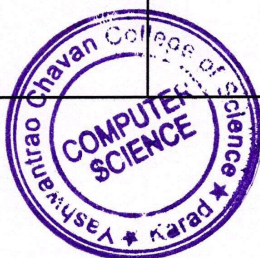
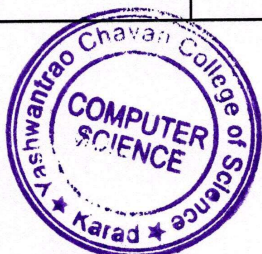
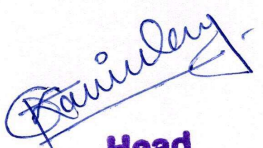


B. Sc. Computer Science (Optional) - III 2024-25				
COURSE OUTCOMES (COs)				
SEM – V	DSE-E21	Computer Science Paper – IX Core Java	CO1	use the syntax and semantics of java programming language and basic concepts of OOP.
			CO2	apply the concepts of Multithreading and Exception handling to develop efficient and error free code
			CO3	develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.
			CO4	design and program stand-alone Java applications and GUI
	DSE-E22	Computer Science Paper –X C# Programming	CO1	understand framework and architecture of .NET.
			CO2	learn common type system of .NET.
			CO3	learn object oriented concepts of C#.net
			CO4	learn graphical user interface (GUI) with windows form controls their properties, methods and events.
	DSE-E23	Computer Science Paper –XI Linux Operating System	CO1	learn architecture and basics of Linux Operating System.
			CO2	understand the kernel-shell and general purpose utilities.
			CO3	understand file system of Linux operating system.
			CO4	learn Process management and Simple BASH Programming.
	DSE-E24	Computer Science Paper –XII Basics of Python	CO1	understand why Python is a useful scripting language for developers.
			CO2	learn how to write loops and decision statements in Python.
			CO3	learn how to use lists, tuples and dictionaries in Python programs.
			CO4	use of functions and modules in Python programs.



SEM – VI	DSE-F21	Computer Science Paper –XIII Advanced Java	CO1	develop distributed business applications, develop web pages using advanced server-side programming through servlets and Java server pages.
			CO2	demonstrate approaches for performance and effective coding.
			CO3	learn database programming using Java.
			CO4	study web development concept using Servlet and JSP.
	DSE-F22	Computer Science Paper –XIX ASP.NET	CO1	understand Web server, HTTP request response architecture.
			CO2	learn Web forms and their controls.
			CO3	learn state management in web forms.
			CO4	understand ADO.NET Architecture with connection oriented and Disconnected layer.
	DSE-F23	Computer Science Paper –XV Advanced Linux OS	CO1	understand the working and use of NANO editor.
			CO2	learn Regular expressions using metacharacters.
			CO3	learn filters with the help of regular expression.
			CO4	learn advanced BASH shell Programming.
	DSE-F24	Computer Science Paper –XVI Advanced Python	CO1	learn how to use exception handling in Python applications for error handling.
			CO2	makes code more reusable and easier to work with larger programs using oops.
			CO3	understand Python programming using Django framework.
			CO4	develop web pages or web applications using Django.




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