal foundation in database concepts.
21.	17CSC615P7	Programming in PHP Lab	Environment & Sustainability	To understand server side scripting
22.	17CS6EC4:1	PHP Scripting Language	Environment & Sustainability	To understand scripting languages.
23.	17CS6EC4:2	Software Testing	Professional Ethics	To facilitate the intakes to obtain knowledge in analysing the program flow and identify bugs over it in a systematic approach.
24.	17CS6EC4:3	E - Commerce	Environment & Sustainability	To introduce the concepts of E-Commerce and their applications of Business.

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25.	17CS6EC5:1	Software Engineering	Environment & Sustainability	To introduce the basic concepts of Software Engineering and the various phases in Software Development.
26.	17CS6EC5:2	System Analysis and Design	Professional Ethics	To introduce basic concepts and facilitate the learners in the concepts of System, System Analysis, Design and Implementation.
27.	17CS6EC5:3	Software Project Management	Environment & Sustainability	To introduce the basic concepts of Software Project Management and various phases in Software Management Framework.
28.	NMCE	Cambridge Effective English	Professional Ethics	To improve the Communication Skills.
29.	NMMD	Microsoft Digital Skills	Professional Ethics	To identify, train and offer career and academic guidance.
30.	NMET	Emerging Technology for Workplace	Professional Ethics	To learn the new emerging technologies.
31.	U21CS3NME1:1	Fundamentals of Photoshop Lab	Environment & Sustainability	To learn Photoshop tools and to develop DTP knowledge.
32.	U21CS3NME1:2	Office Automation Lab	Environment & Sustainability	To learn the basic working concepts of MS Word, Excel and PowerPoint.
33.	U21CS4NME2:1	E – Commerce	Environment & Sustainability	To introduce the concepts of E-Commerce and their applications of Business.
34.	U21CS4NME2:2	Computer Applications in MS Office - Lab	Environment & Sustainability	To learn the basic knowledge of MS Word, Excel and PowerPoint
35.	U215CSSE2	Fundamentals of Photoshop - Practical	Environment & Sustainability	To learn the knowledge of Photoshop tools and develop the DTP knowledge.
36.	U21CS6MBE3:1	Internet of Things	Professional Ethics	To learn about IoT Technologies.
37.	U21CS6MBE3:2	Cyber Security	Professional Ethics	To acquire knowledge about the Cyber Security, Security Polices and Cyber Management issues.
38.	U21CS6MBE3:3	Social Computing	Environment & Sustainability	To understand the important features of social computing and learn to analyze the data left behind in social media.

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DEPARTMENT OF COMPUTER SCIENCE – POST GRADUATE

SL. NO	COURSE CODE	COURSE NAME	ISSUED ADDRESSED	FOCUS OF THE COURSE
1.	P17CSC101	Mathematical Foundations	Professional Ethics	To understand the applications of graph theory, computer representations of graph, fundamental ideas of mathematical logic, concepts of set theory and Boolean algebra.
2.	P17CSC102	Object Oriented Analysis and Design & Unified Modelling Language	Professional Ethics	To learn the concepts of Object-Oriented Methodology for developing a software application and to gain familiarity with Object Oriented Analysis and Design.
3.	P17CSC103	Advanced Java Programming	Environment & sustainability	To obtain the basic knowledge of object oriented programming, concepts of basic JAVA, advanced JAVA Server side Scripting (JSP) and to understand the details of JAVA programming
4.	P17CSC104	Distributed Operating System	Professional Ethics	To introduce the fundamental concepts in the design of the Unix Operating System and Design Principles that is applicable to distributed operating systems.
5.	P17CSC104P1	Advanced Java Programming Lab	Environment & sustainability	To impart the experience of designing, implementing and debugging graphical user interfaces in AWT using applet and different user events.
6.	P17CSC206	Microprocessors and Microcontrollers	Professional Ethics	To impart knowledge of Microprocessors and microcontrollers to enable learners gain the knowledge of basics of Modern computation.
7.	P17CSC207	Compiler Design	Professional Ethics	To acquire the knowledge of compiler design and to understand different phases of Compiler.
8.	P17CSC208	Programming in C# and .NET Framework	Environment & sustainability	To understand the goals and objectives of the .NET Framework; To apply C#.NET programming techniques to various real world problems.
9.	P17CSC209P2	Programming in .Net Lab	Environment & sustainability	To learn the web based applications.
10.	P17CSCEC1:1	Mobile	Environment &	To understand the Tele Communication

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		Communications	Sustainability ,Professional Ethics	Systems and Wireless Application Protocol

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11.	P17CSCEC1:2	Soft Computing	Professional Ethics	To Provide necessary Mathematical background for understanding and implementing Soft Computing Techniques such as neural networks, fuzzy systems and genetic algorithm.
12.	P17CSCEC2:1	Network Security	Environment& Sustainability	To understand the security issues in computer networks; To learn about the techniques in Network and Internet security.
13.	P17CSCEC2:2	Software Project Management	Professional Ethics	To introduce the basic concepts of SoftwareProject Management and various phases in Software Management Framework.
14.	P17CSCEC2:3	Genetic Algorithms	Environment& Sustainability Professional Ethics	To generate high-quality solutions for optimization problems and search problems.
15.	P17CSC310	Data Mining	Professional Ethics	To reveal the principles of data retrieval from large databases through data mining.
16.	P17CSC311	Web Technology	Environment & Sustainability	To introduce the basic concepts of XHTML,CSS, JAVASCRIPT, XML, AJAX and to impart the advanced programming skills about dynamic web page design.
17.	P17CSC312P3	Open-Source Lab	Environment & Sustainability	To gain practical knowledge in Linux, MySQL and PHP.
18.	P17CSC313P4	Web Technology Lab	Environment & Sustainability	To learn the XHTML and CSS Program.
19.	P17CS3EC3:1	Cloud Computing	Environment& Sustainability, Professional Ethics	To impart knowledge in cloud computing infrastructure, service, monitoring and management applications.
20.	P17CS3EC3:2	Grid Computing	Professional Ethics	To enable the students to learn the virtualized distributed computingenvironment
21.	P17CS3EC3:3	Digital Image	Professional Ethics	To learn the fundamental concepts

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		Processing		of Digital Image Processing; To study basic Image Processing operations.
22.	P17CS3EC4:1	Open-Source Technologies	Environmenta & Sustainability	To understand open source, Server-Side Script and database concept. To gain knowledge in developing applications using PHP and MySQL
23.	P17CS3EC4:2	Artificial Neural Networks	Professional Ethics	To enable the students to learn the fundamentals of neural networks.
24.	P17CS3EC4:3	Robotics	Environment & Sustainability Professional Ethics	Robotics Technology and applications are increasingly raising ethical questions related to emerging interactions between robots and human beings
25.	P17CSC410	Advanced Computer Architecture	Environment & Sustainability	To gain substantial knowledge of the architecture of computer and to understand the concepts of CPU, Cache, I/O and different processors.
26.	17CS3EC5:1	Software Quality Assurance and Testing	Environment & Sustainability Professional Ethics	To facilitate the intake to obtain knowledge in analysing the program flow and identify bugs over it in a systematic approach.
27.	17CS3EC5:2	Pervasive Computing	Professional Ethics	To create awareness about the architecture and functioning of Pervasive Computing.
28.	17CS3EC5:3	Pattern Recognition	Professional Ethics	To learn knowledge about Pattern Recognition concepts.
29.	P21CSC103	Python Programming	Environment & sustainability	To learn the Basic knowledge of python programming.
30.	P21CSC104P	Practical – Python Programming Lab	Environmenta & Sustainability	The course focuses on developing the python programming to do a variety of programming tasks where the students are encouraged to develop application using python.
31.	P21CS1MBE1:1	Parallel Processing	Professional Ethics	To introduce the basic concepts of Parallel Processing, Memory and Input-Output subsystems.
32.	P21CS1MBE1:2	Grid Computing	Professional Ethics	To impart the knowledge in Grid computing organization, Anatomy, Road Map and Grid

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				services.
33.	P21CS1MBE1:3	Cloud Computing	Environment & Sustainability Professional Ethics	To impart the knowledge in cloud computing infrastructure, service, monitoring and management applications.
34.	P21CS1SE1	Document Preparation System – Latex	Environment & Sustainability	To learn different operating systems and Latex packages.
35.	P21CS2MBE2:3	Soft Computing	Professional Ethics	To provide necessary Mathematical background for understanding and implementing Soft Computing Techniques such as neural networks, fuzzy systems and genetic algorithm.
36.	P21CS2ED1:1	Cyber Security	Professional Ethics	To introduce the concepts of Cyber security basics and provide safe internet.
37.	P21CS2ED1:2	Fundamentals of Information Technology	Professional Ethics	To obtain knowledge about the concepts of information technology.
38.	P21CS2ED1:3	E-Commerce	Environment & Sustainability	To introduce the concepts of E-Commerce and their applications in Business.
39.	P21CS2SE2P	Practical - Document Preparation System – Latex Lab	Environment & Sustainability	To understand the preparation of Latex Document.
40.	P21CSC311	Data Analytics	Professional Ethics	Understand and practice big data analytics.
41.	P21CSC312P	Practical – R Programming Lab	Environment & Sustainability	To understand the basics of R Programming.
42.	P21CS3MBE3:3	Artificial Intelligence	Professional Ethics	To introduce basic Principles, Techniques and Advanced topics of Artificial Intelligence.
43.	P21CS4MBE4:1	Deep Learning	Professional Ethics	To introduce major deep learning algorithms and their applications to solve real world problems.
44.	P21CS4MBE4:2	Internet of Things	Professional Ethics	To learn the knowledge of Internet of Things.

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