

Cross cutting issues in BCA/PGDCA course

Computer Fundamentals

- **Professional Ethics:** Introduction to responsible use of technology; ethical issues in digital content creation and data handling.
 - **Gender:** Discussions on digital gender divide and promoting inclusivity in tech access.
 - **Human Values:** Cultivating digital responsibility and respectful communication.
 - **SDGs:** Understanding the role of basic computing in supporting education.
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2. Operating Systems (OS)

- **Professional Ethics:** Ethical considerations in open-source vs proprietary OS usage.
 - **Environment and Sustainability:** Energy efficiency of OS systems; green computing.
 - **Human Values:** Promoting fairness and collaboration in the open-source community.
 - **SDGs:** Contributing to innovation and infrastructure.
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3. Database Management Systems (DBMS)

- **Professional Ethics:** Data privacy, integrity, and ethical database design.
 - **Human Values:** Sensitivity in handling personal/user data.
 - **Gender:** Avoiding bias in data collection and usage.
 - **SDGs:** Supporting data-driven decision-making for sustainable development (Peace, Justice, and Strong Institutions).
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4. Programming Languages (e.g., C, C++, vb)

- **Professional Ethics:** Writing clean, maintainable, and legally compliant code.
 - **Human Values:** Collaborative programming; respect for others' code and intellectual property.
 - **Gender:** Promoting inclusive examples and language use.
 - **SDGs:** Technology as a tool for problem-solving across various global issues.
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5. Web Technologies

- **Professional Ethics:** Ensuring accessibility, privacy, and security in web development.
- **Gender:** Designing inclusive interfaces that cater to all users.
- **Human Values:** Promoting transparency and trust through web platforms.

- **SDGs:** Enabling education and health awareness through websites .
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6. Software Engineering

- **Professional Ethics:** Ethics in software lifecycle management and client interaction.
 - **Human Values:** Encouraging teamwork, empathy, and user-centered design.
 - **Gender:** Promoting diversity in development teams and leadership roles.
 - **Environment and Sustainability:** Efficient coding to reduce resource use.
 - **SDGs:** Building sustainable and scalable systems.
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7. Computer Networks

- **Professional Ethics:** Ethical use of networks; net neutrality.
 - **Human Values:** Respectful and legal communication over networks.
 - **Environment and Sustainability:** Power-efficient networking.
 - **SDGs:** Enhancing global connectivity to bridge digital divides .
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