K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode – 637 215

Department of Computer Science – DS

Details of courses having crosscutting issues relevant to professional ethics, gender, human values, environment and sustainability

Programme	Name of the Course	RELEVANT ISSUE			Description
		Gender	Environment & Sustainability	Human Values & Professional Ethics	
B.Sc Computer Science - Data Science	CORE - II: INTRODUCTION TO DATA SCIENCE		✓	✓	• Data science is all about using data to solve problems. The problem could be decision making such as identifying which email is spam and which is not. • The core job of a data scientist is to understand the data, extract useful information out of it and apply this in solving the problems. • Educate people about the tremendous impact of ethical issues in the successful and secure use of data science.
	CORE - IX: DATA MINING AND WAREHOUSHING		✓		• Techniques are presented to explore and analyze environmental spatial-temporal data or help to design and operate better sustainable systems.
	CORE - X: SOFTWARE ENGINEERING			✓	• This can make the software engineer more conscious and aware of the ethical consequence of certain engineering decisions with in the process. • Implementation of such a ethical framework can overcome the traditional contradiction between professional skills and ethical skills by proposing an approach to the fundamental task of the software development.
	ELECTIVE I: SOCIAL MEDIA MINING		✓	✓	• Helpful in identifying influencers or users who have strong follower bases and engagement rates on certain social platforms. • Businesses will use influencer marketing to help bring attention to products and services.
	CORE - XII: PYTHON PROGRAMMING		✓		• A Robust Integration platform for the Environmental Science work from data analysis to Distributed computing and graphical interfaces to geographical information systems.

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	CORE - XIII: COMPUTER NETWORKS			✓	• Computers are networked to have the ability to link to other machines, usually to access data and other information held remotely. • The technical design of computer systems might appropriately be influenced by ethical issues.
	CORE-VI:BIG DATA ANALYTICS		✓		• Enabling environmental sustainability by helping us to understand the demand for energy and food as the world population increases and climate change reduces these resources by every passing year.