



Gyan Ganga

Institute of Technology & Sciences

GGITS - 2003

Computer Science and Design

Course is confederate to Computer Science and Engineering, which not only focuses on Computing Technologies, Software's, Programming and Tools but also incorporates the various Design Methods and Interaction Approaches.

B.Tech in
**COMPUTER
SCIENCE
AND DESIGN**



Near Bargi Hills, Tilwara Ghat Road, Jabalpur (M.P.)



94253 23089, 9893556449, 9827358861



www.ggits.org

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Computer Science and Design

Computer Science and Design is quickly becoming one of the most sought-after courses in India, both at the undergraduate and postgraduate levels. A number of renowned universities and the prominent Engineering Institute in India offer Computer Science and Design course at undergraduate and post-graduate level. The trend is further rising owing to the rapid growth of the IT and software industries in the country. A career in Computer Science and Design has proved lucrative and rewarding since the last decade.

The course aims at achieving the interdisciplinary skill-set that enables the graduates to endow themselves in various fields such as IT industry, Animation, Virtual Reality, Augmented Reality, Multimedia, Robotics, Game Development, Entertainment, Digital Analytics many more.



Program Structure :

- Computer graphics
- Data visualization
- Image processing
- Spatial computing
- Mobile computing
- Information retrieval
- Computer vision
- Machine learning
- GPU Computing
- Multimedia technologies (including authoring tools)
- Software engineering
- Computer game design and programming
- Animation principles and design
- Special effects
- Virtual worlds / Virtual reality



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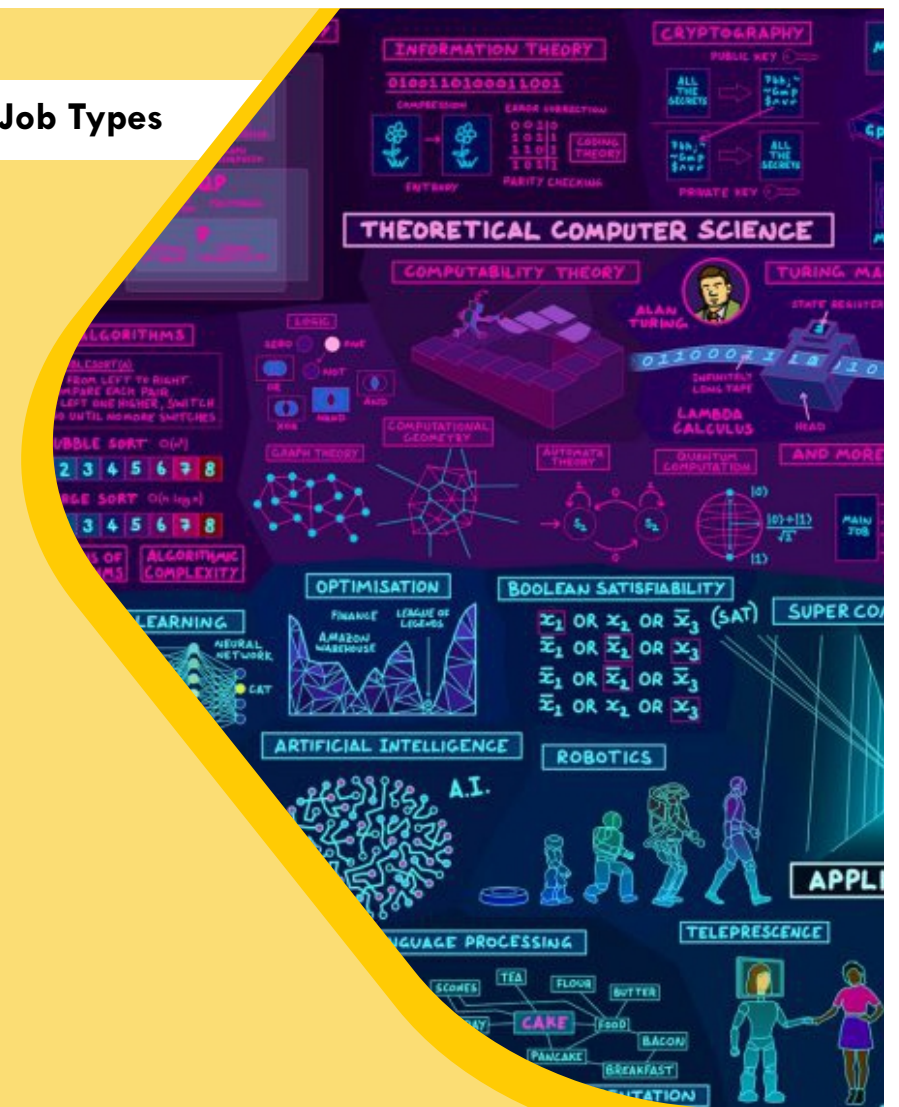
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The program aims to develop capabilities in CS as well as Design and Digital Media.
At the end of the program, a student will have:

- Understanding of foundations, limits, and capabilities of computing.
- Ability to design and implement efficient software solutions using suitable algorithms, data structures, and other computing techniques.
- Understanding of design principles and techniques and ability to apply these for developing solutions to human/societal problems.
- Ability to independently investigate a problem which can be solved by an Human Computer Interaction (HCI) design process and then design an end-to-end solution to it (i.e., from user need identification to UI design to technical coding and evaluation).
- Ability to effectively use suitable tools and platforms, as well as enhance them, to develop applications/products using for new media design in areas like animation, gaming, virtual reality, etc.

B.Tech Computer Science and Design Job Types

Data Engineer
Database Administrator
Games Developer
Graphics Designer
IT Consultant
Information Systems Manager
Multimedia Programmer
Machine Learning Engineer
Mobile Application Developer
Software Engineer
Systems Analyst / Systems Architect
Website Developer
Special effects
Virtual worlds / Virtual reality



Career Opportunities

Opportunity in various disciplines for their career such as entertainment, arts, games, digital analytics, mobile application development, web/product design, cyber security, and other interactive industries around the world.

Job roles include Software Engineer, Games Developer, 3D programmer, Web Developer, Database Graphics Designer, Information Systems Manager, Multimedia Programmer, Mobile Application Developer and Systems Architect.



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