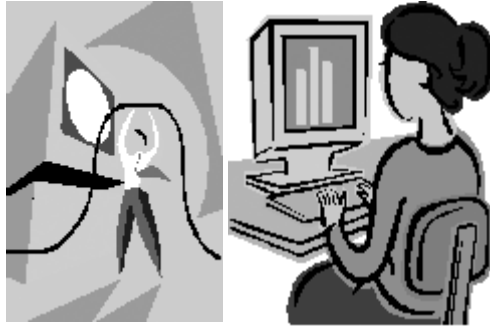


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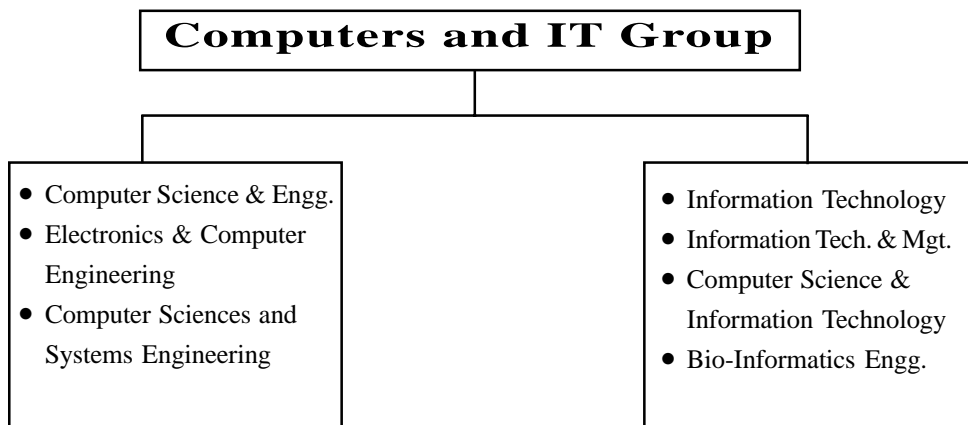
## COMPUTERS AND INFORMATION TECHNOLOGY GROUP



The most sought after group of engineering / technology course, Computers and Communication Information Technology is a fast growing field at electronic speed with benefits rendered to classes and masses. The impact of computers and information Technology has generated tremendous career opportunities, which are as diverse as the human activity itself.

The courses offered in India and abroad cover three or more fields of study, viz., Basic Computer Sciences, Computer Hardware Engineering and Computer Software Engineering.

The broad classification of this group of courses is as follows.



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## **COMPUTER SCIENCE & ENGINEERING (CSE)**



*CSE is a course that deals with the most important office automation products, computers in an expanding technological field, of Information Technology(I.T) and ITeS.*

### **Computer engineers work relates to**

- Design and development works of computers (Hardware), its control systems.
- Development of software.
- Improving the end product and building state of art equipment, super computers etc.
- Design & development of multimedia machines, Graphic Terminals, Laser and Inkjet Printers and other peripherals.

### **JOB OPPORTUNITIES**

Computer Science & Engineering graduates have wide job opportunities in almost all areas of the industrial sector.

Just to name a few:-

- Hardware professionals in industries involved in manufacturing computers, maintenance of computers.
- Designers of Chips, Computer architecture, ancillary devices of computers.
- Software Engineers working in software firms, Data Processing departments, Computer and Computer aided systems, aeronautics and space sciences, petroleum industry, chemical and power plants.
- IT Professionals.
- Business Process outsourcing units as Consultants, System Analysts, administrators, consultants etc.
- System programmers, system administrators, system analysts etc.

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## **COMPUTER SCIENCE AND SYSTEMS ENGINEERING (CSS)**



*CSS has been devised keeping the growing demand for engineers with knowledge of computers that includes both hardware and software. It is set at a high technical level and designed to provide an in depth knowledge for pursuing a career in systems engineering, as it offers the students an opportunity to work with computer systems.*

Students (Engineering) of this course will be able to design, specify, implement and test combinations of hardware and software systems to meet the specific needs, manage and put into operation product and systems development in embedded technologies. They can make computer applications in micro-controllers, automobile, automation industries etc.

### **JOB OPPORTUNITIES**

The graduates of this course find jobs in almost every modern industry as

- Computer engineers, software professionals, system analysts, programmers, designers etc.
- Hardware systems administrators.
- Trouble shooters in hard & software system industries.

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Education Fairs are conducted periodically in various places of Andhra Pradesh on various aspects viz., free counselling on education and career, open forum discussions, presentations by experts in various fields and guidance by eminent persons for motivating the younger generation. So far **16** such fairs have been successfully conducted and 10 more have been planned for 2009-10 at various locations.

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## INFORMATION TECHNOLOGY (IT)



*A cutting edge technology that has transformed the very outlook of the world, IT is, perhaps, the only field of study and career that outlived even the original expectations into a giant level. Computers have become an integral part of the current milieu. With the extensive application in vast and varied fields of modern day life such as banking, communications, food processing, IT gained a strategic and significant status in business and has become indispensable everywhere, be it an office or home.*

Information Technology as a subject provides computer handling skills in business, industry, travel, finance, telecommunication, education, defence, fashion design, architecture, graphics, music etc. Its scope is widening day by day offering quite a wide range of career opportunities for those who acquire these qualifications and skills.

Advancements, have taken place particularly during the last decade. Many large multinational firms have been set up for designing computer system solutions and servicing organisations throughout the world. Large computer based firms are producing and supplying products and ancillaries, extending services to local and multinational industries/companies.

IT-enabled services possess enormous employment potential for creation of jobs. This situation created confidence among students & parents who are preferring it as a choice course.

Although, this course suffered a set back few years ago, IT is now slowly and steadily picking up as a course of preference. As the IT industry is relatively recent in origin with average age of IT Professional including vendor considerably lower than most of the other sectors. It is emerging as an industry of professional environment with achievement orientation and entrepreneurial opportunities.

The course coverage in I.T. includes relevant knowledge and skills in hardware, software and IT enabled Services.

The students on completion of this course acquire

- \* Knowledge in hardware design and development of computer systems, components and peripherals.
- \* Skills in designing programmes for various purposes with customer's specific needs.

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- \* Proficiency in the use of application packages of computers that meet requirements common to large number of people.
  - \* Competence in software development in accordance to the user's changing needs.
  - \* Skills to undertake training in IT areas, contract services, software products and processing services.
  - \* IT related computer skills in E-commerce, Graphics and multimedia, B.P.Os etc.

## **JOB OPPORTUNITIES**

Placement opportunities for IT qualified persons include variety of jobs ranging from call centers to professionals with super skills in specialised areas. Some of them are as follows:

- \* Computer Scientists/Technologists/hardware engineers, systems analysts, R&D specialists.
- \* Design engineers, hardware technicians, service engineers.
- \* Programmers – Application, Systems, Coders, analysts.
- \* Systems designers, software engineers, software developers, data base administrators, data base managers.
- \* Sales and Marketing professionals.
- \* Professionals with specialised support services in
  - Medical transcription and call centres
  - E-Com. Specialists
  - Knowledge engineers
  - Quality assurance
  - Graphics and multimedia
  - Web application development and design
- \* Consultants
- \* Faculty in Engineering Colleges, Polytechnics and training institutions.

# Filler