PGCSS

SYLLABUS

IIIrd Semester M.A.Programme

Sanskrit Language and Literature (General)

PE III INFORMATICS

Credit: 4

Contact hours: 90

AIM:

To lay a foundation for success in the IT field by introducing fundamental technology concepts and to give essential computer skills.

OBJECTIVES:

1. To enable the students to know how to use computer.

2. To enable the students to master fundamental concepts in computer terminology.

3. To create computer related skills in students.

4. To develop a mastery of computer Technology.

COURSE OUTLINES:

Module 1: Skills and applications of ICT

Definition and scope of IT-Computer fundamentals- Introduction to input-output devices- hardware and software- Operating systems- Types of operating systems- real time, single user/ single tasking, single user/multi taking, multi user/multi tasking, etc- Graphic user interfaces- command line interfaces- DOS- MS DOS- Freeware and public domain software-open source software-word processing programmes- presentation programmes-Graphics software – paint programmes-draw programmes-photo editing programmes –computer aided design programmes- multimedia (Basics only)

Module 2: Database management and Programming

Definition of data- data base and database management-working with data base- creating data base table-viewing records-sorting- generating reports

Creating computer programmes-Hardware-software interaction- machine code- programming languages- compilers ,interpreters and editors-Algorithms- flowcharts-psuedocode-structured and object -oriented programming

Module 3: Networking and Internet

Networking basics- uses of network- simultaneous access- shared peripheral devices-personal communication- easier data backup- common types of networks- hybrid networks- structured networks-protocols

Internets history- internets major services-world wide web-URLs – helper applications and multimedia contents-searching the web-using a directory and using a search engine-academic websites-digital libraries and archives-open access resources – e journals – electronic books-subject specific sourse

Module 4: ICT for Sanskrit

Language Technology- Unicode- Indian languages in computers- Sanskrit as a natural language- Research and development for processing Sanskrit in computers- Sanskrit related softwares- networks – digital sources on Sanskrit and Indology.

Essential Reading:

1. Introduction to computers by Peter Norton: Tata McGraw Hill Publication.

2. Sanskrit Informatics: R.Raman Nair and L. Sulochana Devi: CIRL Publications.

Additional Reading:

1. Alexis Leon & Mathews Leon. Computer Today.

2. Website, Google, Wikipedia.

3. Alexis Leon & Mathews Leon: Fundamentals of Information.

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Model Question Paper

Sanskrit Language and Literature (General)

PE III INFORMATICS

Time: 3hrs   Wt: 30

Texts: 1. Introduction to computers by Peter Norton.

2. Sanskrit Informatics by R.Raman Nair and L. Sulochana Devi.

Instructions: Answer any 5 questions from Part A, five from Part B and 3 from Part C. Grade A has awarded 4 points, 3 for B, 2 for C, 1 for D and 0 for E.

Answer should be written in English.

PART- A

1-8.Write any five of the following:

1. List the four parts of a complete computer system.

2. What is hard ware? Write two examples for input and output devices.

3. Write a short note on 'Report'.

4. What is the difference between database and database management system?

5. List out five benefits that networks provide to their users?

6. Name three common LAN protocols.

7. State the uses of unicode.

8. What is the most popular use for home computers?   (5x1=5)

PART- B

9-16. Write any five of the following.

9. Write a short history of computers.

10. Define the term multimedia. What is interactivity on the context of multimedia?

11. How is computer technology used in education?

12. In a database table what is a 'record'?

13. Why were programming languages developed?

14. Name and briefly explain any two hybrid networks.

15. Why is internet sometimes described as a 'network of networks'?

16. What are the important digital resources of Sanskrit in internet?   (5x2=10)

PART – C

17-22. Write any three of the following:

17. What are the four primary functions that an operating system performs ?

18. Write an essay on graphics software.

19. Name the data management functions in a database.

20. What is a computer programme?

21. Briefly describe the history of internet. Are web and internet same? Justify your answer.

22."Information and communication technology has a significant impact on linguistics". Explain.

                                                                                    (3x5=15)

Scheme of Examination

Third semester M.A Programme

Sanskrit Language and Literature(General)

PE III   INFORMATICS

Time : 3hrs   Wt :30

Type of Questions	Weight	NO of Questions to be answered
I.1-8 Short answer Qns.(not more than one page) 2 Qns .from module I 3Qns .from module II 2 Qns. from module III 1 Qn.from moduleIV	1	5x1=5
II. 9-16 Short essay Qns(not more than two pages) 3 Qns. From module I 2 Qns from module II 2 Qns from module III 1 Qn. From module IV	2	5x2=10
III. 17-22 Essay Qns. more than one page) 2 Qns .from module I 2 Qns .from module II 1 Qns. from module III 1 Qn.from moduleIV	3	5x3=15

PE III INFORMATICS

Distribution of questions :

Module	Part-A	Part - B	Part-C
I	2	3	2
II	3	2	2
III	2	2	1
IV	1	1	1