



Green Computing: Smart Computing to Greener Environment

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Abstract: *Green Computing is an eco-friendly use of computer and its resources. It is a smarter way to tackle environmental issues. Today when our earth is facing environmental issues like Global warming, such initiatives in this modern world full of science and technology can definitely bring a change.*

The approach towards Green Computing mainly includes: Green design, Green manufacture, Green use, Green disposal. It further aims at boosting energy efficiency, reducing the use of toxic materials in computer and its resources, recyclability of materials & components used in the devices.

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Our research project mainly focuses on gaining an insight into various aspects of Green Computing, and also assessing the awareness level of various IT organizations of Patna and implementation methods adopted by them on this issue.

Keywords: *Green Computing, Global warming, Green Design, Green Manufacture, Green use, Green disposal.*

Introduction:

The word 'Green' adds a positive dimension of compatibility with nature to any of the term, be it originating from science, technology etc.

Green Computing is a technique of using systems and technology in an eco-friendly manner. This concept uses computers and related resources in an environmentally responsible manner. It is an adoption of a holistic approach to tackle environmental issues. The main aim of Green Computing is to save the environment through intelligent use of computers. It further aims at reducing toxic materials. Now a days many devices are being manufactured which use more energy and involve toxic materials and dangerous gases. Toxic chemicals such as lead, mercury, cadmium are used in computers that create several environmental issues leading to severe health hazards. Therefore it is becoming a major issue to develop equipments by which we can minimize energy consumption, e-waste generation and create recyclability of computers and electronic goods.