## Rajeev Gandhi Govt. Post Graduate College, Ambikapur, Chhattisgarh

## **Department of Computer Application**

Institution integrates cross cutting issues relevant to Gender, Human Values, Professional Ethics, Environment and Sustainability

List of courses that have relevance to Gender, Human Values, Professional Ethics, Environment and Sustainability

			Relevant Issues				
Name of the Course	Course Code	Subject	Gender	Environ ment & Sustaina bility	Human Values	Professio nal Ethics	Description
	DSCBCA101	Computer Fundamental				<b>~</b>	Computer fundamentals refers to the basics of using digital devices such as computers, smart phones and tablets. "Computer" used to only refer to the basics of using a computer and associated devices; however, it has since expanded to include most frequently-used digital devices.
BCA I SEM	DSCBCA102	Discrete Maths		<b>*</b>	<b>√</b>	<b>✓</b>	Boolean algebra has been used to come up with all analysis of flight accidents. The logical tools make it possible to determine the causes of failures i.e human factors, environmental factors, and equipment failures.
	DSCBCA103	PC SOFTWARE PACKAGE				<b>~</b>	It is a group of computer programs that can be licensed, downloaded or subscribed to as a bundle of related products. The products in the package may include executable programs, program documentation and, in some cases, example files that show how the various components work.
	DSCBCA201	C LANGUAGE				<b>✓</b>	Original software code is written to maintain sustainability In the code

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		ODEDATING					Operating Systems are designed and controlled using
BCA II SEM	DSCBCA202	OPERATING SYSTEM		✓		✓	languages considering social and environmental
		0.0.2					concern.
							Software comprises the entire set of programs, procedures, and routines
	DSCBCA203	CONCEPT OF				✓	associated with the operation of a computer system. The term was coined to
		SOFTWARE					differentiate these instructions from hardware—i.e., the physical components
							of a computer system.  Environment friendly digital projects are built thereby
	DSCBCA301	DIGITAL ELECTRONICS		<b>√</b>	✓	✓	learning human values ofilelping and teamwork. The
				•			project schedule helps them to learn timely submission,
							originality and creativity intheirwork.  Environment friendly networks help to build latest
	DCCDC A 202	COMPUTER		<b>√</b>		<b>✓</b>	
	DSCBCA302	NETWORKS		•		•	communication technologies for the betterment of the
BCA III SEM							society. Organization of data in computer memory is learnt
	DSCBCA303	DATA				<b>✓</b>	organization of data in compater memory is rearned
	DSCBCASOS	STRUCTURE				ŕ	using concepts like Stacks, Queues, Tree and Graphs.
		E COMMERCE					Cyber security and prevention of cyber crimes is
	DSCBCA304					✓	discussed. Ethical issues pertaining to E-Business is
							included in the curriculum
		OBJECT					C++ is an object-oriented programming language which gives a clear structure
	DSCBCA401	ORIENTED				<b>√</b>	to programs and allows code to be reused, lowering development costs. C++ is
	D3CDCA4U1	PROGRAMMIN					portable and can be used to develop applications that can be adapted to
		G USING C++					multiple platforms.

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	DSCBCA402	COMPUTER GRAPHICS AND MULTIMEDIA			<b>√</b>	<b>✓</b>	This technology is nowadays largely adopted by most computer based applications to bridge the gap between a human user & the computer. By this, multiple media are implemented and used in computer based application to enhance their understanding ability before a common man.
	DSCBCA403	COMPUTER ORGANISATION AND ARCHITECTURE				<b>√</b>	Computer Organization and Architecture is the study of internal working, structuring, and implementation of a computer system. Architecture in the computer system, same as anywhere else, refers to the externally visual attributes of the system.
BCA IV SEM	DSCBCA404	MOBILE COMPUTING				<b>✓</b>	Mobile computing is the technology that allows users to connect and transmit data, audio/voice, and video from one device to another without being tethered to a stationary area with cabling and wires. Devices supporting mobile computing include smartphones, tablets, laptops, and wearable devices, such as smartwatches.
	DSCBCA405	CLOUD COMPUTING				<b>√</b>	Environmental friendly cloud servers help to digitize the organ isation data.
	DSCBCA406	INTERNET OF THINGS		~	<b>✓</b>	<b>✓</b>	The Internet of Things (IoT) can help reduce humanity's impact on tile environment. IoT can help organizations be more sustainable by assisting in the management of resources, the reduction of energy expenditures, the streamlining of data collection on various patterns

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	DSCBCA501	DATABASE DESIGN AND RDBMS				<b>✓</b>	The Course focusses on issues pertaining to protection of database and privacy of the users.
	DSCBCA502	SOFTWARE ENGINEERING				<b>√</b>	Software engineerling principles and practices are non perishable and are always reused and available in the Industry. Software engineers practice an ethical approach to their profession by maintaining high standards and a programmer centric approach
	DSCBCA503	ARTIFICIAL INTELLIGENCE			✓	<b>✓</b>	Machine intelligence helps human to solve complex computational needs.
BCA V SEM	DSCBCA504	PROGRAMMIN G IN JAVA				<b>✓</b>	Students developreal-timeprojects using Ajax and  HTTP Server which helps them to write reusable code.
	DSCBCA505	NUMERICAL ANALYSIS				<b>✓</b>	area of mathematics and computer science that creates, analyzes, and implements algorithms for obtaining numerical solutions to problems involving continuous variables. Such problems arise throughout the natural sciences, social sciences, engineering, medicine, and business.
	DSCBCA406	PROGRAMMIN G IN VISUAL BASIC				<b>√</b>	VB is a GUI-based development tool that offers a faster RAD than most other programming languages. VB also features syntax that is more straightforward than other languages, a visual environment that is easy to understand and high database connectivity.

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	DSCBCA601	.NET TECHNOLOGY				✓	Web Technology has sustainability as websites and. applications developed using this technology will last
	DSCBCA602	DATA MINING AND				<b>✓</b>	long even 10-20 years after the creation.  Adoption of Good safety standards to collect data and
	33030,1002	WAREHOUSING					maintaining the confidentiality.  Network security is a broad term that covers a multitude of technologies,
	DSCBCA603	NETWORK SECURITY				✓	devices and processes. In its simplest term, it is a set of rules and configurations designed to protect the integrity, confidentiality and accessibility of computer
BCA VI SEM	DSCBCA604	PYTHON PROGRAMMIN G				<b>✓</b>	networks and data using both software and hardware technologies.  Python is used in Data science to solve business problems. These include detecting fraud, optimizing transportation routes, and forecasting demand.  However, a growing number of organizations and individuals are demanding more. Data and data science should be applied to solve the existential problems we are facing.
	DSCBCA605	THEORY OF COMPUTATION				✓	The theory of computation is the branch that deals with what problems can be solved on a model of computation, using an algorithm, how efficiently they can be solved

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	DSCBCA606	MACHINE LEARNING				✓	It is a process in which computing systems learn from data and use algorithms to execute tasks without being explicitly programmed.