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ગુજરાત યુનિવર્સિટી

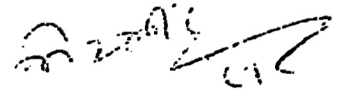
ન. એકેડેમિક-બી-૩૧ ૩૮૮-૨૦૦૦

ગુજરાત યુનિવર્સિટી કાર્યાલય  
અમદાવાદ-૯. તા. ૮-૮-૨૦૦૦

પ રિ પ ત્ર: ૨૫

યુનિવર્સિટી સાથે સ્વચ્છ શિક્ષણ વિદ્યાશાખાની સર્વે કોલેજોના આચાર્યશ્રીને જણાવવાનું કે, બી.એડ. પાર્ટ-૧ ના અભ્યાસક્રમમાં પેપર-આ કોમ્પ્યુટર સ્પેશીયલ ફિલ્ડ હતું, તેની જગ્યાએ વિષયનું નામ બદલીને આઇ.ટી.ઇ એજ્યુકેશનનો નવા વિષય સાથેનો સુધારેલો અભ્યાસક્રમ જુન-૨૦૦૦થી અમલી બનાવવામાં આવ્યો છે, જે પરિશિષ્ટ તરીકે સામેલ છે.

વધુમાં બી.એડ. ના આંતરીક ગુણકન (૪૦૦ગુણ) નું વિભાજન કરેલ છે, જે પરિશિષ્ટ-૨ તરીકે સામેલ છે, જેની નોંધ લેવા વિનંતી છે.

  
કુલસચિવ

પ્રતિ:

- (૧) શિક્ષણ વિદ્યાશાખાની સર્વે કોલેજોના આચાર્યશ્રીઓ
- (૨) ડીનશ્રી, શિક્ષણ વિદ્યાશાખા
- (૩) પરીક્ષા નિયામકશ્રી, પરીક્ષા વિભાગ, ગુજરાત યુનિ. અમદાવાદ-૯
- (૪) મદદનીશ કુલસચિવ, પરીક્ષા વિભાગ, ગુજરાત યુનિ. અમદાવાદ-૯
- (૫) શ્રીમતી પ્રકુલ્લાબેમ જે. ત્રિવેદી પરીક્ષા વિભાગ, ગુજરાત યુનિ. અમદાવાદ-૯



Each student will have to prepare a file containing the record/output of practicals and the same but duly certified by the concerned teacher, will have to be presented before the examiner at the time of final practical examination.

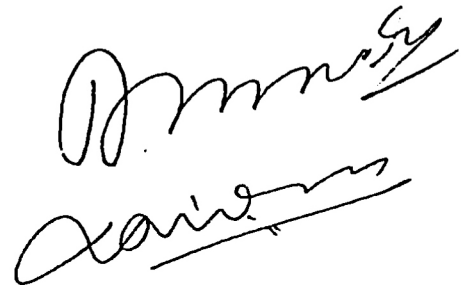
*References:*

1. Information Technology: The Breaking Wave, Dennis Curtin et al, Tata McGraw-Hill, 1999.
2. Computers In Your Future, Second Edition, Marilyn Meyer & Roberta Baber, Prentice-Hall, 1998.
3. Windows 98: 6 in 1, Calabria & Burke, Prentice-Hall, 1999.
4. MS OFFICE 97, Aptech, Tata McGraw-Hill, 1998.
5. Internet: AN Introduction, CISTems-TMH, 1999.

42/2002-9/31

**GUJARAT UNIVERSITY**  
**IT in Education**  
**(Optional Special Field of Education at B.Ed.)**

1. The syllabus of the new special field "IT in Education" will be the appendix attached herewith.
2. Total theory hours will be 40 and practical hours will be 30.
3. The theory paper will be of 25 marks and of 1-1/2 hour's duration. The practical Examination of one hours too be conducted after examination will also carry 25 marks. Total marks however, will be 50 for this subject.
4. Every student will be allocated one computer during practical work, i.e. only one student will be allowed to work on one machine. The batch size will be determined by number of computer.
5. The college desirous of offering this subject will have to
  - a. Arrange at least 5 computer with one DMP, one Inkjet printer, and an internet connection
  - b. Arrange a part time Programmer for practical sessions.
  - c. Arrange a part time Lecturer or train a Teacher to teach this subject.
6. The college may charge a fee of Rs.500/- per term as Laboratory fee.
7. The desirous college may be allowed of offer this subject from this academic year 2000-2001.



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## Syllabus for B. Ed. Special Field IT in Education

Subject: IT in Education

Marks: 50

Objectives: To help student-teachers develop

1. Awareness of potentiality of Information Technology.
2. Detailed knowledge of functioning of Microcomputers and Internet.
3. Hands-on experience of using Computers, ~~and Internet~~ *all*
4. Knowledge of window-based Operating system.
5. Skills in word processing, spreadsheet, database and presentation applications.
6. Knowledge of educational software.
7. Understanding applications of IT in school administration.

### A. THEORY

- Unit-1 Introduction to Information Technology and Computer Systems [3 Hrs]
- (a) Introduction to IT –Information Processing, Hardware, Software, Data, Information, Applications of IT in different areas.
  - (b) Types of Computers-Supercomputers, mainframes, servers, networks, desktop, workstations, notebook, palmtops.
  - (c) Analog and digital signals, binary system, bit, byte and word.
  - (d) Central Processing Unit-microprocessor chip, memory, memory types & uses, bus, communication with peripherals.
- Unit-2 Input/Output and Secondary Storage Devices [5 Hrs]
- (a) I/O devices-keyboards, OCR, bar code reader, speech recognitions, scanners, mouse, joystick, display screens, printers-laser, dmp, thermal, line-printers; plotters, special purpose I/O devices such as MICR, card scanners etc.
  - (b) Storage devices and media-magnetic storage, optical storage, magneto-optical storage, solid state storage, storage characteristics.
  - (c) Floppy disks, Hard disks, Optical disks-CD, DVD. Recording principles of these media.
- Unit-3 Introduction to Operating System and Software [3 Hrs]
- Operating system functions. BIOS. Multitasking, multithreading, multi-user, multiprocessor operating systems. File Management-Files, folders, drives, trees, paths File Utilities-formatting, fragmenting, disk scanning, file deletion, recycle bins. OLE.
- Unit-4 Office Automation Packages [15 Hrs]